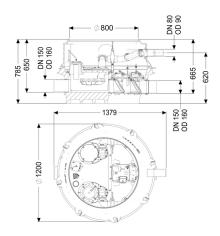


# Backwater lifting station Ecolift XL Mono, 2 motor-driven flaps, SPF 3000-S3, Taper





#### **Article information**

Item no.: 8741050 GTIN: 4026092070598

Price group: 60

## **Advantages**

- Wastewater drainage without interruption, even if a power failure occurs
- Low pump use
- minimised noise emissions
- ensures low power consumption
- Reduced maintenance costs due to longer maintenance intervals in commercial/industrial use

## **Description**

The backwater lifting station for faecal and non-faecal wastewater is equipped with one submersible pump, 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.

Type of wastewater: wastewater with and without sewage

Installation situation: underground installation, floor slab installation

Version:

Type of system: Single station

Shut-off valve: Shut-off valve made of polymer

Pump control: Control unit Backflow preventer: integrated

Note on installation depth: Version with lowest installation height

Passage seal for ventilation pipe (DN): 70 mm Passage seal for conduit pipe (DN): 100 mm

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
Number of motor-driven backwater flaps: 2

General characteristics:

Colour: black

Approval: Z-53.2-493

**Dimensions:** 

Length:1,245 mmWidth:1,200 mmHeight:780 mm

Tank:

Number of inlets: 1ST Inlet nominal size (DN): 150 Number of outlets: 1ST Outlet nominal size (DN): 150 Distance pipe bottom inlet to tank bottom: 135 mm Distance pipe bottom outlet to tank bottom: 120 mm Tank volume: 65 l Pumping volume: 20 l

Pressure pipe connection: horizontal Pressure pipe connection (DN): 80 mm
Pressure pipe connection (OD): 90 mm



Venting connection (DN): 70 mm

Channel: continuous channel

3,000 mm

Groundwater resistant from lower edge of base

section:

Clear width of tank (LW): 1,000 mm
Clear width of entry (LW): 800 mm
Nominal pressure (PN): 10

Free passage: 40 mm

### **Pumping device:**

Pump: SPF 3000

Number of pumps: 1

Max. pumping capacity:

Max. pumping height:

Operating mode:

Power P1:

Power P2:

S3 - 50 %

3.2 kW

Power P2:

2.7 kW

Speed:

Type of fuse required (electrical protection):

3 x C 16 A

Max. temperature (permanent) of conveyed 40 °C

material:

Connection type: Direct connection

Weight: 24 kg

Impeller type: Multi-vane impeller

Length of mains cable for pump: 10 m Rated current: 5.4 A

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

Protection class:

Type of pump connection cable: H07RN-F 7G 1.5 mm2

Temperature monitoring: integrated Cos phi - power factor: 0.89 Insulation class: F

Vertical drop between inlet and outlet: 15 mm

#### Control:

Control unit: Comfort Plus with redundancy

Operating voltage: 400 V Mains frequency: 50 Hz Self-diagnosis system (SDS): yes Battery buffering: yes Multi-line display: yes Log book function: yes USB interface: yes GSM interface: yes Potential-free contact: yes



Motor protection switch:yesStandby power:5 WProtection class control unit:IP 54Length of mains cable for control unit:0 m

Type of level measurement: pneumatic
Level measurement instrument: Immersion pipe
Alarm sensor: optical probe