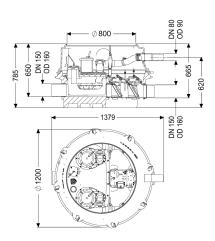


## Ecolift XL backwater lifting st. Duo, 2 motor flaps, SPF 4500-S1, Taper





## **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

ATEX: no

**Dimensions** 

Net weight:157,35 kgGross weight:176,13 kgGroundwater resistant from lower edge of base3000 mm

section:

Vertical drop between inlet and outlet:

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):

Distance pipe bottom outlet to tank bottom:

Distance pipe bottom inlet to tank bottom:

120 mm

135 mm

Distance from inlet pipe invert to top of tank:

645 mm

Number of outlets: 1

Outlet nominal size (DN): 150 mm
Inlet nominal size (DN): 150 mm
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

Number of pumps: 2 Weight, pump: 31 kg

Connection type: Direct connection

Rated current: 7.5 A Protection class: I Insulation class: F Cos phi - power factor: 0,88

IP 68 (3m/48h) Protection class (pump): Temperature monitoring: integrated

Max. temperature (permanent) of conveyed 40°C

material:

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 fuse required (electrical protection): 3 x C 25 A

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

Control

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: ves GSM interface: yes USB interface: yes Log book function: yes Multi-line display: yes Battery buffering: yes Self-diagnosis system (SDS): ves Type of fuse required (electrical protection): 3 x C 25 A