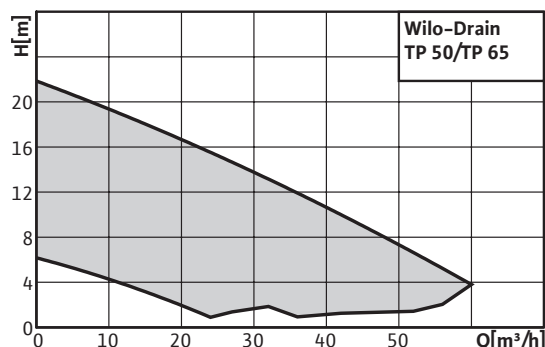


## Series description: Wilo-Drain TP 50/TP 65



### Design

Submersible sewage pump

### Application

Pumping of heavily contaminated fluids for:

- Domestic and site drainage
- Sewage disposal (not within the scope of DIN EN 12050-1)
- Water management
- Environmental and water treatment technology
- Industrial and process engineering

### Type key

e.g.:	Wilo-Drain TP 65 E 114/11-A
<b>TP</b>	Submersible pump
<b>65</b>	Nominal diameter [mm]
<b>E</b>	Impeller shape (E = single-channel impeller, F = Vortex impeller)
<b>114</b>	Nominal diameter of the impeller [mm]
<b>11</b>	Power $P_2$ [kW] (=value/10 = 1.1 kW)
<b>A</b>	With float switch and plug

### Special features/product advantages

- Detachable connection cable
- Stainless-steel glanded motor
- ATEX approval (only for TP 65/3~ without floater)
- Attached float switch (A-model version) enables simple operation
- Low weight
- Motor housing optionally available in 1.4404

### Technical data

- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Immersed operating mode: S1
- Non-immersed operating mode: S2-8 min, S3 25%
- Protection class: IP 68
- Insulation class: F
- Thermal winding monitoring
- Max. fluid temperature: 3 35°C
- Cable length: 10 m
- Free ball passage: 44 mm
- Max. immersion depth: 10 m

### Equipment/function

- Single-phase version with capacitor box
- A-model including float switch and plug
- Thermal motor monitoring
- ATEX approval (TP 65 3~ without float)

### 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 DN 50 or DN 65 horizontal flange connections. The impeller shapes used are single-channel (E) or vortex impellers (F).

#### Motor

Dry motors give off their heat directly to the surrounding fluid via the housing components and can be used in immersed state for permanent or intermittent operation.

A sealing chamber protects the motor from fluid ingress. The filling fluid used is potentially biodegradable and environmentally safe.

Cable lengths are available in length increments of 10 m. The Amodel is equipped with float switch and plug.

#### 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: PPGF30 (TP 50), PUR (TP 65)
- Impeller: PP-GF30 (vortex impeller), PUR (single-channel impeller)
- Shaft: Stainless steel 1.4404
- Mechanical seal on pump side: SiC/SiC
- Shaft seal on motor side: NBR
- Static gasket: NBR
- Motor housing: Stainless steel 1.4301

### Scope of delivery

- Pump ready for connection with 10 m connection cable
  - Single-phase version in Amodel design with capacitor box and shock-proof plug
  - Single-phase version with capacitor box and bare cable end
  - Three-phase version in Amodel design with CEE plug
  - Three-phase version with bare cable end
- A-model version with attached float switch
- Installation and operating instructions

### Accessories

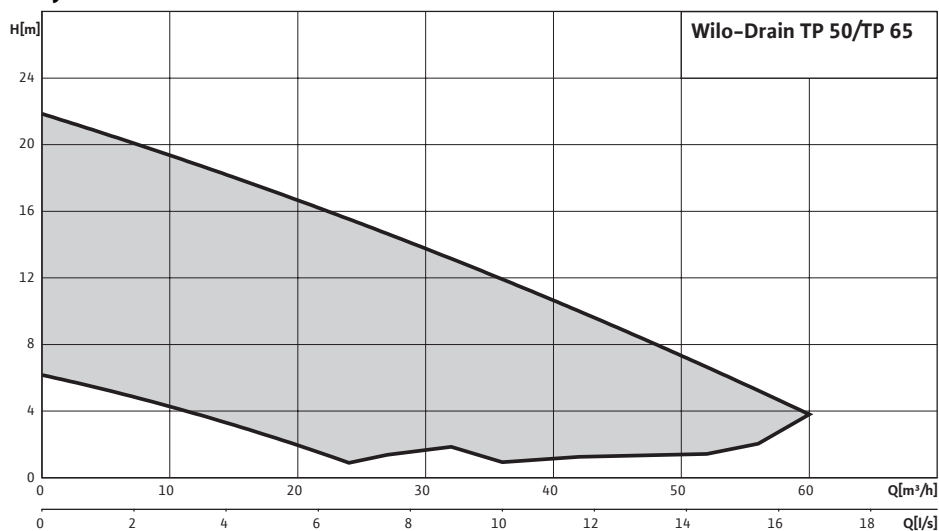
- Suspension unit
- Chains
- Non-return valve and gate valve

## Series description: Wilo-Drain TP 50/TP 65

- Various pressure outlets and hoses
- Switchgears and relays

## Duty chart: Wilo-Drain TP 50/TP 65

Duty chart



## Equipment/function: Wilo-Drain TP 50/TP 65

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	• TP 65/3~
Float switch	• Version A
Capacitor box for 1~230 V	•
Ready-to-plug	• Version A
Materials	
Pump housing	Composite
Impeller	Composite
Motor housing	Stainless steel

• = available, - = not available; = optional