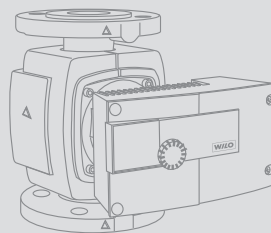
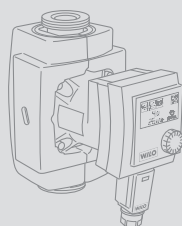
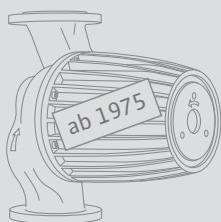


Replacement Guide Heating

Wilo Circulators
for Heating and
Secondary Hot Water Circulation



Wilo Replacement Guide Heating

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Wilo Replacement Guide Heating

Notes

All three Wilo replacement guides give you quick and easy information on Wilo replacement pumps:

The printed Wilo replacement guide

- Includes the seven most important makes divided into
 - single or double pumps for heating or
 - secondary hot water circulation pumps
- Detailed explanations and installation notes

The Wilo online replacement guide

- Includes all available makes and pumps.
- Direct connection to data sheets and further product information.
- **Ideal to be used in the office** and always up-to-date at: www.wilo.com/replacement



The Wilo SMS replacement guide

- Includes all available makes and pumps.
- Response within 10 to 20 seconds.
- Including article number and adapter information.
- Easy and quick: Just send the type designation and the pumps to be replaced via text message. (e. g.: RP 25 100)
- **Ideal to be used with a standard mobile phone onsite.**
- Always up-to-date and available 24/7 at: **+49 1511 44 44 4 66**



Technical selection criteria for the replacement guides

- **The installation length/nominal width** of the Wilo pumps corresponds **if possible** to the dimensions of the pump to be replaced.
- When replacing flange-end pumps up to a nominal width of DN 65, the dimensions of the counterflanges have to be checked (different flange sizes between versions PN 6 and PN 10). Combination flanges PN 6/10 must not be connected to other combination flanges.
- In the event that the installation length of the Wilo pump is **shorter** than that of the pump to be replaced, **adapters and flange adapters** are available to compensate the length difference. Possibly the motor with the terminal box needs to be turned by 90°. The **hydraulic flow rate of the Wilo pump** (max. pump curve) is, **if possible, equal** to the flow rate in the back area of the pump curve.

High-efficiency pumps are the state of the art!

As early as in 2001, our Wilo-Stratos set the standard for the **energy efficiency class A** which defines today the "state of the art". The Wilo-Stratos and Wilo-Stratos PICO are rated energy efficiency class A and they achieve **electricity savings of up to 90%** compared to uncontrolled standard heating pumps!

The German Energy Saving Ordinance

Beyond the "state of the art", the EnEV (German Energy Saving Ordinance) prescribes the use of controlled pumps and demands exclusively pumps with output control in heating systems from 25 kW central heating output or higher, both in old and in new installations (EnEV §12, paragraph 3). This basically requires that all flange-end pumps are equipped with a pump capacity control.

Obligation to provide information upon pump replacement!

- The secondary obligation within order processing includes the obligation of the specialised craftsman to supply information to the operator. This is stipulated by the work contract according to BGB (German Civil Code) which is closed between the specialised craftsman and his client.
- If uncontrolled heating circulation pumps are installed without giving the information that they consume a lot more electricity, the amount of money which can be saved may be claimed as compensation.
- If the client insists on the installation of an uncontrolled pump even after information on the higher electricity consumption has been given, you should note this down in your documentation.

System optimisation results in impressive savings

- Replacing a pump always offers the opportunity to adapt and **re-determine the pump performance** in consideration of the modifications which have been done at and in the building.
- High-efficiency pumps can avoid noise disturbances which may occur due to installed thermostatic valves and therefore increasing pump pressure when valves are closing.
- A later thermal insulation of a building reduces the heat demand. The formerly high pump performance is not needed any longer. Experience shows that smaller pumps are fully sufficient and even reduce power consumption.

Profit from the simplified new determination of the pump performance. See chapter **System optimisation** or use our Wilo-LCC-Check at <http://LCC-Check.Wilo.com>.

Wilo Replacement Guide Heating

Energy efficiency classes

EEI classification – Single pumps/double pumps (field of application: one/two-family house)

Nominal dia.	Wilo-Stratos PICO...	EEI class	Wilo-Star-RS...	EEI class	Wilo-Star-RSD...	EEI class
DN 15 (Rp ½)	15/1-4	A	15/4	B	–	–
	15/1-6	A	15/6	B	–	–
DN 25 (Rp 1)	25/1-4	A	25/2	B	–	–
	25/1-6	A	25/4	B	–	–
	–	–	25/6	B	–	–
	–	–	–	–	–	–
	–	–	–	–	–	–
DN 30 (Rp 1 ¼)	–	–	30/2	B	–	–
	30/1-4	A	30/4	B	30/4	D
	30/1-6	A	30/6	B	30/6	D
	–	–	–	–	–	–
	–	–	–	–	–	–

EEI classification – Single pumps (field of application: multi-family homes, commercial applications)

Nominal dia.	Wilo-Stratos...	EEI class	Wilo-TOP-S...	EEI class
DN 25 (Rp 1)	25/1-4	A	25/5 1~/3~	D/D
	25/1-6	A	25/7 1~/3~	D/D
	25/1-8	A	25/10 1~/3~	D/D
	25/1-10	A	–	–
DN 30 (Rp 1 ¼)	30/1-4	A	30/4 1~/3~	D/D
	30/1-6	A	30/5 1~/3~	D/D
	30/1-8	A	30/7 1~/3~	D/D
	30/1-10	A	30/10 1~/3~	D/D
	30/1-12	A	–	–
DN 32	32/1-10	A	–	–
	32/1-12	A	–	–
DN 40	40/1-4	A	40/4 1~/3~	D/D
	40/1-8	A	40/7 1~/3~	D/C
	40/1-10	A	40/10 3~	C
	40/1-12	A	40/15 3~	D
DN 50	50/1-8	A	50/4 1~/3~	D/D
	50/1-9	A	50/7 3~	C
	50/1-10	A	50/10 3~	C
	50/1-12	A	50/15	C
DN 65	65/1-9	A	65/7 3~	C
	65/1-12	A	65/10 3~	C
	–	–	65/13	C
	–	–	65/15	C
DN 80	80/1-12	A	80/7 3~	C
	–	–	80/10	C
	–	–	80/15	C
	–	–	80/20	C
DN 100	100/1-12	A	100/10	C

Energy efficiency classes



EEI classification – Single pumps (field of application: multi-family homes, commercial applications) (continued)

Nominal dia.	Wilo-TOP-D...	EEI class
DN 25 (Rp 1)	–	–
DN 30 (Rp 1 ¼)	30 1~/3~	G/F
	–	–
	–	–
DN 32	–	–
	–	–
DN 40	40 1~/3~	E/E
	–	–
DN 50	50 1~/3~	E/E
	–	–
DN 65	65 1~/3~	E/E
DN 80	80 1~/3~	E/E
DN 100	100 1~/3~	E/E
DN 125	125	D


EEI classification – Double pumps (field of application: multi-family homes, commercial applications)

Nominal dia.	Wilo-Stratos-D....	EEI class	Wilo-TOP-SD...	EEI class
DN 25 (Rp 1)	–	–	–	–
DN 30 (Rp 1 ¼)	–	–	30/5 1~/3~	D/D
DN 32	32/1-8	A	32/7 1~/3~	E/D
	32/1-12	A	32/10 1~/3~	D/D
DN 40	40/1-8	A	40/3 1~/3~	E/D
	40/1-12	A	40/7 1~/3~	D/D
	–	–	40/10 3~	C
	–	–	40/15 3~	D
DN 50	50/1-8	A	50/7 3~	D
	50/1-12	A	50/10 3~	D
	–	–	50/15	D
DN 65	65/1-12	A	65/10 3~	D
	–	–	65/13	D
	–	–	65/15	D
DN 80	80/1-12	A	–	F
	–	–	80/10	D
	–	–	80/15	C
	–	–	80/20	C
DN 100	–	–	–	–
DN 125	–	–	–	–

Wilo Replacement Guide Heating

Wilo				Wilo – new							
Single pumps				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp ½ (Pump thread G 1)											
Star-E 15/1-3	10	1~	130	Stratos PICO 15/1-4	1~	130	-	-	-	-	-
Star-E 15/1-5	10	1~	130	Stratos PICO 15/1-6	1~	130	-	-	-	-	-
Star-E 20/1-3	10	1~	130	Stratos PICO 15/1-4	1~	130	-	-	-	-	-
Star-E 20/1-5	10	1~	130	Stratos PICO 15/1-6	1~	130	-	-	-	-	-
Star-RS 15/4	10	1~	130	Stratos PICO 15/1-6	1~	130	-	Star-RS 15/4-130	1~	130	-
Star-RS 15/6	10	1~	130	Stratos PICO 15/1-6	1~	130	-	Star-RS 15/6-130	1~	130	-
Stratos-ECO 15/1-3	10	1~	130	Stratos PICO 15/1-4	1~	130	-	-	-	-	-
Stratos-ECO 15/1-5	10	1~	130	Stratos PICO 15/1-6	1~	130	-	-	-	-	-
Rp ¾ (Pump thread G 1¼)											
P 20-1	10	1~	140	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/2	1~	180	Mod. pipe
P 20-2	10	1~	140	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/2	1~	180	Mod. pipe
S 20-1	6	1~	140	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
S 20-2	6	1~	140	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
Rp 1 (Pump thread G 1½)											
E 25/1-5	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
H 25	10	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~/3~	180	-
P 25	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
P 25-1	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
P 25-2	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
RH 25	10	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~/3~	180	-
RP 25	6/10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
RP 25/100 v (r)	10	1~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/5	1~/3~	180	-
RP 25/60 r	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
RP 25/60-2	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
RP 25/80 v (r)	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
RP 25-1	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
RS 25	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
RS 25/3 E (n)	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
RS 25/50 (r)	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
RS 25/60 v (r)	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
RS 25/70 v (r)	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/6	1~	180	-
RS 25/80 (v) (r)	10	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/5	1~/3~	180	-
RS 25-1 (v)	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
RS 25-2	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
RS 25 v	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
RSE 25	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
RSL 25/70 r ventilation pump	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
S 25	6	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-

*) For type-dependent energy efficiency classes see pages 5–7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.



Wilo			Wilo – new								
Single pumps			High-efficiency pumps		Standard pumps*)						
			infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$		1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$						
Type	PN	Motor	Type	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note		
Rp 1 (Pump thread G 1½)											
S 25 (R 1)	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
S 25-1	6	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
S 25-1 (R 1)	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
S 30-1	6	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~/3~	180	-
S 30-1 (R 1)	10	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~/3~	180	-
Smart 25/4	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
Smart 25/4-130	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-	-	-	-	-
Smart 25/6	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
Smart 25/6-130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
Star-E 25/1-3-130	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-	-	-	-	-
Star-E 25/2	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
Star-EL 25/1-5	10	1~	180	Stratos ECO-L 25/1-5	1~	180	-	-	-	-	-
Star-EP 25/1-5	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
Star-EP 25/1-5 SSM	10	1~	180	Stratos ECO 25/1-5 BMS	1~	180	-	-	-	-	-
Star-RS 25/2	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
Star-RS 25/4	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
Star-RS 25/4-130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
Star-RS 25/6	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
Star-RS 25/6-130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/6-130	1~	130	-
Star-RSL 25/6	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
Stratos 25/1-4	10	1~	180	Stratos 25/1-4	1~	180	-	-	-	-	-
Stratos 25/1-6	10	1~	180	Stratos 25/1-6	1~	180	-	-	-	-	-
Stratos 25/1-8	10	1~	180	Stratos 25/1-8	1~	180	-	-	-	-	-
Stratos 25/1-10	10	1~	180	Stratos 25/1-10	1~	180	-	-	-	-	-
Stratos ECO 25/1-3	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
Stratos ECO 25/1-3-130	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-	-	-	-	-
Stratos ECO 25/1-5	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
Stratos ECO 25/1-5-RG	10	1~	180	Stratos PICO 25/1-6-RG	1~	180	-	-	-	-	-
Stratos ECO 25/1-5-130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
TOP-E 25/1-7	10	1~	180	Stratos 25/1-8	1~	180	-	-	-	-	-
TOP-RS 25/7	10	1~	180	Stratos 25/1-8	1~	180	-	TOP-S 25/7	1~/3~	180	-
TOP-S 25/10	10	1~	180	Stratos 30/1-12	1~	180	Mod. pipe	TOP-S 25/10	1~/3~	180	-
TOP-S 25/13	10	1~	180	-	-	-	-	TOP-S 25/13	1~/3~	180	-
TOP-S 25/5	10	1~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/5	1~/3~	180	-
TOP-S 25/7	10	1~	180	Stratos 25/1-8	1~	180	-	TOP-S 25/7	1~/3~	180	-
TOP-SV 25/7	10	-	180	Stratos 25/1-8	1~	180	-	MOT-S 30/7	1~/3~	180	-

*) For type-dependent energy efficiency classes see pages 5-7


■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Wilo				Wilo – new							
Single pumps				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1¼ (Pump thread G 2)											
D 30	10	1~/3~	206	Stratos PICO 30/1-6	1~	180	R9	TOP-D 30	1~/3~	180	R9
E 30/1-5	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
H 30-1	10	1~/3~	220	Stratos 30/1-8	1~	180	R14	TOP-S 30/10	1~/3~	180	R14
H 30-1 (250 mm)	10	1~/3~	250	Stratos 30/1-8	1~	180	R11	TOP-S 30/10	1~/3~	180	R11
H 30-2	10	1~/3~	220	Stratos 30/1-8	1~	180	R14	TOP-S 30/7	1~/3~	180	R14
H 30-2 (250 mm)	10	1~/3~	250	Stratos 30/1-8	1~	180	R11	TOP-S 30/7	1~/3~	180	R11
RP 30	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
RP 30 (220 mm)	10	1~/3~	220	Stratos PICO 30/1-6	1~	180	R14	Star-RS 30/6	1~	180	R14
RP 30/100 v (r)	10	1~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/5	1~/3~	180	-
RP 30/80 v (r)	10	1~	180	Stratos PICO 30/1-6	1~	180	-	TOP-S 30/4	1~/3~	180	-
RP 30-1	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	TOP-S 30/4	1~/3~	180	-
RS 30 (v)	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
RS 30/100 v (r)	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
RS 30/50 v (r)	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/2	1~	180	-
RS 30/60 v (r)	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
RS 30/70 v (r)	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
RS 30/80 v (r)	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
RS 30-1 (v)	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
RS 30-2	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/2	1~	180	-
S 25 (R 1 1/4)	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
S 25-1 (R 1 1/4)	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
S 30	6	1~/3~	220	Stratos 30/1-6	1~	180	R14	TOP-S 30/5	1~	180	R14
S 30/100	6/10	1~/3~	220	Stratos 30/1-12	1~	180	R14	TOP-S 30/10	1~	180	R14
S 30-1	10	1~/3~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/5	1~	180	-
Smart 30/4	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
Smart 30/6	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
Star-E 30/1-5	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
Star-EP 30/1-5	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
Star-EP 30/1-5 SSM	10	1~	180	Stratos ECO 30/1-5-BMS	1~	180	-	-	-	-	-
Star-RS 30/2	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/2	1~	180	-
Star-RS 30/4	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
Star-RS 30/6	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
Stratos 30/1-12	10	1~	180	Stratos 30/1-12	1~	180	-	-	-	-	-
Stratos 30/1-4	10	1~	180	Stratos 30/1-4	1~	180	-	-	-	-	-
Stratos 30/1-6	10	1~	180	Stratos 30/1-6	1~	180	-	-	-	-	-
Stratos 30/1-8	10	1~	180	Stratos 30/1-8	1~	180	-	-	-	-	-
Stratos 30/1-10	10	1~	180	Stratos 30/1-10	1~	180	-	-	-	-	-
Stratos ECO 30/1-3	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
Stratos ECO 30/1-5	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
Stratos ECO 30/1-5-BMS	10	1~	180	Stratos ECO 30/1-5-BMS	1~	180	-	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5-7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.



Wilo				Wilo – new			
Single pumps				High-efficiency pumps		Standard pumps*)	
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$		1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$	
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1¼ (Pump thread G 2)							
TOP-D 30	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-
TOP-E 30/1-10	10	1~	180	Stratos 30/1-12	1~	180	-
TOP-E 30/1-7	10	1~	180	Stratos 30/1-8	1~	180	-
TOP-RS 30/10	10	1~/3~	180	Stratos 30/1-12	1~	180	TOP-S 30/10
TOP-RS 30/7	10	1~/3~	180	Stratos 30/1-8	1~	180	TOP-S 30/7
TOP-S 30/10	10	1~/3~	180	Stratos 30/1-12	1~	180	TOP-S 30/10
TOP-S 30/4	10	1~/3~	180	Stratos 30/1-6	1~	180	TOP-S 30/4
TOP-S 30/5	10	1~/3~	180	Stratos 30/1-6	1~	180	TOP-S 30/5
TOP-S 30/7	10	1~/3~	180	Stratos 30/1-8	1~	180	TOP-S 30/7
TOP-SV 30/7	10	1~/3~	180	Stratos 30/1-8	1~	180	MOT-S 30/7
DN 32							
Stratos 32/1-10	10	1~	220	Stratos 32/1-10	1~	220	-
Stratos 32/1-12	6/10	1~	220	Stratos 32/1-12	1~	220	-
DN 40							
D 40	6/10	1~/3~	220	Stratos PICO 25/1-6	1~	180	2x RF9
E 40/1-5	6/10	1~	220	Stratos 40/1-4	1~	220	-
P 40/100 v (r)	6	1~	250	Stratos 40/1-4	1~	220	F1
P 40/140	6/10	3~	320	Stratos 40/1-4	1~	220	2x F26
P 40/160 (v) (r)	6	3~	320	Stratos 40/1-8	1~	220	2x F26
P 40-1	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1
P 40-2	6/10	1~/3~	250	Stratos PICO 25/1-4	1~	180	Mod. pipe
RS 40	6/10	1~/3~	220	Stratos 40/1-4	1~	220	-
S 40/80 v (r)	6/10	1~/3~	220	Stratos 40/1-4	1~	220	-
S 40/90 (v) (r)	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1
Star-E 40/1-5	6/10	1~	220	Stratos 40/1-4	1~	220	-
Stratos 40/1-12	6/10	1~	250	Stratos 40/1-12	1~	250	-
Stratos 40/1-4	6/10	1~	220	Stratos 40/1-4	1~	220	-
Stratos 40/1-8	6/10	1~	220	Stratos 40/1-8	1~	220	-
Stratos 40/1-10	10	1~	220	Stratos 40/1-10	1~	220	-
TOP-D 40	6/10	3~	220	Stratos PICO 25/1-6	1~	180	2x RF9
TOP-E 40/1-10	6/10	1~	250	Stratos 40/1-12	1~	250	-
TOP-E 40/1-4	6/10	1~	220	Stratos 40/1-4	1~	220	-
TOP-EV 40/1-4	6/10	1~	250	Stratos 40/1-4	1~	220	F1
TOP-S 40/10	6/10	3~	250	Stratos 40/1-12	1~	250	-
TOP-S 40/15	6/10	3~	250	-	-	-	-
TOP-S 40/4	6/10	1~	220	Stratos 40/1-4	1~	220	-
TOP-S 40/7	6/10	1~	250	Stratos 40/1-8	1~	220	F1
TOP-SV 40/4	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1

*) For type-dependent energy efficiency classes see pages 5–7


= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Wilo				Wilo – new							
Single pumps				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$ Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$ Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$			 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 50											
D 50	6/10	1~/3~	240	-	-	-	-	TOP-D 50	1~/3~	240	-
E 50/1-7	6/10	1~	220	Stratos 50/1-8	1~	240	-	-	-	-	-
H 50-2	6/10	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
P 50/125 v (r)	6	3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 50/140	6/10	3~	340	Stratos 50/1-9	1~	280	2x F4	TOP-S 50/7	3~	280	2x F4
P 50/160 (v) (r)	6	3~	340	Stratos 50/1-9	1~	280	2x F4	TOP-S 50/7	3~	280	2x F4
P 50/200	10	3~	460	Stratos 50/1-9	1~	280	Mod. pipe	TOP-S 50/10	3~	280	Mod. pipe
P 50/224	10	3~	460	Stratos 50/1-9	1~	280	Mod. pipe	TOP-S 50/10	3~	280	Mod. pipe
P 50/250 r	10	3~	440	Stratos 50/1-12	1~	280	F40	TOP-S 50/15	3~	340	Mod. pipe
P 50/250 v	6/10	1~/3~	440	Stratos 50/1-12	1~	280	F40	TOP-S 50/15	3~	340	Mod. pipe
P 50-1	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/7	3~	280	-
P 50-2	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/7	3~	280	-
RS 50	6/10	1~/3~	240	Stratos 50/1-8	1~	240	-	TOP-S 50/4	1~/3~	240	-
S 50/100 (v) (r)	6/10	3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
S 50/125 r	6/10	3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
S 50/140 r	6/10	3~	340	Stratos 50/1-12	1~	280	2x F4	TOP-S 50/15	3~	340	-
S 50/80 v (r)	6/10	1~/3~	240	Stratos 50/1-8	1~	240	-	TOP-S 50/4	1~/3~	240	-
Star-E 50/1-7	6/10	1~	240	Stratos 50/1-8	1~	240	-	-	-	-	-
Stratos 50/1-12	6/10	1~	280	Stratos 50/1-12	1~	280	-	-	-	-	-
Stratos 50/1-8	6/10	1~	240	Stratos 50/1-8	1~	240	-	-	-	-	-
Stratos 50/1-9	6/10	1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
Stratos 50/1-10	10	1~	240	Stratos 50/1-10	1~	240	-	-	-	-	-
TOP-D 50	6/10	1~	240	-	-	-	-	TOP-D 50	1~/3~	240	-
TOP-E 50/1-10	6/10	1~	280	Stratos 50/1-12	1~	280	-	-	-	-	-
TOP-E 50/1-6	6/10	1~	240	Stratos 50/1-8	1~	240	-	-	-	-	-
TOP-E 50/1-7	6/10	1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
TOP-EV 50/1-6	6/10	1~	280	Stratos 50/1-8	1~	240	2xF3	-	-	-	-
TOP-S 50/10	6/10	3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
TOP-S 50/15	6/10	3~	340	IP-E 50/130-2.2/2*	3~	340	-	TOP-S 50/15	3~	340	-
TOP-S 50/4	6/10	1~/3~	240	Stratos 50/1-8	1~	240	-	TOP-S 50/4	1~/3~	240	-
TOP-S 50/7	6/10	3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
TOP-SV 50/6	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2xF3	TOP-S 50/7	3~	280	-

*) For type-dependent energy efficiency classes see pages 5–7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.



Wilo				Wilo – new							
Single pumps				High-efficiency pumps		Standard pumps*)					
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$		1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$					
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 65											
D 65	6/10	1~/3~	280	-	-	-	-	TOP-D 65	1~/3~	280	-
P 65/125 v (r)	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 65/140	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
P 65/160 r	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
P 65/200	10	3~	500	Stratos 65/1-12	1~	340	Mod. pipe	TOP-S 65/15	3~	340	Mod. pipe
P 65/250 (v)	10	3~	500	Stratos 65/1-12	1~	340	Mod. pipe	TOP-S 65/15	3~	340	Mod. pipe
P 65/250 r	10	3~	475	Stratos 65/1-12	1~	340	F41	TOP-S 65/15	3~	340	F41
P 65-1	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 65-2	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
RS 65	6/10	1~/3~	280	Stratos 65/1-9	1~	280	-	TOP-S 65/7	3~	280	-
S 65/110	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
S 65/125 (v) (r)	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
S 65/140 r	6/10	3~	340	IP-E 65/115-1.5/2*	3~	340	-	TOP-S 65/15	3~	340	-
S 65/80 v (r)	6/10	3~	280	Stratos 65/1-9	1~	280	-	TOP-S 65/7	3~	280	-
Stratos 65/1-12	6/10	1~	340	Stratos 65/1-12	1~	340	-	-	-	-	-
Stratos 65/1-9	6/10	1~	280	Stratos 65/1-9	1~	280	-	-	-	-	-
TOP-D 65	6/10	1~	280	-	-	-	-	TOP-D 65	1~/3~	280	-
TOP-E 65/1-10	6/10	1~	340	Stratos 65/1-12	1~	340	-	-	-	-	-
TOP-EV 65/1-10	6/10	1~	400	Stratos 65/1-12	1~	340	2xF11	-	-	-	-
TOP-S 65/10	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/10	3~	340	-
TOP-S 65/13	6/10	3~	340	IP-E 65/115-1.5/2*	3~	340	-	TOP-S 65/13	3~	340	-
TOP-S 65/15	6/10	3~	340	IP-E 65/115-1.5/2*	3~	340	-	TOP-S 65/15	3~	340	-
TOP-S 65/7	6/10	3~	280	Stratos 65/1-9	1~	280	-	TOP-S 65/7	3~	280	-
DN 80											
D 80	6/10	1~/3~	330	-	-	-	-	TOP-D 80	1~/3~	330	-
H 80-1	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
H 80-2	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 80/125 v (r)	6	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
P 80/160 (v) (r)	6	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 80/200	10	3~	500	Stratos 80/1-12	1~	360	F42	TOP-S 80/10	3~	360	F42
P 80/224	10	3~	500	Stratos 80/1-12	1~	360	F42	TOP-S 80/10	3~	360	F42
P 80/250 (v) (r)	10	3~	500	Stratos 80/1-12	1~	360	F42	TOP-S 80/15	3~	360	F42
P 80-1	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
P 80-2	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
S 80	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
S 80/100 v	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
S 80/110	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
S 80/125 (v) (r)	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
Stratos 80/1-12	6	1~	360	Stratos 80/1-12	1~	360	-	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5–7


= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Wilo				Wilo – new							
Single pumps				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$ Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$ Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$			 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 80											
TOP-D 80	6	1~	330	-	-	-	-	TOP-D 80	1~/3~	330	-
TOP-E 80/1-10	6	1~	360	Stratos 80/1-12	1~	360	-	-	-	-	-
TOP-S 80/10	6	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
TOP-S 80/15	6	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/15	3~	360	-
TOP-S 80/20	6	3~	360	IP-E 80/140-4/2*	3~	360	-	TOP-S 80/20	3~	360	-
TOP-S 80/7	6	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
DN 100											
D 100	6/10	1~/3~	380	-	-	-	-	TOP-D 100	1~/3~	380	-
P 100/160 v (r)	6	3~	395	Stratos 100/1-12	1~	360	F34	TOP-S 100/10	3~	360	F34
P 100/180	6/10	3~	500	IP-E 80/115-2.2/2*	3~	360	Mod. pipe	TOP-S 80/15	3~	360	Mod. pipe
P 100/200 v	10	3~	500	Stratos 100/1-12	1~	360	Mod. pipe	TOP-S 80/15	3~	360	Mod. pipe
P 100/200 r	10	3~	550	Stratos 100/1-12	1~	360	F43	TOP-S 80/15	3~	360	Mod. pipe
P 100-1	6/10	3~	395	Stratos 100/1-12	1~	360	F34	TOP-S 100/10	3~	360	F34
P 100-2	6	1~/3~	395	Stratos 100/1-12	1~	360	F34	TOP-S 100/10	3~	360	F34
S 100/125 v (r)	6/10	3~	395	Stratos 100/1-12	1~	360	F34	TOP-S 100/10	3~	360	F34
Stratos 100/1-12	6	1~	360	Stratos 100/1-12	1~	360	-	-	-	-	-
TOP-D 100	6	1~/3~	380	-	-	-	-	TOP-D 100	1~/3~	380	-
TOP-E 100/1-10	6	1~	360	Stratos 100/1-12	1~	360	-	-	-	-	-
TOP-S 100/10	6	3~	360	Stratos 100/1-12	1~	360	-	TOP-S 100/10	3~	360	-
DN 125											
D 125	6/10	3~	450	-	-	-	-	TOP-D 125	3~	450	-
TOP-D 125	6/10	3~	450	-	-	-	-	TOP-D 125	3~	450	-

*) For type-dependent energy efficiency classes see pages 5-7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.




Wilo				Wilo – new							
Double pumps				High-efficiency pumps		Standard pumps*)					
Type				Type		Type					
PN	Motor	Overall length [mm]		Motor	Overall length [mm]	Motor	Overall length [mm]				
				Adapter/ note			Adapter/ note				
Rp 1¼ (pump thread G 2)											
DORS 30/60 r	10	1~	180	-	-	-	Star-RSD 30/4	1~	180	-	
DORS 30/70 r	10	1~	180	-	-	-	Star-RSD 30/6	1~	180	-	
Star-RSD 30/4	10	1~	180	-	-	-	Star-RSD 30/4	1~	180	-	
Star-RSD 30/6	10	1~	180	-	-	-	Star-RSD 30/6	1~	180	-	
TOP-SD 30/5	10	1~/3~	180	Stratos-D 32/1-8	1~	220	Mod. pipe	TOP-SD 30/5	1~/3~	180	-
DN 32											
DOP 32/80 v (r)	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	Star-RSD 30/4	1~	180	2x RF3
DOS 32/80 v (r)	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
Stratos-D 32/1-12	6/10	1~	220	Stratos-D 32/1-12	1~	220	-	-	-	-	-
Stratos-D 32/1-8	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	-	-	-	-
TOP-ED 32/1-7	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	-	-	-	-
TOP-SD 32/10	6/10	1~/3~	220	Stratos-D 32/1-12	1~	220	-	TOP-SD 32/10	1~/3~	220	-
TOP-SD 32/7	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
DN 40											
DOP 40/100 v (r)	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-
DOP 40/160 r	6/10	3~	320	Stratos-D 40/1-8	1~	220	2x F26	TOP-SD 40/7	1~	250	F0+F26
DOS 40/90 v (r)	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~	250	-
Stratos-D 40/1-12	6/10	1~	250	Stratos-D 40/1-12	1~	250	-	-	-	-	-
Stratos-D 40/1-8	6/10	1~	220	Stratos-D 40/1-8	1~	220	-	-	-	-	-
TOP-ED 40/1-10	6/10	1~	250	Stratos-D 40/1-12	1~	250	-	-	-	-	-
TOP-ED 40/1-7	6/10	1~	250	Stratos-D 40/1-8	1~	220	F1	-	-	-	-
TOP-SD 40/10	6/10	3~	250	Stratos-D 40/1-12	1~	250	-	TOP-SD 40/10	3~	250	-
TOP-SD 40/15	6/10	3~	250	-	-	-	-	TOP-SD 40/15	3~	250	-
TOP-SD 40/3	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~/3~	250	-
TOP-SD 40/7	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
DN 50											
DOP 50/100 v (r)	6/10	3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
DOP 50/160 r	6/10	3~	340	Stratos-D 50/1-9	1~	280	2x F4	TOP-SD 50/7	3~	280	2x F4
DOS 50/100 v (r)	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
DOS 50/125 (r)	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
DOS 50/140 (r)	6/10	3~	340	-	-	-	-	TOP-SD 50/15	3~	340	-
Stratos-D 50/1-12	6/10	1~	280	Stratos-D 50/1-12	1~	280	-	-	-	-	-
Stratos-D 50/1-8	6/10	1~	240	Stratos-D 50/1-8	1~	240	-	-	-	-	-
Stratos-D 50/1-9	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	-	-	-	-
TOP-ED 50/1-10	6/10	1~	280	Stratos-D 50/1-12	1~	280	-	-	-	-	-
TOP-ED 50/1-6	6/10	1~	280	Stratos-D 50/1-8	1~	240	2x F3	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5–7


■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Wilo				Wilo – new							
Double pumps				High-efficiency pumps				Standard pumps*)			
											
Type				Type				Type			
PN	Motor	Overall length [mm]		Motor	Overall length [mm]	Adapter/ note	Motor	Overall length [mm]	Adapter/ note		
DN 50											
DOP 50/100 v (r)	6/10	3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
TOP-SD 50/15	6/10	3~	340	-	-	-	-	TOP-SD 50/15	3~	340	-
TOP-SD 50/7	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
DN 65											
DOP 65/125 v (r)	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
DOP 65/160 r	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
DOS 65/125 v (r)	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
DOS 65/140 r	6/10	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/15	3~	340	-
Stratos-D 65/1-12	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
TOP-ED 65/1-10	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
TOP-SD 65/10	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
TOP-SD 65/13	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/13	3~	340	-
TOP-SD 65/15	6/10	3~	340	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 65/15	3~	340	-
DN 80											
DOP 80/125 v (r)	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
DOP 80/160 r	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
DOS 80/125 v (r)	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
Stratos-D 80/1-12	6/10	1~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
TOP-ED 80/1-10	6/10	1~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
TOP-SD 80/10	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
TOP-SD 80/15	10	3~	360	-	-	-	-	TOP-SD 80/15	3~	360	-
TOP-SD 80/20	10	3~	360	-	-	-	-	TOP-SD 80/20	3~	360	-
DN 100											
DOP 100/160 r	6/10	3~	395	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
DOS 100/125 r	6/10	3~	395	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5–7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp ½ (Pump thread G 1)											
MX 10-4	10	1~	130	Stratos PICO 15/1-4-130	130	1~	-	Star-RS 15/4-130	130	1~	-
MX 12-4	10	1~	130	Stratos PICO 15/1-6-130	130	1~	-	Star-RS 15/6-130	130	1~	-
MX 13-4	10	1~	130	Stratos 25/1-6	180	1~	Mod. pipe	TOP-S 25/5	180	1~	Mod. pipe
Rp 1 (Pump thread G 1½)											
A 12-1	10	1~	180	Stratos 25/1-4	180	1~	-	-	-	-	-
A 13-1	10	1~	180	Stratos 25/1-6	180	1~	-	-	-	-	-
A 14-1	10	1~	180	Stratos 25/1-6	180	1~	-	-	-	-	-
A 15-1	10	1~	180	Stratos 25/1-8	180	1~	-	-	-	-	-
AX 12-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	-	-	-	-
AX 13-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	TOP-S 25/5	180	1~	-
L 321-1	10	1~/3~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-
L 322-1	10	1~/3~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-
L 323-1	10	1~/3~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-
LX 321-1	10	1~/3~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-
LX 322-1	10	1~/3~	180	Stratos 25/1-4	180	1~	-	TOP-S 25/5	180	1~	-
LX 323-1	10	1~/3~	180	Stratos 25/1-4	180	1~	-	TOP-S 25/5	180	1~	-
M 10-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-
M 10-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	Star-RS 25/4-130	130	1~	-
M 12-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-
M 12-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	Star-RS 25/4-130	130	1~	-
M 13-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-
M 13-3	10	1~	130	Stratos PICO 25/1-6-130	130	1~	-	Star-RS 25/6-130	130	1~	-
M 14-1	10	1~	180	Stratos 25/1-6	180	1~	-	TOP-S 25/7	180	1~	-
M 15-1	10	1~	180	Stratos 25/1-8	180	1~	-	TOP-S 25/7	180	1~	-
MC 10-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	-	-	-	-
MC 12-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	-	-	-	-
ME 12-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	-	-	-	-
ME 12-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	-	-	-	-
ME 13-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	-	-	-	-
ME 13-3	10	1~	130	Stratos PICO 25/1-6-130	130	1~	-	-	-	-	-
ME 14-1	10	1~	180	Stratos 25/1-6	180	1~	-	-	-	-	-
ME 15-1	10	1~	180	Stratos 25/1-8	180	1~	-	-	-	-	-
MX 10-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-
MX 10-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	Star-RS 25/4-130	130	1~	-
MX 12-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/4	180	1~	-
MX 12-3	10	1~	130	Stratos PICO 25/1-6-130	130	1~	-	Star-RS 25/4-130	130	1~	-
MX 13-1	10	1~	180	Stratos 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-
MX 13-3	10	1~	130	Stratos 25/1-6	180	1~	Mod. pipe	Star-RS 25/6-130	130	1~	-
MXE 12-1	10	1~	180	Stratos 25/1-4	180	1~	-	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5–7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Biral

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1 (Pump thread G 1½)												
PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	PN	Motor	Overall length [mm]	Adapter/ note	PN	
MXE 12-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	-	-	-	-	-
MXE 13-1	10	1~	180	Stratos 25/1-6	180	1~	-	-	-	-	-	-
MXE 13-3	10	1~	130	Stratos 25/1-6	180	1~	Mod. pipe	-	-	-	-	-
MXE 14-1	10	1~	180	Stratos 25/1-6	180	1~	-	-	-	-	-	-
MXE 15-1	10	1~	180	Stratos 25/1-8	180	1~	-	-	-	-	-	-
NRB 10 S-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-	-
NRB 10 S-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	Star-RS 25/4-130	130	1~	-	-
NRB 11 S-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-	-
NRB 11 S-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	Star-RS 25/4-130	130	1~	-	-
NRB 11 SZ-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-	-
NRB 11-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-	-
NRB 11-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	Star-RS 25/4-130	130	1~	-	-
NRB 12 S-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-	-
NRB 12 S-3	10	1~	130	Stratos PICO 25/1-6-130	130	1~	-	Star-RS 25/6-130	130	1~	-	-
NRB 12 SZ-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-	-
NRB 12 T-1	10	1~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-	-
NRB 12 T-3	10	1~	130	Stratos PICO 25/1-4-130	130	1~	-	Star-RS 25/4-130	130	1~	-	-
NRB 12-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-	-
NRB 12-3	10	1~	130	Stratos PICO 25/1-6-130	130	1~	-	Star-RS 25/6-130	130	1~	-	-
NRB 13 S-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-	-
NRB 13 S-3	10	1~	130	Stratos PICO 25/1-6-130	130	1~	-	Star-RS 25/6-130	130	1~	-	-
NRB 13 T-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-	-
NRB 13 T-3	10	1~	130	Stratos PICO 25/1-6-130	130	1~	-	Star-RS 25/6-130	130	1~	-	-
NRB 13 TE-1	10	1~	180	Stratos 25/1-6	180	1~	-	-	-	-	-	-
NRB 13 TE-3	10	1~	130	Stratos 25/1-6	180	1~	Mod. pipe	-	-	-	-	-
NRB 14 S-1	10	1~	180	Stratos 25/1-6	180	1~	-	TOP-S 25/7	180	1~	-	-
NRB 14 T-1	10	1~	180	Stratos 25/1-6	180	1~	-	TOP-S 25/7	180	1~	-	-
NRB 15 S-1	10	1~	180	Stratos 25/1-8	180	1~	-	TOP-S 25/7	180	1~	-	-
NRB 15 T-1	10	1~	180	Stratos 25/1-8	180	1~	-	TOP-S 25/7	180	1~	-	-
NRB 15 TE-1	10	1~	180	Stratos 25/1-8	180	1~	-	-	-	-	-	-
NRZ 25 S-1	10	1~/3~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-	-
NRZ 25-1	10	1~/3~	180	Stratos PICO 25/1-4	180	1~	-	Star-RS 25/4	180	1~	-	-
NRZ 30 S-1	10	1~/3~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/4	180	1~	-	-
NRZ 30-1	10	1~/3~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/4	180	1~	-	-
NRZ 35 S-1	10	1~/3~	180	Stratos 25/1-6	180	1~	-	TOP-S 25/5	180	1~/3~	-	-
NRZ 35-1	10	1~/3~	180	Stratos 25/1-6	180	1~	-	TOP-S 25/5	180	1~/3~	-	-
RB 010-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/4	180	1~	-	-
RB 10-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/4	180	1~	-	-
RB 11-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/4	180	1~	-	-
RB 12 S-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-	-

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1 (Pump thread G 1½)											
RB 12-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-
RB 13-1	10	1~	180	Stratos PICO 25/1-6	180	1~	-	Star-RS 25/6	180	1~	-
RB 14-1	10	1~	180	Stratos 25/1-6	180	1~	-	TOP-S 25/5	180	1~/3~	-
RB 15 S-1	10	1~	180	Stratos 25/1-8	180	1~	-	TOP-S 25/7	180	1~/3~	-
RB 15-1	10	1~	180	Stratos 25/1-8	180	1~	-	TOP-S 25/7	180	1~/3~	-
Z 24	10	1~	190	Stratos PICO 25/1-4	180	1~	Gasket	Star-RS 25/4	180	1~	Gasket
Z 33	10	1~	160	Stratos PICO 25/1-4-130	130	1~	R1	Star-RS 25/4-130	130	1~	R1
Rp 1¼ (Pump thread G 2)											
A 12	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	-	-	-	-
A 12-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	-	-	-	-
A 13	10	1~	170	Stratos 25/1-6-130	130	1~	2x R7	-	-	-	-
A 13-2	10	1~	180	Stratos 30/1-6	180	1~	-	-	-	-	-
A 14	10	1~	170	Stratos 25/1-6-130	130	1~	2x R7	-	-	-	-
A 14-2	10	1~	180	Stratos 30/1-6	180	1~	-	-	-	-	-
A 16-2	10	1~	180	Stratos 30/1-10	180	1~	-	-	-	-	-
AX 12	10	1~	180	Stratos 30/1-4	180	1~	-	-	-	-	-
AX 12-2	10	1~	180	Stratos 30/1-4	180	1~	-	-	-	-	-
AX 13	10	1~	180	Stratos 30/1-6	180	1~	-	-	-	-	-
BZ 32-1	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
BZ 32-2	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
BZ 32-3	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
BZ 36-1	10	1~/3~	190	Stratos 30/1-8	180	1~	Gasket	TOP-S 30/7	180	1~/3~	Gasket
BZ 36-1	10	1~/3~	210	Stratos 30/1-8	180	1~	R10	TOP-S 30/7	180	1~/3~	R10
BZ 36-2	10	1~/3~	190	Stratos 30/1-8	180	1~	Gasket	TOP-S 30/7	180	1~/3~	Gasket
BZ 36-2 (210)	10	1~/3~	210	Stratos 30/1-8	180	1~	R10	TOP-S 30/7	180	1~/3~	R10
BZ 36-3	10	1~/3~	190	Stratos 30/1-8	180	1~	Gasket	TOP-S 30/7	180	1~/3~	Gasket
BZ 36-3 (210)	10	1~/3~	210	Stratos 30/1-8	180	1~	R10	TOP-S 30/7	180	1~/3~	R10
H 321	10	1~/3~	190	Stratos 30/1-6	180	1~	Gasket	TOP-S 30/7	180	1~/3~	Gasket
H 322	10	1~/3~	190	Stratos 30/1-12	180	1~	Gasket	TOP-S 30/10	180	1~/3~	Gasket
HX 321	10	1~/3~	190	Stratos 30/1-8	180	1~	Gasket	TOP-S 30/7	180	1~/3~	Gasket
HX 321-2	10	1~/3~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-
HX 322	10	1~/3~	190	Stratos 30/1-12	180	1~	Gasket	TOP-S 30/10	180	1~/3~	Gasket
HX 322-2	10	1~/3~	180	Stratos 30/1-12	180	1~	-	TOP-S 30/10	180	1~/3~	-
L 321	10	1~/3~	190	Stratos PICO 30/1-4	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
L 321-2	10	1~/3~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
L 322	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
L 322-2	10	1~/3~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
L 323	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
L 323	10	1~/3~	210	Stratos PICO 30/1-6	180	1~	R10	Star-RS 30/6	180	1~	R10

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Biral

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G 2)											
L 323-2	10	1~/3~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
L 325	10	1~/3~	190	Stratos 30/1-6	180	1~	Gasket	TOP-S 30/7	180	1~/3~	Gasket
L 325 (210)	10	1~/3~	210	Stratos 30/1-6	180	1~	R10	TOP-S 30/7	180	1~/3~	R10
L 326	10	1~/3~	190	Stratos 30/1-8	180	1~	Gasket	TOP-S 30/7	180	1~/3~	Gasket
L 326 (210)	10	1~/3~	210	Stratos 30/1-6	180	1~	R10	TOP-S 30/7	180	1~/3~	R10
LE 326	10	1~	190	Stratos 30/1-8	180	1~	Gasket	-	-	-	-
LX 321	10	1~/3~	190	Stratos PICO 30/1-4	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
LX 321-2	10	1~/3~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
LX 322	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
LX 322-2	10	1~/3~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
LX 323	10	1~/3~	190	Stratos 30/1-4	180	1~	Gasket	TOP-S 30/5	180	1~/3~	Gasket
LX 323-2	10	1~/3~	180	Stratos 30/1-4	180	1~	-	TOP-S 30/5	180	1~/3~	-
LX 325	10	1~/3~	190	Stratos 30/1-6	180	1~	Gasket	TOP-S 30/5	180	1~/3~	Gasket
LX 326	10	1~/3~	190	Stratos 30/1-8	180	1~	Gasket	TOP-S 30/7	180	1~/3~	Gasket
LXE 326	10	1~	190	Stratos 30/1-8	180	1~	Gasket	-	-	-	-
LXP 326	10	1~	190	Stratos 30/1-8	180	1~	Gasket	-	-	-	-
M 10	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
M 10-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
M 12	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
M 12-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
M 13	10	1~	170	Stratos 30/1-6	180	1~	Mod. pipe	TOP-S 30/5	180	1~/3~	Mod. pipe
M 13-2	10	1~	180	Stratos 30/1-6	180	1~	-	TOP-S 30/5	180	1~/3~	-
M 14	10	1~	170	Stratos 30/1-6	180	1~	Mod. pipe	TOP-S 30/5	180	1~/3~	Mod. pipe
M 14-2	10	1~	180	Stratos 30/1-6	180	1~	-	TOP-S 30/5	180	1~/3~	-
M 15	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
M 15-2	10	1~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-
MC 10	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	-	-	-	-
MC 12	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	-	-	-	-
ME 12	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	-	-	-	-
ME 12-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	-	-	-	-
ME 13	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	-	-	-	-
ME 13-2	10	1~	180	Stratos PICO 30/1-6	180	1~	-	-	-	-	-
ME 14	10	1~	170	Stratos 30/1-6	180	1~	Mod. pipe	-	-	-	-
ME 14-2	10	1~	180	Stratos 30/1-6	180	1~	-	-	-	-	-
ME 15	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	-	-	-	-
ME 15-2	10	1~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-
MX 10	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
MX 10-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
MX 12	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
MX 12-2	10	1~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/4	180	1~	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1¼ (Pump thread G 2)											
MX 13	10	1~	170	Stratos 30/1-6	180	1~	Mod. pipe	Star-RS 25/6-130	130	1~	2x R7
MX 13-2	10	1~	180	Stratos 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
MXE 12	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	-	-	-	-
MXE 12-2	10	1~	180	Stratos PICO 30/1-6	180	1~	-	-	-	-	-
MXE 13	10	1~	170	Stratos 30/1-6	180	1~	Mod. pipe	-	-	-	-
MXE 13-2	10	1~	180	Stratos 30/1-6	180	1~	-	-	-	-	-
MXE 14	10	1~	170	Stratos 30/1-6	180	1~	Mod. pipe	-	-	-	-
MXE 14-2	10	1~	180	Stratos 30/1-6	180	1~	-	-	-	-	-
MXE 15	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	-	-	-	-
MXE 15-2	10	1~	180	Stratos 30/1-8	180	1~	-	-	-	-	-
NRB 10 S	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
NRB 10 S-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRB 11	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
NRB 11 S	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
NRB 11 S-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRB 11 SZ	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
NRB 11 SZ-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRB 11-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRB 12	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
NRB 12 S	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
NRB 12 S-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRB 12 SZ	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
NRB 12 SZ-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRB 12 T	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
NRB 12 T-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRB 12-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRB 13 S	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
NRB 13 S-2	10	1~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
NRB 13 T	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
NRB 13 T-2	10	1~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
NRB 13 TE	10	1~	170	Stratos PICO 30/1-6	180	1~	Mod. pipe	-	-	-	-
NRB 13 TE-2	10	1~	180	Stratos 30/1-6	180	1~	-	-	-	-	-
NRB 14 S	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
NRB 14 S-2	10	1~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-
NRB 14 T	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
NRB 14 T-2	10	1~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-
NRB 15 S	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
NRB 15 S-2	10	1~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-
NRB 15 T	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
NRB 15 T-2	10	1~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-

*) For type-dependent energy efficiency classes see pages 5-7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilо Replacement Guide Heating

Biral

Single pumps



Type

PN
Motor
Overall length [mm]

Wilо – new

High-efficiency pumps

Energy A
infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G 2)

PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note	
NRB 15 TE	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	-	-	-	
NRB 15 TE-2	10	1~	180	Stratos 30/1-8	180	1~	-	-	-	-	
NRP 30	10	1~	190	Stratos PICO 30/1-4	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
NRP 30 S	10	3~	190	Stratos PICO 30/1-4	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
NRZ 25	10	1~/3~	190	Stratos PICO 30/1-4	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
NRZ 25 S	10	3~	190	Stratos PICO 30/1-4	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
NRZ 25 S-2	10	3~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRZ 25-2	10	1~/3~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
NRZ 30	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
NRZ 30 S	10	3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
NRZ 30 S-2	10	3~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/4	180	1~	-
NRZ 30-2	10	1~/3~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/4	180	1~	-
NRZ 35	10	1~/3~	210	Stratos 30/1-6	180	1~	R10	TOP-S 30/4	180	1~/3~	R10
NRZ 35 S	10	3~	210	Stratos 30/1-6	180	1~	R10	TOP-S 30/4	180	1~/3~	R10
NRZ 35 S-2	10	3~	180	Stratos 30/1-6	180	1~	-	TOP-S 30/4	180	1~/3~	-
NRZ 35-2	10	1~/3~	180	Stratos 30/1-6	180	1~	-	TOP-S 30/4	180	1~/3~	-
NRZ 39-1 S	10	3~	210	Stratos 30/1-6	180	1~	R10	TOP-S 30/4	180	1~/3~	R10
NRZ 39-2 S	10	3~	210	Stratos 30/1-6	180	1~	R10	TOP-S 30/4	180	1~/3~	R10
NRZ 39-3 S	10	3~	210	Stratos 30/1-6	180	1~	R10	TOP-S 30/4	180	1~/3~	R10
NRZ 44-1 S	10	3~	210	Stratos 30/1-8	180	1~	R10	TOP-S 30/7	180	1~/3~	R10
P 30-1	10	1~/3~	190	-	-	-	-	TOP-D 30	180	1~/3~	Gasket
P 30-2	10	1~/3~	190	-	-	-	-	TOP-D 30	180	1~/3~	Gasket
RB 0	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
RB 010	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
RB 010-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
RB 1	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
RB 10	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
RB 10-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
RB 11	10	1~	170	Stratos PICO 25/1-4-130	130	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
RB 11-2	10	1~	180	Stratos PICO 30/1-4	180	1~	-	Star-RS 30/4	180	1~	-
RB 12 (S)	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
RB 12 S-2	10	1~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
RB 12-2	10	1~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
RB 13	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
RB 13-2	10	1~	180	Stratos PICO 30/1-6	180	1~	-	Star-RS 30/6	180	1~	-
RB 14	10	1~	170	Stratos 30/1-6	180	1~	Mod. pipe	TOP-S 30/4	180	1~/3~	Mod. pipe
RB 14-2	10	1~	180	Stratos 30/1-6	180	1~	-	TOP-S 30/4	180	1~/3~	-
RB 15	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
RB 15 S	10	1~	170	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
RB 15 S-2	10	1~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1¼ (Pump thread G 2)											
RB 15-2	10	1~	180	Stratos 30/1-8	180	1~	-	TOP-S 30/7	180	1~/3~	-
RB 2	10	1~	170	Stratos PICO 25/1-4-130	180	1~	2x R7	Star-RS 25/4-130	130	1~	2x R7
RB 3	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
Regula 0	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
Regula 04	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
Regula 1	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
Regula 2	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
Regula 3	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
Regula 4	10	1~	170	Stratos PICO 25/1-6-130	130	1~	2x R7	Star-RS 25/6-130	130	1~	2x R7
RP 30	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
RZ 25	10	3~	190	Stratos PICO 30/1-4	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
RZ 25	10	1~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
RZ 30	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
RZ 35	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 25-0	10	1~	190	Stratos PICO 30/1-4	180	1~	Gasket	Star-RS 30/4	180	1~	Gasket
Z 25-01	10	1~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 25-1	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 30-1	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 30-2	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 30-3	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 30-4	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 30-5	10	1~/3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 32-1	10	3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 32-2	10	3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 32-3	10	3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 32-4	10	3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 32-5	10	3~	190	Stratos PICO 30/1-6	180	1~	Gasket	Star-RS 30/6	180	1~	Gasket
Z 35-1	10	1~/3~	210	Stratos PICO 30/1-6	180	1~	R10	Star-RS 30/6	180	1~	R10
Z 35-2	10	1~/3~	210	Stratos PICO 30/1-6	180	1~	R10	Star-RS 30/6	180	1~	R10
Z 35-3	10	1~/3~	210	Stratos PICO 30/1-6	180	1~	R10	Star-RS 30/6	180	1~	R10
Z 36-1	10	3~	210	Stratos 30/1-8	180	1~	R10	TOP-S 30/7	180	1~/3~	R10
Z 36-2	10	3~	210	Stratos 30/1-8	180	1~	R10	TOP-S 30/7	180	1~	R10
Z 36-3	10	3~	210	Stratos 30/1-8	180	1~	R10	TOP-S 30/7	180	1~	R10

*) For type-dependent energy efficiency classes see pages 5-7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Biral

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Oval flange

	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
NRF 10 S	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
NRF 11 S	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
NRF 11 SZ	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
NRF 12 S	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
NRF 12 SZ	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
NRF 12 T	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
NRF 13 S	6	1~	158	Stratos PICO 30/1-6	180	1~	Mod. pipe	Star-RS 30/6	180	1~	Mod. pipe
NRF 13 T	6	1~	158	Stratos PICO 30/1-6	180	1~	Mod. pipe	Star-RS 30/6	180	1~	Mod. pipe
NRF 14 S	6	1~	158	Stratos 30/1-6	180	1~	Mod. pipe	TOP-S 30/4	180	1~/3~	Mod. pipe
NRF 14 T	6	1~	158	Stratos 30/1-6	180	1~	Mod. pipe	TOP-S 30/4	180	1~/3~	Mod. pipe
NRF 15 S	6	1~	158	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
NRF 15 T	6	1~	158	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
RF 0	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 010	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 1	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 10	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 11	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 12	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 12 S	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 13	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 14	6	1~	158	Stratos 30/1-6	180	1~	Mod. pipe	Star-RS 30/6	180	1~	Mod. pipe
RF 15	6	1~	158	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
RF 15 S	6	1~	158	Stratos 30/1-8	180	1~	Mod. pipe	TOP-S 30/7	180	1~/3~	Mod. pipe
RF 2	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe
RF 3	6	1~	158	Stratos PICO 30/1-4	180	1~	Mod. pipe	Star-RS 30/4	180	1~	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
RP 1½ (Pump thread G 2¼)											
BP 40-1	10	1~/3~	190	Stratos PICO 25/1-4	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
BP 40-2	10	1~/3~	190	Stratos 25/1-6	180	1~	2x R12	-	-	-	-
BP 40-2	10	1~/3~	190	Stratos PICO 25/1-4	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
BP 40-3	10	1~/3~	190	Stratos PICO 25/1-4	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
L 324	10	1~/3~	190	Stratos 25/1-6	180	1~	2x R12	TOP-S 25/7	180	1~/3~	2x R12
NBP 40-1	10	1~/3~	190	Stratos PICO 25/1-4	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
NBP 40-1 S	10	1~/3~	190	Stratos PICO 25/1-4	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
NBP 40-2	10	1~/3~	190	Stratos PICO 25/1-4	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
NBP 40-2 S	10	3~	190	Stratos PICO 25/1-4	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
NBP 40-3	10	1~/3~	190	Stratos PICO 25/1-4	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
P 40-3	10	1~/3~	190	Stratos PICO 25/1-6	180	1~	2x R12	Star-RS 25/4	180	1~	2x R12
DN 40											
A 401	6/10	1~	220	Stratos 40/1-10	220	1~	-	-	-	-	-
A 401-1	6/10	1~	250	Stratos 40/1-10	220	1~	F1	-	-	-	-
A 402	6/16	1~	220	Stratos 40/1-12	250	1~	Mod. pipe	-	-	-	-
A 402-1	6/16	1~	250	Stratos 40/1-12	250	1~	-	-	-	-	-
BZ 40-1	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
BZ 40-2	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
BZ 40-3	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
BZ 43-1	6/10	1~/3~	220	Stratos 30/1-12	180	1~	2x RFO + R14	TOP-S 30/10	180	1~	2x RFO + R14
BZ 43-2	6/10	1~/3~	220	Stratos 30/1-12	180	1~	2x RFO + R14	TOP-S 30/10	180	1~	2x RFO + R14
BZ 43-3	6/10	1~/3~	220	Stratos 30/1-12	180	1~	2x RFO + R14	TOP-S 30/10	180	1~	2x RFO + R14
BZ 43-4	6/10	1~/3~	220	Stratos 30/1-12	180	1~	2x RFO + R14	TOP-S 30/10	180	1~	2x RFO + R14
BZ 45-1	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
BZ 45-2	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
BZ 45-3	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
H 402	6/16	1~/3~	220	Stratos 40/1-8	220	1~	-	TOP-S 40/7	250	1~/3~	Mod. pipe
H 402-1	6/16	1~/3~	250	Stratos 40/1-8	220	1~	F1	TOP-S 40/7	250	1~/3~	-
HX 402	6/16	1~/3~	220	Stratos 40/1-8	220	1~	-	TOP-S 40/7	250	1~/3~	Mod. pipe
HX 402-1	6/16	1~/3~	250	Stratos 40/1-8	220	1~	F1	TOP-S 40/7	250	1~/3~	-
HXE 402 (B)	6/16	1~	220	Stratos 40/1-8	220	1~	-	-	-	-	-
HXE 402-1 (B)	6/16	1~	250	Stratos 40/1-8	220	1~	F1	-	-	-	-
HXP 402	6/16	1~	220	Stratos 40/1-12	250	1~	Mod. pipe	-	-	-	-
HXP 402-1	6/16	1~	250	Stratos 40/1-12	250	1~	-	-	-	-	-
L 401	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
L 402	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
L 403	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
LE 403	6/10	1~	250	Stratos 40/1-4	220	1~	F1	-	-	-	-
LE 403 (B)	6/10	1~	250	Stratos 40/1-4	220	1~	F1	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5–7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1~ 230 V, 50 Hz single-phase, 3~ = 3~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Biral

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new



High-efficiency pumps

infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$
Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$
Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note



Standard pumps*)

1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 40											
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
LX 401	6/16	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
LX 402	6/16	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
LX 403	6/16	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
LXE 403 (B)	6/16	1~	250	Stratos 40/1-4	220	1~	F1	-	-	-	-
LXP 403	6/16	1~	250	Stratos 40/1-4	220	1~	F1	-	-	-	-
NBZ 40-1	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
NBZ 40-1 S	6/10	3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
NBZ 40-2	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
NBZ 40-2 S	6/10	3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
NBZ 40-3	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
NBZ 40-3 S	6/10	3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
NBZ 45-1	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
NBZ 45-1 S	6/10	3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
NBZ 45-2	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
NBZ 45-3	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
Z 40-1	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
Z 40-2	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
Z 40-3	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
Z 40-4	6/10	1~/3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
Z 42-1	10	3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
Z 42-2	10	3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
Z 42-3	10	3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
Z 42-4	10	3~	220	Stratos 40/1-4	220	1~	-	TOP-S 40/4	220	1~/3~	-
Z 45-1	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
Z 45-2	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
Z 45-3	6/10	1~/3~	250	Stratos 40/1-4	220	1~	F1	TOP-S 40/4	220	1~/3~	F1
DN 50											
A 501	6/16	1~	270	Stratos 50/1-8	240	1~	F4	-	-	-	-
A 502	6/16	1~	270	Stratos 50/1-12	280	1~	Mod. pipe	-	-	-	-
BP 50-1	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
BP 50-2	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
BP 50-3	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
BP 52-1	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
BP 52-2	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
BP 52-3	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
BZ 50-1	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
BZ 50-2	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
BZ 50-3	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
BZ 55-1	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/7	280	3~	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 50											
BZ 55-2	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
BZ 55-3	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
BZ 56-1	6/10	1~/3~	270	Stratos 50/1-12	280	1~	Mod. pipe	TOP-S 50/10	280	3~	Mod. pipe
BZ 56-2	6/10	1~/3~	270	Stratos 50/1-9	280	1~	Mod. pipe	TOP-S 50/7	280	3~	Mod. pipe
BZ 56-3	6/10	1~/3~	270	Stratos 50/1-9	280	1~	Mod. pipe	TOP-S 50/7	280	3~	Mod. pipe
H 501	6/16	1~/3~	270	Stratos 50/1-9	280	1~	Mod. pipe	TOP-S 50/7	280	3~	Mod. pipe
H 501-1	6/16	1~/3~	280	Stratos 50/1-9	280	1~	-	TOP-S 50/7	280	3~	-
H 502	6/16	1~/3~	270	Stratos 50/1-12	280	1~	Mod. pipe	TOP-S 50/10	280	3~	Mod. pipe
H 502-1	6/16	1~/3~	280	Stratos 50/1-12	280	1~	-	TOP-S 50/10	280	3~	-
HX 501	6/16	1~/3~	270	Stratos 50/1-12	280	1~	Mod. pipe	TOP-S 50/10	280	3~	Mod. pipe
HX 501-1	6/16	1~/3~	280	Stratos 50/1-12	280	1~	-	TOP-S 50/10	280	3~	-
HX 502	6/16	1~/3~	270	Stratos 50/1-12	280	1~	Mod. pipe	TOP-S 50/10	280	3~	Mod. pipe
HX 502-1	6/16	1~/3~	280	Stratos 50/1-12	280	1~	-	TOP-S 50/10	280	3~	-
HXC 501	6/16	1~	270	Stratos 50/1-12	280	1~	Mod. pipe	-	-	-	-
HXC 501 (B)	6/16	1~	270	Stratos 50/1-12	280	1~	Mod. pipe	-	-	-	-
HXC 501-1	6/16	1~	280	Stratos 50/1-12	280	1~	-	-	-	-	-
HXC 501-1 (B)	6/16	1~	280	Stratos 50/1-12	280	1~	-	-	-	-	-
L 501	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	-	-	-	-
L 502	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	-	-	-	-
L 503	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
L 504	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
LE 504	6/16	1~	270	Stratos 50/1-8	240	1~	F4	-	-	-	-
LX 502	6/16	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	-	-	-	-
LX 503	6/16	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
LX 504	6/16	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
LXE 504	6/10	1~	270	Stratos 50/1-8	240	1~	F4	-	-	-	-
LXE 504 (B)	6/16	1~	270	Stratos 50/1-8	240	1~	F4	-	-	-	-
LXP 504	6/16	1~	270	Stratos 50/1-8	240	1~	F4	-	-	-	-
NBP 50-1	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
NBP 50-1 S	6/10	3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
NBP 50-2	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
NBP 50-2 S	6/10	3~	220	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
NBP 50-3	6/10	1~/3~	220	Stratos 50/1-8	240	1~	Mod. pipe	-	-	-	-
NBP 50-3 S	6/10	3~	220	Stratos 50/1-8	240	1~	Mod. pipe	-	-	-	-
NBZ 50-1	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
NBZ 50-1 S	6/10	3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
NBZ 50-2	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
NBZ 50-2 S	6/10	3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
NBZ 50-3	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
NBZ 55-1	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4

*) For type-dependent energy efficiency classes see pages 5–7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Biral

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new



High-efficiency pumps

infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note



Standard pumps*)

1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 50											
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
NBZ 55-1 S	6/10	3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
NBZ 55-2	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
NBZ 55-3	6/10	1~/3~	270	Stratos 50/1-8	240	1~	F4	TOP-S 50/4	240	1~	F4
P 50-3	6/10	1~/3~	220	-	-	-	-	TOP-D 50	240	1~	Mod. pipe
P 52-1	6/10	3~	220	-	-	-	-	TOP-D 50	240	1~	Mod. pipe
P 52-2	6/10	3~	220	-	-	-	-	TOP-D 50	240	1~	Mod. pipe
P 52-3	6/10	3~	220	-	-	-	-	TOP-D 50	240	1~	Mod. pipe
Z 50-1	6/10	1~/3~	270	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
Z 50-2	6/10	1~/3~	270	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
Z 50-3	6/10	1~/3~	270	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
Z 50-4	6/10	1~/3~	270	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
Z 55-1	6/10	3~	300	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
Z 55-2	6/10	3~	300	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
Z 55-3	6/10	3~	300	Stratos 50/1-8	240	1~	Mod. pipe	TOP-S 50/4	240	1~	Mod. pipe
DN 65											
A 651	6/16	1~	340	Stratos 65/1-9	280	1~	2x F11	-	-	-	-
A 652	6/16	1~	340	Stratos 65/1-12	340	1~	-	-	-	-	-
BP 65-1	6/10	1~/3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
BP 65-2	6/10	1~/3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
BP 65-3	6/10	1~/3~	270	-	-	-	-	TOP-D 65	280	3~	Mod. pipe
BZ 58-1	6/10	1~/3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
BZ 58-2	6/10	1~/3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
BZ 58-3	6/10	1~/3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
BZ 60-1	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
BZ 60-2	6/10	1~/3~	340	Stratos 65/1-9	280	1~	2x F11	TOP-S 65/7	280	3~	2x F11
BZ 60-3	6/10	1~/3~	340	Stratos 65/1-9	280	1~	2x F11	TOP-S 65/7	280	3~	2x F11
BZ 65-1	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
BZ 65-2	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
BZ 65-3	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
H 652	6/16	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/13	340	3~	-
HX 652	6/16	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/13	340	3~	-
L 651	6/10	1~/3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
L 652	6/10	1~/3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
L 653	6/10	1~/3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
L 654	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
L 655	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
LC 650	6/16	1~	340	Stratos 65/1-9	280	1~	2x F11	-	-	-	-
LX 652	6/16	1~/3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
LX 653	6/16	1~/3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 65											
LX 654	6/16	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
LX 655	6/16	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
LXC 655	6/16	1~/3~	340	Stratos 65/1-9	280	1~	2x F11	-	-	-	-
LXC 655 (B)	6/10	1~	340	Stratos 65/1-12	340	1~	-	-	-	-	-
LXP 654	6/10	1~	340	Stratos 65/1-9	280	1~	2x F11	-	-	-	-
NBP 65-1	6/10	1~/3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
NBP 65-1 S	6/10	3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
NBP 65-2	6/10	1~/3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
NBP 65-2 S	6/10	3~	270	Stratos 65/1-9	280	1~	Mod. pipe	TOP-S 65/7	280	3~	Mod. pipe
NBP 65-3	6/10	1~/3~	270	-	-	-	-	TOP-D 65	280	3~	Mod. pipe
NBP 65-3 S	6/10	3~	270	-	-	-	-	TOP-D 65	280	3~	Mod. pipe
NBZ 58-1	6/10	1~/3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
NBZ 58-1 S	6/10	3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
NBZ 58-2	6/10	1~/3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
NBZ 58-2 S	6/10	3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
NBZ 58-3	6/10	1~/3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
NBZ 60-1	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
NBZ 60-1 S	6/10	3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
NBZ 60-2	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
NBZ 60-2 S	6/10	3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
NBZ 60-3	6/10	1~/3~	340	Stratos 65/1-9	280	1~	2x F11	TOP-S 65/7	280	3~	2x F11
NBZ 65-1	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
NBZ 65-1 S	6/10	3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
NBZ 65-2	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
NBZ 65-3	6/10	1~/3~	340	Stratos 65/1-12	340	1~	-	TOP-S 65/10	340	3~	-
P 65-3	6/10	1~/3~	270	-	-	-	-	TOP-D 65	280	3~	Mod. pipe
P 65-4	6/10	1~/3~	270	-	-	-	-	TOP-D 65	280	3~	Mod. pipe
Z 58-1	6/10	3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
Z 58-2	6/10	3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
Z 58-3	6/10	3~	300	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	F10
Z 60-1	6/10	3~	340	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	2x F11
Z 60-2	6/10	3~	340	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	2x F11
Z 60-3	6/10	3~	340	Stratos 65/1-9	280	1~	F10	TOP-S 65/7	280	3~	2x F11
Z 65-1	6/10	3~	370	Stratos 65/1-12	340	1~	F11	TOP-S 65/10	340	3~	F11
Z 65-2	6/10	3~	370	Stratos 65/1-12	340	1~	F11	TOP-S 65/10	340	3~	F11
Z 65-3	6/10	3~	370	Stratos 65/1-12	340	1~	F11	TOP-S 65/10	340	3~	F11
Z 65-4	6/10	3~	370	Stratos 65/1-12	340	1~	F11	TOP-S 65/10	340	3~	F11

*) For type-dependent energy efficiency classes see pages 5–7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Biral

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new



High-efficiency pumps

infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note



Standard pumps*)

1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 80											
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
BP 80-1	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
BP 80-2	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
BP 80-3	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
BZ 78-1	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
BZ 78-2	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
BZ 78-3	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
BZ 80-1	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
BZ 80-2	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
BZ 80-3	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
BZ 85-1	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
BZ 85-2	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
BZ 85-3	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
H 802	6/16	1~/3~	360	Stratos 80/1-12	360	1~	-	TOP-S 80/10	360	3~	-
HX 802	6/16	1~/3~	360	Stratos 80/1-12	360	1~	-	TOP-S 80/10	360	3~	-
L 801	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
L 802	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
L 803	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/10	360	3~	F16
L 804	6/10	1~/3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
L 805	6/10	1~/3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
LC 800	6	3~	400	Stratos 80/1-12	360	1~	F18	-	-	-	-
LC 805	6	3~	400	Stratos 80/1-12	360	1~	F18	-	-	-	-
LX 802	6/16	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
LX 803	6/16	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/10	360	3~	F16
NBP 80-1	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
NBP 80-1 S	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
NBP 80-2	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
NBP 80-2 S	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
NBP 80-3	6/10	1~/3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
NBP 80-3 S	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
NBZ 78-1	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/10	360	3~	F16
NBZ 78-1 S	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/10	360	3~	F16
NBZ 78-2	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
NBZ 78-3	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
NBZ 80-1	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
NBZ 80-1 S	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
NBZ 80-2	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
NBZ 80-3	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
NBZ 85-1	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
NBZ 85-1 S	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
NBZ 85-2	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 80											
NBZ 85-2 S	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
NBZ 85-3	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/10	360	3~	F18
P 80-3	6/10	3~	370	-	-	-	-	TOP-D 80	330	1~	F18
Z 78-1	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
Z 78-2	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
Z 78-3	6/10	3~	370	Stratos 80/1-12	360	1~	F16	TOP-S 80/7	360	3~	F16
Z 80-1	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/7	360	3~	F18
Z 80-2	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/7	360	3~	F18
Z 80-3	6/10	3~	400	Stratos 80/1-12	360	1~	F18	TOP-S 80/7	360	3~	F18
Z 85-1	6/10	3~	410	Stratos 80/1-12	360	1~	2x F30	TOP-S 80/10	360	3~	2x F30
Z 85-2	6/10	3~	410	Stratos 80/1-12	360	1~	2x F30	TOP-S 80/10	360	3~	2x F30
Z 85-3	6/10	3~	410	Stratos 80/1-12	360	1~	2x F30	TOP-S 80/10	360	3~	2x F30
DN 100											
BP 100-1	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
BP 100-2	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
BP 100-3	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
BZ 100-1	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 80/15	360	3~	Mod. pipe
BZ 100-2	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 80/15	360	3~	Mod. pipe
BZ 100-3	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 80/15	360	3~	Mod. pipe
BZ 100-4	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 80/15	360	3~	Mod. pipe
L 1001	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
L 1002	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
L 1003	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
L 1004	6/10	3~	450	IP-E 80/115-2.2/2*	360	3~	Mod. pipe	-	-	-	-
LC 1000	6/16	3~	450	IP-E 80/130-3/2*	360	3~	Mod. pipe	-	-	-	-
LC 1003	6/16	3~	450	Stratos 100/1-12	360	1~	F34 + F35	-	-	-	-
NBP 100-1	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
NBP 100-1 S	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
NBP 100-2	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
NBP 100-2 S	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
NBP 100-3	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
NBP 100-3 S	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
NBZ 100-1	6/10	3~	450	IP-E 80/130-3/2*	360	3~	Mod. pipe	TOP-S 80/15	360	3~	Mod. pipe
NBZ 100-1 S	6/10	3~	450	IP-E 80/130-3/2*	360	3~	Mod. pipe	TOP-S 80/15	360	3~	Mod. pipe
NBZ 100-2	6/10	3~	450	IP-E 80/130-3/2*	360	3~	Mod. pipe	TOP-S 80/15	360	3~	Mod. pipe
NBZ 100-2 S	6/10	3~	450	IP-E 80/130-3/2*	360	3~	Mod. pipe	TOP-S 80/15	360	3~	Mod. pipe
NBZ 100-3	6/10	3~	450	IP-E 80/130-3/2*	360	3~	Mod. pipe	TOP-S 80/15	360	3~	Mod. pipe
NBZ 100-3 S	6/10	3~	450	IP-E 80/130-3/2*	360	3~	Mod. pipe	TOP-S 80/15	360	3~	Mod. pipe
NBZ 100-4	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35
NBZ 100-4 S	6/10	3~	450	Stratos 100/1-12	360	1~	F34 + F35	TOP-S 100/10	360	3~	F34 + F35

*) For type-dependent energy efficiency classes see pages 5–7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Biral

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

indefinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$
 Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$
 Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$

Standard pumps*)

1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G 2)

HD 321	10	1~/3~	190	Stratos-D 32/1-12	1~	220	Mod. pipe	-	-	-	-
HD 322	10	1~/3~	190	Stratos-D 32/1-12	1~	220	Mod. pipe	Star-RSD 30/6	1~	180	Mod. pipe
HXD 321	10	1~/3~	190	Stratos-D 32/1-12	1~	220	Mod. pipe	-	-	-	-
HXD 321-2	10	1~/3~	180	Stratos-D 32/1-12	1~	220	Mod. pipe	-	-	-	-
HXD 322	10	1~/3~	190	Stratos-D 32/1-12	1~	220	Mod. pipe	-	-	-	-
HXD 322-2	10	1~/3~	180	Stratos-D 32/1-12	1~	220	Mod. pipe	-	-	-	-
LD 321	10	1~/3~	190	-	-	-	-	Star-RSD 30/4	1~	180	Mod. pipe
LD 322	10	1~/3~	190	-	-	-	-	Star-RSD 30/6	1~	180	Mod. pipe
LD 323	10	1~/3~	210	-	-	-	-	TOP-SD 30/5	1~	180	R10
LXD 321	10	1~/3~	190	-	-	-	-	Star-RSD 30/4	1~	180	Mod. pipe
LXD 322	10	1~/3~	190	-	-	-	-	Star-RSD 30/6	1~	180	Mod. pipe
LXD 323	10	1~/3~	190	-	-	-	-	TOP-SD 30/5	1~	180	Mod. pipe
NZRZ 25 (S)	10	1~/3~	190	-	-	-	-	Star-RSD 30/4	1~	180	Mod. pipe
NZRZ 30 (S)	10	1~/3~	190	-	-	-	-	Star-RSD 30/6	1~	180	Mod. pipe
NZRZ 35 (S)	10	1~/3~	210	-	-	-	-	TOP-SD 40/3	1~/3~	250	Mod. pipe
ZRZ 25	10	3~	190	-	-	-	-	Star-RSD 30/4	1~	180	Mod. pipe
ZRZ 30	10	3~	190	-	-	-	-	Star-RSD 30/6	1~	180	Mod. pipe
ZRZ 35	10	3~	210	-	-	-	-	TOP-SD 40/3	1~/3~	250	Mod. pipe

DN 32

LD 321 PN 16	16	1~/3~	190	-	-	-	-	Star-RSD 30/4	1~	180	Mod. pipe
LD 322 PN 16	16	1~/3~	190	-	-	-	-	Star-RSD 30/6	1~	180	Mod. pipe
LD 323 PN 16	16	1~/3~	210	-	-	-	-	Star-RSD 30/6	1~	180	Mod. pipe
NZRZ 25	10	1~/3~	190	-	-	-	-	Star-RSD 30/4	1~	180	Mod. pipe
NZRZ 30	10	1~/3~	190	-	-	-	-	Star-RSD 30/6	1~	180	Mod. pipe
NZRZ 35	10	1~/3~	210	Stratos-D 32/1-8	1~	220	Mod. pipe	TOP-SD 32/7	1~/3~	220	Mod. pipe

DN 40

HD 402-1	6/16	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
HXD 402-1	6/16	1~/3~	250	Stratos-D 40/1-12	1~	250	-	TOP-SD 40/10	3~	250	-
HXED 402-1	6/16	1~	220	Stratos-D 40/1-8	1~	220	-	-	-	-	-
LD 401	6/16	1~/3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250	Mod. pipe
LD 402	6/16	1~/3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250	Mod. pipe
LD 403	6/16	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
LED 403	6/16	1~	250	Stratos-D 40/1-8	1~	220	F1	-	-	-	-
LXD 401	6/16	1~/3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250	Mod. pipe
LXD 402	6/16	1~/3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250	Mod. pipe
LXD 403	6/16	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
LXED 403	6/16	1~	250	Stratos-D 40/1-8	1~	220	F1	-	-	-	-
NZBZ 40-1	6/10	1~/3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5-7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Biral

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 40

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note
NZBZ 40-1 S	6/10	3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250 Mod. pipe
NZBZ 40-2	6/10	1~/3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250 Mod. pipe
NZBZ 40-2 S	6/10	3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250 Mod. pipe
NZBZ 40-3	6/10	1~/3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250 Mod. pipe
NZBZ 40-3 S	6/10	3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250 Mod. pipe
NZBZ 45-1	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250 -
NZBZ 45-1 S	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250 -
NZBZ 45-2	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250 -
NZBZ 45-3	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250 -
ZBZ 40-1	6/10	3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250 Mod. pipe
ZBZ 40-2	6/10	3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250 Mod. pipe
ZBZ 40-3	6/10	3~	220	Stratos-D 40/1-8	1~	220	-	TOP-SD 40/3	1~/3~	250 Mod. pipe
ZBZ 45-1	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250 -
ZBZ 45-2	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250 -
ZBZ 45-3	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250 -

DN 50

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note
HD 501-1	6/16	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280 -
HD 502-1	6/16	1~/3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280 -
HXCD 501-1	6/16	1~/3~	280	Stratos-D 50/1-12	1~	280	-	-	-	-
HXD 501-1	6/16	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280 -
HXD 502-1	6/16	1~/3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280 -
LD 503	6/10	1~/3~	270	Stratos-D 50/1-8	1~	240	F4	TOP-SD 50/7	3~	280 Mod. pipe
LD 504	6/10	1~/3~	270	Stratos-D 50/1-8	1~	240	F4	TOP-SD 50/7	3~	280 Mod. pipe
LED 504	6/16	1~	270	Stratos-D 50/1-8	1~	240	F4	-	-	-
LXD 503	6/16	1~/3~	270	Stratos-D 50/1-8	1~	240	F4	TOP-SD 50/7	3~	280 Mod. pipe
LXD 504	6/16	1~/3~	270	Stratos-D 50/1-8	1~	240	F4	TOP-SD 50/7	3~	280 Mod. pipe
LXED 504	6/16	1~	270	Stratos-D 50/1-8	1~	240	F4	-	-	-
NZBZ 50-1	6/10	1~/3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
NZBZ 50-1 S	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
NZBZ 50-2	6/10	1~/3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
NZBZ 50-2 S	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
NZBZ 50-3	6/10	1~/3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
NZBZ 55-1	6/10	1~/3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
NZBZ 55-1 S	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
NZBZ 55-2	6/10	1~/3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
NZBZ 55-3	6/10	1~/3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
ZBZ 50-1	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe
ZBZ 50-2	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280 Mod. pipe

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Biral

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new



High-efficiency pumps

indefinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$
Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$
Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$



Standard pumps*)

1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note

Type

Motor
Overall length [mm]
Adapter/
note

DN 50

PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note	
ZBZ 50-3	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
ZBZ 55-1	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
ZBZ 55-2	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
ZBZ 55-3	6/10	3~	270	Stratos-D 50/1-9	1~	280	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe

DN 65

HD 652	6/16	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/13	3~	340	-
HXD 652	6/16	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/13	3~	340	-
LCD 650	6/16	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
LD 653	6/10	1~/3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
LD 654	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
LD 655	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
LXCD 655	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
LXD 653	6/16	1~/3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
LXD 654	6/16	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
LXD 655	6/16	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 58-1	6/10	1~/3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
NZBZ 58-1 S	6/10	3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
NZBZ 58-2	6/10	1~/3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
NZBZ 58-2 S	6/10	3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
NZBZ 58-3	6/10	1~/3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
NZBZ 60-1	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 60-1 S	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 60-2	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 60-2 S	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 60-3	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 65-1	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 65-1 S	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 65-2	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
NZBZ 65-3	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZBZ 58-1	6/10	3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
ZBZ 58-2	6/10	3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
ZBZ 58-3	6/10	3~	300	Stratos-D 65/1-12	1~	340	Mod. pipe	TOP-SD 50/7	3~	280	Mod. pipe
ZBZ 60-1	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZBZ 60-2	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZBZ 60-3	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZBZ 65-1	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZBZ 65-2	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZBZ 65-3	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Biral

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 80

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	
HD 802	6/16	1~/3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
HXD 802	6/16	1~/3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
LCD 805	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	-	-	-	-
LD 801	6/10	1~/3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
LD 802	6/10	1~/3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
LD 803	6/10	1~/3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
LD 804	6/10	1~/3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
LD 805	6/10	1~/3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
LXD 802	6/16	1~/3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
LXD 803	6/16	1~/3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBP 80-1	6/10	1~/3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBP 80-1 S	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBP 80-2	6/10	1~/3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBP 80-2 S	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBP 80-3	6/10	1~/3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBP 80-3 S	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBZ 78-1	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBZ 78-1 S	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBZ 78-2	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBZ 78-3	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
NZBZ 80-1	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
NZBZ 80-1 S	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
NZBZ 80-2	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
NZBZ 80-3	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
NZBZ 85-1	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	-	-	-	-
NZBZ 85-1 S	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	-	-	-	-
NZBZ 85-2	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	-	-	-	-
NZBZ 85-2 S	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	-	-	-	-
NZBZ 85-3	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	-	-	-	-
ZBP 80-1	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
ZBP 80-2	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
ZBP 80-3	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
ZBZ 78-1	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
ZBZ 78-2	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
ZBZ 78-3	6/10	3~	370	Stratos-D 80/1-12	1~	360	F16	TOP-SD 80/10	3~	360	F16
ZBZ 80-1	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
ZBZ 80-2	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
ZBZ 80-3	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
ZBZ 85-1	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
ZBZ 85-2	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilо Replacement Guide Heating

Biral

Double pumps



Type

PN
Motor
Overall length [mm]

Wilо – new



High-efficiency pumps

indefinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$
 Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$
 Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$



Standard pumps*)

1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Type

Motor
Overall length [mm]
Adapter/
note

DN 100											
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
ZBZ 85-3	6/10	3~	400	Stratos-D 80/1-12	1~	360	F18	TOP-SD 80/10	3~	360	F18
LCD 1003	6/10	3~	450	DP-E 80/115-2.2/2*	3~	360	Mod. pipe	-	-	-	-
LD 1001	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
LD 1002	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
LD 1003	6/10	3~	450	-	-	-	-	-	-	-	-
LD 1004	6/10	3~	450	-	-	-	-	-	-	-	-
NZBP 100-1	6/10	1~/3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
NZBP 100-1 S	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
NZBP 100-2	6/10	1~/3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
NZBP 100-2 S	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
NZBP 100-3	6/10	1~/3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
NZBP 100-3 S	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
NZBZ 100-1	6/10	3~	450	-	-	-	-	-	-	-	-
NZBZ 100-1 S	6/10	3~	450	-	-	-	-	-	-	-	-
NZBZ 100-2	6/10	3~	450	-	-	-	-	-	-	-	-
NZBZ 100-2 S	6/10	3~	450	-	-	-	-	-	-	-	-
NZBZ 100-3	6/10	3~	450	-	-	-	-	-	-	-	-
NZBZ 100-3 S	6/10	3~	450	-	-	-	-	-	-	-	-
NZBZ 100-4	6/10	3~	450	-	-	-	-	-	-	-	-
NZBZ 100-4 S	6/10	3~	450	-	-	-	-	-	-	-	-
ZBP 100-1	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
ZBP 100-2	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
ZBP 100-3	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
ZBZ 100-1	6/10	3~	450	-	-	-	-	-	-	-	-
ZBZ 100-2	6/10	3~	450	-	-	-	-	-	-	-	-
ZBZ 100-3	6/10	3~	450	-	-	-	-	-	-	-	-
ZBZ 100-4	6/10	3~	450	-	-	-	-	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Grundfos				Wilo – new							
Single pumps				High-efficiency pumps			Standard pumps*)				
				High-efficiency pumps infinitely variable, 1 ~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			Standard pumps*) 1 or 3 speed stages 1 ~ 230 V or 3 ~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp ½ (Pump thread G 1)											
Alpha 15-40 130	10	1~	130	Stratos PICO 15/1-4	1~	130	-				
Alpha 15-60 130	10	1~	130	Stratos PICO 15/1-6	1~	130	-				
Alpha Pro 15-40 130	10	1~	130	Stratos PICO 15/1-4	1~	130	-				
Alpha Pro 15-60 130	10	1~	130	Stratos PICO 15/1-6	1~	130	-				
Alpha+ 15-40 130	10	1~	130	Stratos PICO 15/1-4	1~	130	-				
Alpha+ 15-60 130	10	1~	130	Stratos PICO 15/1-6	1~	130	-				
Alpha2 15-40 130	10	1~	130	Stratos PICO 15/1-4	1~	130	-				
Alpha2 15-60 130	10	1~	130	Stratos PICO 15/1-6	1~	130	-				
UPE 15-40-130	10	1~	130	Stratos PICO 15/1-4	1~	130	-				
UPE 15-60-130	10	1~	130	Stratos PICO 15/1-6	1~	130	-				
UPS 15-20-130	10	1~	130	Stratos PICO 15/1-4	1~	130	-	Star-RS 15/2		130	
UPS 15-30-130	10	1~	130	Stratos PICO 15/1-4	1~	130	-	Star-RS 15/2		130	
UPS 15-40-130	10	1~	130	Stratos PICO 15/1-4	1~	130	-	Star-RS 15/4	1~	130	
UPS 15-45-130	10	1~	130	Stratos PICO 15/1-4	1~	130	-	Star-RS 15/4	1~	130	
UPS 15-45x16	10	1~	130	Stratos PICO 15/1-4	1~	130	-	Star-RS 15/4	1~	130	
UPS 15-50-130	10	1~	130	Stratos PICO 15/1-4	1~	130	-	Star-RS 15/6	1~	130	
UPS 15-60-130	10	1~	130	Stratos PICO 15/1-4	1~	130	-	Star-RS 15/6	1~	130	
Rp ¾ (Pump thread G 1¼)											
UM 17-20	10	1~/3~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 15/4-130	1~	130	Mod. pipe
UMS 17-20	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 15/4-130	1~	130	Mod. pipe
UP 15-12	10	1~/3~	180	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
UP 15-12x17	10	1~/3~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 15/4-130	1~	130	Mod. pipe
UP 17-35	10	1~/3~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
UP 17-50	10	1~/3~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
UPS 15-20 x17	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 15/4-130	1~	130	Mod. pipe
UPS 15-35x17	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
UPS 15-45x17	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
UPS 17-35	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
UPS 17-45	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
UPS 17-60	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/6-130	1~	130	Mod. pipe
UPS 20-20 XD	10	1~	180	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/2	1~	180	Mod. pipe
UPS 20-40 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
UPS 20-40 XD	10	1~	180	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
UPS 20-50 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/6-130	1~	130	Mod. pipe
UPS 20-60 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/6-130	1~	130	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Grundfos

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1 (Pump thread G 1½)

Grundfos Type	PN	Motor	Overall length [mm]	Wilo High-efficiency pumps Type	Motor	Overall length [mm]	Adapter/ note	Wilo Standard pumps*) Type	Motor	Overall length [mm]	Adapter/ note
Alpha 25-40	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
Alpha 25-40 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
Alpha 25-60	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
Alpha 25-60 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
Alpha Pro 25-40	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
Alpha Pro 25-40 130	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-	-	-	-	-
Alpha Pro 25-60	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
Alpha Pro 25-60 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
Alpha+ 25-40	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
Alpha+ 25-40 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
Alpha+ 25-60	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
Alpha+ 25-60 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
Alpha2 25-40	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
Alpha2 25-40 130	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-	-	-	-	-
Alpha2 25-60	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
Alpha2 25-60 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
Magna 25-100	10	1~	180	Stratos 25/1-10	1~	180	-	-	-	-	-
Magna 25-40	10	1~	180	Stratos 25/1-4	1~	180	-	-	-	-	-
Magna 25-60	10	1~	180	Stratos 25/1-6	1~	180	-	-	-	-	-
UM 18-20	10	3~	130	Stratos PICO 25/1-4-130	1~	130	-	Star-RS 25/4-130	1~	130	R1
UM 19-20	10	1~/3~	160	Stratos PICO 25/1-4-130	1~	130	R1	Star-RS 25/4-130	1~	130	R1
UM 20-13	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
UM 20-15	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
UM 20-20	10	1~/3~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
UM 25-20	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
UM 25-20 (Th)	10	3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
UM 26-20	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
UMS 18-20	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
UMS 19-20	10	1~	160	Stratos PICO 25/1-6-130	1~	130	R1	Star-RS 25/4-130	1~	130	R1
UMS 20-20	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
UMS 25-20	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
UNIVERSEL	10	1~	170	Stratos PICO 25/1-6-130	1~	130	R2	Star-RS 25/4-130	1~	130	R2
UP 18-35	10	1~/3~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
UP 18-50	10	1~/3~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
UP 18-65	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/6-130	1~	130	-
UP 19-35	10	1~/3~	160	Stratos PICO 25/1-6-130	1~	130	R1	Star-RS 25/4-130	1~	130	R1
UP 19-50	10	1~/3~	160	Stratos PICO 25/1-6-130	1~	130	R1	Star-RS 25/4-130	1~	130	R1
UP 20-20	10	1~/3~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
UP 20-35	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.




Grundfos				Wilo – new			
Single pumps				High-efficiency pumps			
						Standard pumps*)	
				infinitely variable, 1~ 230 V, 50 Hz		1 or 3 speed stages	
				Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$		1~ 230 V or 3~ 400 V, 50 Hz	
				Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$		$T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$	
				Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1 (Pump thread G 1½)							
UP 20-50	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-
UP 25-25	10	3~	180	Stratos PICO 25/1-4	1~	180	-
UP 25-30 n	6/10	1~/3~	150	Stratos PICO 25/1-6-RG	1~	180	Mod. pipe
UP 25-55	10	1~/3~	180	Stratos 25/1-6	1~	180	-
UP 25-55 Th	10	3~	180	Stratos 25/1-6	1~	180	-
UP 25-80	10	1~/3~	180	Stratos 25/1-6	1~	180	-
UP 25-80 (Th)	10	3~	180	Stratos 25/1-6	1~	180	-
UP 26	10	1~	180	Stratos PICO 25/1-6	1~	180	-
UP 26-35	10	1~	180	Stratos PICO 25/1-4	1~	180	-
UP 26-50	10	1~	180	Stratos PICO 25/1-6	1~	180	-
UP 26-65	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-
UP 26-80	10	3~	180	Stratos 25/1-8	1~	180	-
UPE 25-25	10	1~	180	Stratos PICO 25/1-4	1~	180	-
UPE 25-40	10	1~	180	Stratos PICO 25/1-4	1~	180	-
UPE 25-40 130	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-
UPE 25-45	10	1~	180	Stratos PICO 25/1-6	1~	180	-
UPE 25-60	10	1~	180	Stratos PICO 25/1-6	1~	180	-
UPE 25-60 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-
UPE 25-80	10	1~	180	Stratos 25/1-8	1~	180	-
UPI 15-35x20	10	1~	180	Stratos PICO 25/1-4	1~	180	-
UPI 15-45x20	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-
UPM 20-35	10	1~	180	Stratos PICO 25/1-4	1~	180	-
UPS 15-20x20	10	1~	180	Stratos PICO 25/1-4	1~	180	-
UPS 15-35x18	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-
UPS 15-35x20	10	1~	180	Stratos PICO 25/1-4	1~	180	-
UPS 15-40	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-
UPS 15-45x18	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-
UPS 15-45x20	10	1~	180	Stratos PICO 25/1-6	1~	180	-
UPS 15-50 x18	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-
UPS 18-35	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-
UPS 18-38	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-
UPS 18-45	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-
UPS 18-60	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-
UPS 19-35	10	1~	160	Stratos PICO 25/1-6-130	1~	130	R1
UPS 19-45	10	1~	160	Stratos PICO 25/1-6-130	1~	130	R1
UPS 19-60	10	1~	160	Stratos PICO 25/1-6-130	1~	130	R1
UPS 20-35	10	1~	180	Stratos PICO 25/1-6	1~	180	-
UPS 20-45	10	1~	180	Stratos PICO 25/1-6	1~	180	-
UPS 20-60	10	1~	180	Stratos PICO 25/1-6	1~	180	-
UPS 20-60 K	10	1~	180	Stratos PICO 25/1-6	1~	180	-

*) For type-dependent energy efficiency classes see pages 5-7


= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Grundfos				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1 (Pump thread G 1½)											
UPS 25-120	10	1~	180	Stratos 30/1-12	1~	180	Mod. pipe	TOP-S 30/10	1~/3~	180	Mod. pipe
UPS 25-20	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
UPS 25-20x18	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
UPS 25-25	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
UPS 25-30	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
UPS 25-40	10	1~/3~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
UPS 25-40 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
UPS 25-50	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
UPS 25-50 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/6-130	1~	130	-
UPS 25-50/120	10	1~	120	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/6	1~	180	Mod. pipe
UPS 25-50/160	10	1~	160	Stratos PICO 25/1-6-130	1~	130	R1	Star-RS 25/6-130	1~	130	R1
UPS 25-55	10	1~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/5	1~/3~	180	-
UPS 25-60	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
UPS 25-60 130	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/6-130	1~	130	-
UPS 25-60 K	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
UPS 25-60 T	10	1~	180	Stratos PICO 25/1-6-RG	1~	180	-	Star-RS 25/6-RG	1~	180	-
UPS 25-60/120	10	1~	120	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/6	1~	180	Mod. pipe
UPS 25-80	10	1~	180	Stratos 25/1-8	1~	180	-	TOP-S 25/7	1~/3~	180	-
UPS 26-80	10	1~	180	Stratos 25/1-8	1~	180	-	TOP-S 25/7	1~/3~	180	-
Rp 1 (Pump thread G 1½) Pumps with connection for quick bleeder											
Alpha Pro 25-40 A	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
Alpha Pro 25-60 A	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
Alpha+ 25-40 A	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
Alpha+ 25-60 A	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPE 25-40 A	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPE 25-60 A	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 22-35	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 22-45	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 22-60	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 23-35	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 23-45	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 23-60	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 25-20 A/V	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 25-30 A	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 25-40 A/V	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-
UPS 25-60 A/V	10	1~	180	-	-	-	-	Star-RSL 25/6	1~	180	-

*) For type-dependent energy efficiency classes see pages 5-7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Grundfos

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G2)

Grundfos Type	PN	Motor	Overall length [mm]	Wilo High-efficiency pumps Type	Motor	Overall length [mm]	Adapter/note	Wilo Standard pumps*) Type	Motor	Overall length [mm]	Adapter/note
Alpha 32-40	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
Alpha 32-60	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
Alpha Pro 32-40	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
Alpha Pro 32-60	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
Alpha+ 32-40	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
Alpha+ 32-60	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
Alpha2 32-40	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
Alpha2 32-60	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
GD 30	10	1~/3~	206	Stratos PICO 30/1-6	1~	180	R9	TOP-D 30	1~/3~	180	R9
Magna 32-100	10	1~	180	Stratos 30/1-10	1~	180	-	-	-	-	-
Magna 32-100 N	10	1~	180	Stratos-Z 30/1-8	1~	180	-	-	-	-	-
Magna 32-40	10	1~	180	Stratos 30/1-4	1~	180	-	-	-	-	-
Magna 32-60	10	1~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/5	1~/3~	180	-
UM 32-20 (180)	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
UM 32-20 (200)	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	R8	Star-RS 30/4	1~	180	R8
UM 36-20	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	R8	Star-RS 30/4	1~	180	R8
UM 36-20 R	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	R8	Star-RS 30/4	1~	180	R8
UMS 32-20 (180)	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
UMS 32-20 (200)	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	R8	Star-RS 30/4	1~	180	R8
UMS 36-20 R	10	1~	200	Stratos PICO 30/1-6	1~	180	R8	Star-RS 30/4	1~	180	R8
UMS 40-20	10	1~/3~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
UP 32-25	10	3~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
UP 32-50	10	1~	200	Stratos PICO 30/1-6	1~	180	R8	Star-RS 30/6	1~	180	R8
UP 32-50 G	10	3~	200	Stratos 30/1-6	1~	180	R8	TOP-S 30/4	1~/3~	180	R8
UP 32-55	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
UP 32-55 (G)	10	3~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/4	1~	180	-
UP 32-80	10	3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
UP 35 (Rp 1 1/4)	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	R8	Star-RS 30/4	1~	180	R8
UP 40-37	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
UP 40-75	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
UP 40-75 R	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
UP 40-80	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
UP 40-80 R	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
UP 42-42	10	1~/3~	200	Stratos 30/1-8	1~	180	R8	TOP-S 30/7	1~/3~	180	R8
UP 42-42 R	10	1~/3~	200	Stratos 30/1-8	1~	180	R8	TOP-S 30/7	1~/3~	180	R8
UP 42-50	10	1~/3~	200	Stratos 30/1-12	1~	180	R8	TOP-S 30/10	1~/3~	180	R8
UP 42-50 R	10	1~/3~	200	Stratos 30/1-8	1~	180	R8	TOP-S 30/7	1~/3~	180	R8
UP 45 R	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	R8	Star-RS 30/4	1~	180	R8
UPE 32-25	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Grundfos

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new



High-efficiency pumps

indefinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
 Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
 Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note



Standard pumps*)

1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G2)

Grundfos Model	PN	Motor	Overall length [mm]	Wilo Model	Motor	Overall length [mm]	Adapter/ note	Wilo Model	Motor	Overall length [mm]	Adapter/ note
UPE 32-40	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
UPE 32-45	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
UPE 32-60	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
UPE 32-80	10	1~	180	Stratos 30/1-8	1~	180	-	-	-	-	-
UPS 15-20x40	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/2	1~	180	-
UPS 15-35x40	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
UPS 15-45x40	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
UPS 32-20	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/2	1~	180	-
UPS 32-25	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
UPS 32-30	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
UPS 32-40	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
UPS 32-50	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
UPS 32-50 G	10	1~	200	Stratos 30/1-8	1~	180	R8	TOP-S 30/7	1~/3~	180	R8
UPS 32-55	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
UPS 32-55 (G)	10	1~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
UPS 32-60	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
UPS 32-80	10	1~	180	Stratos 30/1-10	1~	180	-	TOP-S 30/10	1~/3~	180	-
UPS 40-35	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
UPS 40-45	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
UPS 40-62	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
UPS 40-80	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
UPS 40-80 R	10	1~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
UPS 42-50	10	1~/3~	200	Stratos 30/1-12	1~	180	R8	TOP-S 30/10	1~/3~	180	R8
UPS 42-50 R	10	1~	200	Stratos 30/1-8	1~	180	R8	TOP-S 30/7	1~/3~	180	R8

DN 25 oval flange

Grundfos Model	PN	Motor	Overall length [mm]	Wilo Model	Motor	Overall length [mm]	Adapter/ note	Wilo Model	Motor	Overall length [mm]	Adapter/ note
UP 21-20	10	1~	120	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/6	1~	180	Mod. pipe
UP 21-50	10	1~	120	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/6	1~	180	Mod. pipe
UP 21-65	10	1~	120	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/6	1~	180	Mod. pipe
UP 21-20 (V)	10	1~	120	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
UP 21-35 (V)	10	1~/3~	120	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
UPS 15-35x21	10	1~	120	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
UPS 15-45x21	10	1~	120	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
UPS 21-35	10	1~	120	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
UPS 21-40	10	1~	120	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
UPS 21-45	10	1~	120	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
UPS 21-60 F	10	1~	120	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/6	1~	180	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Grundfos				Wilo – new							
Single pumps				High-efficiency pumps			Standard pumps*)				
				High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 32 square flange											
UM 36-20 F	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	Mod. pipe	Star-RS 30/4	1~	180	Mod. pipe
UM 40-12 F	10	1~/3~	200	Stratos PICO 30/1-4	1~	180	Mod. pipe	Star-RS 30/2	1~	180	Mod. pipe
UP 40-37 F	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	Mod. pipe	Star-RS 30/6	1~	180	Mod. pipe
UP 40-75 F	10	1~	200	Stratos 30/1-8	1~	180	Mod. pipe	TOP-S 30/7	1~/3~	180	Mod. pipe
DN 32											
Magna 32-100 F	6/10	1~	220	Stratos 32/1-10	1~	220	-	-	-	-	-
Magna 32-120 F	6/10	1~	220	Stratos 32/1-12	1~	220	-	-	-	-	-
Magna 32-120 FN	6/10	1~	220	Stratos-Z 30/1-12	1~	180	2x RF3	-	-	-	-
Magna UPE 32-120 F	6/10	1~	220	Stratos 32/1-12	1~	220	-	-	-	-	-
Magna UPE 32-120 FB	6/10	1~	220	Stratos-Z 30/1-12	1~	180	2x RF3	-	-	-	-
Magna UPE 32-120 FN	6/10	1~	220	Stratos-Z 30/1-12	1~	180	2x RF3	-	-	-	-
UMC 32-30	6/10	1~/3~	220	Stratos 30/1-6	1~	180	2x RF3	TOP-S 30/5	1~/3~	180	2x RF3
UMK 32-30	6/10	1~/3~	220	Stratos 30/1-6	1~	180	2x RF3	TOP-S 30/5	1~/3~	180	2x RF3
UMS 36-20 F	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	RF1 + RF3	Star-RS 30/6	1~	180	RF1 + RF3
UP 32-0	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	RF1 + RF3	Star-RS 30/4	1~	180	RF1 + RF3
UP 32-1	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	RF1 + RF3	Star-RS 30/4	1~	180	RF1 + RF3
UP 32-2	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	RF1 + RF3	Star-RS 30/4	1~	180	RF1 + RF3
UP 32-3	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	RF1 + RF3	Star-RS 30/4	1~	180	RF1 + RF3
UP 35 (DN 32)	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	RF1 + RF3	Star-RS 30/4	1~	180	RF1 + RF3
UP 45 (DN 32)	10	1~/3~	200	Stratos PICO 30/1-6	1~	180	RF1 + RF3	Star-RS 30/6	1~	180	RF1 + RF3
UPC 32-120	6/10	1~/3~	220	Stratos 32/1-12	1~	220	-	TOP-S 30/10	1~/3~	180	2x RF3
UPC 32-60	6/10	1~/3~	220	Stratos 30/1-8	1~	180	2x RF3	TOP-S 30/7	1~/3~	180	2x RF3
UPE 32-120 (F)	6/10	1~	220	Stratos 32/1-12	1~	220	-	-	-	-	-
UPE 32-120 FB	6/10	1~	220	Stratos-Z 30/1-12	1~	180	2x RF3	-	-	-	-
UPE 32-80 F	6/10	1~	220	Stratos 32/1-12	1~	220	-	-	-	-	-
UPK 32-120	6/10	1~/3~	220	Stratos 32/1-12	1~	220	-	TOP-S 30/10	1~/3~	180	2x RF3
UPK 32-60	6/10	1~/3~	220	Stratos 32/1-12	1~	220	-	TOP-S 30/10	1~/3~	180	2x RF3
UPS 32-120 F	6/10	1~/3~	220	Stratos 32/1-12	1~	220	-	TOP-S 40/10	3~	250	Mod. pipe
UPS 32-30 F	6/10	1~/3~	220	Stratos 30/1-6	1~	180	2x RF3	TOP-S 30/5	1~	180	2x RF3
UPS 32-35	-	-	180	Stratos PICO 30/1-4	1~	180	2x RF1	Star-RS 30/4	1~/3~	180	2x RF1
UPS 32-60 F	6/10	1~/3~	220	Stratos 32/1-12	1~	220	-	TOP-S 30/10	1~/3~	180	2x RF3
UPS 32-80 F	6/10	1~	220	Stratos 32/1-10	1~	220	-	TOP-S 30/10	1~/3~	180	2x RF3

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Grundfos				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 40											
GD 40	6/10	1~/3~	220	Stratos PICO 25/1-6	1~	180	2x RF9	TOP-D 40	1~/3~	220	-
Magna 40-100 F	6/10	1~	220	Stratos 40/1-10	1~	220	-	-	-	-	-
Magna 40-120 F	6/10	1~	250	Stratos 40/1-12	1~	250	-	-	-	-	-
Magna 40-120 FN	6/10	1~	250	Stratos-Z 40/1-12	1~	250	-	-	-	-	-
Magna UPE 40-120 F	6/10	1~	250	Stratos 40/1-12	1~	250	-	-	-	-	-
Magna UPE 40-120 FB	6/10	1~	250	Stratos-Z 40/1-12	1~	250	-	-	-	-	-
Magna UPE 40-120 FN	6/10	1~	250	Stratos-Z 40/1-12	1~	250	-	-	-	-	-
Magna-D 40-100 F	6/10	1~	250	Stratos 40/1-12	1~	250	-	-	-	-	-
UMC 40-30	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UMC 40-60	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
UMK 40-30	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UMK 40-60	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
UMS 40-30	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UP 40-50 F	6/10	3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UP 40-80 F	6/10	3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
UP 42-42 F	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UP 42-50 F	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UP 42-70	6	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UP 42-80	6	3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UPC 40-120	6/10	1~/3~	250	Stratos 40/1-12	1~	250	-	TOP-S 40/10	3~	250	-
UPC 40-60	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
UPE 40-120 (F)	6/10	1~	250	Stratos 40/1-8	1~	220	F1	-	-	-	-
UPE 40-120 (F)B	6/10	1~	250	Stratos-Z 40/1-8	1~	220	F1	-	-	-	-
UPE 40-80 (F)	6/10	1~	250	Stratos 40/1-10	1~	220	F1	-	-	-	-
UPK 40-120	6/10	1~/3~	250	Stratos 40/1-12	1~	250	-	TOP-S 40/7	1~/3~	250	-
UPK 40-180	6/10	1~/3~	250	IP-E 40/115-55/2*	3~	250	-	-	-	-	-
UPK 40-60	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
UPS 40-120	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/10	3~	250	-
UPS 40-120 F	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/10	3~	250	-
UPS 40-120 FB	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1	-	-	-	-
UPS 40-180 F	6/10	1~/3~	250	Stratos 50/1-12	1~	280	Mod. pipe	TOP-S 40/15	3~	250	-
UPS 40-185 F	6/10	1~/3~	250	IP-E 40/115-0.55/2*	3~	250	-	TOP-S 40/15	3~	250	-
UPS 40-30 F	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UPS 40-50 F	6/10	1~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UPS 40-60	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
UPS 40-60/2 F	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
UPS 40-60/4 F	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-

*) For type-dependent energy efficiency classes see pages 5-7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.



Grundfos				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$ Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$				Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 40											
UPS 40-80 F	6/10	1~/3~	250	Stratos 40/1-10	1~	220	F1	TOP-S 40/7	1~/3~	250	-
UPS 42-50 F	6/10	1~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
UPS 42-80 F	6/10	1~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
DN 50											
GD 50	6/10	1~/3~	240	-	-	-	-	TOP-D 50	1~/3~	240	-
Magna 50-100 F	6/10	1~	240	Stratos 50/1-10	1~	240	-	-	-	-	-
Magna 50-120 F	6/10	1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
Magna 50-120 FN	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-	-	-	-	-
Magna 50-60 F	6/10	1~	280	Stratos 50/1-8	1~	240	2x F3	-	-	-	-
Magna 50-60 FN	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-	-	-	-	-
Magna UPE 50-120 F	6/10	1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
Magna UPE 50-120 FN	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-	-	-	-	-
Magna UPE 50-60 F	6/10	1~	280	Stratos 50/1-8	1~	240	2x F3	-	-	-	-
Magna UPE 50-60 FB	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-	-	-	-	-
Magna UPE 50-60 FN	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-	-	-	-	-
UMC 50-30	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
UMC 50-60	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
UMK 50-30	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
UMK 50-60	6/10	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/4	1~/3~	240	2x F3
UMS 50-30	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
UMS 50-60	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
UP 50-60	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
UPC 50-120	6/10	1~/3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
UPC 50-180	6/10	3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
UPC 50-60	6/10	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
UPE 50-120 (F)	6/10	3~	280	Stratos 50/1-12	1~	280	-	-	-	-	-
UPE 50-120 FB	6/10	3~	280	Stratos-Z 50/1-9	1~	280	-	-	-	-	-
UPE 50-60 (F)	6/10	1~	280	Stratos 50/1-8	1~	240	2x F3	-	-	-	-
UPE 50-60 FB	6/10	1~	250	Stratos-Z 50/1-9	1~	280	Mod. pipe	-	-	-	-
UPE 50-80	6/10	1~	280	Stratos 50/1-10	1~	240	2x F3	-	-	-	-
UPE 50-80 (F)	6/10	1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
UPK 50-120	6/10	1~/3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
UPK 50-180	6/10	1~/3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/15	3~	340	Mod. pipe
UPK 50-60	6/10	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/4	1~/3~	240	2x F3
UPS 50-120	6/10	1~/3~	280	-	-	-	-	TOP-S 50/10	3~	280	-
UPS 50-120 (F)	6/10	1~/3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-

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■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Grundfos				Wilo – new							
Single pumps				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 50											
UPS 50-180 F	6/10	1~/3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
UPS 50-185 F	6/10	1~/3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/15	3~	340	Mod. pipe
UPS 50-30 F	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
UPS 50-60	6/10	3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/4	1~/3~	240	2x F3
UPS 50-60/2 F	6/10	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	1~/3~	280	-
UPS 50-60/4 F	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/7	1~/3~	280	-
DN 65											
GD 65	6/10	1~/3~	280	-	-	-	-	TOP-D 65	1~/3~	280	-
Magna 65-120 F	6/10	1~	340	Stratos 65/1-12	1~	340	-	-	-	-	-
Magna 65-120 FN	6/10	1~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-
Magna 65-60 F	6/10	1~	340	Stratos 65/1-9	1~	280	2x F11	-	-	-	-
Magna 65-60 FN	6/10	1~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-
Magna UPE 65-120 F	6/10	1~	340	Stratos 65/1-12	1~	340	-	-	-	-	-
Magna UPE 65-120 FN	6/10	1~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-
Magna UPE 65-60 F	6/10	1~	340	Stratos 65/1-9	1~	280	2x F11	-	-	-	-
Magna UPE 65-60 FB	6/10	1~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-
Magna UPE 65-60 FN	6/10	1~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-
UM 65-26	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UMC 65-30	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UMC 65-60	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UMK 65-30	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UMK 65-60	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UMS 65-30	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UMS 65-60	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UP 65-75	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UP 65-79	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
UP 65-90	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
UPC 65-120	6/10	1~/3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
UPC 65-180	6/10	1~/3~	340	IP-E 65/115-1.5/2	3~	340	-	TOP-S 65/15	3~	340	-
UPC 65-60	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UPE 65-120 (F)	6/10	3~	340	Stratos 65/1-12	1~	340	-	-	-	-	-
UPE 65-120 FB	6/10	3~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-
UPE 65-60 (F)	6/10	1~	340	Stratos 65/1-9	1~	280	2x F11	-	-	-	-
UPE 65-60 FB	6/10	1~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-
UPK 65-120	6/10	1~/3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
UPK 65-180	6/10	3~	340	IP-E 65/115-1.5/2	3~	340	-	TOP-S 65/15	3~	340	-
UPK 65-60	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UPS 65-120	6/10	1~/3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
UPS 65-120 (F)	6/10	1~/3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-

*) For type-dependent energy efficiency classes see pages 5-7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.



Grundfos				Wilo – new							
Single pumps				High-efficiency pumps			Standard pumps*)				
				High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 65											
UPS 65-180	6/10	1~/3~	340	IP-E 65/115-1.5/2	3~	340	-	TOP-S 65/15	3~	340	-
UPS 65-180 F	6/10	1~/3~	340	IP-E 65/115-1.5/2	3~	340	-	TOP-S 65/15	3~	340	-
UPS 65-185	6/10	1~/3~	340	IP-E 65/115-1.5/2	3~	340	-	TOP-S 65/15	3~	340	-
UPS 65-185 F	6/10	3~	340	IP-E 65/115-1.5/2	3~	340	-	TOP-S 65/15	3~	340	-
UPS 65-30	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UPS 65-30 F	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UPS 65-60	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UPS 65-60/2	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UPS 65-60/2 F	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UPS 65-60/4	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
UPS 65-60/4 F	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
DN 80											
GD 80	6/10	1~/3~	330	-	-	-	-	TOP-D 80	1~/3~	330	-
UM 80-50	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
UMC 80-30	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
UMC 80-60	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
UMK 80-30	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
UMK 80-60	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
UMS 80-30	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
UMS 80-60	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
UP 80-113	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
UP 80-96	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
UPC 80-120	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
UPE 80-120	6	1~	360	Stratos 80/1-12	1~	360	-	-	-	-	-
UPE 80-120 (F)	6/10	3~	360	Stratos 80/1-12	1~	360	-	-	-	-	-
UPK 80-120	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
UPS 80-120 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
UPS 80-30 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
UPS 80-60 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-

*) For type-dependent energy efficiency classes see pages 5-7


■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Grundfos				Wilo – new							
Single pumps				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 100											
GD 100	6/10	1~/3~	380	-	-	-	-	TOP-D 100	3~	380	-
UMC 100-30	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	TOP-S 80/7	3~	360	Mod. pipe
UMC 100-60	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	TOP-S 100/10	3~	360	F34+F35
UMK 100-30	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	TOP-S 80/7	3~	360	Mod. pipe
UMK 100-60	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	TOP-S 100/10	3~	360	F34+F35
UMS 100-30	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	TOP-S 80/7	3~	360	Mod. pipe
UMS 100-60	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	TOP-S 100/10	3~	360	F34+F35
UPE 100-60 F	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	-	-	-	-
UPS 100-30 F	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	TOP-S 80/7	3~	360	Mod. pipe
DN 125											
GD 125	6/10	3~	450	-	-	-	-	TOP-D 125	3~	450	-

*) For type-dependent energy efficiency classes see pages 5–7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Grundfos

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$
Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$
Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

DN 32

Grundfos	PN	Motor	Overall length [mm]	Wilo – new	Motor	Overall length [mm]	Adapter/ note
Magna UPED 32-120 F	6/10	1~	220	Stratos-D 32/1-12	1~	220	-
Magna-D 32-120 F	6/10	1~	220	Stratos-D 32/1-12	1~	220	-
UMCD 32-30	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	- TOP-SD 40/3
UMKD 32-30	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	- TOP-SD 40/3
UPCD 32-120	6/10	1~/3~	220	Stratos-D 32/1-12	1~	220	- TOP-SD 40/10
UPCD 32-60	6/10	1~/3~	220	Stratos-D 32/1-12	1~	220	- TOP-SD 40/7
UPD 32-35	6/10	3~	220	Stratos-D 32/1-8	1~	220	- Star-RSD 30/4
UPD 32-50 F	6/10	3~	220	Stratos-D 32/1-8	1~	220	- TOP-SD 32/7
UPD 32-80 F	6/10	3~	220	Stratos-D 32/1-8	1~	220	- TOP-SD 32/7
UPED 32-120 F	6/10	1~	220	Stratos-D 32/1-12	1~	220	-
UPKD 32-120	6/10	1~/3~	220	Stratos-D 32/1-12	1~	220	- TOP-SD 40/10
UPKD 32-60	6/10	1~/3~	220	Stratos-D 32/1-12	1~	220	- TOP-SD 40/7
UPSD 32-120 F	6/10	1~/3~	220	Stratos-D 32/1-12	1~	220	- TOP-SD 40/10
UPSD 32-30 F	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-
UPSD 32-35	6/10	1~	220	Stratos-D 32/1-8	1~	220	- Star-RSD 30/4
UPSD 32-45	6/10	1~	220	Stratos-D 32/1-8	1~	220	- Star-RSD 30/6
UPSD 32-50 F	6/10	1~	220	Stratos-D 32/1-8	1~	220	- TOP-SD 32/7
UPSD 32-60 F	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	- TOP-SD 40/7
UPSD 32-80 F	6/10	1~	220	Stratos-D 32/1-8	1~	220	- TOP-SD 32/7

DN 40

Grundfos	PN	Motor	Overall length [mm]	Wilo – new	Motor	Overall length [mm]	Adapter/ note
Magna UPED 40-120 F	6/10	1~	250	Stratos-D 40/1-12	1~	250	-
Magna-D 40-120 F	6/10	1~	250	Stratos-D 40/1-12	1~	250	-
UMCD 40-30	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/3
UMKD 40-30	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/3
UMSD 40-30	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/10
UPCD 40-120	6/10	1~/3~	250	Stratos-D 40/1-12	1~	250	- TOP-SD 40/10
UPCD 40-60	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/7
UPD 40-50 F	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/7
UPD 40-80 F	6	3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/7
UPD 42-42	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/3
UPD 42-50	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/7
UPD 42-80 F	6	3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/7
UPED 40-120 F	6/10	1~	250	Stratos-D 40/1-12	1~	250	-
UPKD 40-120	6/10	1~/3~	250	Stratos-D 40/1-12	1~	250	- TOP-SD 40/10
UPKD 40-60	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/7
UPSD 40-120 F	6/10	1~/3~	250	Stratos-D 40/1-12	1~	250	- TOP-SD 40/10
UPSD 40-30 F	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/3
UPSD 40-50 F	6/10	1~	250	Stratos-D 40/1-8	1~	220	F1 TOP-SD 40/7

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1~ 230 V, 50 Hz single-phase, 3~ = 3~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Grundfos				Wilo – new							
Double pumps				High-efficiency pumps			Standard pumps*)				
				indefinitely variable, 1~ 230 V, 50 Hz			1 or 3 speed stages				
				Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$			1~ 230 V or 3~ 400 V, 50 Hz				
				Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$			$T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$				
				Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$							
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 40											
UPSD 40-60 F	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
UPSD 40-60/2 F	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
UPSD 40-80 F	6	1~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
UPSD 42-50	6/10	1~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
DN 50											
Magna UPED 50-60 F	6/10	1~	280	Stratos-D 50/1-8	1~	240	2x F3	-	-	-	-
Magna-D 50-120 F	6/10	1~	280	Stratos-D 50/1-12	1~	280	-	-	-	-	-
Magna-D 50-60 F	6/10	1~	280	Stratos-D 50/1-8	1~	240	2x F3	-	-	-	-
UMCD 50-30	6/10	1~/3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
UMCD 50-60	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
UMKD 50-30	6/10	1~/3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
UMKD 50-60	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
UMSD 50-30	6/10	1~/3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
UMSD 50-60	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
UPCD 50-120	6/10	1~/3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
UPCD 50-60	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
UPD 50-60	6/10	1~/3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
UPED 50-120 F	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	-	-	-	-
UPED 50-60 F	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	-	-	-	-
UPKD 50-120	6/10	1~/3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
UPKD 50-180	6/10	1~/3~	280	DP-E 50/115-0.75/2*	3~	280	-	TOP-SD 50/15	3~	340	Mod. pipe
UPKD 50-60	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
UPSD 50-120 F	6/10	1~/3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
UPSD 50-180 F	6/10	1~/3~	280	DP-E 50/115-0.75/2*	3~	280	-	TOP-SD 50/15	3~	340	Mod. pipe
UPSD 50-60	6/10	3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
UPSD 50-60/2 F	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
UPSD 50-60/4 F	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
DN 65											
Magna UPED 65-60 F	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
Magna-D 65-120 F	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
Magna-D 65-60 F	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
UMCD 65-30	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
UMCD 65-60	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UMD 65-26	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
UMKD 65-30	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
UMKD 65-60	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UMSD 65-30	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
UMSD 65-60	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-

*) For type-dependent energy efficiency classes see pages 5-7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Grundfos

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

indefinitely variable, 1 ~ 230 V, 50 Hz
 Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
 Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
 Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

1 or 3 speed stages
 1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 65

Grundfos Type	PN	Motor	Overall length [mm]	Wilo High-efficiency pumps Type	Motor	Overall length [mm]	Adapter/ note	Wilo Standard pumps*) Type	Motor	Overall length [mm]	Adapter/ note
UPCD 65-120	6/10	1~/3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
UPCD 65-180	6/10	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/15	3~	340	-
UPCD 65-60	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UPD 65-75	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UPD 65-79	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UPD 65-90	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UPED 65-120 F	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
UPED 65-60 F	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
UPKD 65-120	6/10	1~/3~	340	DP-E 65/115-1.5/2	3~	340	-	TOP-SD 65/13	3~	340	-
UPKD 65-180	6/10	3~	340	DP-E 65/115-1.5/2	3~	340	-	TOP-SD 65/15	3~	340	-
UPKD 65-60	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UPSD 65-120 F	6/10	1~/3~	340	DP-E 65/115-1.5/2	3~	340	-	TOP-SD 65/13	3~	340	-
UPSD 65-180 F	6/10	3~	340	DP-E 65/115-1.5/2	3~	340	-	TOP-SD 65/15	3~	340	-
UPSD 65-30 F	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
UPSD 65-60	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UPSD 65-60/2 F	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
UPSD 65-60/4 F	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-

DN 80




UMCD 80-30	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
UMCD 80-60	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
UMD 80-50	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
UMKD 80-30	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
UMKD 80-60	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
UMSD 80-30	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
UMSD 80-60	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
UPCD 80-120	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
UPD 80-113	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
UPD 80-96	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
UPED 80-120 F	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
UPKD 80-120	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
UPSD 80-120 F	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
UPSD 80-30 F	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
UPSD 80-60 F	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-

*) For type-dependent energy efficiency classes see pages 5–7


■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Grundfos				Wilo – new							
Double pumps				High-efficiency pumps				Standard pumps*)			
											
Type				Type				Type			
PN	Motor	Overall length [mm]		Motor	Overall length [mm]	Adapter/ note	Motor	Overall length [mm]	Adapter/ note		
DN 100											
UMCD 100-30	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	-	-	-	
UMCD 100-60	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
UMKD 100-30	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	-	-	-	
UMKD 100-60	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
UMSD 100-30	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	-	-	-	
UMSD 100-60	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
UPED 100-60 F	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
UPSD 100-30 F	6/10	3~	450	Stratos-D 80/1-12	1~	360	Mod. pipe	-	-	-	

*) For type-dependent energy efficiency classes see pages 5–7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

KSB

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

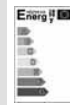


High-efficiency pumps

infinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
 Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
 Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note



Standard pumps*)

1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp ½ (Pump thread G 1)

PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
C 02/40 Rio	10	1~ 130	Stratos PICO 15/1-4	1~ 130	-		Star-RS 15/4-130	1~ 130	-	
C 02/60 Rio	10	1~ 130	Stratos PICO 15/1-4	1~ 130	-		Star-RS 15/6-130	1~ 130	-	
C 15-15 130 Rio	10	1~ 130	Stratos PICO 15/1-4	1~ 130	-		Star-RS 15/4-130	1~ 130	-	
C 15-40 130 Rio	10	1~ 130	Stratos PICO 15/1-4	1~ 130	-		Star-RS 15/4-130	1~ 130	-	
C 15-60 130 Rio	10	1~ 130	Stratos PICO 15/1-4	1~ 130	-		Star-RS 15/6-130	1~ 130	-	

Rp ¾ (Pump thread G 1¼)

C 12/40 Rio	10	1~ 130	Stratos PICO 25/1-4-130	1~ 130	Mod. pipe		Star-RS 25/4-130	1~ 130	Mod. pipe	
C 12/60 Rio	10	1~ 130	Stratos PICO 25/1-6-130	1~ 130	Mod. pipe		Star-RS 25/6-130	1~ 130	Mod. pipe	

Rp 1 (Pump thread G 1½)

22-2 E 13 Riovlar	10	1~ 130	Stratos PICO 25/1-6-130	1~ 130	-		Star-RS 25/4-130	1~ 130	-	
22-2 E 16 Riovlar	10	1~ 160	Stratos PICO 25/1-6-130	1~ 130	R1		Star-RS 25/4-130	1~ 130	R1	
22-2 E Riovlar	10	1~ 180	Stratos PICO 25/1-4	1~ 180	-		Star-RS 25/4	1~ 180	-	
22-3 E 13 Riovlar	10	1~ 130	Stratos PICO 25/1-6-130	1~ 130	-		Star-RS 25/4-130	1~ 130	-	
22-3 E Riovlar	10	1~ 180	Stratos PICO 25/1-4	1~ 180	-		Star-RS 25/4	1~ 180	-	
22-4 E 13 Riovlar	10	1~ 130	Stratos PICO 25/1-6-130	1~ 130	-		Star-RS 25/6-130	1~ 130	-	
22-4 E 16 Riovlar	10	1~ 160	Stratos PICO 25/1-6-130	1~ 130	R1		Star-RS 25/6-130	1~ 130	R1	
22-4 E Riovlar	10	1~ 180	Stratos PICO 25/1-6	1~ 180	-		Star-RS 25/6	1~ 180	-	
22-5 E 13 Riovlar	10	1~ 130	Stratos PICO 25/1-6-130	1~ 130	-		Star-RS 25/6-130	1~ 130	-	
22-5 E Riovlar	10	1~ 180	Stratos PICO 25/1-6	1~ 180	-		Star-RS 25/6	1~ 180	-	
22-6 E/D Riovlar	10	1~/3~ 180	Stratos 25/1-6	1~ 180	-		TOP-S 25/7	1~/3~ 180	-	
22-7 E/D Riovlar	10	1~/3~ 180	Stratos 25/1-8	1~ 180	-		TOP-S 25/7	1~/3~ 180	-	
24-2 D Riovlar	10	3~ 180	Stratos PICO 25/1-4	1~ 180	-		Star-RS 25/4	1~ 180	-	
24-2 E Riovlar	10	1~ 180	Stratos PICO 25/1-4	1~ 180	-		Star-RS 25/4	1~ 180	-	
24-8 D Riovlar	10	3~ 180	Stratos PICO 25/1-6	1~ 180	-		Star-RS 25/6	1~ 180	-	
24-8 E Riovlar	10	1~ 180	Stratos PICO 25/1-6	1~ 180	-		Star-RS 25/6	1~ 180	-	
25-40 Riotronic	10	1~ 180	Stratos PICO 25/1-4	1~ 180	-		-	-	-	
25-50 Rio	10	1~ 180	Stratos PICO 25/1-6	1~ 180	-		Star-RS 30/6	1~ 180	Mod. pipe	
25-60 B Riotronic	10	1~ 180	Stratos PICO 25/1-6-RG	1~ 180	-		-	-	-	
25-60 Rio-Eco	10	1~ 180	Stratos 25/1-6	1~ 180	-		-	-	-	
25-60 Riotronic	10	1~ 180	Stratos PICO 25/1-6	1~ 180	-		-	-	-	
25-60 Riotronic SSM	10	1~ 180	Stratos ECO 25/1-5 BMS	1~ 180	-		-	-	-	
25-7 E/D Rio	10	1~/3~ 180	Stratos 25/1-8	1~ 180	-		TOP-S 25/7	1~/3~ 180	-	
25-70 E/D Rio	10	1~/3~ 180	Stratos 25/1-8	1~ 180	-		TOP-S 25/7	1~/3~ 180	-	
25-80 Rio-Eco	10	1~ 180	Stratos 25/1-8	1~ 180	-		-	-	-	
25-100 E/D Rio	10	1~/3~ 180	Stratos 30/1-12	1~ 180	Mod. pipe		TOP-S 25/10	1~/3~ 180	-	
A 2 V Riomatic	10	1~/3~ 180	Stratos 25/1-8	1~ 180	-		TOP-S 25/7	1~/3~ 180	-	
A 2 R Riomatic	10	1~/3~ 180	Stratos 25/1-8	1~ 180	-		TOP-S 25/7	1~/3~ 180	-	
B 2 V Riomatic	10	1~ 180	Stratos PICO 25/1-6	1~ 180	-		Star-RS 25/6	1~ 180	-	

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1~ 230 V, 50 Hz single-phase, 3~ = 3~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

KSB

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps
 infinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$
 Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$
 Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1 (Pump thread G 1½)

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	
B 2R Riomatic	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
C 2 V Riomatic	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
C 22/20 Riomatic	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
C 22/25 Rio	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
C 22/35 Riomatic	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
C 22/40 Rio	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
C 22/40-130 Rio	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
C 22/50 Rio	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
C 22/60 Rio	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
C 25-15 Rio	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
C 25-25 Rio	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/2	1~	180	-
C 25-40 130 Rio	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-	Star-RS 25/4-130	1~	130	-
C 25-40 Rio	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
C 25-50-130 Rio	10	1~	130	Stratos PICO 25/1-4-130	1~	130	-	Star-RS 25/4-130	1~	130	-
C 25-50 Rio	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
C 25-60 130 Rio	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/6-130	1~	130	-
C 25-60 Rio	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
C 2 R Riomatic	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
E 25/1-5 Riotron	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
S 25-40 Riotronic	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
S 25-60 Riotronic	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-

Rp 1¼ (Pump thread G 2)

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	
30-10 E/D Rio	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
30-100 Rio	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
30-100 Riotec	10	1~	180	Stratos 30/1-12	1~	180	-	-	-	-	-
30-120 Rio-Eco	10	1~	180	Stratos 30/1-12	1~	180	-	-	-	-	-
30-40 Rio	10	1~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/5	1~/3~	180	-
30-40 Riotronic	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
30-50 Rio	10	1~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/5	1~/3~	180	-
30-60 Rio-Eco	10	1~	180	Stratos 30/1-6	1~	180	-	-	-	-	-
30-60 Riotronic	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
30-60 Riotronic SSM	10	1~	180	Stratos ECO 30/1-5-BMS	1~	180	-	-	-	-	-
30-7 E/D Rio	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
30-70 E/D Rio	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
30-70 Riotec	10	1~	180	Stratos 30/1-8	1~	180	-	-	-	-	-
30-80 Rio-Eco	10	1~	180	Stratos 30/1-8	1~	180	-	-	-	-	-
31-4 E Riovar	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
32-1 E Riovar	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
32-12 E/D Riovar	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

KSB

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy class A
infinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy class B
1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G 2)

32-15 E/D Riovar	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
32-17 E/D Riovar	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~/3~	180	-
32-2 E Riovar	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
32-3 E Riovar	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
32-4 E Riovar	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
32-5 E Riovar	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
32-6 E/D Riovar	10	1~/3~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/7	1~/3~	180	-
32-60 Rio-Eco	10	1~	180	Stratos 30/1-6	1~	180	-	-	-	-	-
32-7 E/D Riovar	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
34-2 E/D Riovar	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
34-8 E/D Riovar	10	1~/3~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/7	1~/3~	180	-
A 3 V Riomatic	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
B 3 V Riomatic	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
C 3 V Riomatic	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
C 30-25 Rio	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/2	1~	180	-
C 30-40 Rio	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
C 30-50 Rio	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
C 30-60 Rio	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
C 32/20 Riomatic	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
C 32/25 Rio	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/2	1~	180	-
C 32/35 Riomatic	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
C 32/40 Rio	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
C 32/50 Rio	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
C 32/60 Rio	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
D 30 D	10	3~	206	-	-	-	-	TOP-D 30	1~/3~	180	Mod. pipe
E 30/1-5 Riotron	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
S 30-40 Riotronic	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
S 30-60 Riotronic	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-

DN 32

Rio-Eco 32-120	6/10	1~	220	Stratos 32/1-12	1~	220	-	-	-	-	-
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DN 40

40-1/10 Riotec	6/10	1~	250	Stratos 40/1-12	1~	250	-	-	-	-	-
40-10 D Rio	6/10	3~	250	Stratos 40/1-12	1~	250	-	TOP-S 40/10	3~	250	-
40-100 D Rio	6/10	3~	250	Stratos 40/1-12	1~	250	-	TOP-S 40/10	3~	250	-
40-150 D Rio	6/10	3~	250	-	-	-	-	TOP-S 40/15	3~	250	-
40-100 Riotec	6/10	1~	250	Stratos 40/1-12	1~	250	-	-	-	-	-
40-120 Rio-Eco	6/10	1~	250	Stratos 40/1-12	1~	250	-	-	-	-	-
40-4 E/D Rio	6/10	1~/3~	220	Stratos 40/1-4	1~	220	-	TOP-S 40/4	1~/3~	220	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

KSB

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps
 infinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$
 Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$
 Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

DN 40										
PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
40-40 E/D Rio	6/10 1~/3~	220	Stratos 40/1-4	1~	220	-	TOP-S 40/4	1~/3~	220	-
40-40 Rio-Eco	6/10 1~	220	Stratos 40/1-4	1~	220	-	-	-	-	-
40-40 Riotec	6/10 1~	220	Stratos 40/1-4	1~	220	-	-	-	-	-
40-7 E/D Rio	6/10 1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
40-70 E/D Rio	6/10 1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
40-80 Rio-Eco	6/10 1~	220	Stratos 40/1-8	1~	220	-	-	-	-	-
42-12 E/D Riovar	6/10 1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
42-17 E/D Riovar	6/10 1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
42-25 E/D Riovar	6/10 1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/10	3~	250	-
42-6 E/D Riovar	6/10 1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
42-7 E/D Riovar	6/10 1~/3~	220	Stratos 40/1-4	1~	220	-	TOP-S 40/4	1~/3~	220	-
44-18 D Riovar	6/10 3~	320	Stratos 40/1-8	1~	220	2x F26	TOP-S 40/7	1~/3~	250	F0+F26+Di
44-30 D Riovar	6/10 3~	320	Stratos 40/1-8	1~	220	2x F26	TOP-S 40/7	1~/3~	250	F0+F26+Di
44-8 E/D Riovar	6/10 1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
A 4 V Riomatic	6/10 1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
C 4 V Riomatic	6/10 1~	200	Stratos 40/1-4	1~	220	Mod. pipe	-	-	-	-
D 40 D	6/10 3~	220	Stratos PICO 25/1-6	1~	180	2x RF9	TOP-D 40	1~	220	-
E 40/1-5 Riotron	6/10 1~	220	Stratos 40/1-4	1~	220	-	-	-	-	-
K 48	6/10 1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
L 4	6/10 1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
M 4	6/10 1~/3~	250	Stratos 40/1-12	1~	250	-	TOP-S 40/10	3~	250	-
DN 50										
50-1/10 Riotec	6/10 1~	280	Stratos 50/1-12	1~	280	-	-	-	-	-
50-1/7 Riotec	6/10 1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
50-10 D Rio	6/10 3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
50-100 D Rio	6/10 3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
50-100 Riotec	6/10 1~	280	Stratos 50/1-12	1~	280	-	-	-	-	-
50-150 D Rio	6/10 3~	340	-	-	-	-	TOP-S 50/15	3~	340	-
50-120 Rio-Eco	6/10 1~	280	Stratos 50/1-12	1~	280	-	-	-	-	-
50-4 E/D Rio	6/10 1~/3~	240	Stratos 50/1-8	1~	240	-	TOP-S 50/4	1~/3~	240	-
50-40 E/D Rio	6/10 1~/3~	240	Stratos 50/1-8	1~	240	-	TOP-S 50/4	1~/3~	240	-
50-60 Riotec	6/10 1~	240	Stratos 50/1-8	1~	240	-	-	-	-	-
50-7 D Rio	6/10 3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
50-70 D Rio	6/10 3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
50-70 Riotec	6/10 1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
50-80 Rio-Eco	6/10 1~	240	Stratos 50/1-8	1~	240	-	-	-	-	-
50-90 Rio-Eco	6/10 1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
52-12 E/D Riovar	6/10 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
52-15 E/D Riovar	6/10 1~/3~	240	Stratos 50/1-8	1~	240	-	TOP-S 50/4	1~/3~	240	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

KSB

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new



High-efficiency pumps

infinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$
 Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$
 Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note



Standard pumps*)

1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 50

PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note	
52-17 E/D Riovar	6/10	1~/3~	240	Stratos 50/1-8	1~	240	-	TOP-S 50/4	1~/3~	240	-
52-25 E/D Riovar	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
52-32 D Riovar	6/10	3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
52-40 D Riovar	6/10	3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
52-45 D Riovar	6/10	3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
52-85 D Riovar	6/10	3~	340	Stratos 50/1-12	1~	280	2x F4	TOP-S 50/15	3~	340	-
54-100 D Riovar	10	3~	440	Stratos 50/1-12	1~	280	F40	TOP-S 50/15	3~	340	Mod. pipe
54-150 D Riovar	10	3~	460	Stratos 50/1-12	1~	280	F40+F3	TOP-S 50/15	3~	340	Mod. pipe
54-18 D Riovar	6/10	3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
54-30 D Riovar	6/10	3~	340	Stratos 50/1-9	1~	280	2x F4	TOP-S 50/7	3~	280	2x F4
54-48 D Riovar	6/10	3~	340	Stratos 50/1-9	1~	280	2x F4	TOP-S 50/7	3~	280	2x F4
D 50 D	6/10	3~	240	-	-	-	-	TOP-D 50	1~/3~	240	-
E 50/1-7 Riotron	6	1~	240	Stratos 50/1-8	1~	240	-	-	-	-	-
K 56	6	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
K 57	6	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
K 58	6	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
K 59	6	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
L 5	6/10	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/4	1~/3~	240	2x F3
L 51	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
L 58	6	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/4	1~/3~	240	2x F3
L 59	6	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/4	1~/3~	240	2x F3
M 5	6/10	3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/7	3~	280	-

DN 65




62-130 D Riovar	6/10	3~	340	IP-E 65/115-1.5/2*	3~	340	-	TOP-S 65/15	3~	340	-
62-32 D Riovar	6/10	3~	280	Stratos 65/1-9	1~	280	-	TOP-S 65/7	3~	280	-
62-40 D Riovar	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
62-60 D Riovar	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
62-65 D Riovar	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
62-70 D Riovar	6/10	3~	340	IP-E 65/115-1.5/2*	3~	340	-	TOP-S 65/13	3~	340	-
64-160 D Riovar	10	3~	475	Stratos 65/1-12	1~	340	F41	TOP-S 65/15	3~	340	F41
64-250 D Riovar	10	3~	500	IP-E 65/115-1.5/2*	3~	340	Mod. pipe	TOP-S 65/13	3~	340	Mod. pipe
64-30 D Riovar	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
64-48 D Riovar	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
64-75 D Riovar	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
65-1/10 Riotec	6/10	1~	340	Stratos 65/1-9	1~	280	2x F11	-	-	-	-
65-10 D Rio	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
65-100 D Rio	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
65-100 Riotec	6/10	1~	340	Stratos 65/1-9	1~	280	2x F11	-	-	-	-
65-120 Rio-Eco	6/10	1~	340	Stratos 65/1-12	1~	340	-	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5-7


■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1~ 230 V, 50 Hz single-phase, 3~ = 3~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilо Replacement Guide Heating

KSB				Wilо – new							
Single pumps				High-efficiency pumps			Standard pumps*)				
				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$ Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$ Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$			 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 65											
65-13 D Rio	6/10	3~	340	IP-E 65/115-1.5/2*	3~	340	-	TOP-S 65/13	3~	340	-
65-130 D Rio	6/10	3~	340	IP-E 65/115-1.5/2*	3~	340	-	TOP-S 65/13	3~	340	-
65-7 D Rio	6/10	3~	280	Stratos 65/1-9	1~	280	-	TOP-S 65/7	3~	280	-
65-70 D Rio	6/10	3~	280	Stratos 65/1-9	1~	280	-	TOP-S 65/7	3~	280	-
65-150 D Rio	6/10	3~	340	-	-	-	-	TOP-S 65/15	3~	340	-
65-90 Rio-Eco	6/10	1~	280	Stratos 65/1-9	1~	280	-	-	-	-	-
D 65 D	6/10	1~/3~	280	-	-	-	-	TOP-D 65	1~/3~	280	-
L 66	6	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
L 67	6	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
L 68	6	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
L 69	6	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
M 6	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
M 61	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
R 6	6/10	3~	340	IP-E 65/115-1.5/2*	3~	340	-	TOP-S 65/13	3~	340	-
DN 80											
80-1/10 Riotec	6/10	1~	360	Stratos 80/1-12	1~	360	-	-	-	-	-
80-10 D Rio	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
80-100 D Rio	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
80-100 Riotec	6/10	1~	360	Stratos 80/1-12	1~	360	-	-	-	-	-
80-120 Rio-Eco	6/10	1~	360	Stratos 80/1-12	1~	360	-	-	-	-	-
80-150 D Rio	6/10	3~	360	-	-	-	-	TOP-S 80/15	3~	360	-
DN 80											
80-200 D Rio	6/10	3~	360	-	-	-	-	TOP-S 80/20	3~	360	-
80-7 D Rio	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
80-70 D Rio	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
82-100 D Riovar	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
82-130 D Riovar	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
82-60 D Riovar	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
82-65 D Riovar	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
82-85 D Riovar	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
84-250 D Riovar	10	3~	500	Stratos 80/1-12	1~	360	F42	TOP-S 80/15	3~	360	F42
84-48 D Riovar	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
84-75 D Riovar	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
D 80 D	6/10	3~	330	-	-	-	-	TOP-D 80	1~/3~	330	-
M 8	6	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
M 86	6	3~	400	Stratos 80/1-12	1~	360	F18	TOP-S 80/7	3~	360	F18
M 87	6	3~	400	Stratos 80/1-12	1~	360	F18	TOP-S 80/7	3~	360	F18
M 88	6	3~	400	Stratos 80/1-12	1~	360	F18	TOP-S 80/7	3~	360	F18

*) For type-dependent energy efficiency classes see pages 5-7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

KSB				Wilo – new							
Single pumps				High-efficiency pumps			Standard pumps*)				
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 80											
M 89	6	3~	400	Stratos 80/1-12	1~	360	F18	TOP-S 80/7	3~	360	F18
R 8	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
S 8	6/10	3~	360	IP-E 80/115-2.2/2*	3~	360	-	TOP-S 80/10	3~	360	-
DN 100											
100-100 D Rio	6/10	3~	360	Stratos 100/1-12	1~	360	-	TOP-S 100/10	3~	360	-
100-100 Riotec	6/10	1~	360	Stratos 100/1-12	1~	360	-	-	-	-	-
100-120 Rio-Eco	6/10	1~	360	Stratos 100/1-12	1~	360	-	-	-	-	-
102-130 D Riovar	6/10	3~	395	Stratos 100/1-12	1~	360	F34	TOP-S 100/10	3~	360	F34
104-110 D Riovar	6/10	3~	395	Stratos 100/1-12	1~	360	F34	-	-	-	-
104-250 D Riovar	10	3~	500	IP-E 80/115-2.2/2*	3~	360	Mod. pipe	-	-	-	-
104-250 D Riovar	10	3~	550	Stratos 100/1-12	1~	360	F43	-	-	-	-
108 Rio	-	-	450	-	-	-	-	TOP-S 65/13	3~	340	Mod. pipe
109 Rio	-	-	460	-	-	-	-	TOP-S 65/13	3~	340	Mod. pipe
D 100 D	6/10	3~	380	-	-	-	-	TOP-D 100	3~	380	-
M 108	6	3~	450	IP-E 80/115-2.2/2*	3~	360	Mod. pipe	TOP-S 100/10	3~	360	F34 + F35
M 109	6	3~	450	IP-E 80/115-2.2/2*	3~	360	Mod. pipe	TOP-S 100/10	3~	360	F34 + F35
R 10	6/10	3~	450	IP-E 80/115-2.2/2*	3~	360	Mod. pipe	TOP-S 100/10	3~	360	F34 + F35
R 101	6/10	3~	450	Stratos 100/1-12	1~	360	F34 + F35	TOP-S 100/10	3~	360	F34 + F35
R 101 Rio	-	-	450	-	-	-	-	TOP-S 100/10	3~	360	-
S 10	6/10	3~	450	IP-E 80/115-2.2/2*	3~	360	Mod. pipe	TOP-S 100/10	3~	360	F34 + F35
DN 125											
D 125 D	6/10	3~	450	-	-	-	-	TOP-D 125	3~	450	-

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

KSB

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

indefinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$
 Stratos PICO $T_{min}: +2\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$
 Stratos ECO $T_{min}: +15\text{ }^{\circ}\text{C}/T_{max}: 110\text{ }^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ }^{\circ}\text{C}$ or $130\text{ }^{\circ}\text{C}/140\text{ }^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G 2)

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
A 3 VZ E/D	10	1~/3~	180	Stratos-D 32/1-8	1~	220	Mod. pipe	Star-RSD 30/6	1~	180	-
B 3 VZ E/D	10	1~/3~	180	Stratos-D 32/1-8	1~	220	Mod. pipe	Star-RSD 30/6	1~	180	-
Z 31-4 E Riovar	10	1~	180	Stratos-D 32/1-8	1~	220	Mod. pipe	Star-RSD 30/6	1~	180	-
Z 32-2 E Riovar	10	1~	180	-	-	-	-	Star-RSD 30/4	1~	180	-
Z 32-3 E Riovar	10	1~	180	-	-	-	-	Star-RSD 30/4	1~	180	-
Z 32-4 E Riovar	10	1~	180	Stratos-D 32/1-8	1~	220	Mod. pipe	Star-RSD 30/6	1~	180	-
Z 32-5 E Riovar	10	1~	180	Stratos-D 32/1-8	1~	220	Mod. pipe	Star-RSD 30/6	1~	180	-
Z 32-6 E/D Riovar	10	1~/3~	180	Stratos-D 32/1-8	1~	220	Mod. pipe	Star-RSD 30/6	1~	180	-

DN 32

Z 30-70 E/D Rio	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
Z 32-100 E/D	6/10	1~/3~	220	Stratos-D 32/1-12	1~	220	-	TOP-SD 32/10	1~/3~	220	-
Z 32-120 Rio-Eco	6/10	1~	220	Stratos-D 32/1-12	1~	220	-	-	-	-	-
Z 30-7 E/D Rio	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
Z 32-7 E/D Riovar	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
Z 32-70 Riotech	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 30/5	1~/3~	180	2x RF3
Z 32-80 Rio-Eco	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	-	-	-	-
Z 34-2 E/D Riovar	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	-	-	-	-

DN 40

A 4 VZ E/D	6/10	1~/3~	280	Stratos-D 40/1-8	1~	220	2x F1 + 2x F1-MS	TOP-SD 40/7	1~/3~	250	F1
L 4 Z E/D	6/10	1~/3~	280	Stratos-D 40/1-8	1~	220	2x F1 + 2x F1-MS	TOP-SD 40/7	1~/3~	250	F1
M 4 Z D	6/10	3~	280	-	-	-	-	TOP-SD 50/10	3~	280	Mod. pipe
Z 40-1/10 Riotech	6/10	1~	250	Stratos-D 40/1-12	1~	250	-	-	-	-	-
Z 40-10 D Rio	6/10	3~	250	Stratos-D 40/1-12	1~	250	-	TOP-SD 40/10	3~	250	-
Z 40-100 D Rio	6/10	3~	250	Stratos-D 40/1-12	1~	250	-	TOP-SD 40/10	3~	250	-
Z 40-100 Riotech	6/10	1~	250	Stratos-D 40/1-12	1~	250	-	-	-	-	-
Z 40-150 D Rio	6/10	3~	250	-	-	-	-	TOP-SD 40/15	3~	250	-
Z 40-120 Rio-Eco	6/10	1~	250	Stratos-D 40/1-12	1~	250	-	-	-	-	-
Z 40-7 E/D Rio	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
Z 40-70 E/D Rio	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
Z 40-70 Riotech	6/10	1~	250	Stratos-D 40/1-8	1~	220	F1	-	-	-	-
Z 40-80 Rio-Eco	6/10	1~	220	Stratos-D 40/1-8	1~	220	-	-	-	-	-
Z 42-12 E/D Riovar	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
Z 42-17 E/D Riovar	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
Z 42-25 E/D Riovar	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
Z 42-6 E/D Riovar	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
Z 44-18 D Riovar	6/10	3~	320	Stratos-D 40/1-8	1~	220	2x F26	-	-	-	-
Z 44-8 E/D Riovar	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

KSB

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy infinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10^{\circ}C / T_{max}: 110^{\circ}C$
Stratos PICO $T_{min}: +2^{\circ}C / T_{max}: 110^{\circ}C$
Stratos ECO $T_{min}: +15^{\circ}C / T_{max}: 110^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy 1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C / 140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

DN 50

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
L 5 Z E/D	6/10	1~/3~	340	Stratos-D 50/1-9	1~	280	2x F4	TOP-SD 50/7	3~	280	2x F4
L 51 Z E/D	6/10	1~/3~	340	Stratos-D 50/1-9	1~	280	2x F4	TOP-SD 50/7	3~	280	2x F4
M 5 Z D	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
Z 50-1/10 Riotec	6/10	1~	280	Stratos-D 50/1-12	1~	280	-	-	-	-	-
Z 50-1/7 Riotec	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	-	-	-	-
Z 50-10 D Rio	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
Z 50-100 D Rio	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
Z 50-150 D Rio	6/10	3~	340	-	-	-	-	TOP-SD 50/15	3~	340	-
Z 50-100 Riotec	6/10	1~	280	Stratos-D 50/1-12	1~	280	-	-	-	-	-
Z 50-120 Rio-Eco	6/10	1~	280	Stratos-D 50/1-12	1~	280	-	-	-	-	-
Z 50-60 Riotec	6/10	1~	280	Stratos-D 50/1-8	1~	240	2x F3	-	-	-	-
Z 50-7 D Rio	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
Z 50-70 D Rio	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
Z 50-70 Riotec	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
Z 50-80 Rio-Eco	6/10	1~	240	Stratos-D 50/1-8	1~	240	-	-	-	-	-
Z 50-90 Rio-Eco	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	-	-	-	-
Z 52-25 E/D Riovlar	6/10	1~/3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
Z 52-32 D Riovlar	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
Z 52-45 D Riovlar	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
Z 52-85 D Riovlar	6/10	3~	340	-	-	-	-	TOP-SD 50/15	3~	340	-
Z 54-18 D Riovlar	6/10	3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
Z 54-30 D Riovlar	6/10	3~	340	Stratos-D 50/1-9	1~	280	2x F4	TOP-SD 50/7	3~	280	2x F4

DN 65




Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
M 6 Z D	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
M 61 Z D	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
R 6 Z D	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/13	3~	340	-
Z 62-130 D Riovlar	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/15	3~	340	-
Z 62-40 D Riovlar	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
Z 62-60 D Riovlar	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
Z 62-70 D Riovlar	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
Z 64-30 D Riovlar	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
Z 64-48 D Riovlar	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
Z 65-1/10 Riotec	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
Z 65-10 D Rio	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
Z 65-100 D Rio	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
Z 65-150 D Rio	6/10	3~	340	-	-	-	-	TOP-SD 65/15	3~	340	-
Z 65-100 Riotec	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5-7


= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

KSB				Wilo – new							
Double pumps				High-efficiency pumps				Standard pumps*)			
											
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 65											
Z 65-120 Rio-Eco	6/10	1~	340	Stratos-D 65/1-12	1~	340	-	-	-	-	-
Z 65-13 D Rio	6/10	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
Z 65-130 D Rio	6/10	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
DN 80											
Z 80-1/10 Riotec	6/10	1~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
Z 80-10 D Rio	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
Z 80-100 D Rio	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
Z 80-100 Riotec	6/10	1~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
Z 80-120 Rio-Eco	6/10	1~	360	Stratos-D 80/1-12	1~	360	-	-	-	-	-
Z 80-150 D Rio	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/15	3~	360	-
Z 80-200 D Rio	6/10	3~	360	-	-	-	-	TOP-SD 80/20	3~	360	-
Z 82-100 D Riovar	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
Z 82-130 D Riovar	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
Z 82-65 D Riovar	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
Z 82-85 D Riovar	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
Z 84-48 D Riovar	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
Z 84-75 D Riovar	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
DN 100											
Z 102-130 D Riovar	6/10	3~	395	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
Z 104-110 D Riovar	6/10	3~	395	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5-7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Loewe				Wilo – new							
Single pumps				High-efficiency pumps			Standard pumps*)				
				High-efficiency pumps infinitely variable, 1 ~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			Standard pumps*) 1 or 3 speed stages 1 ~ 230 V or 3 ~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1 (Pump thread G 1½)											
P 233 RD	10	1~/3~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
P 233 RY	10	1~/3~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
P 235 RD	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
P 235 RY	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
P 246 RD	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
P 247 RD	10	1~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~/3~	180	-
P 247 RD	10	1~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~/3~	180	-
P 249 RD	10	1~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~/3~	180	-
P 293 RD	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
P 295 RD	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/6-130	1~	130	-
SHR 251 DS	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
SHR 251 WS	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
V 231 RD	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
V 231 RS	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
V 231 RY	10	3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
V 233 RD	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
V 233 RS	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
V 233 RY	10	3~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
V 235 R	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
V 235 RD	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
V 235 RY	10	3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
V 241 R	10	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/5	1~/3~	180	-
V 244 R	10	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/5	1~/3~	180	-
V 245 R	10	1~/3~	180	Stratos 25/1-8	1~	180	-	TOP-S 25/7	1~/3~	180	-
V 247 R	10	1~/3~	180	Stratos 25/1-8	1~	180	-	TOP-S 25/7	1~/3~	180	-
V 263 R	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
V 361 R	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
Rp 1½ (Pump thread G 2¼)											
P 433 RD	10	1~	180	Stratos PICO 30/1-6	1~	180	Mod. pipe	Star-RS 30/4	1~	180	Mod. pipe
P 433 RY	10	3~	180	Stratos PICO 30/1-6	1~	180	Mod. pipe	Star-RS 30/4	1~	180	Mod. pipe
Rp 1¼ (Pump thread G 2)											
P 333 RD	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
P 333 RY	10	3~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
P 335 RD	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
P 335 RY	10	3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
P 347 RD	10	1~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/7	1~/3~	180	-
P 347 RYD	10	3~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/7	1~/3~	180	-
V 331 RD	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-

*) For type-dependent energy efficiency classes see pages 5–7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Loewe

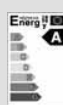
Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new



High-efficiency pumps

infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10^{\circ}C / T_{max}: 110^{\circ}C$
Stratos PICO $T_{min}: +2^{\circ}C / T_{max}: 110^{\circ}C$
Stratos ECO $T_{min}: +15^{\circ}C / T_{max}: 110^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note



Standard pumps*)

1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C / 140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G 2)

V 331 RS	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
V 331 RY	10	3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
V 333 RD	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
V 333 RS	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
V 333 RY	10	3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
V 335 R	6/10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~/3~	180	-
V 341 R	6/10	1~/3~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/4	1~/3~	180	-
V 344 R	6/10	1~/3~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/5	1~/3~	180	-
V 363 R	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-

Rp 1½ (Pump thread G 2¼)

P 433 R	6/10	1~/3~	180	Stratos PICO 30/1-6	1~	180	Mod. pipe	Star-RS 30/4	1~	180	Mod. pipe
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DN 32

P 333 F	6/10	1~/3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
P 333 FD	6/10	1~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
P 333 FHD	6/10	1~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
P 333 FHY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
P 333 FY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
P 335 FD	6/10	1~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
P 335 FHD	6/10	1~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
P 335 FHY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
P 335 FY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
SH 323	6/10	1~/3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
SHR 321	6/10	1~/3~	180	Stratos PICO 30/1-6	1~	180	2x RF1	Star-RS 30/6	1~	180	2x RF1
SHR 322	6/10	1~/3~	180	Stratos PICO 30/1-6	1~	180	2x RF1	Star-RS 30/6	1~	180	2x RF1
SHR 323	6/10	1~/3~	180	Stratos PICO 30/1-6	1~	180	2x RF1	Star-RS 30/6	1~	180	2x RF1
SO 32	6/10	1~/3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
SOR 32	6/10	1~/3~	250	Stratos PICO 30/1-6	1~	180	2x RF4	Star-RS 30/6	1~	180	2x RF4
SOR 33	6/10	1~/3~	250	Stratos PICO 30/1-6	1~	180	2x RF4	Star-RS 30/6	1~	180	2x RF4
SP 32	6/10	1~/3~	180	Stratos PICO 30/1-6	1~	180	2x RF1	Star-RS 30/6	1~	180	2x RF1
SPR 32	6/10	1~/3~	250	Stratos PICO 30/1-6	1~	180	2x RF4	Star-RS 30/6	1~	180	2x RF4
V 331 F	6	1~/3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
V 331 FY	6	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
V 333 F	6	1~/3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
V 333 FD	6	1~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
V 333 FY	6	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/4	1~	180	2x RF3
V 335 F	6/10	1~/3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
V 335 FD	6/10	1~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
V 335 FHY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Loewe

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy label A
infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy label A
1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 32

PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note	
V 335 FY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
V 341 F	6/10	1~/3~	220	Stratos 30/1-6	1~	180	2x RF3	TOP-S 30/4	1~/3~	180	2x RF3
V 344 F	6/10	1~/3~	220	Stratos 30/1-6	1~	180	2x RF3	TOP-S 30/5	1~/3~	180	2x RF3
V 345 F	6/10	1~/3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
V 345 FHY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3
V 345 FY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RF3	Star-RS 30/6	1~	180	2x RF3

DN 40

P 402 F	6	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
P 403 F	6	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
P 405 FD	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
P 405 FHD	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
P 405 FHY	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
P 405 FY	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
P 409 F	6/10	1~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
P 409 FHYD	6/10	3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
P 409 FYD	6/10	3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~/3~	250	-
P 433 F	6/10	1~	220	Stratos 30/1-6	1~	180	2x RFO + R14	TOP-S 30/5	1~/3~	180	2x RFO + R14
P 433 FD	6/10	1~	220	Stratos PICO 30/1-6	1~	180	2x RFO + R14	Star-RS 30/4	1~	180	2x RFO + R14
P 433 FHD	6/10	1~	220	Stratos PICO 30/1-6	1~	180	2x RFO + R14	Star-RS 30/4	1~	180	2x RFO + R14
P 433 FHY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	2x RFO + R14	Star-RS 30/4	1~	180	2x RFO + R14
P 433 FY	6/10	3~	220	Stratos PICO 30/1-6	1~	180	Mod. pipe	Star-RS 30/4	1~	180	2x RFO + R14
SH 401	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
SH 402	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
V 401 F	6/10	1~/3~	250	Stratos PICO 30/1-6	1~	180	2x RF12 + F26	Star-RS 30/6	1~	180	2x RF12 + F26
V 403 F	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
V 403 FH	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
V 403 FHY	6/10	3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
V 403 FY	6/10	3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~/3~	220	F1
V 431 F	6	1~/3~	220	-	-	-	-	TOP-D 40	1~/3~	220	F1
V 431 FY	6	3~	220	-	-	-	-	TOP-D 40	1~/3~	220	F1
V 433 F	6	1~/3~	220	Stratos PICO 30/1-6	1~	180	2x RFO + R14	Star-RS 30/4	1~	180	2x RFO + R14
V 433 FD	6	1~	220	Stratos PICO 30/1-6	1~	180	2x RFO + R14	Star-RS 30/4	1~	180	2x RFO + R14
V 433 FY	6	3~	220	Stratos PICO 30/1-6	1~	180	2x RFO + R14	Star-RS 30/4	1~	180	2x RFO + R14
V 441 F	6	1~/3~	220	Stratos 30/1-6	1~	180	2x RFO + R14	TOP-S 30/4	1~/3~	180	2x RFO + R14

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilо Replacement Guide Heating

Loewe

Single pumps



Type

PN
Motor
Overall length [mm]

Wilо – new



High-efficiency pumps

indefinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$
Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$
Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note



Standard pumps*)

1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

DN 50										
PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
P 5012 F	6/10 1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
P 5012 FHYD	6/10 3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
P 5012 FYD	6/10 3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
P 503 F	6 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 504 F	6 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 505 F	6/10 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 505 FD	6/10 1~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 505 FHD	6/10 1~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 505 FYD	6/10 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 508 F	6/10 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 508 FD	6/10 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 508 FHD	6/10 1~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 508 FYD	6/10 3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
P 531 FD	6/10 1~	220	Stratos PICO 30/1-6	1~	180	2x RF5	Star-RS 30/4	1~	180	2x RF5
P 531 FHD	6/10 1~	220	Stratos PICO 30/1-6	1~	180	2x RF5	Star-RS 30/4	1~	180	2x RF5
P 531 FHY	6/10 3~	220	Stratos PICO 30/1-6	1~	180	2x RF5	Star-RS 30/4	1~	180	2x RF5
P 531 FY	6/10 3~	220	Stratos PICO 30/1-6	1~	180	2x RF5	Star-RS 30/4	1~	180	2x RF5
SH 501	6/10 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
SO 50	6/10 1~/3~	240	-	-	-	-	TOP-D 50	1~/3~	240	-
SP 50	6/10 1~/3~	240	-	-	-	-	TOP-D 30	1~/3~	180	Mod. pipe
V 505 F	6/10 1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/7	3~	280	-
V 505 FHY	6/10 3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
V 505 FY	6/10 3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~/3~	240	2x F3
V 531 F	6/10 1~/3~	220	Stratos PICO 30/1-4	1~	180	2x RF5	Star-RS 30/4	1~	180	2x RF5
V 531 FD	6/10 1~	220	Stratos PICO 30/1-4	1~	180	2x RF5	Star-RS 30/4	1~	180	2x RF5
V 531 FHY	6/10 3~	220	Stratos PICO 30/1-4	1~	180	2x RF5	Star-RS 30/4	1~	180	2x RF5
V 531 FY	6/10 3~	220	Stratos PICO 30/1-4	1~	180	2x RF5	Star-RS 30/4	1~	180	2x RF5
V 541 F	6 1~/3~	220	-	-	-	-	TOP-D 40	1~/3~	220	Mod. pipe
V 541 FHY	6 3~	220	-	-	-	-	TOP-D 40	1~/3~	220	Mod. pipe
V 541 FY	6 3~	220	-	-	-	-	TOP-D 40	1~/3~	220	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.




Loewe				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
				<p>infinitely variable, 1 ~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$</p>				<p>1 or 3 speed stages 1 ~ 230 V or 3 ~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$</p>			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 65											
P 641 F	6/10	1~/3~	220	-	-	-	-	TOP-D 65	1~/3~	280	Mod. pipe
P 641 FD	6/10	1~	220	-	-	-	-	TOP-D 65	1~/3~	280	Mod. pipe
P 641 FHY	6/10	3~	220	-	-	-	-	TOP-D 65	1~/3~	280	Mod. pipe
P 641 FY	6/10	3~	220	-	-	-	-	TOP-D 65	1~/3~	280	Mod. pipe
P 641 FYD	6/10	3~	220	-	-	-	-	TOP-D 65	1~/3~	280	Mod. pipe
P 643 F	6/10	1~/3~	250	-	-	-	-	TOP-D 65	1~/3~	280	Mod. pipe
P 655 FY	6	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 656 FY	6	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 657 F	6	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/10	3~	340	-
P 657 FY	6	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/10	3~	340	-
P 658 F	6	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/10	3~	340	-
P 659 F	6	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/10	3~	340	-
P 665 F	6	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 665 FHY	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 665 FY	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 666 F	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 666 FHY	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 666 FY	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 667 F	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 667 FHY	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 667 FY	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 668 F	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
P 668 FHY	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
P 668 FY	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
P 669 F	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
P 669 FHY	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
P 669 FY	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
P 6712 F	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/10	3~	340	-
P 6712 FHYD	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/10	3~	340	-
P 6712 FYD	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/10	3~	340	-
P 677 F	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 677 FHYD	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
P 677 FYD	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
SO 65	6/10	1~/3~	280	-	-	-	-	TOP-D 65	1~/3~	280	-

*) For type-dependent energy efficiency classes see pages 5–7


= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilо Replacement Guide Heating

Loewe				Wilо – new							
Single pumps				High-efficiency pumps			Standard pumps*)				
				 High-efficiency pumps infinitely variable, 1 ~ 230 V, 50 Hz Stratos $T_{min}: -10^{\circ}C / T_{max}: 110^{\circ}C$ Stratos PICO $T_{min}: +2^{\circ}C / T_{max}: 110^{\circ}C$ Stratos ECO $T_{min}: +15^{\circ}C / T_{max}: 110^{\circ}C$			 Standard pumps*) 1 or 3 speed stages 1 ~ 230 V or 3 ~ 400 V, 50 Hz $T_{max} = 110^{\circ}C$ or $130^{\circ}C / 140^{\circ}C$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 80											
P 801 F	6	1~/3~	280	-	-	-	-	TOP-D 80	1~/3~	330	Mod. pipe
P 8010 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 809 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 8110 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 8110 FHY	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 8110 FY	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 8113 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 8113 FHYD	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 8113 FYD	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
P 818 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
P 818 FHYD	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
P 818 FYD	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
P 819 F	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
P 819 FHY	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
P 819 FY	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
P 841 F	6/10	1~/3~	280	-	-	-	-	TOP-D 80	1~	330	Mod. pipe
P 841 FD	6/10	1~/3~	280	-	-	-	-	TOP-D 80	1~	330	Mod. pipe
P 841 FHYD	6/10	1~/3~	280	-	-	-	-	TOP-D 80	1~	330	Mod. pipe
P 841 FY	6/10	1~/3~	280	-	-	-	-	TOP-D 80	1~	330	Mod. pipe
P 841 FYD	6/10	1~/3~	280	-	-	-	-	TOP-D 80	1~	330	Mod. pipe
DN 100											
P 10013 F	6/10	3~	395	Stratos 100/1-12	1~	360	F34	TOP-S 100/10	3~	360	F34
P 10013 FHYD	6/10	3~	395	Stratos 100/1-12	1~	360	F34	TOP-S 100/10	3~	360	F34
P 10013 FYD	6/10	3~	395	Stratos 100/1-12	1~	360	F34	TOP-S 100/10	3~	360	F34

*) For type-dependent energy efficiency classes see pages 5–7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Loewe

Double pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy A
infinitely variable, 1 ~ 230 V, 50 Hz
Stratos $T_{\min}: -10^{\circ}\text{C}/T_{\max}: 110^{\circ}\text{C}$
Stratos PICO $T_{\min}: +2^{\circ}\text{C}/T_{\max}: 110^{\circ}\text{C}$
Stratos ECO $T_{\min}: +15^{\circ}\text{C}/T_{\max}: 110^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy B
1 or 3 speed stages
1 ~ 230 V or 3 ~ 400 V, 50 Hz
 $T_{\max} = 110^{\circ}\text{C}$ or $130^{\circ}\text{C}/140^{\circ}\text{C}$

Type

Motor
Overall length [mm]
Adapter/
note

DN 32

Loewe Type	PN	Motor	Overall length [mm]	Wilo High-efficiency pumps Type	Motor	Overall length [mm]	Adapter/note	Wilo Standard pumps*) Type	Motor	Overall length [mm]	Adapter/note
ZP 323 D	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 323 HD	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	Star-RSD 30/6	1~	180	2x RF3
ZP 323 HY	6/10	3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 323 Y	6/10	3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 325 D	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 325 HD	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	Star-RSD 30/6	1~	180	2x RF3
ZP 325 HY	6/10	3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 325 Y	6/10	3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 347 D	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 347 HD	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 347 HYD	6/10	3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZP 347 YD	6/10	3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZV 323 D	6 1~/3~	220	220	Stratos-D 32/1-8	1~	220	-	Star-RSD 30/6	1~	180	2x RF3
ZV 323 Y	6 1~/3~	220	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZV 325 D	6 1~	220	220	Stratos-D 32/1-8	1~	220	-	Star-RSD 30/6	1~	180	2x RF3
ZV 325 Y	6 3~	220	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZV 335	6 -	220	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZV 335 Y	6 3~	220	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZV 344	6 1~	220	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZV 344 Y	6 3~	220	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZV 345	6 1~	220	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZV 345 Y	6 3~	220	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-

DN 40

ZP 402 Y	6 1~/3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-
ZP 403 Y	6 1~/3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-
ZP 405 D	6/10 1~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-
ZP 405 HD	6/10 1~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-
ZP 405 HYD	6/10 3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-
ZP 405 Y	6/10 3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-
ZP 405 YD	6/10 3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-
ZP 409 HYD	6/10 3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~	250	-
ZP 409 Y	6/10 3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~	250	-
ZP 409 YD	6/10 3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~	250	-
ZV 403 Y	6 1~/3~	250	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~	250	-

*) For type-dependent energy efficiency classes see pages 5–7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Wilо Replacement Guide Heating

Loewe

Double pumps



Type

PN
Motor
Overall length [mm]

Wilо – new

High-efficiency pumps

Energy class A
indefinitely variable, 1~ 230 V, 50 Hz
Stratos $T_{min}: -10^{\circ}C/T_{max}: 110^{\circ}C$
Stratos PICO $T_{min}: +2^{\circ}C/T_{max}: 110^{\circ}C$
Stratos ECO $T_{min}: +15^{\circ}C/T_{max}: 110^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy class B
1 or 3 speed stages
1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110^{\circ}C$ or $130^{\circ}C/140^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

DN 50											
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
ZP 5012 HYD	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
ZP 5012 Y	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
ZP 5012 YD	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
ZP 503	6	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 504	6	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 505	6	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 505 D	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 505 HD	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 505 HYD	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 505 Y	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 505 YD	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 508 D	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 508 HD	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 508 HYD	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 508 Y	6/10	1~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZP 508 YD	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZV 505 HY	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZV 505 Y	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
DN 65											
ZP 655 Y	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZP 656 Y	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZP 657 Y	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZP 658 Y	6	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
ZP 659 Y	6	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
ZP 665 Y	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZP 666 Y	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZP 667 Y	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZP 668 Y	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/13	3~	340	-
ZP 669 Y	6	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
ZP 6712 HYD	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/13	3~	340	-
ZP 6712 Y	6/10	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
ZP 6712 YD	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/13	3~	340	-
ZP 677 HYD	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZP 677 Y	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZP 677 YD	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-

*1) For type-dependent energy efficiency classes see pages 5-7

■ = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Loewe				Wilo – new							
Double pumps				High-efficiency pumps			Standard pumps*)				
				infinitely variable, 1 ~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			1 or 3 speed stages 1 ~ 230 V or 3 ~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 80											
ZP 8010 Y	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZP 809 Y	6	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZP 8110 Y	6	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZP 8113 HYD	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZP 8113 YD	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZP 818 HYD	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZP 818 Y	6	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZP 818 YD	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZP 819 Y	6	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
DN 100											
ZP 10013 HYD	6/10	3~	395	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe
ZP 10013 YD	6/10	3~	395	Stratos-D 80/1-12	1~	360	Mod. pipe	TOP-SD 80/10	3~	360	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5–7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Speck				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
Type				Type				Type			
PN	Motor	Overall length [mm]		Motor	Overall length [mm]	Adapter/ note	Motor	Overall length [mm]	Adapter/ note		
Rp 3/4 (Pump thread G 1 1/4)											
AU 20/16	10	1~	180	Stratos 25/1-6	1~	180	Mod. pipe	TOP-S 25/7	1~	180	Mod. pipe
AU 20/161	10	1~	180	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/6	1~	180	Mod. pipe
AU 20/43	10	1~	180	Stratos PICO 25/1-4	1~	180	Mod. pipe	Star-RS 25/4	1~	180	Mod. pipe
AU 20/64	10	1~	180	Stratos PICO 25/1-6	1~	180	Mod. pipe	Star-RS 25/6	1~	180	Mod. pipe
N 20/33	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
N 20/43	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	Star-RS 25/4-130	1~	130	Mod. pipe
N 20/43 E	10	1~	130	Stratos PICO 25/1-6-130	1~	130	Mod. pipe	-	-	-	-
Rp 1 (Pump thread G 1 1/2)											
AU 25/16	10	1~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~	180	-
AU 25/161	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
AU 25/43	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
AU 25/64	10	1~	180	Stratos 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
N 25/16	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
N 25/33	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
N 25/43	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
N 25/43 (130)	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
N 25/43 E	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
N 25/43 E (130)	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
N 25/52	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
N 25/52 (130)	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/4-130	1~	130	-
N 25/53	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/4	1~	180	-
N 25/64	10	1~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-
N 25/64 (130)	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	Star-RS 25/6-130	1~	130	-
N 25/64 E	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
N 25/64 E (130)	10	1~	130	Stratos PICO 25/1-6-130	1~	130	-	-	-	-	-
N 25/75	10	1~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~	180	-
NE 25/30	10	1~	180	Stratos PICO 25/1-6	1~	180	-	-	-	-	-
NE 25/33	10	1~	180	Stratos PICO 25/1-4	1~	180	-	-	-	-	-
NE 25/70	10	1~	180	Stratos 25/1-8	1~	180	-	-	-	-	-
VA 25/15	10	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~	180	-
VA 25/16	10	1~/3~	180	Stratos 25/1-6	1~	180	-	TOP-S 25/7	1~	180	-
VA 25/43	10	1~/3~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
VA 25/43 U	10	1~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
VA 25/52	10	1~/3~	180	Stratos PICO 25/1-4	1~	180	-	Star-RS 25/4	1~	180	-
VA 25/64	10	1~/3~	180	Stratos PICO 25/1-6	1~	180	-	Star-RS 25/6	1~	180	-

*) For type-dependent energy efficiency classes see pages 5-7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.

Speck

Single pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

Energy infinitely variable, 1~ 230 V, 50 Hz
 Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$
 Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$
 Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps*)

Energy 1 or 3 speed stages
 1~ 230 V or 3~ 400 V, 50 Hz
 $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$

Type

Motor
Overall length [mm]
Adapter/
note

Rp 1¼ (Pump thread G 2)

AU 32/16	10	1~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/7	1~	180	-
AU 32/161	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
AU 32/43	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
AU 32/64	10	1~	180	Stratos 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
AU 32/86	10	1~/3~	250	Stratos 30/1-8	1~	180	R11	TOP-S 30/7	1~	180	R11
N 32/16	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
N 32/20	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
N 32/33	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
N 32/43	10	1~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
N 32/43 E	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
N 32/50	10	1~/3~	180	Stratos 30/1-8	1~	180	-	TOP-S 30/7	1~	180	-
N 32/52	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
N 32/53	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
N 32/60	10	1~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/10	1~	180	-
N 32/64	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
N 32/64 E	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
N 32/75	10	1~	180	Stratos 30/1-6	1~	180	-	TOP-S 30/7	1~	180	-
N 32/80	10	1~/3~	180	Stratos 30/1-12	1~	180	-	TOP-S 30/7	1~	180	-
NE 32/30	10	1~	180	Stratos PICO 30/1-6	1~	180	-	-	-	-	-
NE 32/33	10	1~	180	Stratos PICO 30/1-4	1~	180	-	-	-	-	-
NE 32/70	10	1~	180	Stratos 30/1-8	1~	180	-	-	-	-	-
VA 32/43	10	1~/3~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
VA 32/43 U	10	1~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/4	1~	180	-
VA 32/52	10	1~/3~	180	Stratos PICO 30/1-4	1~	180	-	Star-RS 30/4	1~	180	-
VA 32/64	10	1~/3~	180	Stratos PICO 30/1-6	1~	180	-	Star-RS 30/6	1~	180	-
VA 32/82	10	1~/3~	250	Stratos 30/1-6	1~	180	R11	TOP-S 30/5	1~	180	R11
VA 32/86	10	1~/3~	250	Stratos 30/1-8	1~	180	R11	TOP-S 30/7	1~	180	R11

DN 40





A 40/4	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~	220	F1
AU 40/4	6/10	3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~	220	F1
AU 40/86	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 30/7	1~	180	2x RF12 + F26
AU 40/94	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 30/7	1~	180	2x RF12 + F26
LN 40/30	6/10	3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~	220	F1
N 40/50	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~	220	F1
N 40/60	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~	250	-
N 40/80	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~	250	-
NE 40/100	6/10	1~	250	Stratos 40/1-12	1~	250	-	-	-	-	-
NE 40/40	6/10	1~	220	Stratos 40/1-4	1~	220	-	-	-	-	-
SN 40/120	6/10	3~	250	Stratos 40/1-12	1~	250	-	TOP-S 40/10	3~	250	-

*) For type-dependent energy efficiency classes see pages 5–7


= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Speck				Wilo – new							
Single pumps				High-efficiency pumps				Standard pumps*)			
 				 infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 40											
SN 40/60	6/10	3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~	250	-
SN 40/70	6/10	1~/3~	250	Stratos 40/1-8	1~	220	F1	TOP-S 40/7	1~	250	-
U 40/2	6/10	1~/3~	220	Stratos 30/1-6	1~	180	2x RFO + R14	TOP-S 30/5	1~	180	2x RFO + R14
U 40/4	6/10	1~/3~	220	-	-	-	-	TOP-D 40	1~	220	-
VA 40/82	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~	220	F1
VA 40/86	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~	220	F1
VA 40/94	6/10	1~/3~	250	Stratos 40/1-4	1~	220	F1	TOP-S 40/4	1~	220	F1
DN 50											
A 50/4	6/10	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~	240	2x F3
A 50/41	6	1~/3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~	240	2x F3
AU 50/4	6/10	3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~	240	2x F3
G 50/2	6/10	3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
G 50/21	6/10	3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/7	3~	280	-
G 50/22	6/10	3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~	240	2x F3
G 50/23	6/10	3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~	240	2x F3
GU 50/2	6/10	3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/7	3~	280	-
LN 50/30	6/10	3~	280	Stratos 50/1-8	1~	240	2x F3	TOP-S 50/4	1~	240	2x F3
LN 50/60	6/10	3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/4	1~	240	2x F3
NE 50/100	6/10	1~	280	Stratos 50/1-12	1~	280	-	-	-	-	-
NE 50/70	6/10	1~	280	Stratos 50/1-9	1~	280	-	-	-	-	-
SN 50/120	6/10	3~	280	Stratos 50/1-12	1~	280	-	TOP-S 50/10	3~	280	-
SN 50/70	6/10	1~/3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/7	3~	280	-
U 50	6	1~/3~	240	-	-	-	-	TOP-D 50	1~	240	-
U 50/2	6	1~/3~	240	Stratos 50/1-9	1~	280	Mod. pipe	TOP-S 50/4	1~	240	-
U 50/4	6/10	1~/3~	240	-	-	-	-	TOP-D 50	1~	240	-
VA 50/177	6/10	3~	280	Stratos 50/1-9	1~	280	-	TOP-S 50/4	1~	240	2x F3
DN 65											
A 65/4	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
AU 65/4	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
G 65/2	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
G 65/21	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
G 65/22	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
GU 65/2	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
GU 65/21	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/10	3~	340	-
LN 65/30	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
LN 65/60	6/10	3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
NE 65/100	6/10	1~	340	Stratos 65/1-9	1~	280	2x F11	-	-	-	-

*) For type-dependent energy efficiency classes see pages 5–7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
Check separately whether existing switchgears can be used.




Speck				Wilo – new							
Single pumps				High-efficiency pumps			Standard pumps*)				
				infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$			1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 65											
SN 65/120	6/10	3~	340	Stratos 65/1-12	1~	340	-	TOP-S 65/13	3~	340	-
SN 65/70	6/10	1~/3~	340	Stratos 65/1-9	1~	280	2x F11	TOP-S 65/7	3~	280	2x F11
U 70/4	6/10	1~/3~	280	-	-	-	-	TOP-D 65	3~	280	-
DN 80											
A 80/4	6/10	1~/3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
AU 80/4	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
G 80/2	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
G 80/21	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
G 80/22	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
GU 80/2	6	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
LN 80/30	6/10	3~	360	Stratos 80/1-12	1~	360	-	-	-	-	-
LN 80/60	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/7	3~	360	-
NE 80/100	6/10	1~	360	Stratos 80/1-12	1~	360	-	-	-	-	-
SN 80/120	6/10	3~	360	Stratos 80/1-12	1~	360	-	TOP-S 80/10	3~	360	-
U 80/4	6/10	1~/3~	330	-	-	-	-	TOP-D 80	1~	330	-
DN 100											
U 100/4	6/10	1~/3~	380	-	-	-	-	TOP-D 100	3~	380	-

*) For type-dependent energy efficiency classes see pages 5–7


= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilо Replacement Guide Heating

Speck				Wilо – new							
Double pumps				High-efficiency pumps				Standard pumps*)			
				 High-efficiency pumps infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				 Standard pumps*) 1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 32											
ZAU 32/43	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	Star-RSD 30/4	1~	180	2x RF3
ZAU 32/52	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZAU 32/64	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZN 32/50	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZN 32/60	6/10	1~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~/3~	220	-
ZVA 32/43	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	Star-RSD 30/4	1~	180	2x RF3
ZVA 32/52	6/10	1~/3~	220	-	-	-	-	-	-	-	-
ZVA 32/62	6/10	1~/3~	220	-	-	-	-	Star-RSD 30/4	1~/3~	180	2x RF3
ZVA 32/64	6/10	1~/3~	220	Stratos-D 32/1-8	1~	220	-	TOP-SD 32/7	1~	220	-
DN 40											
ZAU 40/4	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~/3~	250	-
ZAU 40/86	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
ZAU 40/94	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~/3~	250	-
ZLN 40/30	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~/3~	250	-
ZN 40/50	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~/3~	250	-
ZN 40/60	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
ZN 40/80	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
ZSN 40/120	6/10	3~	250	Stratos-D 40/1-12	1~	250	-	TOP-SD 40/10	3~	250	-
ZSN 40/60	6/10	3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
ZSN 40/70	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/7	1~/3~	250	-
ZVA 40/62	6	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~/3~	250	-
ZVA 40/94	6/10	1~/3~	250	Stratos-D 40/1-8	1~	220	F1	TOP-SD 40/3	1~/3~	250	-
DN 50											
ZAU 50/4	6/10	3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
ZGU 50/2	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZLN 50/30	6/10	3~	280	Stratos-D 50/1-8	1~	240	2x F3	TOP-SD 50/7	3~	280	-
ZLN 50/60	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZSN 50/120	6/10	3~	280	Stratos-D 50/1-12	1~	280	-	TOP-SD 50/10	3~	280	-
ZSN 50/70	6/10	1~/3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 50/7	3~	280	-
ZVA 50/177	6/10	3~	280	Stratos-D 50/1-9	1~	280	-	TOP-SD 40/7	1~/3~	250	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5-7

 = Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.



Speck			Wilo – new								
Double pumps			High-efficiency pumps				Standard pumps*)				
			infinitely variable, 1~ 230 V, 50 Hz Stratos $T_{min}: -10\text{ °C}/T_{max}: 110\text{ °C}$ Stratos PICO $T_{min}: +2\text{ °C}/T_{max}: 110\text{ °C}$ Stratos ECO $T_{min}: +15\text{ °C}/T_{max}: 110\text{ °C}$				1 or 3 speed stages 1~ 230 V or 3~ 400 V, 50 Hz $T_{max} = 110\text{ °C}$ or $130\text{ °C}/140\text{ °C}$				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
DN 65											
ZA 65/4	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
ZA 65/41	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
ZA 65/42	6	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
ZAU 65/4	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
ZG 65/2	6/10	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
ZG 65/21	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZG 65/22	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
ZGU 65/2	6/10	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
ZGU 65/21	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
ZLN 65/30	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
ZLN 65/60	6/10	3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 50/7	3~	280	Mod. pipe
ZSN 65/120	6/10	3~	340	DP-E 65/115-1.5/2*	3~	340	-	TOP-SD 65/13	3~	340	-
ZSN 65/70	6/10	1~/3~	340	Stratos-D 65/1-12	1~	340	-	TOP-SD 65/10	3~	340	-
DN 80											
ZAU 80/4	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 65/10	3~	340	Mod. pipe
ZG 80/2	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZG 80/21	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZG 80/22	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 65/10	3~	340	Mod. pipe
ZGU 80/2	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 80/10	3~	360	-
ZLN 80/30	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 65/10	3~	340	Mod. pipe
ZLN 80/60	6/10	3~	360	Stratos-D 80/1-12	1~	360	-	TOP-SD 65/10	3~	340	Mod. pipe
ZSN 80/120	6/10	3~	360	DP-E 80/115-2.2/2*	3~	360	-	TOP-SD 65/15	3~	340	Mod. pipe

*) For type-dependent energy efficiency classes see pages 5–7

= Replacement pumps in accordance with EnEV (German Energy Saving Ordinance)

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Secondary Hot Water Circulation



Wilo				Wilo – new						
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps			
 				infinitely variable, 1 ~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$			1 or 3 stages 1 ~ 230V or 3 ~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note
				* Star-Z NOVA available from January 2010			** Star-Z 15 will be replaced by Star-Z NOVA from 2010			
R ½										
Star-Z 15	10	1~	84	Star-Z NOVA service motor*	1~	-	Star-Z 15 service motor**	1~	-	-
Star-Z 15 A	10	1~	138	Star-Z NOVA service motor*	1~	-	Star-Z 15 service motor**	1~	-	-
Star-Z 15 A (APress)	10	1~	138	Star-Z NOVA service motor*	1~	-	Star-Z 15 service motor**	1~	-	-
Star-Z 15 C (CPress)	10	1~	138	Star-Z NOVA service motor*	1~	-	Star-Z 15 service motor**	1~	-	-
Star-Z 15 TT (TTPress)	10	1~	138	-	-	-	Star-Z 15 TT service motor	1~	-	-
Z 15	10	1~	84	Star-Z NOVA service motor*	1~	-	Star-Z 15 service motor**	1~	-	-
Rp ½ (Pump thread G 1)										
Star-Z 20/1	10	1~	140	-	-	-	Star-Z 20/1	1~	140	-
Z 20	10	1~	140	-	-	-	Star-Z 20/1	1~	140	-
Z 20/40	10	1~	140	-	-	-	Star-Z 20/1	1~	140	-
Rp ¾ (Pump thread G 1 ¼)										
TOP-Z 20/4	10	1~/3~	150	-	-	-	TOP-Z 20/4	1~/3~	150	-
ZP 20-1	10	1~	140	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
ZP 20-2	10	1~	140	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
ZS 20-1	10	1~	140	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
ZS 20-2	10	1~	140	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
Rp 1 (Pump thread G 1 ½)										
IL-Z 25/2	10	1~/3~	180	-	-	-	IP-Z 25/2	1~/3~	180	-
IL-Z 25/6	10	1~/3~	180	-	-	-	IP-Z 25/6	1~/3~	180	-
IP-Z 25/2	10	1~/3~	180	-	-	-	IP-Z 25/2	1~/3~	180	-
IP-Z 25/6	10	1~/3~	180	-	-	-	IP-Z 25/6	1~/3~	180	-
Star-Z 25/2	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Star-Z 25/2	1~/3~	180	-
Star-Z 25/6	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Star-Z 25/6	1~/3~	180	-
Star-ZE 25/1-5	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	-	-	-
Star-ZE 25/1-5 SSM	10	1~	180	Stratos ECO-Z 25/1-5-BMS	1~	180	-	-	-	-
Stratos ECO-Z 25/1-5	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	-	-	-
Stratos-Z 25/1-8	10	1~	180	Stratos-Z 25/1-8	1~	180	-	-	-	-
TOP-Z 25/10	10	1~/3~	180	Stratos-Z 30/1-12	1~	180	Mod. pipe	TOP-Z 25/10	1~/3~	180
TOP-Z 25/6	10	1~/3~	180	Stratos-Z 25/1-8	1~	180	-	TOP-Z 25/6	1~/3~	180
TOP-ZV 25/7	10	1~/3~	180	Stratos-Z 25/1-8	1~	180	-	MOT-Z 25/6	1~/3~	-
Z 25	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180
Z 25/2	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180
Z 25/6	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180
ZP 25	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180
ZP 25-1	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180
ZP 25-2	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180
ZS 25	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps				
				infinitely variable, 1 ~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$			1 or 3 stages 1 ~ 230V or 3 ~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
				* Star-Z NOVA available from January 2010				** Star-Z 15 will be replaced by Star-Z NOVA from 2010			
Rp 1¼ (Pump thread G 2)											
Stratos-Z 30/1-12	10	1~	180	Stratos-Z 30/1-12	1~	180	-	-	-	-	-
Stratos-Z 30/1-8	10	1~	180	Stratos-Z 30/1-8	1~	180	-	-	-	-	-
TOP-Z 30/10	10	1~/3~	180	Stratos-Z 30/1-12	1~	180	-	TOP-Z 30/10	1~/3~	180	-
TOP-Z 30/7	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
TOP-ZV 30/7	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	MOT-Z 30/7	1~/3~	-	-
TOP-Z 30	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
Z 30 (220mm)	10	1~/3~	220	Stratos-Z 30/1-8	1~	180	R22	TOP-Z 30/7	1~/3~	180	R22
Z 30 (180mm)	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
ZP 30	10	1~/3~	220	Stratos-Z 30/1-8	1~	180	R22	TOP-Z 30/7	1~/3~	180	R22
ZS 30	10	1~/3~	220	Stratos-Z 30/1-8	1~	180	R22	TOP-Z 30/7	1~/3~	180	R22
DN 40											
Stratos-Z 40/1-12	6/10	1~	250	Stratos-Z 40/1-12	1~	250	-	-	-	-	-
Stratos-Z 40/1-8	6/10	1~	220	Stratos-Z 40/1-8	1~	220	-	-	-	-	-
TOP-Z 40/7	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
TOP-Z 40	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
TOP-ZV 40/4	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	MOT-Z 40/4	1~/3~	-	-
Z 40 v, Z 40 r	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
ZP 40	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
DN 50											
Stratos-Z 50/1-9	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-	-	-	-	-
TOP-Z 50/7	6/10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
TOP-Z 50	6/10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
TOP-ZV 50/6	6/10	1~/3~	280	Stratos-Z 50/1-9	1~	280	-	MOT-Z 50/6	1~/3~	-	-
Z 50 v, Z 50 r	6/10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
ZP 50	6/10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
ZS 50	6/10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
DN 65											
Stratos-Z 65/1-12	6/10	1~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-
TOP-Z 65/10	6/10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
TOP-Z 65	6/10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
TOP-ZV 65/10	6/10	3~	400	Stratos-Z 65/1-12	1~	340	2xF11	MOT-Z 65/10	3~	-	-
Z 65 v, Z 65 r	6/10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
ZP 65	6/10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
ZS 65	6/10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Secondary Hot Water Circulation

Wilо				Wilо – new							
Secondary hot water circulation pumps				High-efficiency pumps				Standard pumps			
 				infinitely variable, 1 ~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$				1 or 3 stages 1 ~ 230V or 3 ~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
				* Star-Z NOVA available from January 2010				** Star-Z 15 will be replaced by Star-Z NOVA from 2010			
DN 80											
TOP-Z 80/10	6/10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
TOP-Z 80	6/10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
Z 80 v, Z 80 r	6/10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
ZP 80	6/10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
ZS 80	6/10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Biral

Secondary hot water circulation pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

infinitely variable, 1 ~ 230V, 50Hz
 Stratos-Z $T_{min}: 0^{\circ}C / T_{max}: 80^{\circ}C$
 Stratos ECO-Z $T_{min}: +15^{\circ}C / T_{max}: 65^{\circ}C$
 Star-Z NOVA $T_{min}: +2^{\circ}C / T_{max}: 65^{\circ}C$

Type

Motor
Overall length [mm]
Adapter/
note

Standard pumps

1 or 3 stages
 1 ~ 230V or 3 ~ 400V, 50Hz
 $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$
 IP-Z = 110°C

Type

Motor
Overall length [mm]
Adapter/
note

Rp 3/4 (Pump thread G 1 1/4)


Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
NBW 10	10	1~	120	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 20/1	1~	140	Mod. pipe
NBW 12	10	1~	120	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
NBW 13	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
NBW 313	10	3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
W 10	10	1~	120	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
W 12	10	1~	120	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	IP-Z 25/2	1~/3~	180	Mod. pipe
W 13	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	TOP-Z 20/4	1~/3~	150	
W 14	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
W 313	10	3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
W 314	10	3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	TOP-Z 20/4	1~/3~	150	
WX 10	10	1~	120	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
WX 12	10	1~	120	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	IP-Z 25/2	1~/3~	180	Mod. pipe
WX 14	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe

Rp 1 1/2 (Pump thread G 2)

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
G 301	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
G 302	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
G 303	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
G 304	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
G 305	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
G 351	10	3~	210	Stratos-Z 30/1-8	1~	180	R10	TOP-Z 30/7	1~/3~	180	R10
G 352	10	3~	210	Stratos-Z 30/1-8	1~	180	R10	TOP-Z 30/7	1~/3~	180	R10
NRW 30	10	1~/3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
NRW 35	10	1~/3~	210	Stratos ECO-Z 25/1-5	1~	180	2x R6	Star-Z 25/6	1~/3~	180	2x R6
RBW 30	10	1~/3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
RBW 35	10	1~/3~	210	Stratos ECO-Z 25/1-5	1~	180	2x R6	Star-Z 25/6	1~/3~	180	2x R6
RW 1	10	1~	170	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
RW 2	10	1~	170	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
RW 30	6	1~/3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
RW 31	10	3~	170	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
RW 32	10	3~	170	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
RW 35	6	1~/3~	210	Stratos ECO-Z 25/1-5	1~	180	2x R6	Star-Z 25/6	1~/3~	180	2x R6
W 301	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
W 302	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
W 303	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
W 304	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
W 305	10	3~	190	Stratos ECO-Z 25/1-5	1~	180	2x R5	Star-Z 25/2	1~/3~	180	2x R5
W 315	10	3~	180	Stratos-Z 30/1-8	1~	180		TOP-Z 30/7	1~/3~	180	-

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1- = 1 ~ 230 V, 50 Hz single-phase, 3- = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Secondary Hot Water Circulation

Biral				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps				
 				infinitely variable, 1 ~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$			1 or 3 stages 1 ~ 230V or 3 ~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1¼ (Pump thread G 2)											
W 351	10	3~	210	Stratos-Z 30/1-8	1~	180	R10	TOP-Z 30/7	1~/3~	180	R10
W 352	10	3~	210	Stratos-Z 30/1-8	1~	180	R10	TOP-Z 30/7	1~/3~	180	R10
W 353	10	3~	210	Stratos-Z 30/1-8	1~	180	R10	TOP-Z 30/7	1~/3~	180	R10
DN 32											
NRW 30 PN16	16	1~/3~	190	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
NRW 35 PN16	16	1~/3~	210	Stratos-Z 30/1-8	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
DN 40											
BW 45	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
BW 45-1	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
BW 45-2	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
NBW 45	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
NBW 45-1	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
NBW 45-2	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
W 401	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
W 402	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
W 403	6/10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
W 451	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
W 452	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
W 453	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-



Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Grundfos				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps				
				infinitely variable, 1~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$			1 or 3 stages 1~ 230V bzw. 3~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
				* Star-Z NOVA available from January 2010				** Star-Z 15 will be replaced by Star-Z NOVA from 2010			
R ½											
UP 15-13 B	10	1~	86	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
UP 15-13 BU	10	1~	86	Star-Z Nova C	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
UP 15-13 BX	10	1~	130	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
UP 15-13 BXU	10	1~	130	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
UP 15-14 B Comfort	10	1~	80	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
UP 15-14 BT Comfort	10	1~	80	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
UP 15-14 BU Comfort	10	1~	80	Star-Z Nova C	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
UP 15-14 BUT Comfort	10	1~	80	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
Rp ¾ (Pump thread G 1¼)											
UM 20-07 N	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UM 24-08 N	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UM 25-08 N	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UM 25-12 N	10	1~/3~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UP 15-15 N	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UP 15-25 N	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UP 20-07 N	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UP 20-07 NX	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UP 20-14 BX Comfort	10	1~	110	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
UP 20-14 BXT Comfort	10	1~	110	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
UP 20-14 BXU Comfort	10	1~	110	Star-Z Nova C	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
UP 20-14 BXUT Comfort	10	1~	110	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
UP 20-15 N	10	1~/3~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UP 20-15 NX	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
UP 20-30 N	10	1~/3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
UP 20-45 N	10	1~/3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	TOP-Z 20/4	1~/3~	150	-
UP 25-30 N	10	1~/3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	TOP-Z 20/4	1~/3~	150	-
UP 25-45 N	10	1~/3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	TOP-Z 20/4	1~/3~	150	-

Grundfos

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Secondary Hot Water Circulation

Grundfos				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps				
 				infinitely variable, 1~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}\text{C}/T_{max}: 80^{\circ}\text{C}$ Stratos ECO-Z $T_{min}: +15^{\circ}\text{C}/T_{max}: 65^{\circ}\text{C}$ Star-Z NOVA $T_{min}: +2^{\circ}\text{C}/T_{max}: 65^{\circ}\text{C}$			1 or 3 stages 1~ 230V bzw. 3~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}\text{C or } 80^{\circ}\text{C}$ IP-Z = 110°C				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
				* Star-Z NOVA available from January 2010				** Star-Z 15 will be replaced by Star-Z NOVA from 2010			
Rp 1 (Pump thread G 1½)											
Alpha+ 25-40 B	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	- -	-	-	-	-
Alpha+ 25-60 B	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	- -	-	-	-	-
UM 26-20 Z	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-
UP 25-55 B	10	1~/3~	180	Stratos-Z 25/1-8	1~	180	-	TOP-Z 25/6	1~/3~	180	-
UP 25-60 B	10	1~	180	Stratos-Z 25/1-8	1~	180	-	TOP-Z 25/6	1~/3~	180	-
UP 25-80 B	10	3~	180	Stratos-Z 25/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	Mod. pipe
UP 26-35 Z	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-
UP 26-50 Z	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-
UPE 25-40 B	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	- -	-	-	-	-
UPE 25-60 B	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	- -	-	-	-	-
UPS 20-60 B	10	1~	180	Stratos-Z 25/1-8	1~	180	-	TOP-Z 25/6	1~/3~	180	-
UPS 25-40 B	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-
UPS 25-55 N	10	1~	180	Stratos-Z 25/1-8	1~	180	- -	-	-	-	-
UPS 25-60 B	10	1~	180	Stratos-Z 25/1-8	1~	180	-	TOP-Z 25/6	1~/3~	180	-
UPS 25-80 B	10	1~	180	Stratos-Z 25/1-8	1~	180	-	TOP-Z 25/10	1~/3~	180	-
Rp 1 ¼ (Pump thread G 1½)											
Magna 32-100 N	10	1~	180	Stratos-Z 30/1-12	1~	180	- -	-	-	-	-
UP 32-80 B	10	3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/10	1~/3~	180	-
UP 35 RZ	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
UP 40-75 RB	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
UP 45 RZ	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
UPE 32-80 B	10	1~	180	Stratos-Z 30/1-8	1~	180	- -	-	-	-	-
UPS 32-80 B	10	1~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/10	1~/3~	180	-
UPS 40-80 RB	10	1~/3~	180	Stratos-Z 30/1-12	1~	180	-	TOP-Z 30/10	1~/3~	180	-
DN 32 (square)											
UP 35 Z	10	1~/3~	200	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
UP 45 Z	10	1~/3~	200	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
DN 32											
Magna 32-120 FN	6/10	1~	220	Stratos-Z 30/1-12	1~	180	2x RF3	-	-	-	-
Magna UPE 32-120 FB	6/10	1~	220	Stratos-Z 30/1-12	1~	180	2x RF3	-	-	-	-
Magna UPE 32-120 FN	6/10	1~	220	Stratos-Z 30/1-12	1~	180	2x RF3	-	-	-	-
UPE 32-120 FB	6/10	1~	220	Stratos-Z 30/1-12	1~	180	2x RF3	-	-	-	-
UPE 32-80 FB	6/10	1~	220	Stratos-Z 30/1-8	1~	180	2x RF3	-	-	-	-
UPS 32-120 FB	6/10	1~/3~	220	Stratos-Z 30/1-12	1~	180	2x RF3	TOP-Z 30/10	1~/3~	180	2x RF3
UPS 32-30 FB	6/10	1~/3~	220	Stratos-Z 30/1-8	1~	180	2x RF3	TOP-Z 30/7	1~/3~	180	2x RF3
UPS 32-60 FB	6/10	1~/3~	220	Stratos-Z 30/1-8	1~	180	2x RF3	TOP-Z 30/7	1~/3~	180	2x RF3

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Secondary Hot Water Circulation





Grundfos				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps				
				infinitely variable, 1~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$			1 or 3 stages 1~ 230V bzw. 3~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
				* Star-Z NOVA available from January 2010				** Star-Z 15 will be replaced by Star-Z NOVA from 2010			
DN 40											
Magna 40-120 FN	6/10	1~	250	Stratos-Z 40/1-12	1~	250	-				
Magna UPE 40-120 FB	6/10	1~	250	Stratos-Z 40/1-12	1~	250	-				
Magna UPE 40-120 FN	6/10	1~	250	Stratos-Z 40/1-12	1~	250	-				
UMC 40-30 B	10	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UMS 40-30 B	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UP 40-50 FB	6/10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UP 40-80 FB	6	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UP 42-42 FB	10	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UP 42-50 FB	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UP 42-70 FB	6	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UP 42-80 FB	6	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UPC 40-120 B	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	-			
UPC 40-180 B	10	3~	250	Stratos-Z 40/1-12	1~	250	-				
UPC 40-60 B	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UPE 40-120 FB	6/10	1~	250	Stratos-Z 40/1-12	1~	250	-				
UPE 40-80 FB	6/10	1~	250	Stratos-Z 40/1-8	1~	220	F1-MS	-			
UPS 40-120 FB	6/10	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	-			
UPS 40-180 FB	6/10	1-/3~	250	Stratos-Z 40/1-12	1~	250	-				
UPS 40-30 FB	6/10	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UPS 40-50 FB	6/10	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UPS 40-52 FB	10	1~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UPS 40-60 B	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UPS 40-60/2 FB	6/10	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UPS 40-60/4 FB	6/10	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
UPS 42-50 FB	6/10	1-/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1-/3~	250	-
DN 50											
Magna 50-120 FN	6/10	1~	280	-	-	-	-				
Magna 50-60 FN	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-				
Magna UPE 50-120 FN	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-				
Magna UPE 50-60 FB	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-				
Magna UPE 50-60 FN	6/10	1~	250	Stratos-Z 50/1-9	1~	280	Mod. pipe	-			
UMC 50-30 B	10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
UMC 50-60 B	10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
UMS 50-30 B	10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
UMS 50-60 B	10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
UPC 50-120 B	10	3~	280	-	-	-	-				
UPC 50-60 B	10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
UPE 50-120 FB	6/10	3~	280	Stratos-Z 50/1-9	1~	280	-				
UPE 50-60 FB	6/10	1~	280	Stratos-Z 50/1-9	1~	280	-				

Grundfos

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Secondary Hot Water Circulation



Grundfos				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps				
 				infinitely variable, 1~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$			1 or 3 stages 1~ 230V bzw. 3~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
				* Star-Z NOVA available from January 2010				** Star-Z 15 will be replaced by Star-Z NOVA from 2010			
DN 50											
UPE 50-80 FB	6/10	1~	280	Stratos-Z 50/1-9	1~	280	- -		-	-	-
UPS 50-120 FB	6/10	1~/3~	280	Stratos-Z 50/1-9	1~	280	- -		-	-	-
UPS 50-180 FB	6/10	1~/3~	280	-	-	-	- -		-	-	-
UPS 50-30 FB	6/10	1~/3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
UPS 50-60/2 FB	6/10	1~/3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
UPS 50-60/4 FB	6/10	1~/3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
DN 65											
Magna 65-120 FN	6/10	1~	340	Stratos-Z 65/1-12	1~	340	- -		-	-	-
Magna 65-60 FN	6/10	1~	340	Stratos-Z 65/1-12	1~	340	- -		-	-	-
Magna UPE 65-120 FB	6/10	1~	340	Stratos-Z 65/1-12	1~	340	- -		-	-	-
Magna UPE 65-60 FB	6/10	1~	340	Stratos-Z 65/1-12	1~	340	- -		-	-	-
UMC 65-30 B	10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UMC 65-60 B	10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UMS 65-30 B	10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UMS 65-60 B	10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UPC 65-120 B	10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UPC 65-60 B	10	3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UPE 65-120 FB	6/10	3~	340	Stratos-Z 65/1-12	1~	340	- -		-	-	-
UPE 65-60 FB	6/10	1~	340	Stratos-Z 65/1-12	1~	340	- -		-	-	-
UPS 65-120 FB	6/10	1~/3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UPS 65-180 FB	6/10	3~	340	-	-	-	- -		-	-	-
UPS 65-30 FB	6/10	1~/3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UPS 65-60/2 FB	6/10	1~/3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
UPS 65-60/4 FB	6/10	1~/3~	340	Stratos-Z 65/1-12	1~	340	-	TOP-Z 65/10	3~	340	-
DN 80											
UMC 80-30 B	10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
UMC 80-60 B	10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
UMS 80-30 B	10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
UMS 80-60 B	10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
UPC 80-120 B	10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
UPE 80-120 FB	6	3~	360	-	-	-	- -		-	-	-
UPS 80-120 FB	6/10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
UPS 80-30 FB	6/10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
UPS 80-60 FB	10	3~	360	-	-	-	-	TOP-Z 80/10	3~	360	-
DN 100											
UPE 100-160 FB	6	3~	450	-	-	-	- -		-	-	-
UPS 100-30 FB	10	3~	450	-	-	-	- -		-	-	-

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

KSB				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps				
				infinitely variable, 1 ~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$			1 or 3 stages 1 ~ 230V or 3 ~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp ½ (Pump thread G 1)											
C 20-10	10	1~	140	-	-	-	-	Star-Z 20/1	1~	140	-
R 12-1 E	10	1~	140	-	-	-	-	Star-Z 20/1	1~	140	-
Rp ¾ (Pump thread G 1¼)											
C 12/15	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
C 12/15 T	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
C 12/30	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
C 12/30 T	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
C 20-15	10	1~	150	-	-	-	-	Star-Z 20/1	1~	140	Mod. pipe
C 20-30	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
Rp 1 (Pump thread G 1½)											
C 22/40	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-
C 22/40 T	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-
C 22/55	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-
C 22/55 T	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-
C 25-40	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-
C 25-60	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-
R 22-2 E	10	1~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-
25-80 (B) Rio-Eco	10	1~	180	Stratos-Z 25/1-8	1~	180	-	-	-	-	-
Rp 1¼ (Pump thread G 2)											
BZ 1 E/D	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
BZ 2 E/D	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
C 30-70 E Riotherm	10	1~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~	180	-
G 22-5 E/D	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
G 22-8 E/D	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
G 24-3 E/D	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
G 32-12 E/D	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
GG 1 E/D	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
GG 2 E/D	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
R 22-5 E/D	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
R 22-8 E/D	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
R 24-3 E/D	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
R 32-12 E/D	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
R 32-4 E/D	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
30-80 (B) Rio-Eco	10	1~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~	180	-
30-120 (B) Rio-Eco	10	1~	180	Stratos-Z 30/1-12	1~	180	-	TOP-Z 30/10	1~	180	-

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Secondary Hot Water Circulation



KSB				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps			Standard pumps				
 				infinitely variable, 1~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C / T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C / T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C / T_{max}: 65^{\circ}C$			1 or 3 stages 1~ 230V or 3~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C				
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
Rp 1¼ (Pump thread G 2)											
RG 1 E/D	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
RG 2 E/D	10	1~/3~	180	Stratos-Z 30/1-8	1~	180	-	TOP-Z 30/7	1~/3~	180	-
DN 40											
G 40-17 E/D	10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
G 42-17 E/D	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
R 40-17 E/D	10	1~/3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
R 42-17 E/D	10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	1~/3~	250	-
C 40/70 D Riotherm	6/10	3~	250	Stratos-Z 40/1-8	1~	220	F1-MS	TOP-Z 40/7	3~	250	-
40-120 (B) Rio-Eco	10	1~	250	Stratos-Z 40/1-12	1~	250	-	-	-	-	-
DN 50											
C 50/70 D Riotherm	6/10	3~	280	Stratos-Z 50/1-9	1~	280	-	TOP-Z 50/7	3~	280	-
50-90 (B) Rio-Eco	10	1~	280	Stratos-Z 50/1-9	1~	280	-	-	-	-	-
DN 65											
65-120 (B) Rio-Eco	10	1~	340	Stratos-Z 65/1-12	1~	340	-	-	-	-	-

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Loewe				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps				Standard pumps			
				infinitely variable, 1~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$				1 or 3 stages 1~ 230V or 3~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C			
Type				Type				Type			
* Star-Z NOVA available from 2010				** Star-Z 15 will be replaced by Star-Z NOVA from 2010							
PN	Motor	Overall length [mm]		Motor	Overall length [mm]		Adapter/ note	Motor	Overall length [mm]		Adapter/ note
R ½ inner											
C 151	10	1~	86	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
C 151 X	10	1~	130	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
C 151 U	10	1~	86	Star-Z NOVA C	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
C 151 XU	10	1~	130	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
Rp ¾ (Pump thread G 1¼)											
VC 222	10	1~/3~	130	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
VC 223 Y	10	1~/3~	130	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
VC 225 Y	10	1~/3~	130	Stratos-Z 30/1-8	1~	180	Mod. pipe	TOP-Z 30/7	1~/3~	180	Mod. pipe
Rp 1 (Pump thread G 1½)											
C 241 Y	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-
C 243 Y	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-
K 241 Y	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-
K 243 Y	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	-

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Secondary Hot Water Circulation

Speck				Wilo – new							
Secondary hot water circulation pumps				High-efficiency pumps				Standard-Pumpen			
 				infinitely variable, 1 ~ 230V, 50Hz Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$ Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$ Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$				1 or 3 stages 1 ~ 230V or 3 ~ 400V, 50Hz $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$ IP-Z = 110°C			
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
				*Star-Z NOVA available from January 2010				** Star-Z 15 will be replaced by Star-Z NOVA from 2010			
R ½ inner											
BN 15	10	1~	130	Star-Z NOVA*	1~	84	Mod. pipe	Star-Z 15**	1~	84	Mod. pipe
Rp ¾ (Pump thread G 1¼)											
BA 25/41	10	1~/3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 20/1	1~	140	Mod. pipe
BA 25/43	10	1~/3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
BA 25/64	10	1~/3~	150	Stratos-Z 25/1-8	1~	180	Mod. pipe	TOP-Z 30/7	1~/3~	180	Mod. pipe
BN 20/11	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 20/1	1~	140	Mod. pipe
BN 20/22	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 20/1	1~	140	Mod. pipe
BN 20/43	10	1~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
MBA 25/41	10	1~/3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 20/1	1~	140	Mod. pipe
MBA 25/43	10	1~/3~	150	Stratos ECO-Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/2	1~/3~	180	Mod. pipe
MBA 25/64	10	1~/3~	150	Stratos-Z 25/1-8	1~	180	Mod. pipe	TOP-Z 30/7	1~/3~	180	Mod. pipe
Rp 1 (Pump thread G 1½)											
BVA 25/33	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-
BVA 25/41	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-
BVA 25/43	10	1~/3~	180	Stratos ECO-Z 25/1-5	1~	180	-	Star-Z 25/2	1~/3~	180	-

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Vortex

Secondary hot water circulation pumps



Type

PN
Motor
Overall length [mm]

Wilo – new

High-efficiency pumps

infinitely variable, 1~ 230V, 50Hz
 Stratos-Z $T_{min}: 0^{\circ}C/T_{max}: 80^{\circ}C$
 Stratos ECO-Z $T_{min}: +15^{\circ}C/T_{max}: 65^{\circ}C$
 Star-Z NOVA $T_{min}: +2^{\circ}C/T_{max}: 65^{\circ}C$

Type

* Star-Z NOVA available from January 2010

Motor
Overall length [mm]
Adapter/
note

Standard pumps

1 or 3 stages
 1~ 230V or 3~ 400V, 50Hz
 $T_{max} = \text{Star-Z and TOP-Z } 65^{\circ}C \text{ or } 80^{\circ}C$
 IP-Z = 110°C

Type

** Star-Z 15 will be replaced by Star-Z NOVA from 2010

Motor
Overall length [mm]
Adapter/
note

R ½ inner

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
100	10	1~	84	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BW 150	10	1~	80	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BW 150 (90)	10	1~	90	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BW 151	10	1~	80	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BW 152	10	1~	80	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BW 153 R	10	1~	80	Star-Z NOVA C	1~	140	Mod. pipe	Star-Z 15 C	1~	140	Mod. pipe
BWZ 150	10	1~	80	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BWZ 150	10	1~	90	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BWZ 151	10	1~	80	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BWZ 152	10	1~	80	Star-Z NOVA C	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
BWZ 153 R	10	1~	80	Star-Z NOVA C	1~	140	Mod. pipe	Star-Z 15 C	1~	140	Mod. pipe

R ¾ inner

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
100 V	10	1~	120	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
100 VK	10	1~	120	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
BW 150	10	1~	120	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BWZ 150	10	1~	120	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BWZ 153 V	10	1~	110	Star-Z NOVA C	1~	140	Mod. pipe	Star-Z 15 C (CPress)	1~	140	Mod. pipe

Rp ¾ (Pump thread G 1¼)

Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
BW 150 (120)	10	1~	120	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BW 150 V	10	1~	110	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
BW 151 V	10	1~	110	-	-	-	-	Star-Z 15 TT service motor	1~	-	-
BW 152 V	10	1~	110	Star-Z NOVA A	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
BW 400	10	1~	150	Stratos-ECO Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	Mod. pipe
BW 400 V	10	1~	110	Stratos-ECO Z 25/1-5	1~	180	-	Star-Z 25/6	1~/3~	180	Mod. pipe
BWV 150	10	1~	120	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BWZ 150 (120)	10	1~	120	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BWZ 150 V	10	1~	150	Star-Z NOVA service motor*	1~	-	-	Star-Z 15 service motor**	1~	-	-
BWZ 150 V	10	1~	110	Star-Z NOVA C	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
BWZ 151 V	10	1~	110	Star-Z NOVA C	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
BWZ 153 V	10	1~	110	Star-Z NOVA C	1~	140	Mod. pipe	Star-Z 15 TT service motor	1~	-	-
BWZ 400	10	1~	150	Stratos-ECO Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
BWZ 400 V	10	1~	110	Stratos-ECO Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe

Rp 1 (Pump thread G 1½)

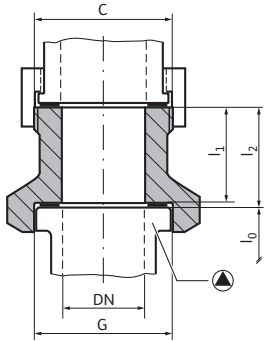
Type	PN	Motor	Overall length [mm]	Type	Motor	Overall length [mm]	Adapter/ note	Type	Motor	Overall length [mm]	Adapter/ note
BW 352	10	1~	150	Stratos-ECO Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
BW 401 V	10	1~	150	Stratos-ECO Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
BWZ 401 V	10	1~	150	Stratos-ECO Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
M 551 BW BZ	10	1~	130	Stratos-ECO Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe
M 551 BW GG	10	1~	130	Stratos-ECO Z 25/1-5	1~	180	Mod. pipe	Star-Z 25/6	1~/3~	180	Mod. pipe

Observe current type (three-phase/single-phase) and nominal pressure of pump (PN 6/PN 10)! — 1~ = 1 ~ 230 V, 50 Hz single-phase, 3~ = 3 ~ 400 V, 50 Hz three-phase
 Check separately whether existing switchgears can be used.

Wilo Replacement Guide Heating

Adapters

Wilo-R

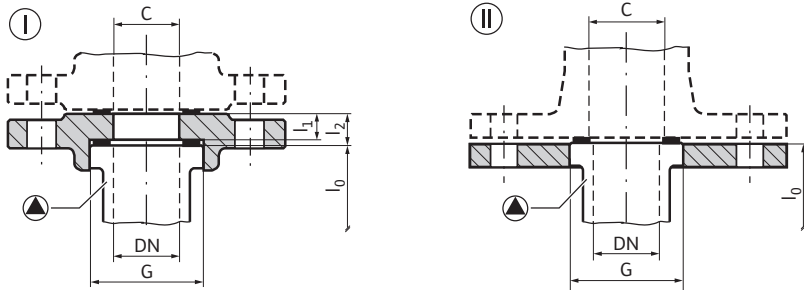


Wilo-R adapters for length compensation

	New pump		Pipe		Dimensions		Material	Weight approx.	Art no.
	DN	G	C	DN	l ₁	l ₂			
	-				[mm]		-	[kg]	
R 24	25	G 1½	R 1½	25	18	20	C.I.	0.2	110880596
R 1	25	G 1½	R 1½	25	28	30	C.I.	0.3	110786891
R 2	25	G 1½	R 1½	25	38	40	C.I.	0.5	110626790
R 5 (MS)	25	G 1½	R 2	32	3	5	MS	0.1	110678298
R 6	25	G 1½	R 2	32	13	15	C.I.	0.3	110678493
R 7	25	G 1½	R 2	32	18	20	C.I.	0.4	110787094
R 12 (MS)	25	G 1½	2¼	40	3	5	MS	0.1	110788294
R 8	32	G 2	R 2	32	18	20	C.I.	0.3	110627199
R 9	32	G 2	R 2	32	23	25	C.I.	0.4	110627291
R 10	32	G 2	R 2	32	28	30	C.I.	0.5	110627394
R 14	32	G 2	R 2	32	38	40	C.I.	0.6	110627497
R 22 (RG)	32	G 2	R 2	32	38	40	RG	0.8	110680092
R 11	32	G 2	R 2	32	68	70	C.I.	1.0	110627590

Note: The scope of delivery includes: 1 adapter and 2 gaskets

Wilo-RF



Wilo-RF flanged rings

The Wilo-RF flanged rings are – with some exceptions – for compensating the length with PN 6 flanges (RF 4, RF 5 and RF 6 also for PN 16). Length compensation with PN 10/16 flanges requires onsite pipe modifications.

Wilo-RF flanged rings

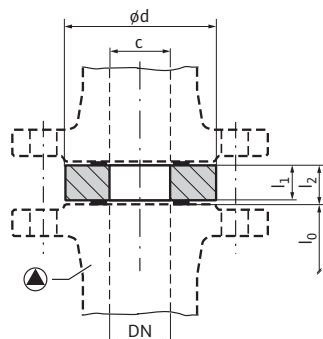
	New pump		Pipe	Design	Dimensions		Material	Weight approx.	Art no.	
	DN	G	C	–	I ₁	I ₂	–	–	PN 6	PN 10/16
	–				[mm]		–	[kg]		
RF 7	25	G 1½	DN 25	II	–	–	C.I.	0.4	110628790	–
RF 10	25	G 1½	DN 25	I	25.5	30	C.I.	1.0	110851499	–
RF 9	25	G 1½	DN 40	I	15.5	20	C.I.	1.4	110679395	–
RF 13	25	G 1½	DN 50	I	25.5	30	C.I.	1.9	110679498	–
RF 1	32	G 2	DN 32	II	–	–	C.I.	1.0	110627990	–
RF 2	32	G 2	DN 32	I	2.5	7	C.I.	1.4	110680298	–
RF 3	32	G 2	DN 32	I	15.5	20	C.I.	1.4	110680596	–
RF 4	32	G 2	DN 32	I	30.5	35	C.I.	2.5	110680699	110680791
RF 0	32	G 2	DN 40	II	–	–	C.I.	1.3	110679796	–
RF 8	32	G 2	DN 40 (square flange, hole circle D.90)	I	5.5	10	C.I.	0.9	110680997	–
RF 12	32	G 2	DN 40	I	5.5	10	C.I.	1.6	110851797	–
RF 11	32	G 2	DN 50	II	–	–	C.I.	1.7	110679899	–
RF 5	32	G 2	DN 50	I	15.5	20	C.I.	2.8	110787197	110791299
RF 6	32	G 2	DN 50	I	30.5	35	C.I.	3.0	110787290	110791391

Note: The scope of delivery includes: 1 flanged ring, 2 gaskets and screws

Wilo Replacement Guide Heating

Adapters

Wilo-F



Wilo-F intermediate flange connecting pieces

The Wilo-F intermediate flange connecting pieces are – with some exceptions – for compensating the length with PN 6 or PN 10/16 flanges. Onsite pipe modification is required if adapters are not available.

The washers included in the scope of delivery must be used for pumps that have combination flanges.

F1-MS flange pieces in bronze brass CW 612 N are approved for potable water circulation systems.

Wilo-F intermediate flange connecting pieces for length compensation

	New pump	Pipe	Dimensions			Material	Weight approx.	Art no.	
	DN	C	l_1	l_2	ϕD	–	PN6 / PN16	PN 6	PN 10/16
	–		[mm]			–	[kg]		
F 0	40	DN 40	13	15	91	C.I.	0.8/1.1	110842497	110842590
F 1	40	DN 40	28	30	91	C.I.	1.4/1.7	110586593	110586696
F 1-MS	40	DN 40	28	30	91	MS	1.3/1.9	2060865	2060920
F 26	40	DN 40	48	50	91	C.I.	2.2/2.4	110851098	110851190
F 2	50	DN 50	8	10	106	C.I.	0.7/1.0	110787690	110791494
F 3	50	DN 50	18	20	106	C.I.	1.3/1.6	110623098	110623190
F 4	50	DN 50	28	30	106	C.I.	1.7/2.0	110681292	110681395
F 5	50	DN 50	33	35	106	C.I.	2.0/2.4	110623293	110623396
F 40	50	DN 50	158	160	106	C.I.	7.4	–	2101156
F 9	65	DN 65	8	10	126	C.I.	0.9/1.3	110787896	110791690
F 10	65	DN 65	18	20	126	C.I.	1.5/1.9	110624092	110624195
F 11	65	DN 65	28	30	126	C.I.	2.2/2.5	110624298	110624390
F 28	65	DN 65	38	40	126	C.I.	2.8/3.1	110681498	110681590
F 29	65	DN 65	43	45	126	C.I.	3.1/3.4	110681693	110681796
F 41	65	DN 65	133	135	126	C.I.	8.3	–	2101157
F 16	80	DN 80	8	10	141	C.I.	1.3	110788099	–
F 17	80	DN 80	18	20	141	C.I.	2.2	110625097	–
F 30	80	DN 80	23	25	141	C.I.	2.5/2.8	110681899	110681991
F 18	80	DN 80	38	40	141	C.I.	3.7	110625292	–
F 42	80	DN 80	138	140	141	C.I.	11.6	–	2101158
F 34	100	DN 100	33	35	161	C.I.	3.9/3.8	110851293	110851396
F 35	100	DN 100	53	55	161	C.I.	5.7/6.8	110862592	110862695
F 43	100	DN 100	188	190	161	C.I.	13.3	–	2101159

Note: The scope of delivery includes: 2 gaskets and screws

Wilo Replacement Guide Heating



Adapters

Wilo-R, Wilo-RF, Wilo-F

Same pipe connection of old and new pump

Conne- ction of old pump	Conne- ction of new Wilo pump	New Wilo replacement pump is shorter by the following overall length difference ΔL_0 [mm]																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	135	140	160	190
G 1½	G 1½			Gasket		R24		R1		R2		R1+ R24										
G 2	G 2			Gasket		R8	R9	R10		R14 or R22 (RG)	R8+ R9	2xR9	R9+ R10	2x R10	R11	2x R14	R8+ R11	R10+ R11				
DN 40	DN 40				F0			F1 F1-MS				F26		2x F1- MS	F0+ F26+ Gasket			2x F26				
DN 50	DN 50			F2		F3		F4	F5	2xF3	F2+ F5	F3+ F4	F3+ F5	2xF4	2xF5							F40
DN 65	DN 65			F9		F10		F11		F28	F29	F10+ F11		2x F11	F11+ F28	2xF28	F28+ F29			F41		
DN 80	DN 80			F16		F17	F30	F16+ F17		F18		2x F30		F17+ F18	F18+ F30	2x F18					F42	
DN 100	DN 100								F34					F35		2x F34		F34+ F35				F43

Wilo-F intermediate flange connecting pieces are available in 2 versions, PN6 or PN10/16. (Exceptions: F 16, F 17 and F 18 only in PN 6).

Smaller pipe connection for new Wilo pump

Conne- ction of old pump	Conne- ction of new Wilo pump	New Wilo replacement pump is shorter by the following overall length difference ΔL_0 [mm]																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100				
G 2	G 1½			2xR5 (MS)					2xR6		2xR7											
G 2¼	G 1½			2x R12 (MS)																		
DN 25 oval flange	G 1½	2x RF7				2x RF7+ R24			2x RF7+ R1		2x RF7+ R2											
DN 25	G 1½														2x RF10		2x RF10 +R24			2x RF10 +R2		
DN 32	G 2	2x RF1			2x RF2	RF1+ RF3			RF1+ RF4	2x RF3				RF3+ RF4		2x RF4						
DN 40 square end flange	G 2					2x RF8				2x RF8+ R8	2x RF8+ R9	2x RF8+ R10		2x RF8+ R14								
DN 40	G 1½									2x RF9												
DN 40	G 2	2x RF0		RF0+ RF12		2x RF12		2x RF0+ R10		2x RF0+ R14				2x RF12 +R14	2x RF12 +F26							
DN 50	G 1½														2x RF13		2x RF13 +R24	2x RF13 +R1		2x RF13 +R2		
DN 50	G 2	2x RF11				RF11 +RF5		2x RF11 +R10		2x RF5			RF11 +RF5 +R10	RF5+ RF6		2x RF6						

Wilo-RF and Wilo-F adapters are - with some exceptions, see previous page - for compensating the length with PN 6 or PN 10/16 flanges. Onsite pipe modification is required if adapters are not available.

Technical notes for replacement

Installation position

The Wilo pump is to be installed free of any stress (at all operating conditions) with horizontal shaft in the pipe while the terminal box is on the top or on the side.

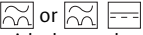
Exception:

- TOP-SD pumps have terminal boxes turned by 10° and must therefore only be installed with the flow direction to the top. Up to a nominal width of DN 65, all pumps of the Stratos/Stratos-D/Stratos-Z series as well as the TOP-S/-SD/-D/-Z series are equipped with combination flanges PN 6/10. The washers included in the delivery have to be used. It is not allowed to install a combination flange to another combination flange.

Residual current protection

Wilo pumps can be used without restriction in existing installations **with and without RCD circuit breakers**.

Note:

For **high-efficiency pumps with single-phase connection** (Stratos PI-CO, Stratos ECO-Z, Stratos, Stratos-D, Stratos-Z), the operation on RCD circuit breakers according to DIN EN 61008-1 is permitted without any impairment of the RCD function (DIN VDE 0160). Suitable RCD circuit-breakers are identified by . For energy-saving pumps with three-phase connection (IP-E/DP-E, IL-E/DL-E series), the RCD circuit breaker must be selectively universal-current-sensitive (breaking current 300 mA).

Stratos modules

Stratos single pumps

IF-Module for Stratos single pumps.

With digital interface for data exchange of control commands and messages.

Stratos-D double pumps

Stratos-D pump with 2 IF-Modules

For connection and data exchange between the two IF-Modules (accessories), the connection cable (approx. 0.7 m, 2-core) which is included in the scope of delivery of the IF-Module (only for IF-Module Stratos PLR) must be connected in the terminal boxes of the pumps.

Electrical connection

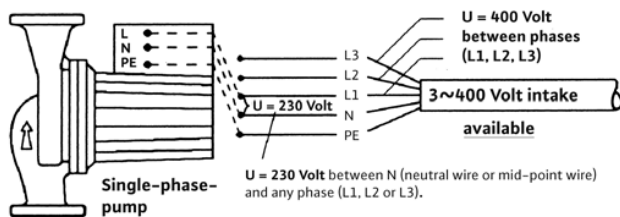
Connection of a single-phase pump

1 ~ 230 V to a three-phase mains 3 ~ 400 V

The tension between any phase (L1, L2 or L3) and the neutral conductor N is $U = 230 \text{ V}$.

If there is no neutral conductor N, a new line with a neutral conductor has to be laid.

Connecting a single-phase pump to a three-phase mains



Pump operation

Pump control

- Electrical operating conditions according to VDE 0160 are to be maintained during the operation of Wilo pumps with control devices or module accessories.
- When operating pumps in conjunction with **frequency converter makes not supplied by Wilo**, it is necessary to use **output filters** to reduce motor noise and prevent harmful voltage peaks and to adhere to the following limit values:

Glandless pumps $P_2 \leq 2.2 \text{ kW}$ and

Glanded pumps $P_2 \leq 1.1 \text{ kW}$

- **Voltage peaks $\hat{u} < 650 \text{ V}$**
- **Rate of voltage rise $du/dt < 500 \text{ V}/\mu\text{s}$**
For noise suppression on glandless pumps, it is recommended to use sine filters (LC filters) rather than du/dt filters (RC filters).

Glanded pumps $P_2 > 1.1 \text{ kW}$

- **Voltage peaks $\hat{u} < 850 \text{ V}$**
- **Rate of voltage rise $du/dt < 500 \text{ V}/\mu\text{s}$**
Installations with great cable lengths ($> 10 \text{ m}$) between converter and motor may cause increases of the du/dt and \hat{u} levels (resonance). The same may happen for operations with more than 4 motor units at one voltage source.
The output filters must be selected as recommended by the converter manufacturer or filter supplier.
The pumps must be operated at max. 95% of their rated speed if the frequency converter causes motor losses.
When operating standard pumps of the TOP-S/-SD/-D/-Z series with a frequency converter, the following limit values at the connection clamps must not be under-run:
 $U_{\min} = 150 \text{ V}$, $f_{\min} = 30 \text{ Hz}$.

Motor protection Stratos/TOP series

Motor overload protection of Stratos and TOP pumps can be ensured as follows.

- **Blocking current-proof motors: no motor protection required**
The motors are designed in such a way that the windings are not damaged in the event of an overload. This holds true for TOP-S/-SD/TOP-Z pumps both in single-phase and in three-phase versions with a max. rated motor power $P_2 = 90 \text{ watt}$. For TOP-D with $P_2 \leq 20 \text{ W}$.
- **Pumps with full motor protection (WSK) and Wilo tripping unit SK 602/622**
Realisation of full motor protection by means of thermal winding contacts (WSK) placed within the stator windings.
This holds true for TOP-S/-SD/-Z single-phase pumps with a rated motor power of $P_2 \geq 180 \text{ watt}$. For TOP-D with $P_2 \geq 60 \text{ W}$.
- **Pumps with integrated full motor protection including trip electronics**
Patented motor protection with integrated trip mechanics in the terminal box as standard in all TOP-S/-SD/-Z three-phase pumps from $P_2 < 180 \text{ watt}$ onwards as well as in all Stratos pumps.
Permanent full motor protection thanks to motor temperature monitoring in the winding.
In the event of fault, e.g. if there is impermissible motor heating caused by blocking, 2-phase operation etc.: With TOP-S/-SD/-Z pumps there is a three-pole deactivation in the terminal box of the pump motor.
A release must be effected by pushing the confirmation button at the terminal box on all TOP pumps.

Connection of Wilo-TOP.. and Stratos ... to Wilo switchgears existing onsite

Connection of Wilo-TOP... and Stratos ... to Wilo switchgears existing onsite

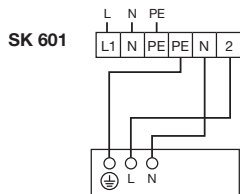
Existing Wilo-switchgear	New pump type														Accessories: Modules	
	Connection of switchgear possible according to circuit diagram														Wilo-IF-Modul Single-phase current	
	Wilo-TOP-S Wilo-TOP-Z				Wilo-TOP-SD or 2 x Wilo-TOP-S 2 x Wilo-TOP-Z				Wilo-TOP-D				Wilo-Stratos Stratos-Z	Wilo-Stratos-D or 2 x Stratos 2 x Stratos-Z	Wilo-Stratos Stratos-Z	Stratos-D or 2 x Stratos 2 x Stratos-Z
	1~		3~		1~		3~		1~		3~		1~	1~	1~	1~
	IS	WSK SSM	IS	SSM	IS	WSK SSM	IS	SSM	IS	WSK	IS	WSK				
SK 601	A	B	C ¹⁾	D ¹⁾	A	B	C ¹⁾	D ¹⁾	T	V	X ¹⁾	Y	S	S	Yes	Yes
SK 602/622	F	C	H	I	F	C	H	I	U	W	X1	Y1	J	J	Yes	Yes
SK 632	-	-	K	L	-	-	K	L	-	-	K	L	-	-	Yes	Yes
S2R 3D	-	-	-	-	M	N	O	P	-	-	-	-	-	Q or R	Yes	Yes
AR/DR/CR	-	-	-	S	-	-	-	S	-	-	-	-	-	-	-	-

IS: Internal protection against unacceptably high winding temperatures, WSK: Thermal winding contacts SSM: Collective fault signal

- = connection not possible,

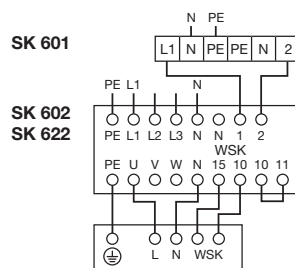
¹⁾ Only in conjunction with contactor or Wilo-SK 602/622; SK602/622 can also be used as on/off switch or contactor

Circuit diagram A
Mains 1~230 V/N/50 Hz



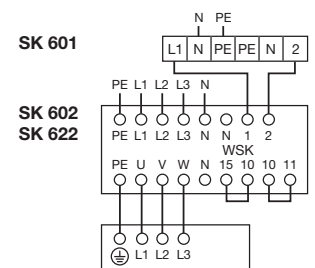
1) Wilo-TOP-S/-Z/-SD

Circuit diagram B
Mains 1~230 V/N/50 Hz



1) 3) Wilo-TOP-S/-Z/-SD

Circuit diagram C
Mains 3~400 V/N/50 Hz



1) 3) Wilo-TOP-S/-Z/-SD

1) Automatic restart after power failure

3) SK 622 with additional terminals for collective run and fault signals

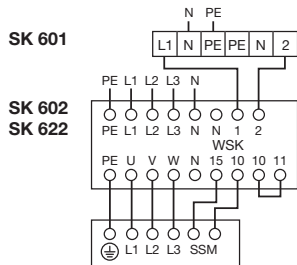
Ensure correct grounding when replacing a three-phase pump (3~400 V) with a single-phase pump (1~230 V)

Consult your Wilo representative before using Wilo pumps in conjunction with non-listed Wilo switchgears or switchgears not supplied by Wilo.

Technical notes

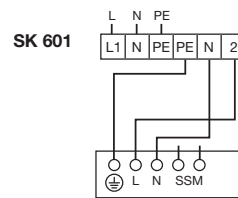
Connection of Wilo-TOP.. and Stratos ... to Wilo switchgears existing onsite

Circuit diagram D
Mains 3~400 V/N/50 Hz



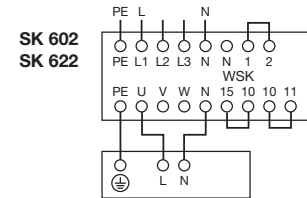
1) 2) 3) Wilo-TOP-S/-Z/-SD

Circuit diagram E
Mains 1~230 V/N/50 Hz



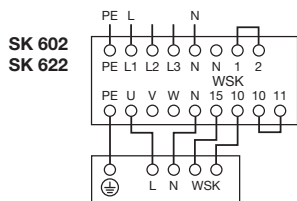
1) Wilo-Stratos/-Z/-D

Circuit diagram F
Mains 1~230 V/N/50 Hz



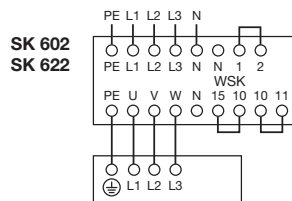
1) Wilo-TOP-S/-Z/-SD

Circuit diagram G
Mains 3~400 V/N/50 Hz



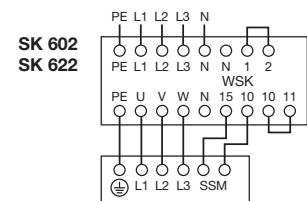
1) 3) Wilo-TOP-S/-Z/-SD

Circuit diagram H
Mains 3~400 V/N/50 Hz



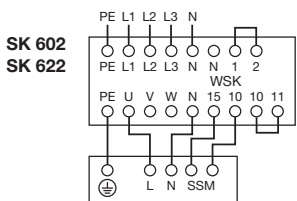
1) Wilo-TOP-S/-Z/-SD

Circuit diagram I
Mains 3~400 V/N/50 Hz



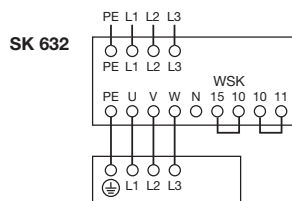
1) 2) 3) Wilo-TOP-S/-Z/-SD

Circuit diagram J
Mains 3~400 V/N/50 Hz
or 1~230 V/N/50 Hz



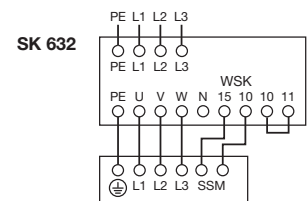
1) 2) 3) Wilo-Stratos/-Z/-D

Circuit diagram K
Mains 3~400 V/N/50 Hz



1) Wilo-TOP-S/-Z/-SD

Circuit diagram L
Mains 3~400 V/N/50 Hz



1) 2) Wilo-TOP-S/-Z/-SD

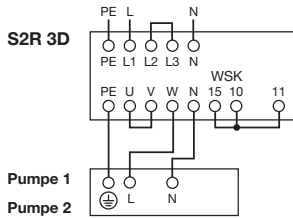
- 1) Automatic restart after power failure
- 2) After an overload fault trip of the pump (TOP or Stratos), reset first at the pump, then at the switchgear
- 3) SK 622 with additional terminals for collective run and fault signals

Ensure correct grounding when replacing a three-phase pump (3~400 V) with a single-phase pump (1~230 V).

Consult your Wilo representative before using Wilo pumps in conjunction with non-listed Wilo switchgears or switchgears not supplied by Wilo.

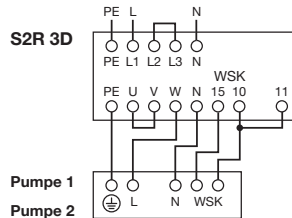
Connection of Wilo-TOP.. and Stratos ... to Wilo switchgears existing onsite

Circuit diagram M
Mains 1~230 V/N/50 Hz



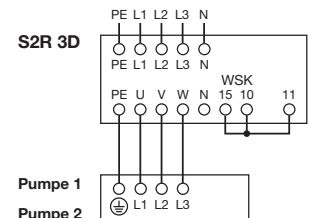
1) 3) Wilo-TOP-S/-Z/-SD

Circuit diagram N
Mains 1~230 V/N/50 Hz



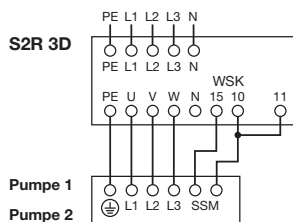
1) Wilo-TOP-S/-Z/-SD

Circuit diagram O
Mains 3~400 V/N/50 Hz



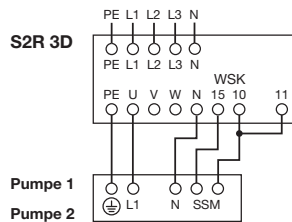
1) Wilo-TOP-S/-Z/-SD

Circuit diagram P
Mains 3~400 V/N/50 Hz



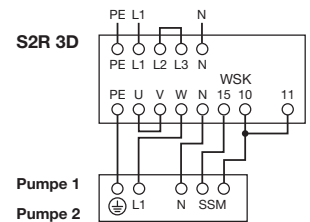
1) 2) Wilo-TOP-S/-Z/-SD

Circuit diagram Q
Mains 3~400 V/N/50 Hz



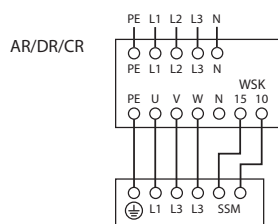
1) 2) Wilo-Stratos/-Z/-D

Circuit diagram R
Mains 1~230 V/N/50 Hz



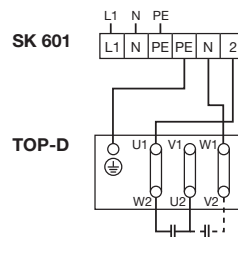
1) 2) Wilo-Stratos/-Z/-D

Circuit diagram S
Mains 3~400 V/N/50 Hz



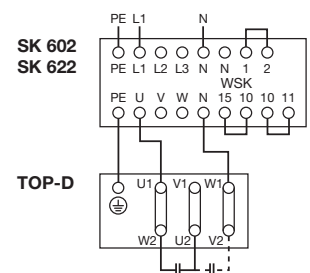
1) Wilo-TOP-S/-Z/-SD

Circuit diagram T
Mains 1~230 V/N/50 Hz



1)

Circuit diagram U
Mains 1~230 V/N/50 Hz



1)

- 1) Automatic restart after power failure
- 2) After an overload fault trip of the pump (TOP or Stratos), reset first at the pump, then at the switchgear

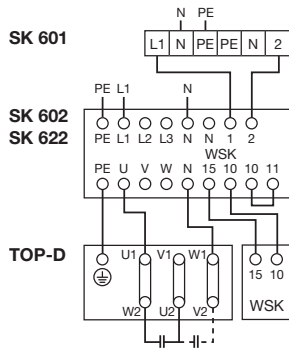
Ensure correct grounding when replacing a three-phase pump (3~400 V) with a single-phase pump (1~230 V).

Consult your Wilo representative before using Wilo pumps in conjunction with non-listed Wilo switchgears or switchgears not supplied by Wilo.

Technical notes

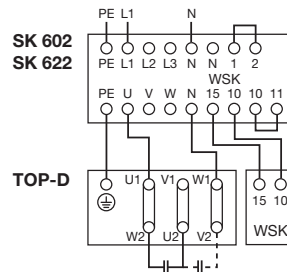
Connection of Wilo-TOP.. and Stratos ... to Wilo switchgears existing onsite

Circuit diagram V
Mains 1~230 V/N/50 Hz



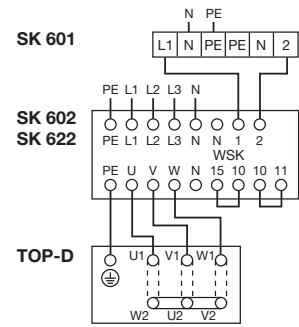
1)

Circuit diagram W
Mains 1~230 V/N/50 Hz



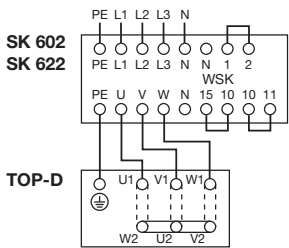
1)

Circuit diagram X
Mains 3~400 V/N/50 Hz



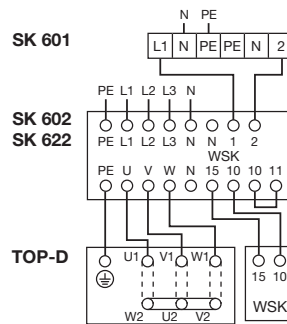
1) 3)

Circuit diagram X1
Mains 3~400 V/N/50 Hz



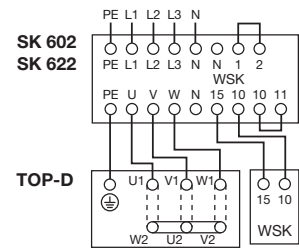
1)

Circuit diagram Y
Mains 3~400 V/N/50 Hz



1) 3)

Circuit diagram Y1
Mains 3~400 V/N/50 Hz



1) 3)

- 1) Automatic restart after power failure
- 3) SK 622 with additional terminals for collective run and fault signals

Ensure correct grounding when replacing a three-phase pump (3~400 V) with a single-phase pump (1~230 V).

Consult your Wilo representative before using Wilo pumps in conjunction with non-listed Wilo switchgears or switchgears not supplied by Wilo.

Pump check

And in the event of faults?

High operational safety, maintenance-free operation over years, energy-saving operation and the requested low noise level are the main requirements on heating circulating pumps in technical building equipment.

Modern pumps fulfill these requirements. If however a fault occurs, it may take a long time until the cause is identified.

Pump check

Pump runs

Fault	Description	Possible cause	Repair	Support
Mechanical noise	grinding, bevelling, rattling	wear of bearing, non-return flap, valve cone	change pump, avoid wobbling by changing the operating state (throttling); renew non-return flap or valve or choose different size	pump replacement list, check of the installation dimensions, the hydraulic and electrical values
	clicking	foreign matter in the pump housing or impeller	separate motor housing and pump and clean them	exchange gaskets, scrapers
Flow noise	gurgling	air in the installation, gas formation	venting, check pressure maintenance	automatic ventilation valves with air shut-off valve
	rushing, also in pipes	pump performance too high	check hydraulic output, measure Δp again, change flow volume by adjusting the gate valves, define correct pump performance / setpoint	differential pressure gauge, flow and return, installation thermometer
Cavitation noise	crackling	cavitation	increase static system pressure, choose pump with low inlet pressure (from pump catalogue)	increase nitrogen pressure and filling pressure in the diaphragm expansion tank-
Resonance noise	humming, droning, resonating	duty point at the end of the pump curve,	dress impeller to size,	Contact the Wilo customer service if nothing helped
		amplitudes too high,	modify immanent oscillation of the installation,	
		factor of speed multiplied with the blade number corresponds with the system components	choose pump with different speed	
Leakages	dropping between motor and pump housing	motor or can gaskets are faulty	change pump	heating fitter's tools
	flange or screwed gaskets are faulty	deformed installation, gaskets are too old	renew gaskets, attention: close gate valves of pump	scraper

Technical notes

Pump check

Pump runs

Fault	Description	Possible cause	Repair	Support
Pump performance too weak	wrong direction of rotation	electrical connection wrong	wire according to installation instructions, change two phases, if it is three-phase current	insulated screwdriver
	wrong delivery direction	pressure and suction port mistaken	install pumps turned by 180° in pipework	normal fitter's tools
	suction port of the impeller is blocked	foreign matter or system dirt has been taken in	separate motor and pump housing – clean impeller, remove foreign matter, wash thoroughly	screwdriver, scriber, attention: winding must not be wet
	air in the system	water or nitrogen loss	look for cause of loss, re-fill, check diaphragm expansion vessel	filling hose with hose nozzle
Pump performance too weak (continued)	motor or hand mixer closed	wrong control command	check control equipment, start mixer manually, if necessary	voltage tester, voltmeter, amperemeter, if necessary, contact control cabinet manufacturer or electrician
	speed stage too low	wrong speed stage	speed stage switch in max. position	manually or with screwdriver
	delivery head too low	wrong settings	choose higher setpoint	manually

Pump stops

Fault	Description	Possible cause	Repair	Support
Voltage at the terminal board	pump blocked	foreign matter in the impeller	separate motor and housing – remove foreign matter	screwdriver, scriber Note: winding must not be wet
		deposit in the can	deblock at the rotor shaft end-	let pump run with open shaft end and flush
	rotor can be turned easily	defect capacitor	replace	insulated screwdriver
		defect winding	measure through, check passage at the terminal board, replace pump	voltage tester, voltmeter, amperemeter, normal fitter's tools
No voltage at the terminal board	protective switch or tripping unit for full motor protection has triggered	has been set too weakly	set higher, to the specified value (operating instructions)	screwdriver 2 mm and screwdriver 10 mm, for smaller and medium pump performances block rotor, switch pump on: safety switch must trigger after max. 60 s
		speed stage of pump has been modified, but no corrections at the protective switch	different protective switch installation of tripping unit for full motor protection	
		because pump is blocked	de-block	screwdriver 10 mm
		2-phase run defect MSS	check safety fuses or automaton	visual check
		winding damage	change pump	normal fitter's tools
	safety fuse has triggered	short circuit, loose connection, fuses too weak, RCD, caused by control devices, control voltage at the contactor	thorough check of all possibilities	get electrical test devices or electrician

Dimensioning – heating pumps

Demand-oriented pump dimensioning in compliance with EnEV

The definition of the pump performance according to the actual demand is necessary if

- there have been modifications at the building, the heating system/ equipment or if the utilisation has changed.
 - the old pump is replaced or has been designed too big.
- In order keep the determination of the pump performance as simple as possible, we recommend the following calculation for the rough determination of flow volume Q and delivery head H or the use of tools (PC software, pump slide rule).

This rough calculation does not replace the heat demand calculation or piping calculation for new installations.

The correct dimensioning of heating circulating pumps and the checking of the performance is compulsory even for controlled energy-saving pumps.

The following values have to be determined:

1. Heat demand \dot{Q}_N of the building
2. Flow rate \dot{V} (or Q) of the pump
- 3.. Delivery head H of the pump

1. Heat demand \dot{Q}_N of the building

An exact calculation in accordance with DIN DIN 4701 for residential buildings is not necessary if the specific heat demand does not exceed **70 W/m²** useful area of the building or **100 W/m²** for detached houses with max. 2 flats.

$$\dot{Q}_N = \frac{\text{Useful area x spec. heat demand}}{1000} \quad [\text{kW}]$$

Note:

If a detailed heat demand calculation is done or if exact values are available from the past, these should be used.

2. Flow rate \dot{V} (Q) according to specific heat demand

Rough determination of flow volumes for pump dimensioning and pre-setting of thermostatic valves in heating installations

Spec. heat demand per m ² useful area	Spec. flow rate per m ² Useful area at $\Delta\theta$				
Residential buildings with ...	\dot{Q}_{spec}	\dot{V}_{spec} at 20 K	\dot{V}_{spec} at 15 K	\dot{V}_{spec} at 10 K	\dot{V}_{spec} at 5 K
max. 2 flats	100 W/m ²	4.3l/h	5.7l/h	8.6l/h	17.2l/h
more than 2 flats	70 W/m ²	3.0l/h	4.0l/h	6.0l/h	12.0l/h
Low-energy house-standard	≤ 40 W/m ²	≤ 1.7 l/h	≤ 2.3 l/h	≤ 3.4 l/h	≤ 6.8 l/h

$$Q_{\text{pu}} = A_N \cdot \dot{V}_{\text{pu}} \text{ OR } \dot{V}_{\text{spec}} \quad [\text{l/h}]$$

A_N The heatable useful area which is covered by the pump or the thermostatic valve [m²]

\dot{V}_{spec} Specific flow rate per m² useful area at $\Delta\theta$
 Q_{spec} Specific heat demand per m² useful area according to HeizAnIV

3. Delivery head H of the pump

(Differential pressure at flow volume)

–As the calculation of the delivery head H is very complex for existing heating systems, the following simplified methods are usually sufficient when replacing pumps:

a) Global method

Reduce delivery head of the old pump generally by approx. 25%. The resulting reduction of the pump performance is uncritical. Experience shows that these influences are compensated in the heating system by performances reserves in the radiator and wide open thermostatic valves.

b) Simplified calculation method

Simplification is permitted (e.g. negligence of branch pipes, etc.), as the influences on the total value are only minor.

$$\text{Pump delivery head: } H_{\text{pu}} = \frac{R \cdot l \cdot ZF}{10.000} \quad [\text{m}]$$

$R = 50$ to 150 [Pa/m] (old building 50 ... new building 150)

$l =$ Length of the most unfavourable branch [m] (feed + return)

$ZF =$ Allowance factor:

Adapters/fittings/thermostatic valves = 2.2
 as above, plus mixer/return flow inhibitor = 2.6

$H_{\text{pu}} =$ set delivery head of the pump as low as it needs for a trouble-free supply.

Only these loss values are crucial in circulation systems for the delivery head of the pump.

With the determined values for:

Flow rate \dot{V} (or Q) = ... m³/h and
 delivery head H = ... m

the pump selection can be done with regard to the pump curve and recommendations for the dimensioning:

- > Wilo catalogues
- > Wilo-Select (PC software)

Dimensioning – heating pumps

Wilo tips

Flow rate \dot{V} (Q) of the pump

- Select the pump type so that the determined volume flow rate is **in the right half of the pump curve**.

Delivery head H of the pump

- Set the delivery head at the pump or at a local differential pressure controller (hydraulic balancing) to max. 2 m or 20 kPa.
- Set the lowest delivery head which is sufficient for a safe heat supply, possibly determine by trial and error.
- If there are problems with the heat supply, check first the hydraulic balancing.

Use of high-efficiency and energy-saving pumps

Minimum differential pressure of pump

Must be available any time in order to guarantee the heat supply to the most unfavourably connected consumer. If there is no calculation of the piping, the differential pressure is determined by trial and error.

Maximum differential pressure of pump

The max. differential pressure in the secondary heating and control cycle shall not exceed 2 m or 20 kPa. If necessary, carry out the hydraulic balancing.

Control Δp -constant/ Δp -variabel/ Δp -constant-variabel

These control modes compensate best calculation tolerances and ensure the heat supply to all consumers at lowest power consumption.

Dimensioning – secondary hot water circulating pumps

Secondary hot water circulation pumps

Simplified calculation for selecting the right secondary hot water circulating pump in one-family homes.

For a correct dimensioning of pumps in larger secondary hot water systems, the piping system has to be calculated according to DIN 1988 and W 551 to W 553. The necessary flow rate should be based on the figures recommended in the standard and the DVGW guideline.

Determination of flow rate according to spec. heat demand

Rough determination of flow volumes for pump dimensioning and pre-setting of line shut-off valves in secondary hot water circulation systems

Volume flow rate of pumps:

$$Q_{PU} = \dot{V}_{PU} \text{ or } SV$$

$$Q_{PU} = l \cdot \dot{V}_{spec}$$

- l** The length of the supply pipes of the secondary hot water system with circulation pipe
 \dot{V}_{spec} Specific flow rate per m pipe length at ϑ
 Q_{spec} Specific heat demand per m pipe length according to W 553/Table 3
PU = Pump
SV = Line shut-off valve

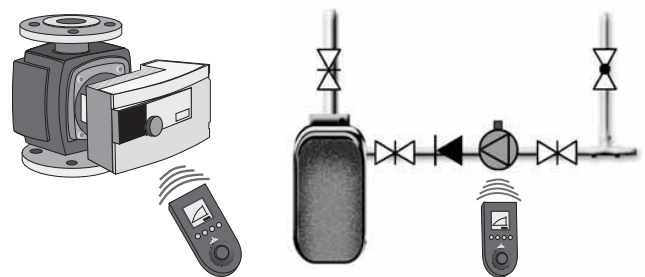
Spec. heat demand per m hot water pipe		Spec. flow rate per m hot water pipe at ϑ permitted temperature decrease			
Pipe	\dot{Q}_{spec}	\dot{V}_{spec}	\dot{V}_{spec}	\dot{V}_{spec}	\dot{V}_{spec}
		at 2 K	at 3 K	at 4 K	at 5 K
Freely run in the basement/ non-heated rooms	11 W/m	4.6l/h	3.1l/h	2.3l/h	1.8l/h
Run in a shaft or in the wall	7 W/m	2.9l/h	1.9l/h	1.5l/h	1.2l/h

Setting of the delivery head

$$\text{Pump delivery head: } H_{PU} = \frac{R \times l \times ZF}{10.000} \text{ [m]}$$

- R** = 50 to 500 [Pa/m]
l = Length of the most unfavourable line of the hot water supply [m]
ZF = Allowance factor: Adapters/fittings/line shut-off valves = 2.0
 H_{PU} = Set delivery head of the pump as low as it needs for a trouble-free supply.

High-efficiency circulation pump Wilos-Stratos-Z



Function:

- Adaptation of the pump performance to the actual demand in order to
- Avoid valve noise
 - Reduce power consumption
 - Avoid flow erosions.

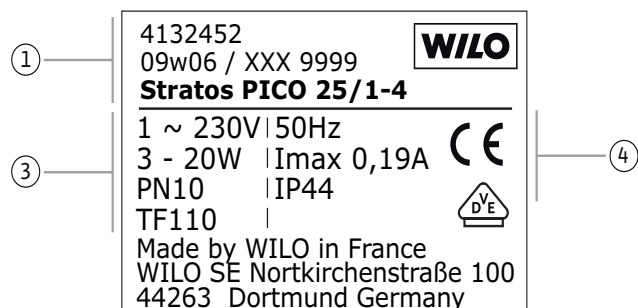
Note:

- If the delivery head of the pump is chosen too high $H_{PU} > 2 \text{ m}$ this will lead up to noise and higher power consumption.
- Two differential pressure control modes $\Delta p-c$ (constant) or $\Delta p-v$ (variable) are possible.

Name plates

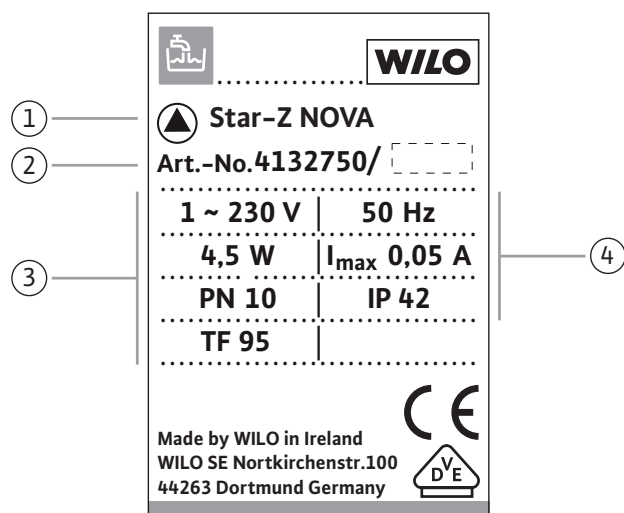
Wilo-Stratos PICO and Wilo-Star-Z NOVA

Name plate designation of Wilo-Stratos PICO range



- 1 Art.-No./manufacturing date, series/pump type
- 3 Voltage, power consumption, nominal pressure of pump, max. fluid temperature
- 4 Frequency, max. power consumption, protection class IP

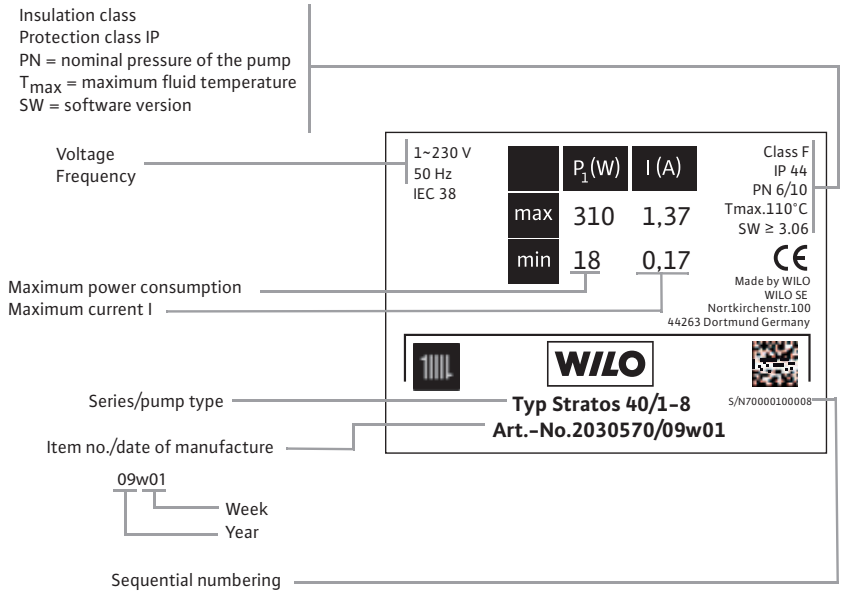
Name plate designation Wilo-Star-Z NOVA



- 1 Series/pump type
- 2 Art.-No./manufacturing date
- 3 Voltage, power consumption, nominal pressure of pump, max. fluid temperature
- 4 Frequency, max. power consumption, protection class IP

Wilo-Stratos and Wilo-TOP

Name plate designation of Wilo-Stratos range

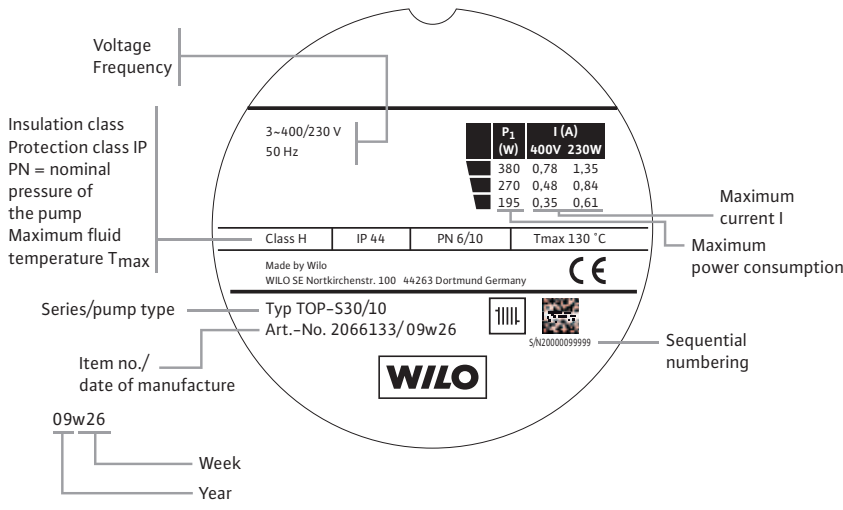


Standard version

Series short mark for the Wilo-Stratos range

Type	Design
Wilo-...	High-efficiency pumps, infinitely variable speed
Stratos	Single pump
Stratos-D	Double pump
Stratos-Z	Single pump for secondary hot water circulation systems

Name plate designation Wilo-TOP range



Standard version

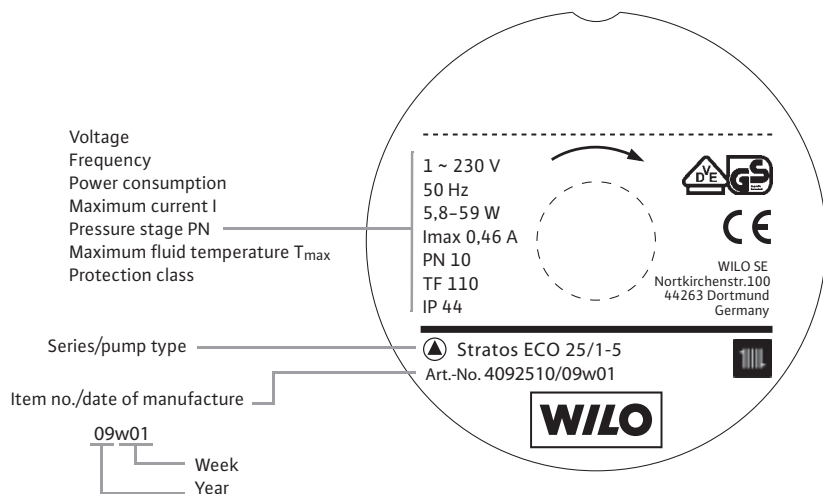
Series short mark for the Wilo-TOP range

Type	Design
Wilo-...	Standard pumps, 2 or 3 speed stages
TOP-S	Single pump
TOP-SD	Double pump
TOP-D	Standard pumps, 1 speed stage
TOP-S	Circulation pumps for secondary hot water circulation systems, 3 speed stages
TOP-S	Single pump

Name plates

Wilo-Star and Wilo-Stratos ECO

Name plate designation Wilo-Star, Wilo-Stratos ECO



Standard version

Series short mark for the Wilo-Star and Wilo-Stratos ECO ranges

	Standard pumps, 3 speed stages
Star-RS	Single pump
Star-RSD	Double pump
Star-RSL	Venting pump
	Secondary hot water circulating pumps
Star-Z	Single pumps, 1 or 3 speed stages
Stratos ECO-Z	High-efficiency pump for potable water

Name plate designation of special versions

On request, some pumps can be supplied in the following special versions at additional charge (the type of the special version is indicated on the name plate):

- **130** Pump with short overall length
- **RG** Red brass version

Example

Type	Special version
Star-RS 25/4 RG	Star-RS 24/4 with red brass housing

Wilo-Star-E, Wilo-TOP-E, TOP-ED

Type key

High-efficiency pumps

Example: Wilo-Stratos 30/1-12

Stratos	Screw-end or flange-end pump	infinitely variable electronic control
Stratos-D	Flange double pump	infinitely variable electronic control
Stratos-Z	Screw-end or flange-end pump for secondary hot water circulation systems	infinitely variable electronic control
Stratos-PICO/Stratos-ECO	Screw-end pump, high-efficiency version, specially designed for 1-6-family houses	infinitely variable electronic control
Stratos ECO-Z	Screw-end pump, high-efficiency version for secondary hot water circulation systems	infinitely variable electronic control
30/	Nominal connection diameter	
1-12	Nominal delivery head range (m)	
BMS	Version with the option of connection to a building management system	
ST	Version with special hydraulics for the use in solar thermal systems	
L	Pump with connection for quick ventilation	

Standard pumps, max. 2800 1/min

Example: Wilo-Star-RS 25/6, Wilo-TOP-S 50/4

Star-RS	Screw-end pump	3 speed stages, can be set manually
Star-RSD	Double screw-end pump	3 speed stages, can be set manually
Star-Z	Screw-end pump for secondary hot water circulation systems	1/3 speed stages, can be set manually
Star ST	Screw-end pump for solar thermal systems-	3 speed stages, can be set manually
Star-RSG	Version with special hydraulics for use in geothermal systems	3 speed stages, can be set manually
TOP-S	Screw-end or flange-end pump	2 or 3 speed stages, can be set manually
TOP-S	Screw-end or flange-end pump for secondary hot water circulation systems	3 speed stages, can be set manually
TOP-SD	Screw-end or flange-end double pump	2 or 3 speed stages, can be set manually
25/	Nominal connection diameter	
6	Nominal delivery head (m) at Q = 0 m ³ /h	
EM	Version with single-phase motor	
DM	Version with three-phase motor	
L	Pump with connection for quick ventilation	

Standard pumps, max. 1400 1/min

Example: Wilo-TOP-D 40

TOP-D	Screw-end or flange-end pump	1 speed stage
40	Nominal connection diameter	