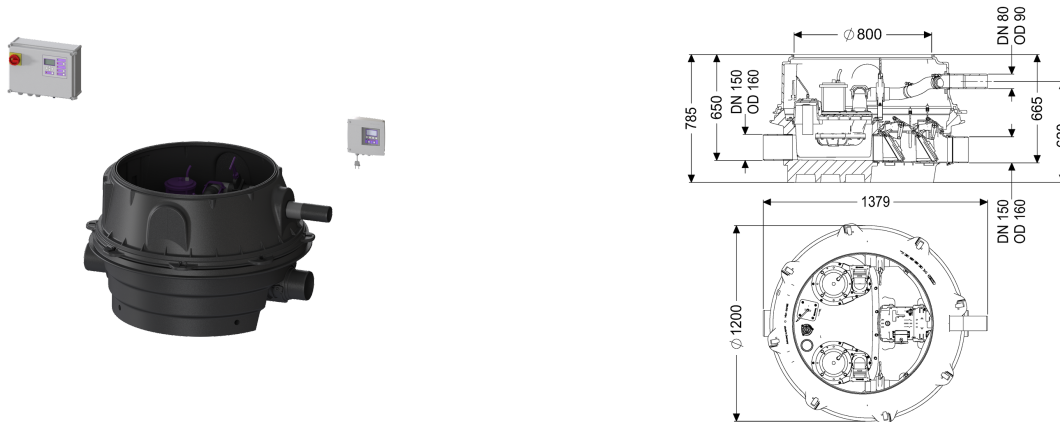


## Ecolift XL backwater lifting st. Duo, 2 motor flaps, SPF 4500-S1, Taper



### Article information

Item no.: 8741075  
 GTIN: 4026092070840  
 Price group: 60

### 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, which is optionally integrated in the building management system via a potential-free contact, or alarm and collective fault messages can be output via a GSM interface. A redundant control unit also provides additional safety. The KESSEL modular system provides different upper sections and engineering chamber options as accessories.

#### Variant

Note on installation depth:  
 Type of system:  
 Shut-off valve:

Version with lowest installation height  
 duo pump  
 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
General characteristics	
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
Dimensions	
Net weight:	157,35 kg
Gross weight:	176,13 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
Packaging dimension:	width
Packaging dimension:	height
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 l
Pumping device	

Pump:	SPF 4500-S1 EcoXL
Number of pumps:	2
Weight, pump:	31 kg
Connection type:	Direct connection
Operating voltage:	400 V
Protection class:	I
Insulation class:	F
Cos phi - power factor:	0,88
Protection class (pump):	IP 68 (3m/48h)
Temperature monitoring:	integrated
Max. temperature (permanent) of conveyed material:	40 °C
Max. pumping capacity:	45 m <sup>3</sup> /h
Max. pumping height:	21 m
Speed:	2850 U/min
Power P1:	4,2 kW
Power P2:	3,5 kW
Operating mode:	S1
Type of pump connection cable:	H07RN-F 7G 1.5 mm <sup>2</sup>
Impeller type:	Multi-vane impeller
Free passage:	40 mm
Length of mains cable for pump:	10 m
Rated current:	7,5 A
<b>Control</b>	
Control unit:	Comfort Plus with redundancy
Motor protection switch:	yes
Standby power:	5 W
Alarm sensor:	optical probe
Level measurement instrument:	Immersion pipe
Type of level measurement:	pneumatic
Protection class control unit:	IP 54
Operating voltage:	400 V
Connection type:	Direct connection
Potential-free contact:	yes
GSM interface:	yes
USB interface:	yes
Log book function:	yes
Multi-line display:	yes
Battery buffering:	yes
Self-diagnosis system (SDS):	yes
Type of fuse required (control unit):	3 x C 25 A