

## Series description: Wilo-Drain TM/TMW/TMR 32



### Design

Basement drainage pump, water-cooled

### Application

- For pumping clear or slightly muddy water
  - From tanks, sumps or pits
  - For overflows and flooding
  - For draining basement stairways and basement areas

### TMR

The TMR is suited for lowering the water level to a remaining level of 2 mm.

### TMW

The service life of submersible pumps, which are used in pump sumps and through which washing machine water, soapy water from basins and showers, or other mixtures flow, is considerably reduced by settling sediment. Such sediment can form deposits in the pump sump, resulting in the accumulation of mud and odours.

Wilo-Drain TMW 32 has a turbulator that prevents the build-up of sediment, expelling it together with the fluid. This reduces costs and the time needed for regular cleaning of the sump. In addition, problems associated with mud removal and the observance of occupational safety hygiene regulations during cleaning of the pump sump are minimized.

### Type key

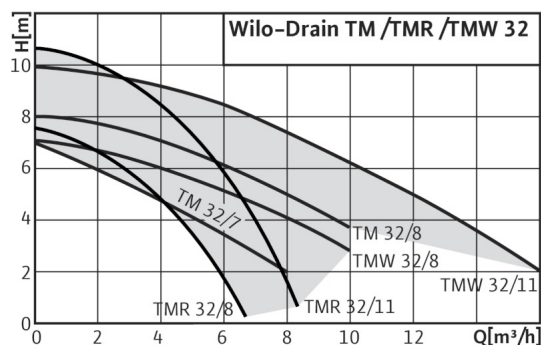
Example:	<b>Wilo-Drain TM 32/7</b>
<b>TM</b>	Submersible pump
<b>32</b>	Nominal diameter of discharge port
<b>/7</b>	Max. delivery head [m]
Example:	<b>Wilo-Drain TMW 32/11 HD</b>
<b>TM</b>	Submersible pump
<b>W</b>	W = with turbulator R = with flat suction
<b>32</b>	Nominal diameter of discharge port
<b>/11</b>	Max. delivery head [m]
<b>HD</b>	For aggressive fluid

### Special features/product advantages

- Constantly clean pump sump due to patented integrated turbulator (TMW)
- Minimal residual water level of 2 mm (TMR)
- For aggressive fluids (HD version)
- With float switch (A version)
- Incl. hose connection and 10 m cable

### Technical data

- Mains connection 1~230 V, 50 Hz



### Equipment/function

- Ready-to-plug
- Thermal motor monitoring
- Sheath current cooling
- Connection cable

### Materials

- Pump housing PPGF30
- Impeller PPE/PS-GF20
- Shaft 1.4104 (AISI 430F)/1.4404 (AISI 316L) (for TMW 32/11 HD)
- Shaft seal: NBR on motor side, carbon/ceramic on pump side
- Motor housing 1.4301 (AISI 304) / 1.4404 (AISI 316L) (with TMW 32/11 HD)

### Description/design

Submersible pump suitable for stationary, fully automatic operation. A pressure hose of appropriate length is connected for mobile use, while a pipe is connected to the pressure port for stationary applications. A residual-current-operated protection switch for a trigger current of 30 mA that is to be provided onsite (regulation concerning outdoor installation) must be utilised in accordance with EN 60335-2-41.

The pumps of the TM series are suitable for drainage applications with a multi-channel impeller and a free ball passage of 10 mm according to EN 12050-2 (except TMR).

The pump is continuously cooled by the fluid between the outside shroud of the pump and the stainless steel motor housing. The serially installed thermal motor protection assures a permanent protection of the pump. The pump is equipped with a 3 or 10 m connecting cable with shockproof plug and a float switch (not TM 32/8-10M).

### TMR

The Wilo-Drain TMR pumps are built for special applications whereby it is essential to keep the amount of residual water low. The special strainer enables the fluid to be pumped out to a remaining level of 2 mm.

### TMW

Due to its design, the Wilo-Drain TMW ensures constant turbulence in the suction area of the pump. This results in a clean pump sump.

No fluid-related odours are generated, due to the turbulence and the elimination of the settling sediment connected with it. The maintenance intervals are extended.

Deactivating the Twister (see installation and operating instructions) increases the pump curve by 1 m.

### Motor

Jacket-cooled, stainless steel-encapsulated, dry electric motor with built-in thermal overload protection and automatic reactivation.

### Cable

In accordance with DIN EN 60335-2-41, 10 m of electrical connection line should be used for outdoor operation (however note that regulations vary from country to country).

### Sealing of pumps/motor compartment

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- Protection class: IP 68
- Submersion depth max. 3 m
- Fluid temperature 3–35 °C, max. 90 °C for short periods up to 3 min.
- Cable length 3 to 10 m, depending on type
- Free ball passage 10 mm (TMR: 2 mm)
- Pressure port Rp 1 ¼

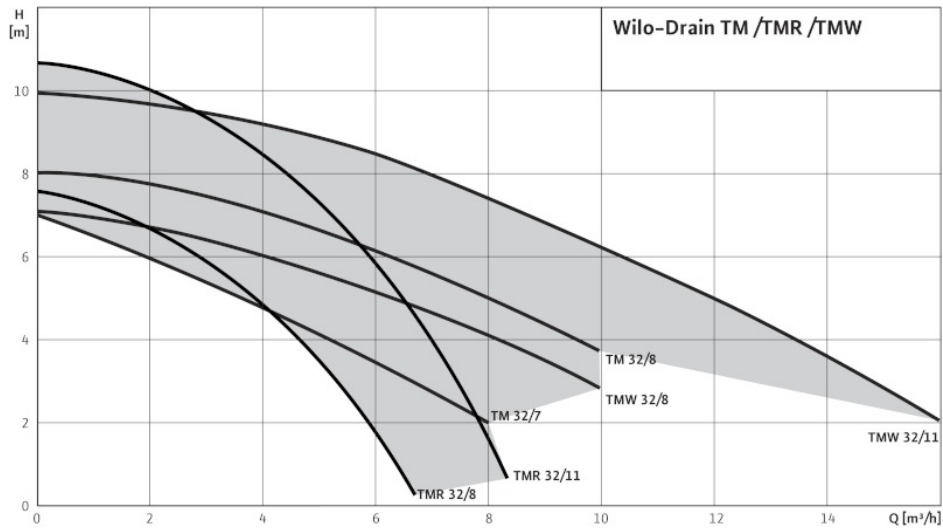
Mechanical seal on impeller side, one rotary shaft seal on motor side; there is an oil chamber between the seals.

### Scope of delivery

Pump ready for connection with cable, plug and attached float switch (except for TM 32/8), supplied non-return valve (except for TM 32/7), installation and operating instructions.

## Duty chart: Wilo-Drain TM/TMR/TMW 32

### Pump curves



## Equipment/function: Wilo-Drain TM/TMW/TMR 32

### Design

Submersible	•
Non-self-priming	•
Open single-channel impeller	-
Vortex impeller	-
Open multi-channel impeller	•
Turbulator	•
Sealing chamber	•
Sealing for mechanical seal on motor side	-
Sealing for rotary shaft seal on motor side	•
Sealing for mechanical seal on fluid side	•
Sealing for rotary shaft seal on fluid side	-
Single-phase 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