



atac

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.

ATAC Solutions Ltd,
Unit A9, Loc 8 Business Park, Ashford Road,
Hollingbourne, Maidstone, England, ME17 1WR

 [atacsolutions.com](https://www.atacsolutions.com)
 01622 882400

Axiom Water companies

Series description: Wilo-Drain TC 40



Design

Submersible sewage pump

Application

Pumping heavily contaminated fluids for

- House/site drainage
- Sewage disposal (the pumping of sewage containing faeces is not within the scope of DIN EN 12050-1)
- Environmental and water treatment technology

Type key

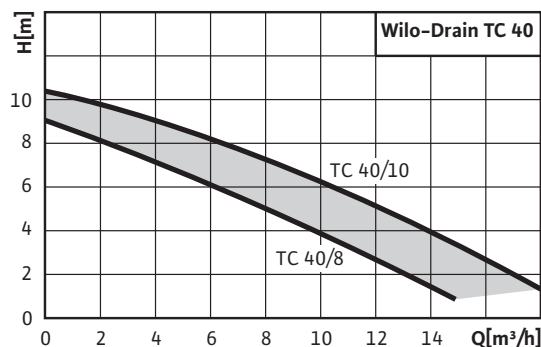
e.g.:	WiloDrain TC 40/10
T	Submersible pump
C	Hydraulic housing made of cast iron
40	Nominal diameter [mm]
10	Max. delivery head [m]

Special features/product advantages

- Heavy-duty hydraulic housing made of cast iron
- Easy operation due to the attached float switch
- Integrated stainless steel pump base for easy installation
- Free ball passage: 40 mm

Technical data

- Mains connection: 1~230 V, 50 Hz
- Immersed operating mode: S1 or S3 25%
- Surfaced operating mode: S3 25%
- Protection class: IP 68
- Insulation class: F
- Thermal winding monitoring
- Max. fluid temperature: 3 40 °C
- Cable length: 5 m
- Free ball passage: 40 mm
- Max. immersion depth: 5 m



Equipment/function

- Ready-to-plug
- Including float switch
- Thermal motor monitoring

Description/design

Submersible sewage pump as submersible monobloc unit for stationary and portable wet well installation.

Hydraulics

The outlet on the pressure side is designed as vertical threaded connection Rp 1½. Vortex impeller are used as the impeller shapes.

Motor

The oil-filled motors give off heat directly to the pumped fluid via an integrated heat exchanger. As a result, these motors can be used in immersed state for permanent and intermittent operation. In non-immersed state, these motors can be used for intermittent operation. A sealing chamber protects the motor from fluid ingress. The filling fluid used is potentially biodegradable and environmentally safe.

The motor cable and float switch can be detached and replaced.

Sealing

Sealing on the fluid side is achieved by a bidirectional mechanical seal, while sealing on the motor side is achieved by a rotary shaft seal.

Materials

- Pump housing: EN-GJL-200
- Pedestal: stainless steel
- Impeller: PA 30GF
- Shaft: stainless steel 1.4005
- Mechanical seal on pump side: carbon/ceramic
- Shaft seal on motor side: NBR
- Static gasket: NBR
- Motor housing: stainless steel 1.4308

Scope of delivery

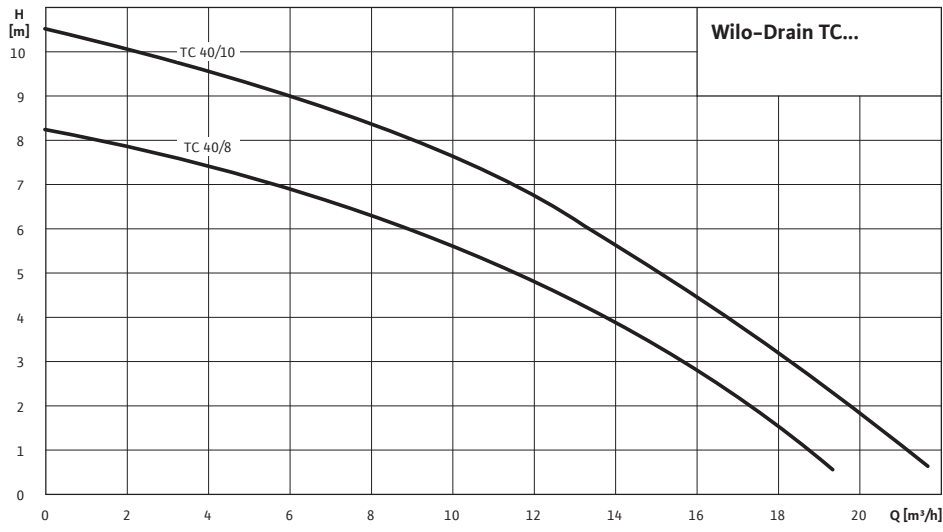
- Pump ready for connection with 5 m connecting cable and shock-proof plug
- With attached float switch
- Installation and operating instructions

Accessories

- Non-return valve and gate valve
- Various pressure outlets and hoses
- Switchgears and relays

Duty chart: Wilo-Drain TC 40

Duty chart





Equipment/function: Wilo-Drain TC 40

Design

Submersible	•
Single-channel impeller	–
Vortex impeller	•
Multi-channel impeller	–
Open multi-channel impeller	–
Macerator	–
Turbulator	–
Sealing chamber	–
Leakage chamber	–
Sealing for mechanical seal on motor side	–
Sealing for rotary shaft seal on motor side	•
Sealing for mechanical seal on fluid side	•
Single-phase AC motor	•
Three-phase motor	–
Direct activation	•
Star-delta activation	–
FC operation	–
Dry motor	–
Motor with oil cooling	•
Dry motor with closed-circuit cooling	–

Application

Wet well installation, stationary	–
Wet well installation, portable	•
Dry well installation, stationary	–
Dry well installation, portable	–

Equipment/function

Motor leakage monitoring	–
Sealing chamber monitoring	–
Leakage chamber monitoring	–
Motor temperature monitoring, bimetal	•
Motor temperature monitoring, PTC	–
Explosion protection	–
Float switch	•
Capacitor box for 1~230 V	•
Ready-to-plug	integrated
	•

Materials

Pump housing	Cast iron
Impeller	Cast iron
Motor housing	Cast iron

• = available, – = not available



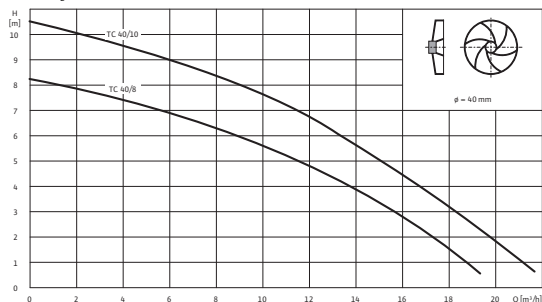
01622 882400 /
info@atacsolutions.com

Product list: Wilo-Drain TC 40

Pump type	Mains connection	Max. volume flow	Max. delivery head	Nominal current	Nominal motor power	Max. immersion depth	Art no.
		$Q_{max}/m^3/h$	H_{max}/m	I_N/A	P_2/kW		
TC 40/8	1~230 V, 50 Hz	19	8	3.30	0.50	5	4050131
TC 40/10	1~230 V, 50 Hz	22	10	4.50	0.60	5	4050132

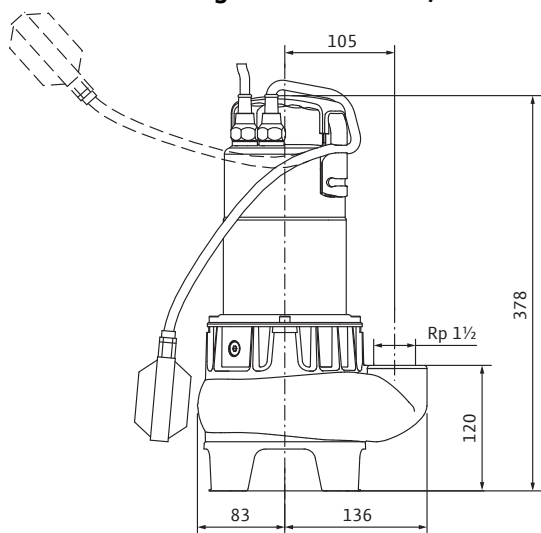
Data sheet: Wilo-Drain TC 40/10

Pump curves Wilo-Drain TC 40 - 50 Hz - 2900 rpm



Pump curves in accordance with ISO 9906, Appendix A.

Dimension drawing Wilo-Drain TC 40/10



Unit

Max. delivery head	H_{max}	10.5 m
Max. volume flow	Q_{max}	22 m ³ /h
Pressure connection		Rp 1½
Free ball passage		40 mm
Operating mode (immersed)		S1 S3-25%
Operating mode (non-immersed)		S3-25%
Max. immersion depth		5 m
Protection class		IP 68
Fluid temperature	T	+3 ... +40 °C
Weight approx.	m	12 kg

Motor data

Mains connection		1~230 V, 50 Hz
Nominal current	I_N	4.50 A
Nominal motor power	P_2	0.60 kW
Power consumption	P_1	0.94 kW
Power factor	$\cos \varphi$	0.93
Activation type		Direct
Nominal speed	n	2900 rpm
Insulation class		F
Recommended switching frequency		20 1/h
Max. switching frequency		30 1/h
Permitted voltage tolerance		±10 %

Cable

Length of connecting cable		5 m
Cable type		H07RN-F
Cable cross-section		3G1 mm ²
Type of connecting cable		Detachable
Mains plug		Shock-proof

Equipment/function

Float switch		•
Motor protection		WSK

Materials

Static seal		NBR
Impeller		PA 30GF
Sealing on motor side		NBR



01622 882400 /
 info@atacsolutions.com

Data sheet: Wilo-Drain TC 40/10

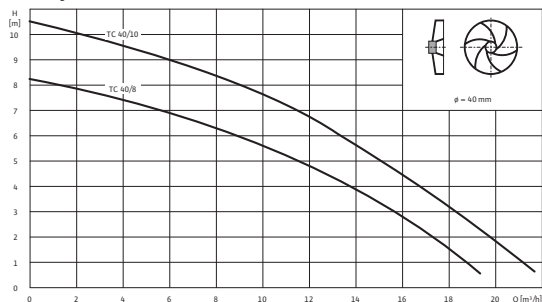
Mechanical seal	Carbon/ceramic
Motor housing	1.4308
Pump housing	EN-GJL-200
Pump shaft	1.4005

Information for order placements

Make	Wilo
Art no.	4050132
EAN number	4016322477358
Ready for delivery	Stock
Price group	W6

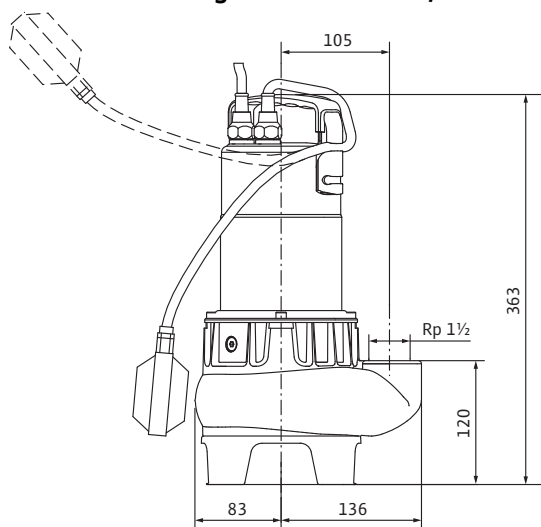
Data sheet: Wilo-Drain TC 40/8

Pump curves Wilo-Drain TC 40 - 50 Hz - 2900 rpm



Pump curves in accordance with ISO 9906, Appendix A.

Dimension drawing Wilo-Drain TC 40/8



Unit

Max. delivery head	H_{max}	8.0 m
Max. volume flow	Q_{max}	19 m ³ /h
Pressure connection		Rp 1½
Free ball passage		40 mm
Operating mode (immersed)		S1 S3-25%
Operating mode (non-immersed)		S3-25%
Max. immersion depth		5 m
Protection class		IP 68
Fluid temperature	T	+3 ... +40 °C
Weight approx.	m	9.50 kg

Motor data

Mains connection		1~230 V, 50 Hz
Nominal current	I_N	3.30 A
Nominal motor power	P_2	0.50 kW
Power consumption	P_1	0.66 kW
Power factor	$\cos \varphi$	0.94
Activation type		Direct
Nominal speed	n	2900 rpm
Insulation class		F
Recommended switching frequency		20 1/h
Max. switching frequency		30 1/h
Permitted voltage tolerance		±10 %

Cable

Length of connecting cable		5 m
Cable type		H07RN-F
Cable cross-section		3G1 mm ²
Type of connecting cable		Detachable
Mains plug		Shock-proof

Equipment/function

Float switch		•
Motor protection		WSK

Materials

Static seal		NBR
Impeller		PA 30GF
Sealing on motor side		NBR



01622 882400 /
 info@atacsolutions.com

Data sheet: Wilo-Drain TC 40/8

Mechanical seal	Carbon/ceramic
Motor housing	1.4308
Pump housing	EN-GJL-200
Pump shaft	1.4005

Information for order placements

Make	Wilo
Art no.	4050131
EAN number	4016322477341
Ready for delivery	Stock
Price group	W6