
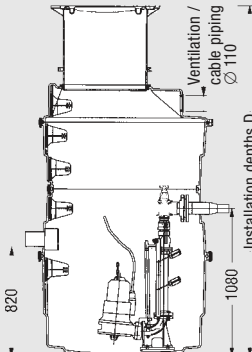
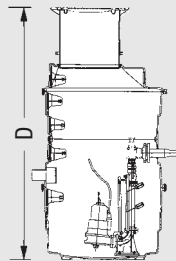



Pumping stations for underground installation according to EN 752

Pumping station Aqualift F Ø 1000

Products

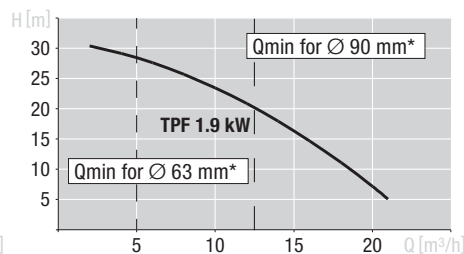
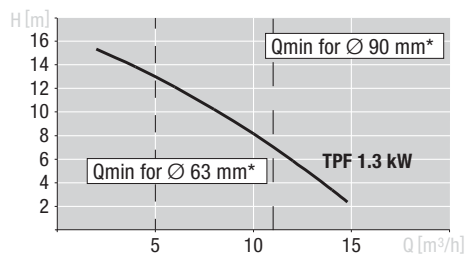
Illustration and dimensioned drawing	Article description	Pumping capacity	Pressure pipe*	Article # Class B	Article # Class D																
	Pumping station Aqualift F in Komfort inspection chamber system Ø 1000 in PE-HD Single station/twin station for wastewater with or without sewage For underground installation	1 1.3 kW 1.3 kW 1.3 kW 1.3 kW 1.3 kW 1.3 kW 1.3 kW	D1: 63/90 D2: 63/90 D3: 63/90 D4: 63/90 D5: 63/90 D6: 63/90 D7: 63/90	865 610 B 865 620 B 865 630 B 865 640 B 865 650 B 865 660 B 865 670 B	865 610 D 865 620 D 865 630 D 865 640 D 865 650 D 865 660 D 865 670 D																
	1 Single station 2 Twin station <input type="checkbox"/> Cover plate class A/B (Version B) <input type="checkbox"/> Cover plate class D (Version D)	1.9 kW 1.9 kW 1.9 kW 1.9 kW 1.9 kW 1.9 kW 1.9 kW	D1: 63/90 D2: 63/90 D3: 63/90 D4: 63/90 D5: 63/90 D6: 63/90 D7: 63/90	865 710 B 865 720 B 865 730 B 865 740 B 865 750 B 865 760 B 865 770 B	865 710 D 865 720 D 865 730 D 865 740 D 865 750 D 865 760 D 865 770 D																
	Including access steps, water-tight, resistant to aggressive media, upper section made of polymer, continuous height and level adjustment, cover class A/B, D in cast iron according to EN 124, inlet Ø 160, cable conduit connection Ø 110 according to EN 1401 and EN 12666-1 for ventilation pipes and cable piping respectively. Installation depth from 1.5 to 5 m (see table), Pumping volume approx. 180 liters.	2 1.3 kW 1.3 kW 1.3 kW 1.3 kW 1.3 kW 1.3 kW 1.3 kW	D1: 63/90 D2: 63/90 D3: 63/90 D4: 63/90 D5: 63/90 D6: 63/90 D7: 63/90	864 610 B 864 620 B 864 630 B 864 640 B 864 650 B 864 660 B 864 670 B	864 610 D 864 620 D 864 630 D 864 640 D 864 650 D 864 660 D 864 670 D																
	Pressure pipe ready mounted with backwater flap, closure valve. Single station with three float switches, twin station with four float switches for level control with cable length 10 m, pressure pipe connection PE-HD Ø 63 and Ø 90. Submersible motor pump TPF 1.3 KE / TPF 1.9 KE explosion-proof, with macerating blades for pumping wastewater with or without sewage, submersible (IP 68), electrical cable length 10 m. Electric control unit for fully automated pump operation, control unit is splash proof (IP 65), for wall mounting in dry, frost-free areas, PTB certification for installation in explosion risk areas, voltage 400 V at 50 Hz. With potential-free contact. Handles groundwater depths up to 500 mm (greater groundwater resistance on request) Explosive proof Accessories see page 112 *) Ø 90 by sawing off Optional 400 Volt Comfort control unit Art. # 860 000	1.9 kW 1.9 kW 1.9 kW 1.9 kW 1.9 kW 1.9 kW 1.9 kW	D1: 63/90 D2: 63/90 D3: 63/90 D4: 63/90 D5: 63/90 D6: 63/90 D7: 63/90	864 710 B 864 720 B 864 730 B 864 740 B 864 750 B 864 760 B 864 770 B	864 710 D 864 720 D 864 730 D 864 740 D 864 750 D 864 760 D 864 770 D																
<table><tr><th colspan="2">Installation depths (D):</th></tr><tr><td>D 1</td><td>1630 - 2130 mm</td></tr><tr><td>D 2</td><td>2130 - 2630 mm</td></tr><tr><td>D 3</td><td>2630 - 3130 mm</td></tr><tr><td>D 4</td><td>3130 - 3630 mm</td></tr><tr><td>D 5</td><td>3630 - 4130 mm</td></tr><tr><td>D 6</td><td>4130 - 4630 mm</td></tr><tr><td>D 7</td><td>4630 - 5130 mm</td></tr></table>	Installation depths (D):		D 1	1630 - 2130 mm	D 2	2130 - 2630 mm	D 3	2630 - 3130 mm	D 4	3130 - 3630 mm	D 5	3630 - 4130 mm	D 6	4130 - 4630 mm	D 7	4630 - 5130 mm					
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<div> EN 12050-1</div>																					

Pumping stations for underground installation according to EN 752

Installation example pumping station *Aqualift F* Ø 1000




Domestic wastewater flows with natural gradient to the pumping station ① and is pumped by the integrated TPF macerator pump ② over long distances (pressure draining) into the sewer. The pressure pipe ③ should always be laid frost-free. A control unit takes over the fully automatic pump control from within the building. Float switches ④ are used as level sensors. The system complies with the ATEX product directive and is suitable for installation in potentially explosive atmospheres.



* according to EN 12056-4

Pump type	TPF 1.3 KE	Pump type	TPF 1.9 KE
Power (P2)	1.3 kW	Power (P2)	1.9 kW
Input power (P1)	1.75 kW	Input power (P1)	2.6 kW
Amperage	3.5 A	Amperage	4.5 A
Fuses	3 x 16 A surge-proof	Fuses	3 x 16 A surge-proof
Voltage	400 V at 50 HZ	Voltage	400 V at 50 HZ
Cable length	10 m Length, 7 x 1.5 mm²	Cable length	10 m Length, 7 x 1.5 mm²
Protection	IP 68 Ex-protection	Protection	IP 68 Ex-protection

Professional advantages

- **Variable upper section**
inclinable and height adjustable
from 100 to 600 mm
- **Comfort control unit (optional)**
with mains power ON / OFF
switch and multilingual digital
display (EN, DE, FR, IT, PL, NL) showing
current operational status, settings and
logbook 
- **Simple to assemble** with light-weight
inspection chamber components and easy
connection technique.
- **Quick to mount** with a high level of
pre-fabrication (bottom part of inspection
chamber with pressure pipe) **and easy
connection** using fixed couplings for inlet
and pressure pipe and bores with lip
gaskets for ventilation and cable piping.
- **Long-term reliability** with an absolute
water-tight inspection chamber system
which is resistant to sedimentary deposits
and aggressive media as well as root
infiltration.
- **Fully automated operation** with an
electrical control unit with manual, off
and automatic mode, optical and audible
warning and alarm notification, detailed
operation and warning display, integrated
pump rotation check, anti-blocking
function, variable pump on and pump
off settings.
- **Systems with macerator** - permit the
realisation of smaller dimensioning of the
pressure pipes and longer distances to the
sewage system.
- **High pumping volume** thanks to the pump
chamber.
- **Additional reserve volume** if the system
should fail e.g. in the event of a power cut.
- Further inlets up to Ø 160 can be attached
on site, Ø 200 or larger in the factory.
- Suitable for installation
in explosion risk areas

