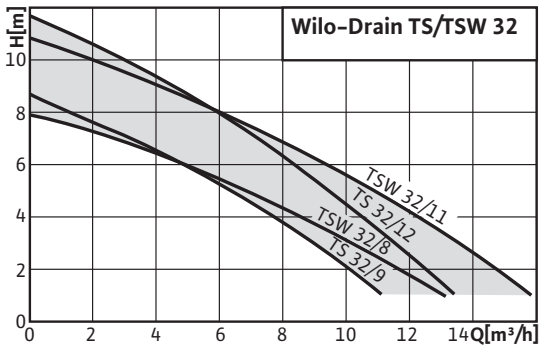
Series description: Wilo-Drain TS/TSW 32



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
- From domestic areas (washing machine water, soapsuds)
- From small fountains, waterworks or streams

TSW
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 TSW 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 minimised.

Type key

Example:	**Wilo-Drain TS 32/9 A**
TS	Drainage pump
32	Nominal diameter of discharge port
/9	Max. delivery head [m]
A	With float switch

Example:	**Wilo-Drain TSW 32/11 A**
TSW	Drainage pump with turbulator
32	Nominal diameter of discharge port
/11	Max. delivery head [m]
A	With float switch

Special features/product advantages
- Permanent operation 4000 h/year
- High-quality motor seal with additional upstream dirt deflector
- Heavy-duty, impact-resistant stainless steel housing

Equipment/function
- Ready-to-plug
- Motor monitoring via temperature
- Sheath current cooling
- Connecting cable

Materials
- Pump housing: 1.4301 (AISI 304)
- Impeller: SPL
- Shaft: 1.4401 (AISI 316)
- Shaft seal: NBR on motor side, carbon/ceramic on pump side
- Motor housing: 1.4301 (AISI 304)

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 discharge port for stationary applications.
A residual-current-operated protection switch for a trigger current of 30 mA that is to be provided on site (regulation concerning outdoor installation) must be utilised in accordance with EN 60335-2,41.
TSW in addition
Due to its design, the TSW 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.
Motor
Jacket-cooled, stainless steel-encapsulated, dry electric motor with built-in thermal overload protection and automatic reactivation. The capacitor is on the inside.
Cable
In accordance with DIN EN 60335-2-41, 10 m of electrical connection line is required for outdoor operation (however note that regulations vary from country to country).
Sealing of pumps/motor space
High operational reliability due to shaft sealing consisting of a mechanical seal on the pump side and a rotary shaft seal on the motor side as well as upstream dirt deflector for additional protection of the mechanical seal, oil barrier chamber.

Scope of delivery

Series description: Wilo-Drain TS/TSW 32

- Detachable connection cable/float cable
- Easy operation and maintenance
- Constantly clean pump sump due to patented integrated turbulator (TSW)

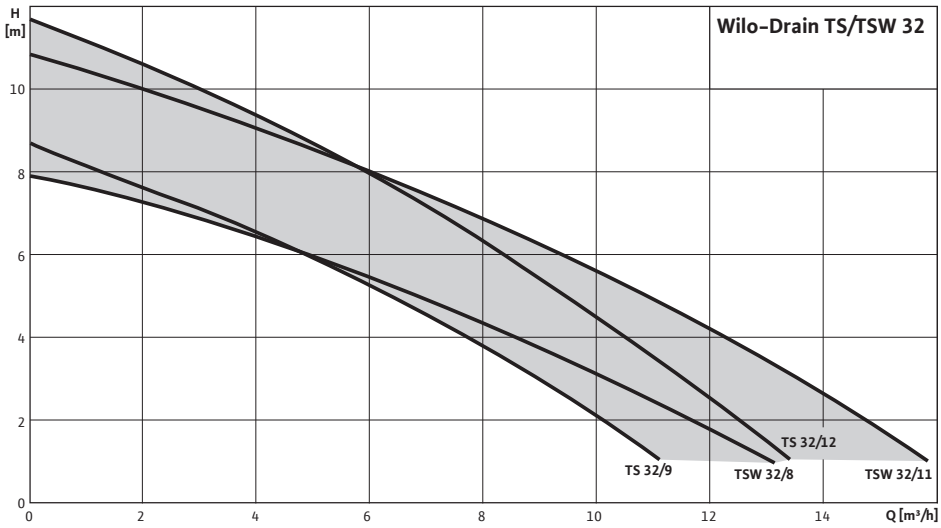
Technical data

- Mains connection 1~230 V, 50 Hz
- Protection class IP 68
- Max. immersion depth 10 m
- Fluid temperature 3 – 35 °C, for short periods up to 3 min. max. 90 °C
- Cable length 10 m
- Free ball passage 10 mm
- Rp 1 ¼ pressure port, hose connection Ø 32 mm, R1

Pump ready for connection with cable, plug and attached float switch, supplied non-return valve and hose connector (Ø 32 mm, R1), installation and operating instructions.

Duty chart: Wilo-Drain TS/TSW 32

Pump curves



Equipment/function: Wilo-Drain TS/TSW 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