

Series description: Wilo-DrainLift XL



Design

Sewage lifting unit with 2 integrated pumps

Application

Sewage lifting unit for drainage of residential housing and commercial buildings (e.g. restaurants, department stores, etc.). Raw sewage that cannot be piped to the sewer system through the use of natural inclines and sewage from toilet systems below the backflow level are to be piped to the public sewer system by means of an automatic lifting unit in accordance with DIN EN 12056/DIN 1986100. Sewage containing mineral oils or explosive admixtures must be guided through oil precipitators and/or petrol precipitators; those containing fatty substances must go through grease traps and those with sand through grit chambers. In cases where the flow to the lifting unit must not be interrupted during normal operation, one lifting unit must be equipped with a second pumping unit that has the same performance capacity and switches on automatically when needed (DIN EN 12050-1 A1).

Type key

Example: **Wilo-DrainLift XL 2/25 (3~)**

XL2	Double-pump system
/25	Max. delivery head [m]
(3~)	3~: Three-phase version

Special features/product advantages

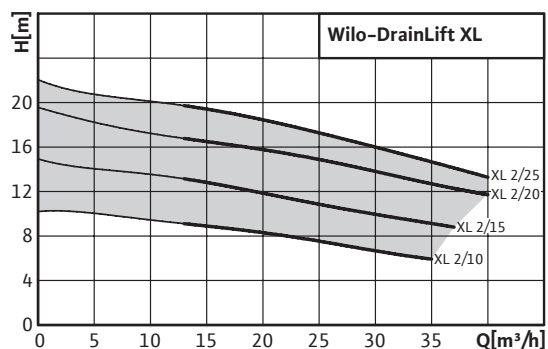
- Easy installation / commissioning due to
 - Built-in non-return valve
 - Higher flexibility in the intake area (connection is height-adjustable and can be swivelled)
 - Menu-prompted setting on switchgear
- Safe due to:
 - Large switching volume
 - Additional potential-free contact
 - Reliable level measurement due to level sensor
 - Suitable for permanent operation (due to integrated sheath current cooling)

Materials

- Motor housing: Stainless steel 1.4404 (AISI 316L)
- Hydraulics: PE/PUR plastic
- Tank: PE plastic

Technical data

- Mains connection 3~400 V, 50 Hz
- Power consumption P_1 from 3 to 5.3 kW, depending on type
- Cable length from system to switchgear 4 m / plug cable 1.5 m
- Operating mode S1 / S3 60%
- Fluid temperature max. 40 °C, for short periods up to 60 °C
- Ambient temperature max. 40 °C
- Free ball passage 40 mm
- Pressure port DN 80
- Inlet connection DN 100 / DN 150
- Ventilation connection DN 70
- Min. suction head (installation level to middle of inlet) 700 mm
- Protection class (without switchgear) IP 67



Equipment/function

- Thermal motor monitoring
- Level control with level sensor
- Potential-free contact
- Pump cable detachable
- Inlet seal DN 150
- Keyhole saw for inlet seal
- Non-return valve
- Hose connection for ventilation
- Hose connection for diaphragm hand pump
- Kit for pressure pipe connection
- Fixation material
- Switchgear with breakdown barrier

Description/design

Fully submersible sewage lifting unit, ready for connection (flooding height: 2 mWS, overflow time: 7 days) with a collection tank that is impermeable to gas and water and that is equipped with buoyancy safeguards. Centrifugal pump with vortex impeller.

DrainLift XL2:

Double-pump system for automatic operation (with automatic duty cycling, standby and peak-load operation). Due to the integrated double non-return valve, only one pressure pipe connection is required. Switchgear with CEE plug, potential-free contact, integrated alarm. Pumps with integrated sheath current cooling.

Attention: The switchgear is not submersible and must therefore be arranged in such a way that it is overflow-proof.

Scope of delivery

Connection-ready sewage lifting unit, including:

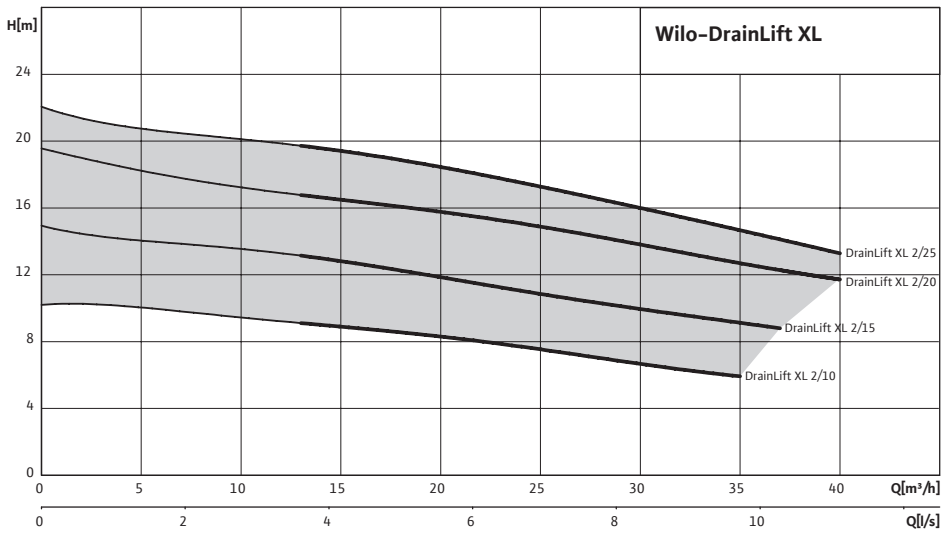
- Switchgear
- Breakdown barrier in the housing with 1 m cable, pre-installed
- Level sensor 0-1 mWS, 10 m cable
- Inlet seal, DN 150 for pipe Ø 160 mm
- Keyhole saw Ø 175 for inlet DN 150
- Hose section DN 50 with hose clips for connecting the suction line to the diaphragm hand pump
- Collar for ventilation connection, DN 70
- Fixation material
- DN 80/100 flange piece with flat gasket, flexible hose section, hose clips, screws and nuts for connecting the pressure pipeline, DN 100
- Installation and operating instructions

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- Gross tank volume 380 l
- Switching volume 260 l

Duty chart: Wilo-DrainLift XL

Pump curves Wilo-DrainLift XL



Equipment/function: Wilo-DrainLift XL

Design	
Submersible	•
Single-pump system	–
Double-pump system	•
Single-phase AC motor	–
Three-phase motor	•
Pump position: motor components outside the tank	•
Pump position: outside the tank	–
Pump position: in tank	–
Sealing chamber	•
Sealing for mechanical seal on fluid side	•
Sealing for rotary shaft seal on fluid side	–
Integrated non-return valve	•
Sheath current cooling	•
Single-channel impeller	–
Multi-channel impeller	–
Vortex impeller	•
Macerator	–
Equipment/function	
Inlet position freely selectable	•
Active carbon filter	–
Level control: with float switch	–
Level control: with level sensor	•
Level control: with pneumatic pressure transducer	–
Motor leakage monitoring	–
Mains-independent alarm	–
Alarm for potential-free contact	•
Ready-to-plug	•
Connecting cable detachable	•
Switchgear	•
Hose connection for diaphragm hand pump	•
Seal for suction pipe connection for diaphragm hand pump	–
Hose connection for ventilation	•
Installation sundries	
Kit for pressure pipe connection	•
Curve cutter for inlet borehole	–
Keyhole saw for inlet borehole	•
Inlet seal	•
Soundproofing material	–

• = available, – = not available; = optional

Installation drawings: Wilo-DrainLift XL

Installation drawing Wilo-DrainLift XL

