



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.



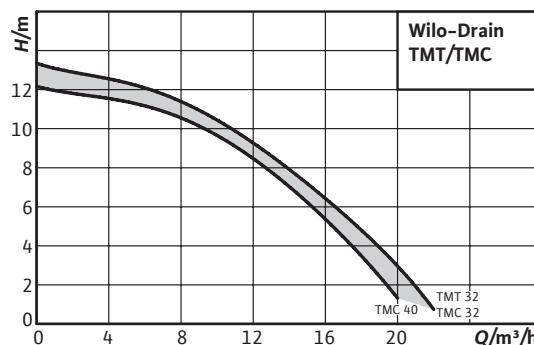
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Axiom Water companies



## Series description: Wilo-Drain TMT/TMC



### Design

Submersible wastewater pump for fluid temperatures up to 95 °C

### Application

For industrial use, e.g. for condensate, hot water and aggressive fluids.

### Type key

Example:	<b>Wilo-Drain TMC 32M113/7.5x</b>
<b>TM</b>	Submersible motor pump for hot water
	Version
<b>T</b>	T = for hot wastewater up to 95 °C C = for industrial wastewater up to 95 °C
	Nominal diameter of the pressure port
<b>32</b>	32 = Rp 1¼ 40 = Rp 1½
	Impeller version
<b>M</b>	H = Semi-open channel impeller M = Multi-channel impeller
<b>113</b>	Impeller diameter in mm
<b>7.5</b>	/10 = nominal motor power in kW
	Material version
<b>x</b>	Ci = Grey cast iron Br = Bronze St = Cast stainless steel

### Special features/product advantages

- For fluid temperatures up to 95 °C
- Versions made of bronze or stainless steel for aggressive media
- Cable inlet (cast)
- Temperature monitoring for motor winding (TMT 32...)

### Technical data

- Mains connection: 3~400 V, 50 Hz
- Protection class: IP 68
- Max. immersion depth: TMT 32: 7 m; TMC 32: 5 m; TMC 40: 5 m
- Fluid temperature: immersed = 3 – 95 °C
- Cable length: 10 m
- Free ball passage: 9 mm
- Pressure port: TMT 32...: G 1¼; TMC 32...: Rp 1¼; TMC 40: Rp 1½

### Equipment/function

- Connecting cable, permanently connected
- Winding temperature monitoring with bimetallic strip (TMT 32... only)

### Materials

“Ci” version

- Pump housing: EN-GJL-250
- Impeller: EN-GJL-250
- Shaft: 1.4021
- Mechanical seal: SiC/SiC; carbon/steatite
- Static gaskets: HNBR
- Motor housing: EN-GJL-250

“Br” version

- Pump housing: G-CuSn10
- Impeller: G-CuSn10
- Shaft: 1.4122
- Mechanical seal: double, carbon/ceramic
- Static gaskets: Viton
- Motor housing: G-CuSn10

“St” version

- Pump housing: 1.4408
- Impeller: 1.4408
- Shaft: 1.4571
- Mechanical seal: double, carbon/ceramic
- Static gaskets: PTFE/Teflon
- Motor housing: 1.4408

### Description/design

Fully submersible wastewater pump for vertical wet well installation, for pumping of chemically contaminated fluids with temperatures of up to max. 95 °C (depending on the material used: cast iron, bronze or cast stainless steel).

### Hydraulics

The hydraulics housing and the impeller are, depending on type, made of cast iron, bronze or cast stainless steel. The connection on the pressure side is designed as horizontal threaded flange connection.

### Motor (TMT...)

Three-phase current glanded motors for direct starting are used as the motors. The waste heat is given off directly to the surrounding fluid via the motor housing. These motors can be operated immersed in continuous duty (S1) and non-immersed in intermittent operation (S3). The pump-sided and motor-sided sealing is done by two mechanical shaft seals. The sealing chamber between the mechanical shaft seals is filled with white oil.

Furthermore the motors are equipped with the following monitoring devices:

- Leakage detection motor compartment. The leakage detection signals water ingress into the motor compartment.

## Series description: Wilo-Drain TMT/TMC

- Thermal motor monitoring. The thermal motor monitoring protects the motor windings against overheating. Bimetallic strips are used for this as standard.

The connecting cable has bare cable ends and a length of 10 m as standard, and is available in following versions:

### **Motor (TMC...)**

The motor is a self-cooling, interference-suppressed three-phase motor and is, depending on type, made of cast iron, bronze or cast stainless steel. The cooling of the motor is done by the oil in the motor. The waste heat is given off to the pumped and surrounding fluid via the housing components. For this reason, the unit can be used immersed in continuous duty and non-immersed in intermittent operation.

The pump-sided and motor-sided sealing is done by two mechanical shaft seals. The sealing chamber between the mechanical shaft seal is filled with a lubrication oil of class C in accordance with DIN 51517.

The cable is heat resistant and the cable inlet is cast in the motor housing. The cable has a length of 10 metres and has bare ends. In the cast stainless steel version, another cable protection hose is also delivered.

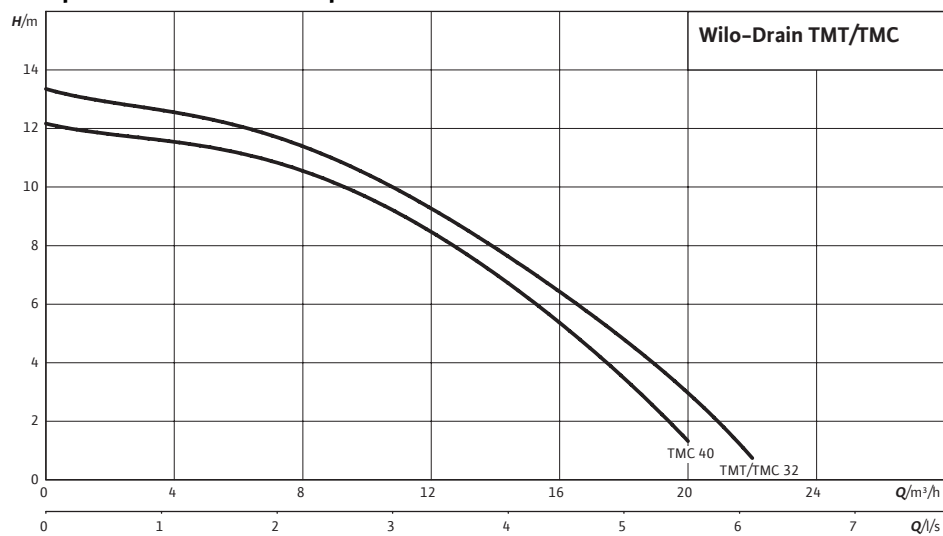
### **Scope of delivery**

Pump with rigidly connected supply line with bare cable end, and installation and operating instructions.



Duty chart: Wilo-Drain TMT/TMC

Pump curves - 50 Hz No. of poles: 2



## Equipment/function: Wilo-Drain TMT/TMC

### Design

Submersible	•
Non-self-priming	•
Open single-channel impeller	–
Vortex impeller	–
Open multi-channel impeller	•
Turbulator	–
Sealing chamber	–
Sealing by mechanical seal on motor side	•
Sealing by rotary shaft seal on motor side	–
Sealing by mechanical seal on fluid side	•
Seal for rotary shaft seal on fluid side	–
AC motor	–
Three-phase motor	•
Direct activation	•
Star-delta activation	–
FC operation	–
dry motor	•
Motor with oil cooling	•
Sheath current cooling	–

### Application

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

### Equipment/function

Explosion protection	–
Hose connection	–
Float switch	–
Non-return valve	–
Capacitor box for 1~230 V	–
Connecting cable detachable	–
Ready-to-plug	–

• = available or approved, – = not available or not approved

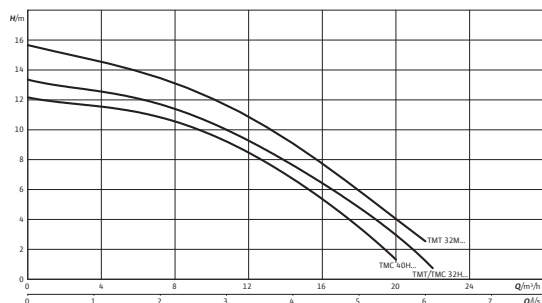
## Product list: Wilo-Drain TMT/TMC

Pump type	Mains connection	Max. volume flow	Max. delivery head	Optimum volume flow	Optimal delivery head	Art no.
		$Q_{max}/m^3/h$	$H_{max}/m$	$Q_{opt}/m^3/h$	$H_{opt}/m$	
TMC 32H102/7,5Br	3~400 V, 50 Hz	22	13	12	10	120549299
TMC 40H102/7,5St	3~400 V, 50 Hz	20	12	11	9	120654899
TMT 32H102/7,5Ci	3~400 V, 50 Hz	22	13			120549093

# Data sheet: Wilo-Drain TMT 32H102/7,5Ci

## Pump curves Wilo-Drain TMT/TMC - 50 Hz - No. of poles:

2



Pump curves in accordance with ISO 9906, Appendix A

## Unit

Max. delivery head	$H_{max}$	13 m
Max. volume flow	$Q_{max}$	22 m³/h
Pressure connection		Rp 1¼
Maximum operating pressure	$p_{max}$	1.4 bar
Free ball passage		9 mm
Operating mode (immersed)		S1
Operating mode (non-immersed)		S3-25%
Max. immersion depth		5 m
Protection class		IP 68
Fluid temperature	$T$	+3 ... +95 °C
Weight approx.	$m$	30 kg

## Motor data

Mains connection		3~400 V, 50 Hz
Rated current	$I_N$	2.0 A
Nominal motor power	$P_2$	0.75 kW
Power consumption	$P_1$	1.1 kW
Activation type		Direct
Nominal speed	$n$	2870 rpm
No. of poles		2
Insulation class		F
Max. switching frequency		50 1/h

## Cable

Length of connecting cable		10 m
Cable type		SiAF
Cable cross-section		4x1,5 mm²
Type of connecting cable		Non-detachable
Mains plug		—

## Equipment/function

Float switch		—
Motor protection		—
Explosion protection		—

## Materials

Static seal		FPM
Impeller		EN-GJL-250
Mechanical seal		Carbon/ceramic
Motor housing		EN-GJL-250



## Data sheet: Wilo-Drain TMT 32H102/7,5Ci

Pump housing	EN-GJL-250
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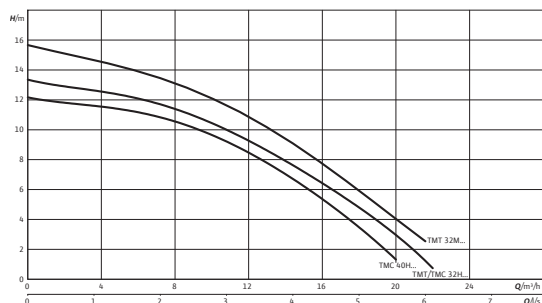
### Information for order placements

Make	Wilo
Art no.	120549093
EAN number	4016322063346
Price group	PG7

# Data sheet: Wilo-Drain TMC 32H102/7,5Br

## Pump curves Wilo-Drain TMT/TMC - 50 Hz - No. of poles:

2



Pump curves in accordance with ISO 9906, Appendix A

## Unit

Max. delivery head	$H_{max}$	13 m
Max. volume flow	$Q_{max}$	22 m³/h
Optimal delivery head	$H_{opt}$	10 m
Optimum volume flow	$Q_{opt}$	12 m³/h
Pressure connection		Rp 1¼
Maximum operating pressure	$p_{max}$	1.4 bar
Free ball passage		9 mm
Operating mode (immersed)		S1
Operating mode (non-immersed)		S3-25%
Max. immersion depth		5 m
Protection class		IP 68
Fluid temperature	$T$	+3 ... +95 °C
Weight approx.	$m$	33 kg

## Motor data

Mains connection		3~400 V, 50 Hz
Rated current	$I_N$	2.0 A
Nominal motor power	$P_z$	0.75 kW
Power consumption	$P_1$	1.1 kW
Activation type		Direct
Nominal speed	$n$	2870 rpm
No. of poles		2
Insulation class		F
Max. switching frequency		50 1/h

## Cable

Length of connecting cable		10 m
Cable type		SiAF
Cable cross-section		4x1,5 mm²
Type of connecting cable		Non-detachable
Mains plug		–

## Equipment/function

Float switch		–
Motor protection		–
Explosion protection		–

## Materials

Static seal		FPM
Impeller		G-CuSn10

**Data sheet: Wilo-Drain TMC 32H102/7,5Br**

Mechanical seal	Carbon/ceramic
Motor housing	G-CuSn10
Pump housing	G-CuSn10

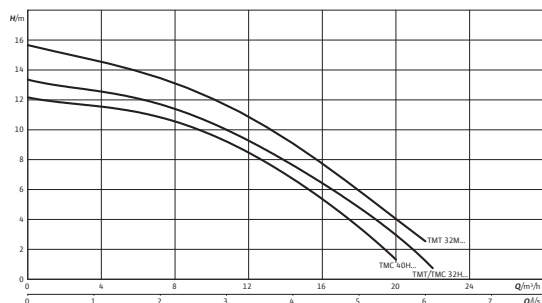
**Information for order placements**

Make	Wilo
Art no.	120549299
EAN number	4016322063353
Price group	PG7

# Data sheet: Wilo-Drain TMC 40H102/7,5St

## Pump curves Wilo-Drain TMT/TMC - 50 Hz - No. of poles:

2



Pump curves in accordance with ISO 9906, Appendix A

## Unit

Max. delivery head	$H_{max}$	12 m
Max. volume flow	$Q_{max}$	20 m³/h
Optimal delivery head	$H_{opt}$	9 m
Optimum volume flow	$Q_{opt}$	11 m³/h
Pressure connection		Rp 1½
Maximum operating pressure	$p_{max}$	1.3 bar
Free ball passage		9 mm
Operating mode (immersed)		S1
Operating mode (non-immersed)		S3-25%
Max. immersion depth		5 m
Protection class		IP 68
Fluid temperature	$T$	+3 ... +95 °C
Weight approx.	$m$	32 kg

## Motor data

Mains connection		3~400 V, 50 Hz
Rated current	$I_N$	2.0 A
Nominal motor power	$P_2$	0.75 kW
Power consumption	$P_1$	1.1 kW
Activation type		Direct
Nominal speed	$n$	2870 rpm
No. of poles		2
Insulation class		F
Max. switching frequency		50 1/h

## Cable

Length of connecting cable		10 m
Cable type		SiAF
Cable cross-section		4x1,5 mm²
Type of connecting cable		Non-detachable
Mains plug		–

## Equipment/function

Float switch		–
Motor protection		–
Explosion protection		–

## Materials

Static seal		PTFE/Teflon
Impeller		1.4408 [AISI316]

## Data sheet: Wilo-Drain TMC 40H102/7,5St

Mechanical seal	Carbon/ceramic/PTFE
Motor housing	1.4408
Pump housing	1.4408 [AISI304]

### Information for order placements

Make	Wilo
Art no.	120654899
EAN number	4016322065111
Price group	PG7