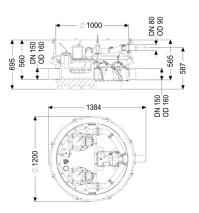


Backwater lifting station Ecolift XL Duo, 1 motor-driven flap, SPF 1400-S3





Article information

Item no.: 8741022 GTIN: 4026092068397

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 non-faecal wastewater is equipped with two submersible pumps, one motor-driven and one mechanical closure system 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. Backwater is detected by an optical probe, which causes the motor-driven closure system 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.



The KESSEL modular system provides different upper sections and engineering chamber options as accessories.

Type of wastewater: wastewater without sewage

Installation situation: free-standing set-up, underground installation, floor

slab installation

Version:

Type of system: Twin pump station

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

Pump control: Control unit Backflow preventer: integrated

Note on installation depth: Version for deeper installation, in combination with

a chamber module

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 3
Number of mechanical backwater flaps: 1
Number of motor-driven backwater flaps: 1

General characteristics:

Colour: black

Approval: Z-53.2-493

Dimensions:

Length: 1,245 mm Width: 1,200 mm Height: 657 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

Nominal pressure (PN): 10

Free passage: 40 mm

Pumping device:

Pump: SPF 1400

Number of pumps: 2

Max. pumping capacity: 28 m3/h Max. pumping height: 7.5 m Operating mode: S3 - 50 % Power P1: 1.6 kW Power P2: 1.1 kW Speed: 1,370 U/min

Type of fuse required (electrical protection): C 16 A 40 °C

Max. temperature (permanent) of conveyed

material:

Connection type: coded plug Weight: 25 kg

Multi-vane impeller Impeller type:

Length of mains cable for pump: 10 m Rated current: 7.3 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: 0.98 Insulation class: F

Vertical drop between inlet and outlet: 15 mm

Control:

Control unit: Comfort Plus

Operating voltage: 230 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
Standby power: 5 W
Protection class control unit: IP 54
Length of mains cable for control unit: 1.6 m
Type of level measurement: pneur

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