



ATAC Solutions Ltd is a leading environmental engineering company based in Maidstone, United Kingdom.

ATAC Solutions is known for its state-of-the-art liquid collection fleet and its expertise in providing bespoke turnkey wastewater process solutions.

With a focus on sustainability and accreditation in ISO 9001 & ISO 14001, the company serves domestic and industrial clients across the South-East and London.



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Axiom Water companies

Series description: Wilo-Drain TP...-AM



Design

Submersible sewage pump for mobile utilisation

Application

Mobile application for pumping wastewater and drainage water as well as sewage containing faeces, municipal and industrial sewage, including long-fibre constituents, for:

- House and site drainage
- Sewage and water management
- Environmental and water treatment technology
- Industrial and process engineering
- Emergency management
- Fire-fighting

Type key

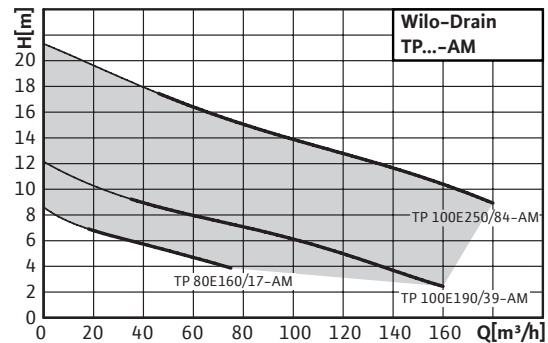
e.g.:	Wilo-Drain TP 80 E 160/17-AM
TP	Submersible pump
80	Nominal diameter [mm]
E	Single-channel impeller
160	Nominal diameter of the impeller [mm]
17	Power P_2 [kW] (=value/10 = 1.7 kW)
A	CEE plug and float switch
M	Mobile version with trolley

Special features/product advantages

- Mobile application due to installation of the pump in a trolley
- Submersible
- Low weight
- Detachable connecting cable
- Longitudinally watertight cable lead-in
- Standard-equipped with clogging-free sheath current cooling
- Corrosion-resistant (e.g. swimming-pool water, salt water, etc.)
- Low-wearing
- Patented clogging-free hydraulics

Technical data

- Mains connection: 3~400 V, 50 Hz
- Immersed and non-immersed operating modes: S1
- Protection class: IP 68
- Insulation class: F
- Max. fluid temperature: 3 40°C
- Free ball passage: 80 or 95 mm
- Max. immersion depth: 20 m



Equipment/function

- Trolley
- Thermal motor monitoring
- Leakage detection in the motor
- CEE plug including rotation direction monitoring and indication
- Float switch
- Sheath current cooling

Description/design

Submersible sewage pump as submersible monobloc unit with trolley for mobile wet well installation.

Hydraulics

The outlet on the pressure side is designed as DN 80 or DN 100 horizontal flange connection. A 90° bend is mounted here as standard with a size B or size A Storz pipe coupling. Single-channel impellers are used as the impeller shape.

Motor

Dry motors are equipped with clogging-free sheath current cooling as standard. This ensures that heat is given off directly to the fluid. As a result, these units can be operated in immersed and non-immersed state for permanent or intermittent operation.

In addition, the motor is equipped with a leakage detection unit and a thermal motor monitoring unit. A sealing chamber protects the motor from fluid ingress. The filling fluid used is potentially biodegradable and environmentally safe.

The cable length for the connecting cable and the float switch is 10 m. The connection cable is equipped with a CEE plug.

Sealing

Sealing on the fluid side and on the pump side is achieved by two bidirectional mechanical seals.

Materials

- Trolley: 1.4301 stainless steel
- Pump housing: PUR
- Impeller: PUR
- Shaft: 1.4404 stainless steel
- Mechanical seal on pump side: SiC/SiC
- Mechanical seal on motor side: C/Cr
- Static gasket: NBR
- Motor housing: 1.4404 stainless steel

Scope of delivery

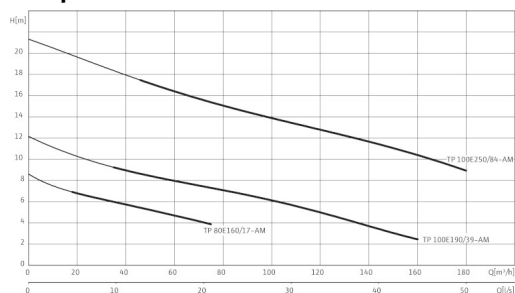
- Pump ready for connection in the trolley
- 10 m connecting cable with CEE plug
- Float switch
- Storz pipe coupling
- Installation and operating instructions

Accessories

- Pressure hoses with Storz B or Storz A uncoupling

Data sheet: Wilo-Drain TP 80E160/17-AM

Pump curves Wilo-Drain TP...-AM - 50 Hz - 1450 rpm



Pump curves in accordance with ISO 9906, Appendix A

Unit

Max. delivery head	H_{max}	9.0 m
Max. volume flow	Q_{max}	75 m³/h
Optimal delivery head	H_{opt}	4.3 m
Optimum volume flow	Q_{opt}	66.40 m³/h
Pressure port	Storz B	
Flange (in accordance with EN 1092-2)	PN	10
Free ball passage	80 mm	
Operating mode (immersed)	S1	
Operating mode (non-immersed)	S1	
Max. immersion depth	20 m	
Protection class	IP 68	
Fluid temperature	T	+3 ... +40 °C
Weight approx.	m	53 kg

Motor data

Mains connection	3~400 V, 50 Hz	
Nominal current	I_N	6.40 A
Starting current	I_A	45 A
Nominal motor power	P_2	1.70 kW
Power consumption	P_1	2 kW
Activation type	Direct	
Nominal speed	n	1450 rpm
No. of poles	4	
Insulation class	F	
Recommended switching frequency	20 1/h	
Max. switching frequency	60 1/h	
Permitted voltage tolerance	±10 %	

Cable

Length of connecting cable	10 m
Cable type	NSSHÖU
Cable cross-section	7x1,5 mm²
Type of connecting cable	Detachable
Mains plug	CEE

Equipment/function

Float switch	•
Motor protection	WSK
Explosion protection	—



Data sheet: Wilo-Drain TP 80E160/17-AM

Materials

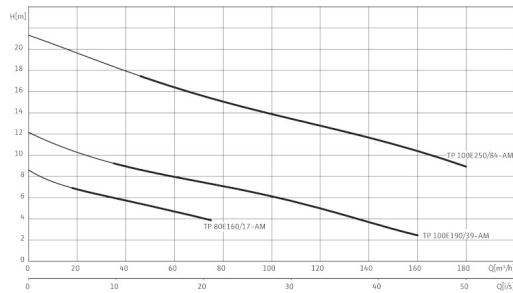
Static seal	NBR
Impeller	PUR
Sealing on motor side	C/Cr
Mechanical seal	SiC/SiC
Motor housing	1.4404
Pump housing	PUR
Pump shaft	1.4404

Information for order placements

Make	Wilo
Art no.	6047424
EAN number	4044966496596
Ready for delivery	Order-specific production approx. 4 weeks
Price group	W6

Data sheet: Wilo-Drain TP 100E190/39-AM

Pump curves Wilo-Drain TP...-AM - 50 Hz - 1450 rpm



Pump curves in accordance with ISO 9906, Appendix A

Unit

Max. delivery head	H_{max}	12.0 m
Max. volume flow	Q_{max}	160 m³/h
Optimal delivery head	H_{opt}	6.3 m
Optimum volume flow	Q_{opt}	95.80 m³/h
Pressure port		Storz A
Flange (in accordance with EN 1092-2)	PN	10
Free ball passage		95 mm
Operating mode (immersed)		S1
Operating mode (non-immersed)		S1
Max. immersion depth		20 m
Protection class		IP 68
Fluid temperature	T	+3 ... +40 °C
Weight approx.	m	71 kg

Motor data

Mains connection		3~400 V, 50 Hz
Nominal current	I_N	12.50 A
Starting current	I_A	73 A
Nominal motor power	P_2	3.90 kW
Power consumption	P_1	5 kW
Activation type		Direct
Nominal speed	n	1450 rpm
No. of poles		4
Insulation class		F
Recommended switching frequency		20 1/h
Max. switching frequency		60 1/h
Permitted voltage tolerance		±10 %

Cable

Length of connecting cable		10 m
Cable type		NSSHÖU
Cable cross-section		10x1,5 mm²
Type of connecting cable		Detachable
Mains plug		CEE

Equipment/function

Float switch		•
Motor protection		WSK
Explosion protection		–



Data sheet: Wilo-Drain TP 100E190/39-AM

Materials

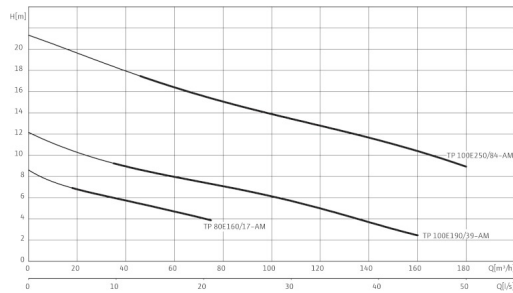
Static seal	NBR
Impeller	PUR
Sealing on motor side	C/Cr
Mechanical seal	SiC/SiC
Motor housing	1.4404
Pump housing	PUR
Pump shaft	1.4404

Information for order placements

Make	Wilo
Art no.	6047430
EAN number	4044966496657
Ready for delivery	Order-specific production approx. 4 weeks
Price group	W6

Data sheet: Wilo-Drain TP 100E250/84-AM

Pump curves Wilo-Drain TP...-AM - 50 Hz - 1450 rpm



Pump curves in accordance with ISO 9906, Appendix A

Unit

Max. delivery head	H_{max}	21.0 m
Max. volume flow	Q_{max}	180 m³/h
Optimal delivery head	H_{opt}	12.3 m
Optimum volume flow	Q_{opt}	128 m³/h
Pressure port		Storz A
Flange (in accordance with EN 1092-2)	PN	10
Free ball passage		95 mm
Operating mode (immersed)		S1
Operating mode (non-immersed)		S1
Max. immersion depth		20 m
Protection class		IP 68
Fluid temperature	T	+3 ... +40 °C
Weight approx.	m	71 kg

Motor data

Mains connection		3~400 V, 50 Hz
Nominal current	I_N	18.80 A
Starting current	I_A	127 A
Nominal motor power	P_2	8.40 kW
Power consumption	P_1	10.60 kW
Activation type		Direct
Nominal speed	n	1450 rpm
No. of poles		4
Insulation class		F
Recommended switching frequency		20 1/h
Max. switching frequency		60 1/h
Permitted voltage tolerance		±10 %

Cable

Length of connecting cable		10 m
Cable type		NSSHÖU
Cable cross-section		10x1,5 mm²
Type of connecting cable		Detachable
Mains plug		CEE

Equipment/function

Float switch		•
Motor protection		WSK
Explosion protection		–



Data sheet: Wilo-Drain TP 100E250/84-AM

Materials

Static seal	NBR
Impeller	PUR
Sealing on motor side	C/Cr
Mechanical seal	SiC/SiC
Motor housing	1.4404
Pump housing	PUR
Pump shaft	1.4404

Information for order placements

Make	Wilo
Art no.	6047433
EAN number	4044966496688
Ready for delivery	Order-specific production approx. 4 weeks
Price group	W6