

Series description: Wilo-DrainLift WS 40-50



Similar to figure

Design

Pump chamber made of plastic as concealed pumping station or floor-mounted lifting unit

Application

Pumping of sewage containing faeces or pre-cleaned sewage that cannot be returned to the sewer system using natural falls, and for the draining of objects that are below the backflow level.

Type key

Example:

WS
40
E

Wilo-DrainLift WS 40E/x
Synthetic pumping station
Pressure outlet of the system
E = single-pump system
D = double-pump system
Selected pump type

x

Special features/product advantages

- Pressure-tight sump for subterranean and aboveground installation
- Flexible due to free selection of inlets
- Large tank volume
- Surface coupling made of corrosion-resistant PUR

Materials

- Pump chamber: PE
- Pipework: 1.4404
- Surface coupling: PUR
- Non-return ball valve: Cast iron
- Gate valve: bronze

Description/design

Installation-ready plastic shaft as single-pump system or double-pump system. The plastic shaft has integrated finning for increasing stiffness and anti-buoyancy, and also provides freely-definable inlets.

The system can be installed in buildings as a lifting unit, as well as outside buildings like a traditional pump chamber in the ground.

Technical data

- Inlet: DN 100/DN 150
- Ventilation: DN 70
- Maximum pressure in the pressure pipe: 1.5 bar.

Pumps that can be used

Drain TP 50/TP 65

- Version with single-channel impeller and vortex impeller
- Also with ex-rating in accordance with ATEX
- Single-phase and three-phase AC versions available
- Version with attached float switch available

Drain MTS 40

- Sewage pump with macerator
- Single-phase and three-phase AC versions available
- Also with ex-rating in accordance with ATEX

Scope of delivery

Series description: Wilo-DrainLift WS 40-50

Scope of delivery

- Tank (for single or double pump system)
- Built-in stainless steel pipework
- Gate valve in red bronze
- Surface coupling made of corrosion-free plastic (PUR) with built-in non-return valve
- Cover with seal (can be walked on, supporting a weight up to 200 kg)
- Hole saw Ø 124 mm, inlet seal DN 100 (for pipe Ø 110 mm)
- 1 PVC hose section Ø 50 mm with clamps for connection of a diaphragm hand pump
- Fixation material for floor fixation
- Installation and operating instructions

Note! Pump is not included in the scope of delivery!

Configuration

In the case of double-pump systems, the pressure line connection must be provided onsite.

Accessories

- Pump chamber extension
- Pump chamber cover
- Clamp boltings
- Switchgears
- Level sensor



Duty chart: Wilo-DrainLift WS 40-50

Equipment/function: Wilo-DrainLift WS 40-50

Design

Pump included in the scope of delivery
Single-pump system
Double-pump system

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Application

Floor-mounted installation
Concealed floor installation

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Equipment/function

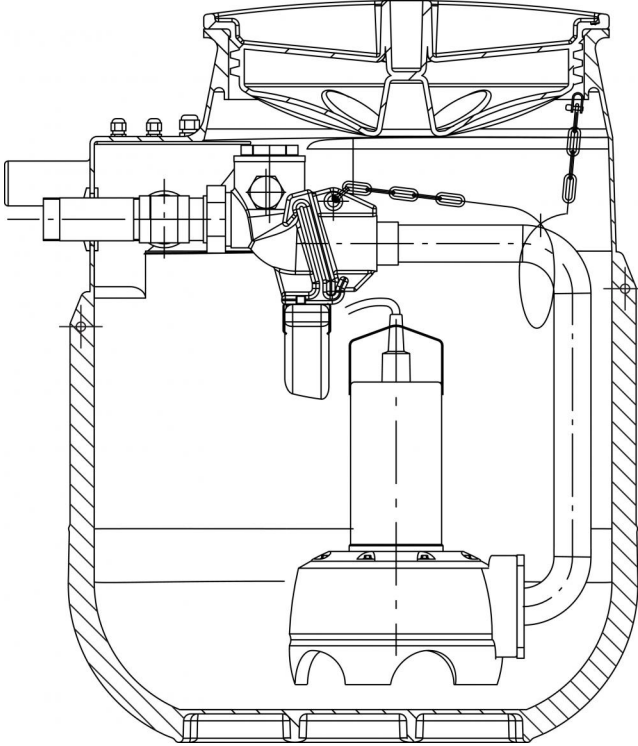
Inlet position freely selectable
Level control: with float switch
Level control: with level sensor
Level control: with pneumatic pressure transducer
Ready-to-plug
Switchgear

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• = available, - = not available; ° = optional

Installation drawings: Wilo-DrainLift WS 40-50

Version example
e.g.: WS 50 E/TP 65...



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1
2
3
4
5
6
7
8
9
10
11
12

Backflow level (usually street level)
Gate valve DN 100 (accessory)
Flange piece DN 100 (accessory)
3-way cock (accessory)
Diaphragm hand pump (accessory)
Clamp bolting (accessory)
Pressure pipe to the main collection line.
Wilo-Drain switchgear (see elec. accessories)
Ventilation (connection DN 70)
Inlet (connection DN 100)
Gate valve (accessory)
Drainage pump (e.g. Twister)
Valve support for relieving weight (recommended)



Installation drawings: Wilo-DrainLift WS 40-50

Product list: Wilo-DrainLift WS 40-50

Pump type	For utilisation of pump(s)	Gross volume <i>V</i>	Inlet connection	Pressure connection	Art no.
WS 40D	Rexa CUT GI03.26/GI03.29 400 l		DN 150/DN 100	DN 40, R 1½	2525165
WS 40E	Rexa CUT GI03.26/GI03.29 255 l		DN 150/DN 100	DN 40, R 1½	2525164
WS 50D	Rexa UNI V05, Rexa UNI V06	400 l	DN 150/DN 100	DN 50, R 2	2525161
WS 50E	Rexa UNI V05, Rexa UNI V06	255 l	DN 150/DN 100	DN 50, R 2	2525160

Data sheet: DrainLift WS 40D

Permitted field of application	
Version	Double-pump system
For utilisation of pump(s)	Rexa CUT GI03.26/GI03.29
Max. permissible pressure in the pressure pipe p	6 bar
Min. ambient temperature T	3 °C
Max. ambient temperature T	20 °C
Max. fluid temperature T	40 °C
Connections	
Inlet connection	DN 150/DN 100
Pressure connection	DN 40, R 1½
Venting	DN 70
Dimensions/weights	
Gross volume V	400 l
Max. switching volume V	130 l
Min. residual water volume L	90 l
Dimensions <i>Width x height x depth</i>	800 x 1042 x 1000 mm
Weight approx. m	63 kg
Materials	
Tank material	PE
Information for order placements	
Make	Wilo
Art no.	2525165

Data sheet: DrainLift WS 40E

Permitted field of application	
Version	Single-pump system
For utilisation of pump(s)	Rexa CUT GI03.26/GI03.29
Max. permissible pressure in the pressure pipe p	6 bar
Min. ambient temperature T	3 °C
Max. ambient temperature T	20 °C
Max. fluid temperature T	40 °C
Connections	
Inlet connection	DN 150/DN 100
Pressure connection	DN 40, R 1½
Venting	DN 70
Dimensions/weights	
Gross volume V	255 l
Max. switching volume V	80 l
Min. residual water volume L	50 l
Dimensions <i>Width x height x depth</i>	650 x 1042 x 800 mm
Weight approx. m	43 kg
Materials	
Tank material	PE
Information for order placements	
Make	Wilo
Art no.	2525164

Data sheet: DrainLift WS 50D

Permitted field of application	
Version	Double-pump system
For utilisation of pump(s)	Rexa UNI V05, Rexa UNI V06
Max. permissible pressure in the pressure pipe p	6 bar
Min. ambient temperature T	3 °C
Max. ambient temperature T	20 °C
Max. fluid temperature T	40 °C
Connections	
Inlet connection	DN 150/DN 100
Pressure connection	DN 50, R 2
Venting	DN 70
Dimensions/weights	
Gross volume V	400 l
Max. switching volume V	130 l
Min. residual water volume L	90 l
Dimensions <i>Width x height x depth</i>	800 x 1042 x 1000 mm
Weight approx. m	63 kg
Materials	
Tank material	PE
Information for order placements	
Make	Wilo
Art no.	2525161

Data sheet: DrainLift WS 50E

Permitted field of application	
Version	Single-pump system
For utilisation of pump(s)	Rexa UNI V05, Rexa UNI V06
Max. permissible pressure in the pressure pipe p	6 bar
Min. ambient temperature T	3 °C
Max. ambient temperature T	20 °C
Max. fluid temperature T	40 °C
Connections	
Inlet connection	DN 150/DN 100
Pressure connection	DN 50, R 2
Venting	DN 70
Dimensions/weights	
Gross volume V	255 l
Max. switching volume V	75 l
Min. residual water volume L	50 l
Dimensions <i>Width x height x depth</i>	650 x 1042 x 800 mm
Weight approx. m	46 kg
Materials	
Tank material	PE
Information for order placements	
Make	Wilo
Art no.	2525160