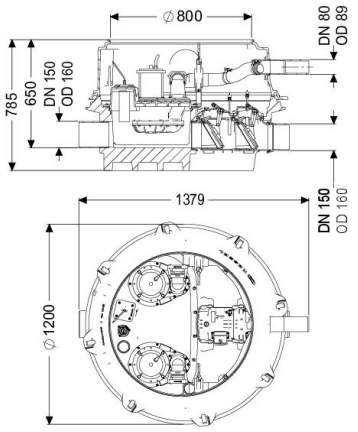
Data sheet

# Ecolift XL backwater lifting st. Duo, 2 motor flaps, SPF 4500-S3, Taper




## Article information

article number: 8741071
EAN code: 4026092070802
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 | 145.43 kg |
| Gross weight | 164.13 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 | 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 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 |