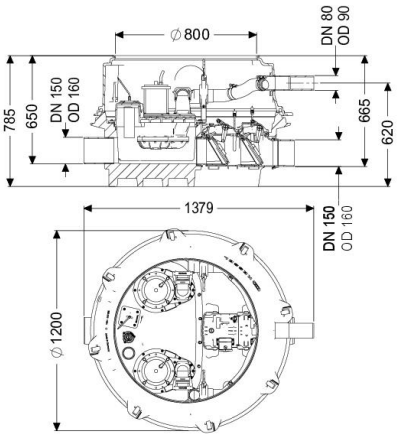
Data sheet

Ecolift XL backwater lifting st. Duo, 2 motor flaps, SPF 1500-S1, Taper



Article information

article number: 8741073
EAN code: 4026092070826
Price group: 60

Product advantages

- Wastewater drainage without interruption, even if a power failure occurs, as long as there is no backwater
- low pump use
- minimised noise emissions

Description

The backwater lifting station for faecal and non-faecal wastewater is equipped with two submersible pumps, two motor-driven closure systems and a backflow preventer.
The collection tank made of permanently resistant polymer (PE) has an enclosed pump tank. Quick-release closures enable the integrated components to be removed easily. The pipe cross-section is normally open and the water drains to the sewer via natural fall. Backwater is detected by an optical probe, which causes the closure systems to close automatically and there is no longer free passage to the sewer.
During the backwater phase, the water drains via a pressure pipe, which carries the wastewater into the sewer. The pressure pipe is a welded PE pipe; with pump SPF 4500, the pressure pipe must also be continued up to a pressure release chamber.

The station is controlled by a user-friendly control unit. A redundant control unit also provides additional safety. The KESSEL modular system provides different upper sections and engineering chamber options as accessories.

General features

Colour	black
Standard	ÖNORM B 2501
Type of wastewater	for wastewater with and without sewage
Installation situation	underground installation
Delivery state	Pre-mounted for final assembly on site (pumps and sensor system must be fitted on site and control unit must be connected)
Backwater protection	Type 6
Approval	Z-53.2-493,Z-53.2-493_V

Version

Note on installation depth	Version with lowest installation height
Type of system	duo pump
Shut-off valve	Shut-off valve made of polymer
Passage seal for conduit pipe (DN)	100
Passage seal for ventilation pipe (DN)	70
Pump control	Control unit
Backflow preventer	integrated
Pressure pipe connection	horizontal
Motor-driven backwater flaps	2

Dimensions

Net weight	163 kg
Gross weight	187 kg
Groundwater resistant from lower edge of base section	3000 mm
Vertical drop between inlet and outlet	15 mm
Length	1379 mm
Width	1200 mm
Height	785 mm
Packaging dimension: length	2000 mm
Packaging dimension: width	1300 mm
Packaging dimension: height	950 mm

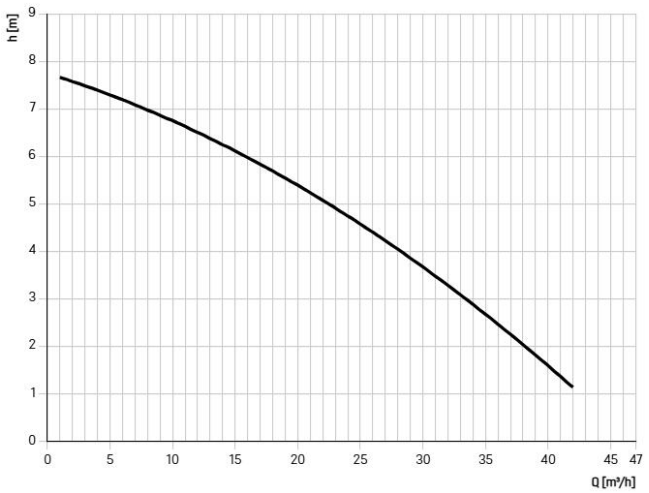
Tank/drain body

Nominal pressure (PN)	10
Pressure pipe connection (DN)	80
Pressure pipe connection (OD)	90 mm
Channel	continuous channel
Venting connection (DN)	70
Distance pipe bottom outlet to tank bottom	120 mm
Distance pipe bottom inlet to tank bottom	135 mm
Distance from inlet pipe invert to top of tank	645 mm
Number of outlets	1
Outlet nominal size (DN)	150
Inlet nominal size (DN)	150
Number of inlets	1
Clear width of tank (LW)	1000 mm
Clear width of entry (LW)	800 mm
Pumping volume	20 l
Tank volume	65.00 l

Pumping device

Pump	SPF 1500-S1
Number of pumps	2
Weight, pump	27 kg
Protection class	I
Insulation class	F
Cos phi - power factor	0.77
Protection class (pump)	IP 68 (3m/48h)
Temperature monitoring	integrated
Max. temperature (permanent) of conveyed material	40 °C
Max. pumping capacity	28 m^3/h
Max. pumping height	7.5 m
Speed	1415 U/min
Power P1	1.4 kW
Power P2	1.1 kW
Operating mode	S1
Type of pump connection cable	H07RN-F 7G 1.5 mm^2
Impeller type	Multi-vane impeller
Free passage	40 mm
Length of mains cable for pump	10 m
Rated current	2,7| A

Pumping capacity



Control

Control unit	Connect Pro
Operating voltage	400 V
Mains frequency	50/60 Hz
Rated current (max.)	9|9 A
Output power (max.)	6.2 kW
Performance Active mode	3.0 W
Protection class control unit	IP 54
Motor protection	yes (electronically)
Type of fuse required (control unit)	2,1 (Mono) or 3,1 (Duo) x Rated current
Self-diagnosis system (SDS)	yes
Main switch	yes
Battery buffering	yes
Multi-line display	yes
Second Screen	yes (Wi-Fi)
Log book function	yes
Modbus (GLT or gateway)	yes (RTU)
Potential-free contact	yes (2)
Alarm sensor	yes
Ext. audible alarm	yes
Level measurement instrument	Immersion pipe
Type of level measurement	pneumatic
SonicControl Option	yes
Filling Option	yes
USB interface	no