

Series description: Wilo-DrainLift XXL



Design

Sewage lifting unit with 2 dry-mounted 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 sand catchers.

Type key

Example:	Wilo-DrainLift XXL 1080-2/8.4
XXL	Sewage lifting unit for large objects
10	10 = discharge port DN 100 8 = discharge port DN 80
80	80 = total volume 800 l 40 = total volume 400 l
2	Double-pump system
/8.4	Power P_2 per pump [kW]

Special features/product advantages

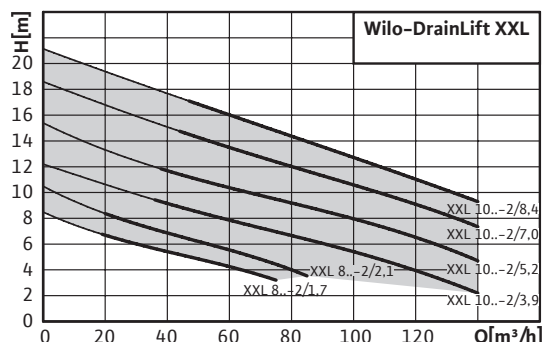
- Large tank volume
- Low weight of individual components
- Wide performance range
- Suitable for permanent operation (due to integrated sheath current cooling)

Materials

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

Technical data

- Mains connection 3~400 V, 50 Hz
- Power consumption P_1 from 2.3 to 10.0 kW, depending on type
- Cable length from system to switchgear 10 m
- Operating mode S1, S3
- Fluid temperature max. 40 °C, for short periods up to 65 °C
- Ambient temperature max. 40 °C
- Free ball passage 78 mm to 95 mm, depending on type
- Pressure port DN 80 or DN 100, depending on type
- Inlet connection 3 x DN 100/150, 1 x DN 100
- Ventilation connection DN 70 mm
- Min. suction head (installation level to middle of inlet) 700 mm
- Protection class (without switchgear) IP 68
- Gross tank volume 400/800 l
- Switching volume 200/400 l



Equipment/function

- Sheath current cooling
- Thermal motor cooling
- Level control with level sensor
- Potential-free contact
- Pump cable detachable
- Hose connection for ventilation
- Hose connection for diaphragm hand pump
- Kit for pressure pipe connection
- Fixation material
- Switchgear with breakdown barrier in the housing

Description/design

Fully submersible sewage lifting unit, ready for connection (flooding height: 2 mWS, overflow time: 7 days), with a gas- and watertight collection tank. Equipped with two sewage pumps of the Wilo-Drain TP 80 or TP 100 series (material: Inox and composite). Easy handling due to low total weight of system, e.g. double system with TP 80 pump only 160 kg (heaviest individual weight: pump 62 kg). Optimal tank drainage due to deep extraction by suction.

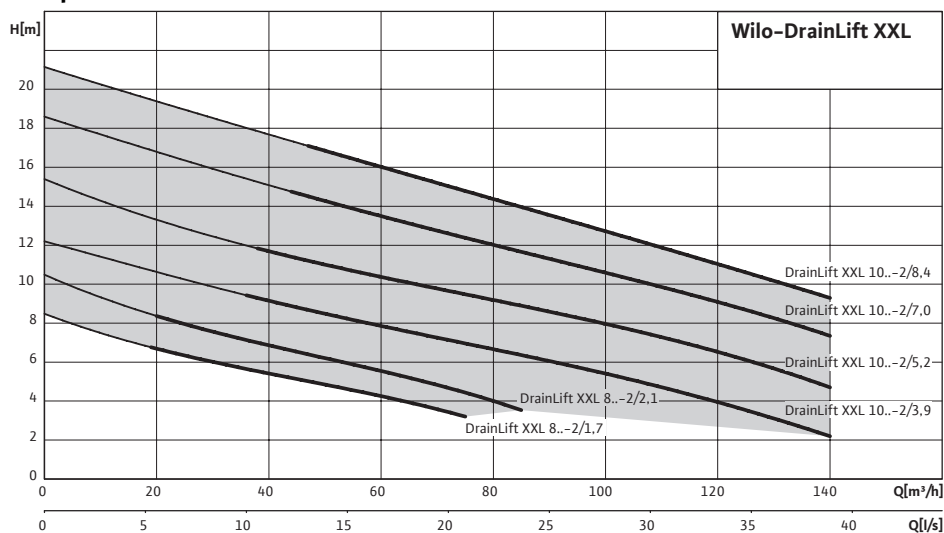
Important: The switchgear is not submersible and must therefore be arranged in such a way that it is safe from flooding.

Scope of delivery

- Microprocessor-controlled switchgear with automatic duty cycling, standby and peak load operation, potential-free contacts and indicator lights for operation and malfunctions for each pump.
- Elastic hose connection for ventilation DN 70.
- Elastic hose connection for connecting a diaphragm hand pump. Kit for connecting the tank with a pump (including ventilation flange with hose).

Duty chart: Wilo-DrainLift XXL

Pump curves Wilo-DrainLift XXL



Equipment/function: Wilo-DrainLift XXL

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 XXL

Installation drawing Wilo-DrainLift XXL

Wastewater and sewage lifting unit (sewage with faecal content); Double unit, Wilo-DrainLift XXL

