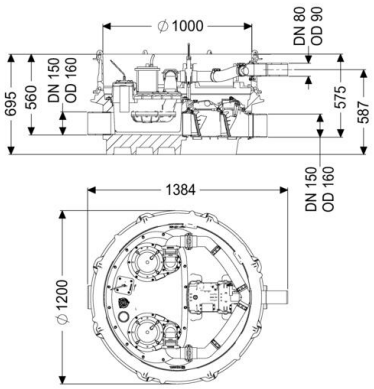
Data sheet

Ecolift XL backwater lifting st. Duo, 2 mech. flaps, SPF 4500-S3



Article information

article number: 8741017
EAN code: 4026092068342
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 non-faecal wastewater is equipped with one/two submersible pump/s, two mechanical 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. Normally, draining takes place via the natural fall to the sewer. In case of backwater, the closure system is closed by the backflowing water. 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 KESSEL modular system provides different upper sections and engineering chamber options as accessories.

General features

Colour	black
Standard	ÖNORM B 2501
Type of wastewater	without sewage
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 2
Approval	Z-53.2-493,Z-53.2-493_V

Version

Note on installation depth	Version for deeper installation
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	0
Mechanical backwater flaps	2

Dimensions

Net weight	141.89 kg
Gross weight	161.67 kg
Groundwater resistant from lower edge of base section	3000 mm
Vertical drop between inlet and outlet	15 mm
Length	1245 mm
Width	1200 mm
Height	657 mm
Packaging dimension: length	2000 mm
Packaging dimension: width	1300 mm
Packaging dimension: height	950 mm

Tank/drain body

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
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
Pumping volume	20 l
Tank volume	65.00 l

Pumping device

Pump	SPF 4500-S3 EcoXL
Number of pumps	2
Weight, pump	26 kg
Operating voltage	400 V
Protection class	I
Insulation class	F
Cos phi - power factor	0.85
Protection class (pump)	IP 68 (3m/48h)
Temperature monitoring	integrated
Max. temperature (permanent) of conveyed material	40 °C
Max. pumping capacity	45 m^3/h
Max. pumping height	21 m
Speed	2850 U/min
Power P1	4.2 kW
Power P2	3.5 kW
Operating mode	S3 - 50 %
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	7,5| 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