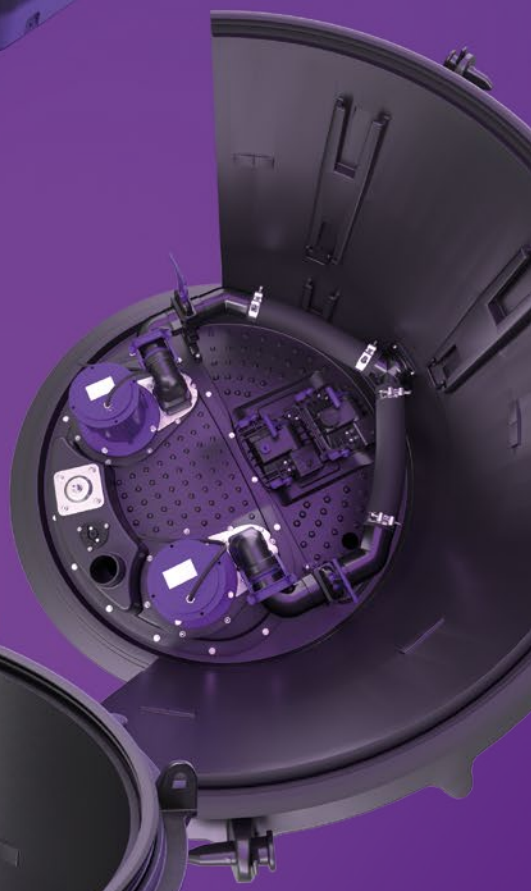
Range

Pump technology

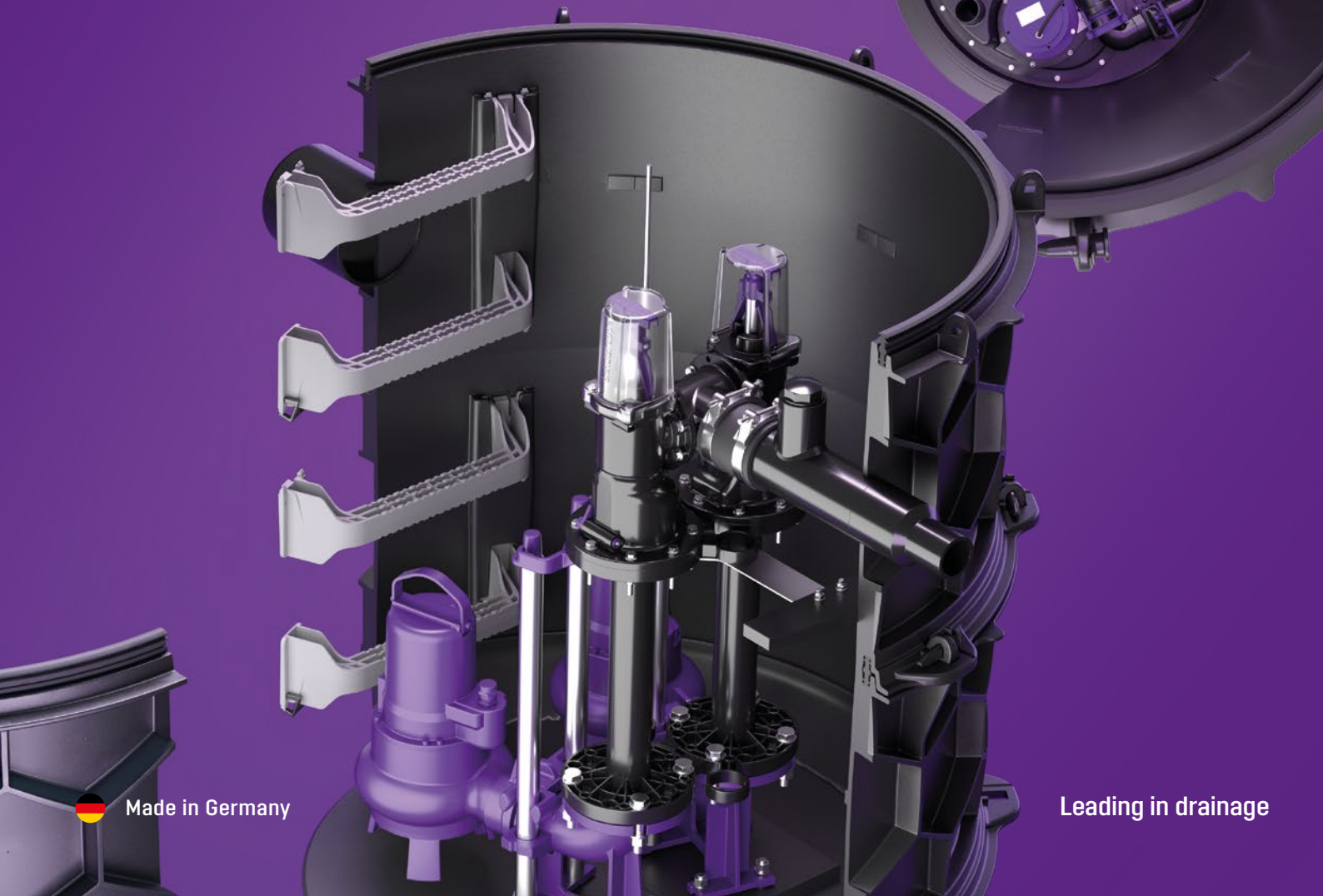
KESSEL



The complete range of

pump technology

Hybrid lifting stations
Lifting stations
Pumping stations
Submersible pumps
Warning and control units



Made in Germany

Leading in drainage

Criteria for product selection

Criteria

What amount of wastewater occurs?

Low

Medium

High

What is the installation situation?

Free-standing installation

Floor slab installation

Underground installation

Which type of wastewater is pumped?

Black water: water containing sewage

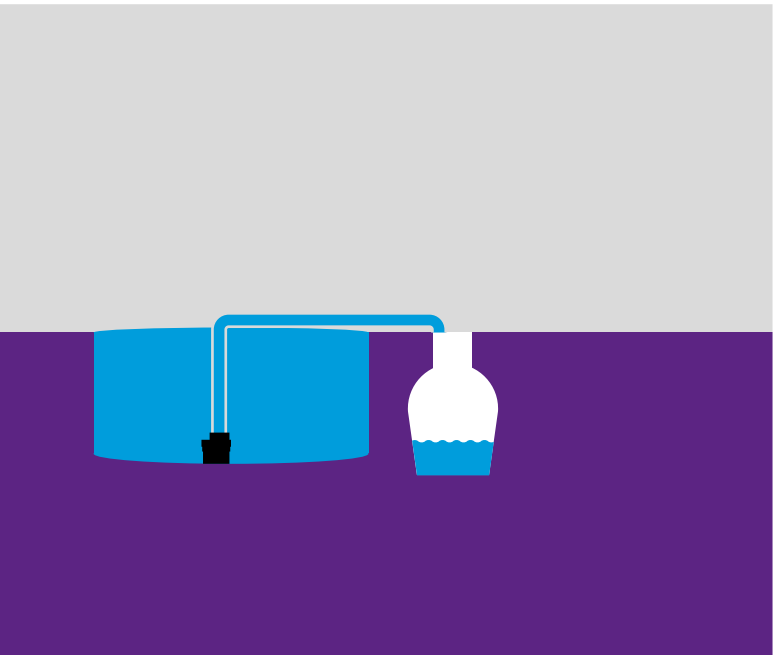
Grey water: water without sewage

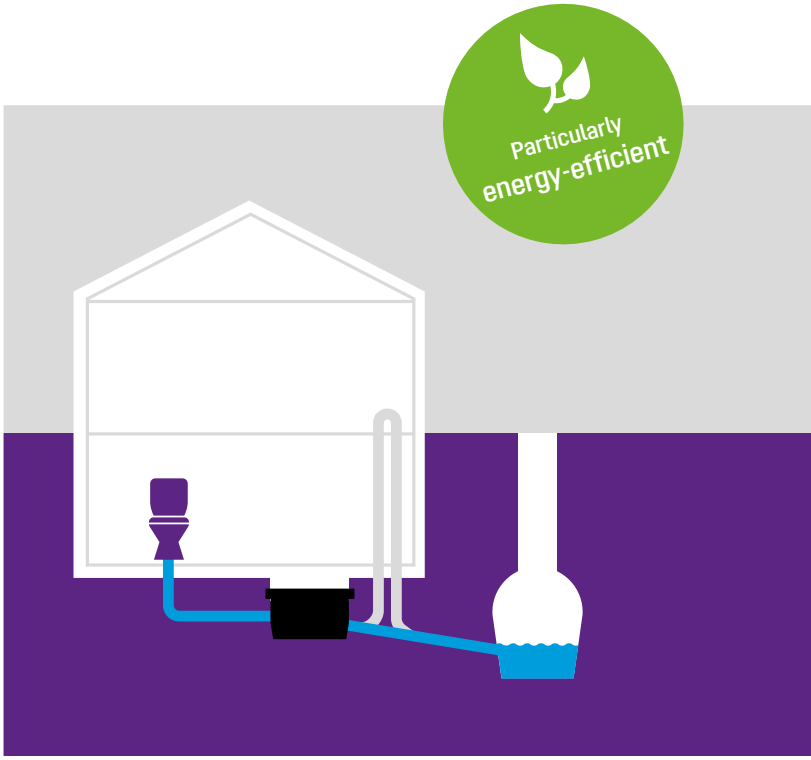
Definition of pump designations

KTP = KESSEL submersible pump
GTF = Grey water submersible pump with multi-vane impeller
GTK = Grey water submersible pump with channel impeller
SPF = Black water pump with multi-vane impeller
SPZ = Black water pump with macerating system
STZ = Black water submersible macerator pumps

Modes of operation (in accordance with DIN EN 60034-1)

S1 = Continuous duty
S3 = Intermittent duty





Submersible pumps

starting from page 46

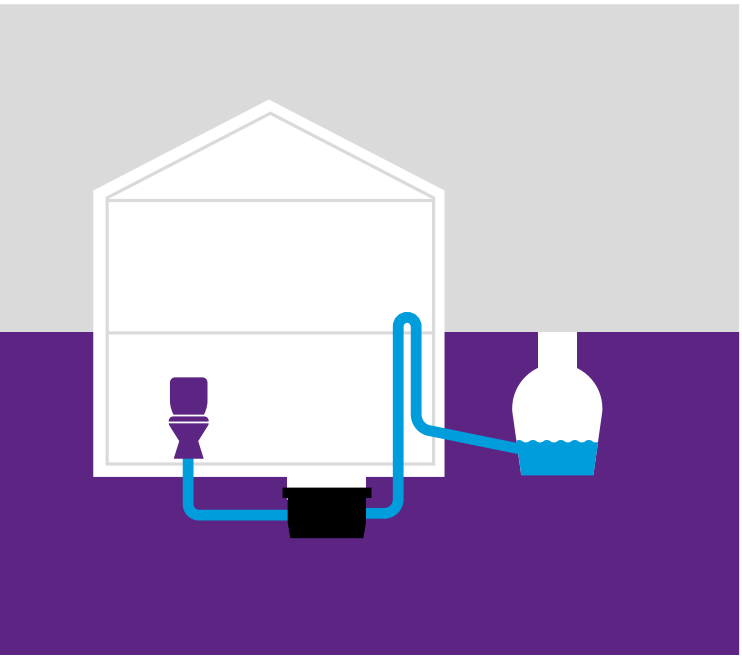
Submersible motor pumps for pumping larger quantities of clear water, rainwater and wastewater.

Hybrid lifting stations

starting from page 8

Hybrid solutions make use of a natural slope and only pump in the event of backwater or basement flooding. They are installed inside the building or outdoor underground.

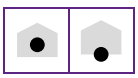
Different types of drainage

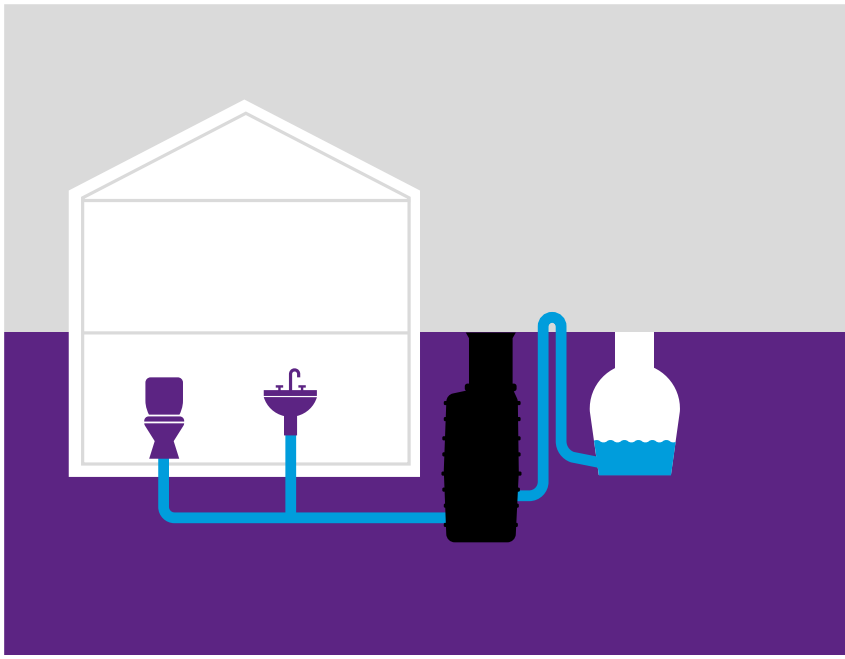


Lifting stations

starting from page 14

Lifting stations are installed inside the building – as free-standing units or in the concrete floor.





Pumping stations

starting from page 28

Pumping stations are installed underground outside the building.

Individual customised solutions

↗ **We make everything possible:** Page 53

The range at a glance

Hybrid lifting stations

Hybrid lifting station *Ecolift*
Page 10

Hybrid lifting station *Ecolift XL*
Page 12

Lifting stations

Small lifting station *Minilift F*
Page 15

Small lifting station *Minilift S*
Page 16

Wastewater station *Aqualift F Compact*
Page 18

Lifting station *Aqualift F Basic*
Page 20

Lifting station *Aqualift F*
Page 22

Lifting station *Aqualift S Compact*
Page 24

Lifting station *Aqualift F XL*
Page 26

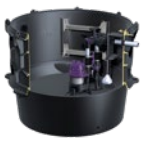
Pumping stations

Pumping station *Aqualift F Basic*
Page 30

Pumping station *Aqualift F*
Page 32

Pumping station *Aqualift S*
Page 34

Pumping station *Aqualift F XL*
Page 36



Pumping station *Aqualift S XL*
Page 40

Submersible pumps

Submersible pumps *KTP*
Page 48

Submersible pump *GTF*
Page 49

Conversion kit *Aqualift S* for collecting tanks
Page 50

Conversion kit *Aqualift F XL / S XL* for collecting tanks
Page 50

Warning and control units

↗ on page 52

Finding the right drainage system

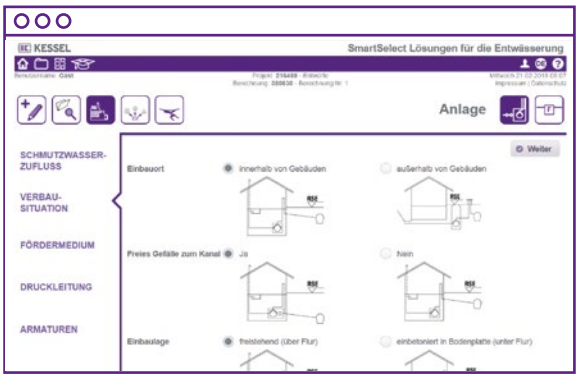
Always the right choice: SmartSelect.

SmartSelect is an effective tool for configuring, designing and calculating drainage solutions. It significantly reduces your planning effort.
With SmartSelect you can not only plan projects, but save them, open them again later and edit them.
And the best thing about it is: registration is free and takes only a few minutes.

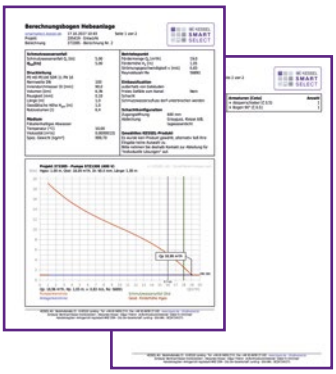
Register now for free at:
www.kessel.com/smartselect

SmartSelect simply makes planning faster:

- Calculation of occurrence of wastewater and special load cases
- Configuration of the installation situation including the pressure pipe
- Dimensioning of pump capacity
- Selection of a suitable lifting station or pumping station, including configuration of an engineering chamber



Enter criteria online

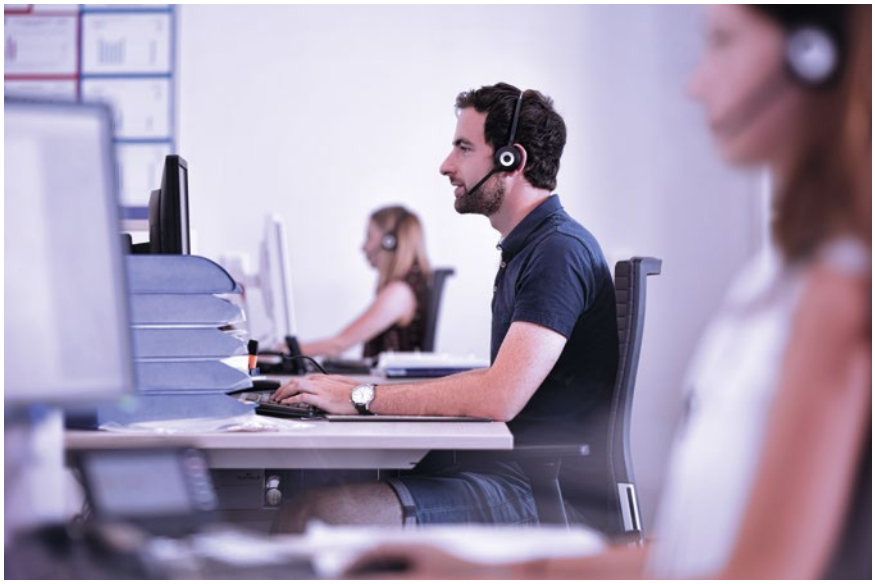


Product data sheet is prepared automatically

WE ARE HAPPY TO HELP YOU WITH
Technical questions:
+49 (0) 8456 / 27-462
info@kessel.com

Always there for you: your contacts.

A tool is great, but some questions are easiest answered in person. Our expert consultants will be happy to help.



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info@kessel.com

Visit the KESSEL website to find your local contact: **www.kessel.com/contact**

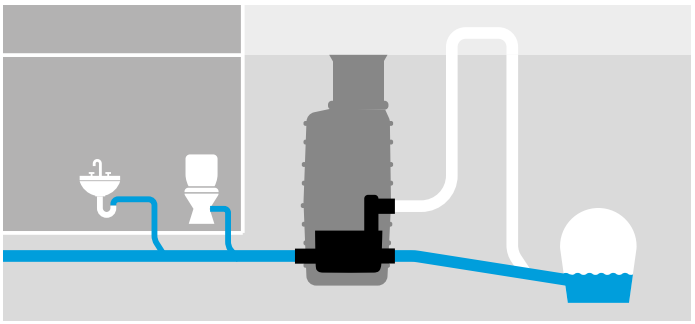
Hybrid lifting stations

Hybrid lifting station
Ecolift

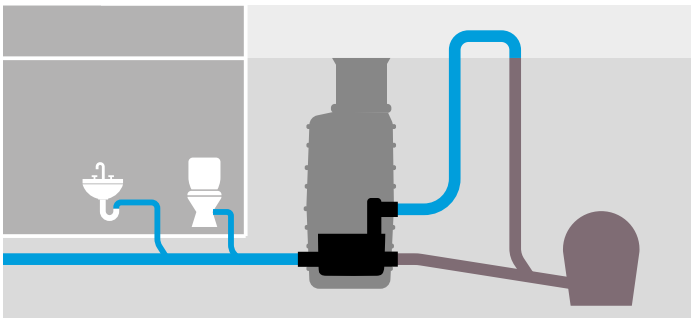
Hybrid lifting station
Ecolift XL

We have made direct connection safe.

Our hybrid lifting stations combine the safety of a lifting station with the efficiency of the natural slope: economical, quiet, safe.



Hybrid lifting stations make use of the natural slope to the sewer.



Wastewater is only disposed of by a pump in the event of backwater.

The direct connection is economical.

A lifting station always pumps wastewater. Which is why it constantly consumes energy. A hybrid lifting station is different – it only starts pumping when it is really needed. In addition to the improved ecobalance due to lower power consumption, there is a second major economic advantage: maintenance intervals are longer.

The direct connection is quiet.

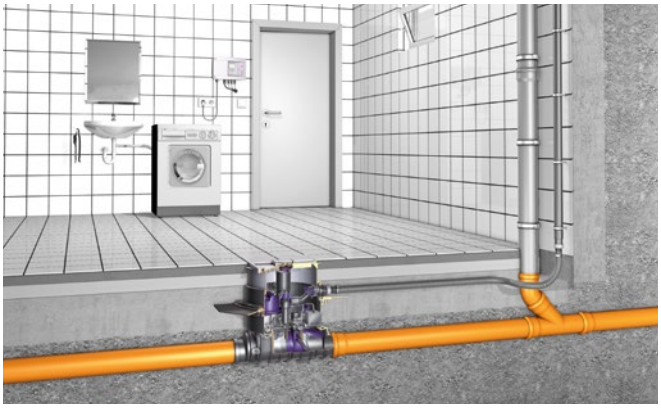
Despite cutting-edge mechanical designs and the latest noise insulation measures – pumps and their drives cause noise. This can be a real nuisance, particularly when the pumps are in continuous operation. Our hybrid lifting stations provide a remedy here, too. Because a pump that only runs when it has to only causes noise in an emergency.

The direct connection is safe.

Absolute operational safety – even in the event of a power failure – is the be-all and end-all of building drainage. Our hybrid lifting stations provide this safety, because they even work without electricity. Use of the natural slope means that there is no interruption in wastewater disposal even during a power failure.

Hybrid lifting station *Ecolift*

The clever version for private use.



In many residential buildings there is a natural slope to the sewer. In these cases, the compact hybrid lifting station *Ecolift* is the clever solution for basement drainage. It only starts working when really necessary, i.e. in the event of backwater. In this case, the wastewater is discharged by using the pump.

Floor slab installation

With tileable cover and drainage function. Any surface water which occurs e.g. following pipe bursts, is pumped to the sewer despite backwater.

Installation in a pipe

Installation in an exposed drainage pipe is possible without major conversion work and can be done at a later date. The unit is freely and easily accessible.

Self-diagnosis system

Plug-in ready Comfort control units with self-diagnosis system SDS and display – can be connected without a qualified electrician.

Flexible installation

New extension section with central flange, counter-flange and elastomer waterproofing sheet optional – as protection against water load for installation in waterproof concrete.

Inlet/outlet connections

removeable flange and spigot for customized connections – also in Ø 200

Practical accessories

Extension section with central flange
for installation in waterproof concrete
Article # 83 075

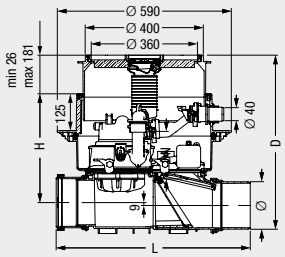
Extension section
incl. seal, max. extension: 180 mm
suitable for systems for floor slab installation
Article # 83 070

Pressure pipe
incl. 5 m pressure hose Ø 40
suitable for systems for floor slab installation
Article # 28 040

Pump types

Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
SPZ 1000	1000 W	230 V	S3 50 %	max. 10.9 m³/h	max. 9.5 m

Floor slab installation

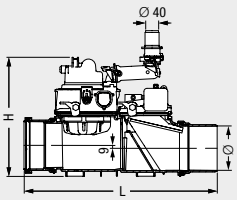


Installation depth D from 486 – 640 mm

Ø	L (mm)	H (mm)	Article #
Pump **SPZ 1000 black cover**			
110	642	394	**21 100S**
125	645	387	**21 125S**
160	656	370	**21 150S**
200*	720	348	**21 200S**
Pump **SPZ 1000 tileable cover**			
110	642	394	**21 100X**
125	645	387	**21 125X**
160	656	370	**21 150X**
200*	720	348	**21 200X**

* Inlet/outlet Ø 200, hydraulics corresponds to Ø 160

Installation in the pipe



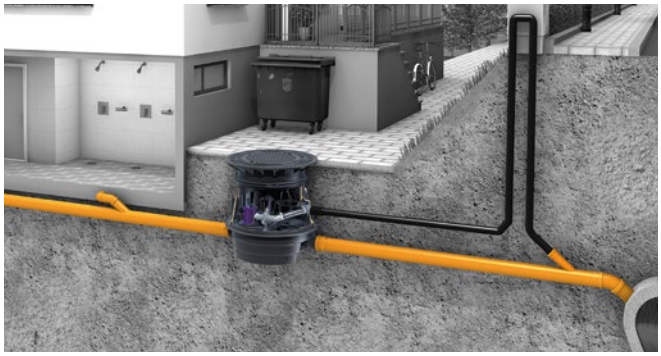
Ø	L (mm)	H (mm)	Article #
Pump **SPZ 1000**			
110	642	405	**21 100**
125	645	405	**21 125**
160	656	405	**21 150**
200*	720	405	**21 200**

* Inlet/outlet Ø 200, hydraulics corresponds to Ø 160

CE ÖNORM B 2501 Approval Z-53.2-487

Hybrid lifting station
Ecolift XL

The powerful version for commercial applications and multi-family homes.



With *Ecolift* XL we are now supplying a hybrid lifting station especially for use in commercial buildings and multi-family homes with a natural slope to the sewer. *Ecolift XL* uses the natural slope in normal operation and only pumps the wastewater in the event of backwater – with pumping capacities from 1.5 to 4.5 Kilowatt.

Safety
In the event of backwater, two motor-driven valve systems guarantee safe separation between sewer and building.

Monitoring
The system is monitored and controlled by pneumatic level measurement. An alarm sensor guarantees additional safety.

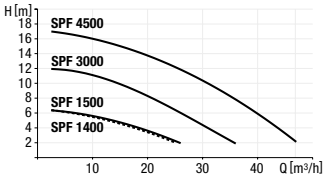
Control
A Comfort Plus control unit with display for full text display and a USB port for read-out are included as standard.

Flexible installation
Ecolift XL can be set up as a free-standing unit or be installed underground or in concrete within a corresponding engineering chamber.

Practical accessories

Outdoor control cabinet
for the installation of control units, modem, heating and warning light

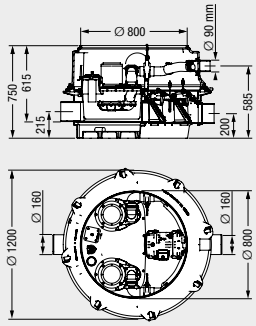
Pump types



Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
SPF 1400	1.6 kW	230 V	S1 / S3 50 %	max. 25 m³/h	max. 7 m
SPF 1500	1.4 kW	400 V	S1 / S3 50 %	max. 25 m³/h	max. 6.5 m
SPF 3000	3.2 kW	400 V	S1 / S3 50 %	max. 36 m³/h	max. 12 m
SPF 4500	4.5 kW	400 V	S1 / S3 50 %	max. 41 m³/h	max. 17 m

System base

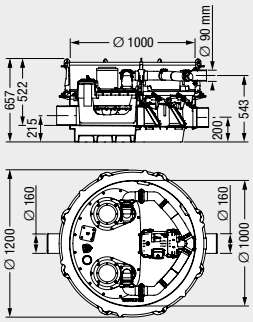
for minimum installation height
underground or in a concrete slab.



Pump	Article #
Mono system with one pump	
with one motor-driven backwater flap for wastwater without sewage	
SPF 1400-S3	**874 10 44**
SPF 1500-S3	**874 10 45**
SPF 3000-S3	**874 10 46**
SPF 4500-S3	**874 10 47**
with two motor-driven backwater flaps for wastwater with sewage	
SPF 1400-S3	**874 10 48**
SPF 1500-S3	**874 10 49**
SPF 3000-S3	**874 10 50**
SPF 4500-S3	**874 10 51**
Duo system with two pumps	
with one motor-driven backwater flap for wastwater without sewage	
SPF 1400-S1	**874 10 64**
SPF 1500-S1	**874 10 65**
SPF 3000-S1	**874 10 66**
SPF 4500-S1	**874 10 67**
with two motor-driven backwater flaps for wastwater with sewage	
SPF 1400-S1	**874 10 72**
SPF 1500-S1	**874 10 73**
SPF 3000-S1	**874 10 74**
SPF 4500-S1	**874 10 75**

System base

for free-standing set-up and
in combination with an engineering chamber.



Pump	Article #
Mono system with one pump	
with one motor-driven backwater flap for wastwater without sewage	
SPF 1400-S3	**874 10 06**
SPF 1500-S3	**874 10 07**
SPF 3000-S3	**874 10 08**
SPF 4500-S3	**874 10 09**
with two motor-driven backwater flaps for wastwater with sewage	
SPF 1400-S3	**874 10 10**
SPF 1500-S3	**874 10 11**
SPF 3000-S3	**874 10 12**
SPF 4500-S3	**874 10 13**
Duo system with two pumps	
with one motor-driven backwater flap for wastwater without sewage	
SPF 1400-S1	**874 10 26**
SPF 1500-S1	**874 10 27**
SPF 3000-S1	**874 10 28**
SPF 4500-S1	**874 10 29**
with two motor-driven backwater flaps for wastwater with sewage	
SPF 1400-S1	**874 10 34**
SPF 1500-S1	**874 10 35**
SPF 3000-S1	**874 10 36**
SPF 4500-S1	**874 10 37**

on page 42 Upper sections & system chambers

ÖNORM B 2501 Approval Z 53.2-493

Lifting stations

Small lifting station
Minilift F

Small lifting station
Minilift S

Lifting station
Aqualift F Compact

Lifting station
Aqualift F Basic

Lifting station
Aqualift F

Lifting station
Aqualift S Compact

Lifting station
Aqualift F XL

Small lifting station
Minilift F

The small version with the high-performance SharkTwister macerator.

The small lifting station *Minilift F* disposes of wastewater from the toilet and other sanitary units in rooms underneath the backwater level or without sufficient slope to the next wastewater collecting pipe. SharkTwister, the powerful high-quality macerator stainless steel pump chops faeces and toilet paper reliably and in a flash.

Intelligent control technology
The SharkTwister is controlled by intelligent control technology with an acoustic alarm function.

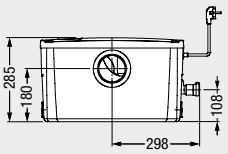
Separate dry area
The separate dry area for motor and control makes convenient and clean maintenance possible.

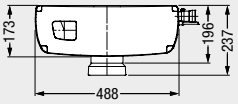
Straightforward maintenance
Integrated plug-in ready, the pump can be removed in no time.

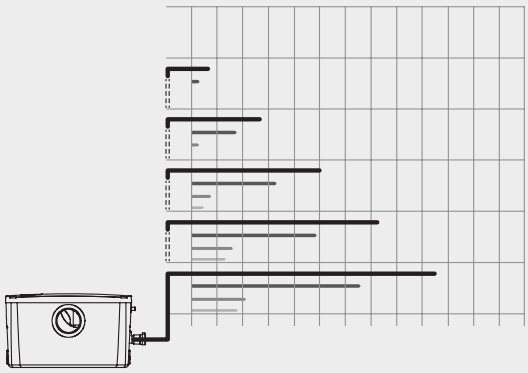
Additional connections
Minilift F provides two further connections e.g. for sink, shower, urinal, bidet. The ideal solution for the disposal from sanitary units in accordance with DIN EN 12050-3 (for restricted use).

Pump types

Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
Minilift F	650 W	230 V	S3	max. 6.5 m³/h	max. 6.5 m





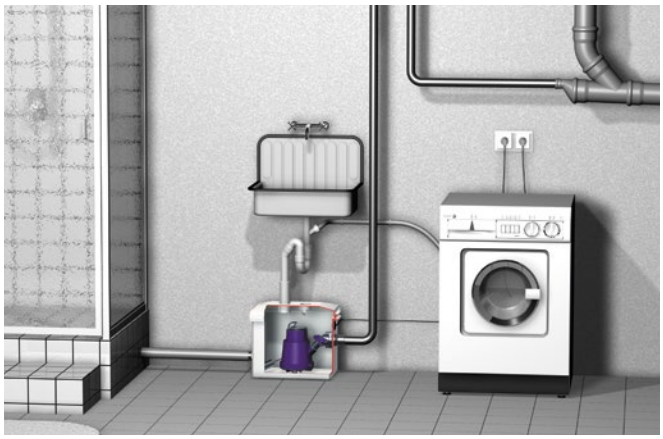


L (mm)	H (mm)	Article #
488	285	**28 520**

EN 12050-3

Small lifting station
Minilift S

The space-saving version for wastewater without sewage.



The small lifting station *Minilift S* fits easily under any sink or in the basement floor slab of course. A washing machine, shower or further inlets can all be connected at the same time. The system is equipped with a 300 W pump with float switch circuit.

Cleaning and maintenance

The pump can be removed for cleaning without any tools being necessary thanks to the practical “one-hand quick-release closure”.

Additional connections

Inlets can be scored in the side in addition to the standard connection in the cover of the lifting station.

Low weight

The low weight of only 7.2 kg makes the lifting station easy to install.

Pipes

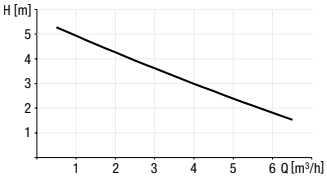
The pressure pipe can be executed using a PVC pipe Ø 40 mm or by screwing to the KESSEL pressure pipe set.

Practical accessories

Pressure pipe
not for use with free-standing set-up
incl. 5 m pressure hose Ø 40
suitable for systems for floor slab installation
Article # 28 040

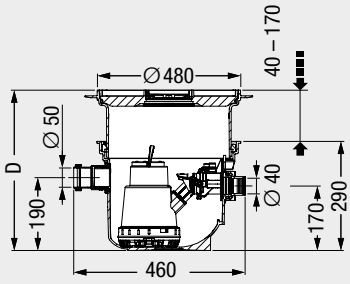
Pipe inlet seal
Ø 50
Article # 850 114
Ø 75
Article # 850 116
Ø 110
Article # 850 117

Pump types



Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
KTP 300	280 kW	230 V	S1	max. 8 m³/h	max. 6 m

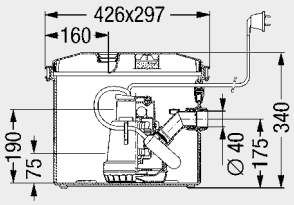
Floor slab installation



Installation depth D from 330 - 460 mm

Pump	Article #
tileable cover	
KTP 300-S1	**280 570X**
black cover	
KTP 300-S1	**280 570S**

Free-standing installation



L (mm)	H (mm)	Article #
426	340	**28 560**

EN 12050-2

Lifting station
Aqualift F Compact

The compact version for complete basement drainage.

The lifting station *Aqualift F Compact* takes over the complete basement drainage. It pumps the wastewater safely and completely automatically via the backwater level to the higher level sewage channel. Even following a pipe burst or flooding – thanks to the integrated drainage function. Its compact dimensions allow straightforward installation or free-standing set-up.

Maximum safety
The intelligent control unit with integrated self-diagnosis system SDS continually monitors all electric components and keeps an electronic operating log book which can be read out.

Ideal for renovation too
Thanks to its installation area of only 70 x 70 cm, the system can also be used in an existing pump sump.

Vertically adjustable upper section
Flexible adaptation to the required installation depth with the aid of the upper section which can be turned, tilted and height-adjusted.

Elegant appearance
The cover plate for a free choice of surface finished and the cover that can be tiled over result in an almost “invisible” lifting station.
Ideal for basement rooms which are used as living accommodation.

Pump removal
The pump can be removed without tools. The integrated backwater flap prevents wastewater from the pressure pipe flowing back.

Installation in waterproof concrete
The KESSEL seal set guarantees safe sealing against water pressure even for installation in waterproof concrete.

Practical accessories

Extension section with central flange
suitable for systems for floor slab installation (waterproof concrete)
Article # 83 075

Extension section
incl. seal, max. extension: 180 mm
suitable for systems for floor slab installation
Article # 83 070

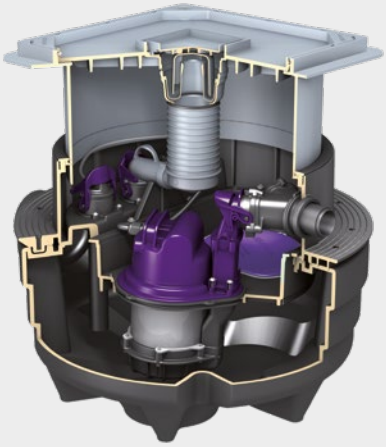
Adaptor Ø 110/75
can be used as an upper section
Article # 27 602

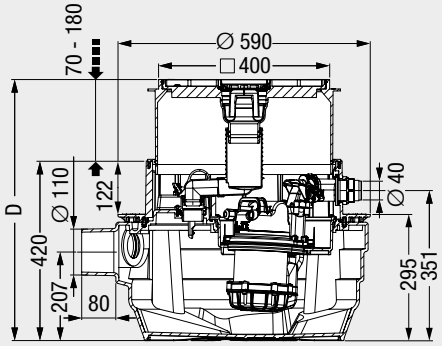
Pressure pipe
incl. 5 m pressure hose Ø 40
suitable for systems for floor slab installation
Article # 28 040

Pump types

Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
SPZ 1000	1000 W	230 V	S3 30 %	max. 10.9 m³/h	max. 9.5 m

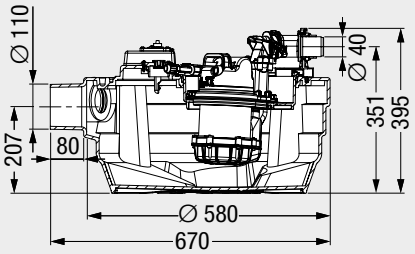
Floor slab installation





Cover	L(mm)	H (mm)	Article #
Pump **SPZ 1000 Mono system**			
tileable	670	490 - 600	**28 701-C**
black	670	490 - 600	**28 701S**
Pump **SPZ 1000 Duo system**			
tileable	670	490 - 600	**28 704-C**
black	670	490 - 600	**28 704S**

Free-standing installation



L(mm)	H (mm)	Article #
Pump **SPZ 1000 Mono system**		
670	395	**28 711-C**
Pump **SPZ 1000 Duo system**		
670	395	**28 743-C**

Approval 53.2-484

Lifting station
Aqualift F Basic

The economic version for domestic wastewater.

The economical alternative: for the disposal of domestic wastewater we offer the lifting station *Aqualift F Basic* – cutting edge technology at an unbeatable price. It is suitable without any restrictions for the drainage of private toilets, showers and sinks in frost-protected rooms below the backwater level. The lifting station with integrated backflow preventer discharges the wastewater via the pressure pipe by means of a flood-proof pump.

Pump

The pump SPF 1300 with blockage-proof multi-vane vortex impeller pumps wastewater quantities of up to 32 m^3 over maximum height of 9.2 m. Thanks to the wedge-shaped tank base, solids are routed directly to the pump and extracted completely and cleanly.

Control unit with float switch

The control unit Aqualift Basic 230 V is used for continual monitoring and fail-safe and precise pump operation. Switching and alarm levels are measured by a float switch.

Variable inlets

One inlet in the size Ø 50 to Ø 110 can be connected to the upper connecting socket, one inlet each in the size Ø 100 can be connected to the two connections at the side. The pre-scored area on the back also further inlets with up to 110 mm diameter to be attached.

Tank

The 50 l tank has an adequate size for private households.
The maximum useful volume is 20 l.

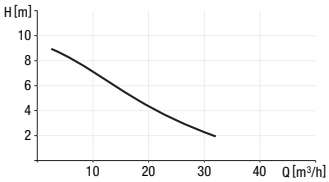
Practical accessories

Closure valve Ø 80
with PE flange adaptor
Article # 28 716

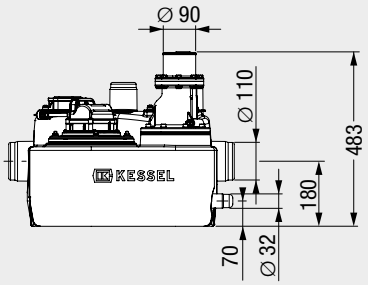
Hose connection made of PE Ø 110
for KESSEL polymer fittings, spigot for connection to pressure pipe
Article # 28 712

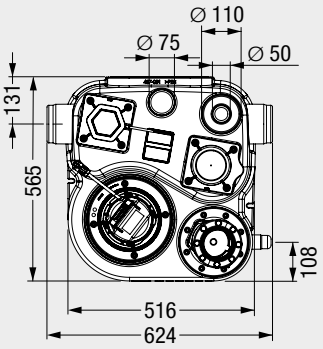
Hose connection Ø 110
for connection adaptor and pressure pipes made of PE
Article # 28 663

Pump types



Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
SPF 1300	1.5 kW	230 V	S3 - 15 %	max. 28 m^3/h	max. 8.5 m





Pump	Article #
SPF 1300	**28 798**

EN 12050-1

Lifting station
Aqualift F

The classic version for domestic wastewater.

Aqualift F is the classical solution for disposing of domestic wastewater. The Mono system is equipped with one pump, the Duo system has a second pump and is used where operation must not be interrupted due to pump failure.
The lifting station safely pumps the wastewater completely automatically through the pressure pipe via the backwater loop to the sewage system.

Multi-vane impeller

The wastewater pumps have a multi-vane impeller for pumping wastewater with and without sewage in accordance with EN 12050-1 and 2.

Variable inlets

One inlet connection from Ø 110 to Ø 160 is possible. Further inlets from Ø 50 to Ø 200 can be connected to the pre-scored areas.

Self-diagnosis system

Plug-in ready Comfort control units with self-diagnosis system SDS and display – can be connected without a qualified electrician (230 V).

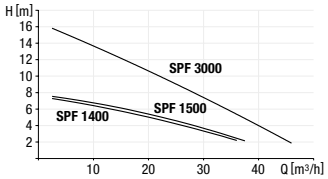
Pressure sensor

Aqualift F has an immersion pipe for pneumatic level measurement. An alarm sensor is optionally available.

Space-saving

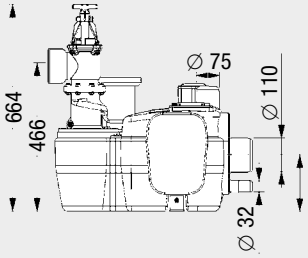
Space-saving installation thanks to the possibility of inlet connection Ø 110 (Duo system) from above and simple routing of the pressure pipe in the corner of the room.

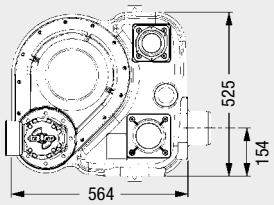
Pump types



Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
SPF 1400	1.6 kW	230 V	S3 50 %	max. 38 m³/h	max. 7 m
SPF 1500	1.4 kW	400 V	S3 50 %	max. 40 m³/h	max. 8 m
SPF 3000	3.2 kW	400 V	S3 50 %	max. 47 m³/h	max. 16 m

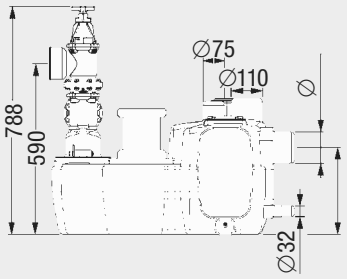
Mono

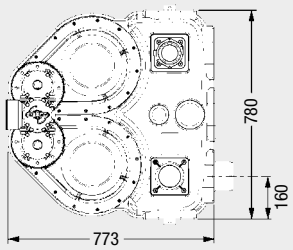




Pump	Closure valve	Article #
SPF 1400-S3	without	**28 646-C**
	with	**28 648-C**
SPF 1500-S3	without	**28 751**
	with	**28 753**
SPF 3000-S3	without	**28 752**
	with	**28 754**

Duo





Pump	Closure valve	Article #
SPF 1400-S3	without	**28 628-C**
	with	**28 629-C**
SPF 1500-S3	without	**28 764**
	with	**28 766**
SPF 3000-S3	without	**28 765**
	with	**28 767**
SPF 1400-S1	without	**11 605**
	with	**11 608**
SPF 1500-S1	without	**11 604**
	with	**11 607**
SPF 3000-S1	without	**11 606**
	with	**11 609**

CE EN 12050-1

Lifting station
Aqualift S Compact

The hygienic version for wastewater without sewage.

The lifting station *Aqualift S Compact* reliably and hygienically disposes of wastewater without sewage to the sewage system via a pressure pipe. It is available both with float switch control and with sensor control. The upper section can be turned, tilted and height-adjusted, allowing continuous height and level adjustment during installation and adaptation to the tile pattern.

Floor slab installation
New vertically adjustable upper section with flange for shallow bed waterproofing layer and with tileable cover.

Integrated drainage function
The drain integrated in the cover absorbs surface water. Even in the event of a pipe burst or leak, the pump discharges this soiled water continually over the backwater level.

Further connections
Different inlets up to Ø 100 e. g. for shower, washing machine and sink can be attached by simply scoring the areas at the side (underground installation).

Self-diagnosis system SDS
Plug-in ready Comfort control units with self-diagnosis system SDS with display – can be connected without a qualified electrician.

Flexible installation
New extension section with central flange, counter-flange and elastomer waterproofing sheet optional – as protection against water load for installation in waterproof concrete.

Modern appearance
Elegant appearance even for basement rooms which are used as living accommodation: the modern alternative to a pump sump.

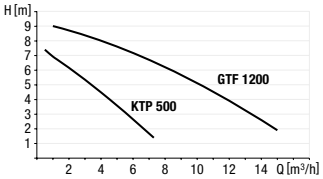
Practical accessories

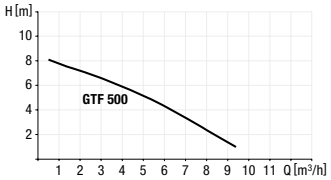
Extension section with central flange
for installation in waterproof concrete
Article # 83 075

Extension section
incl. seal, max. extension: 180 mm
suitable for systems for floor slab installation
Article # 83 070

Pressure pipe
incl. 5 m pressure hose Ø 40
suitable for systems for floor slab installation
Article # 28 040

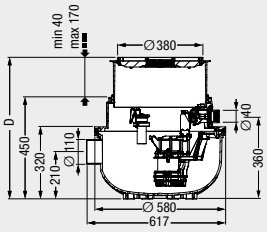
Pump types





Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
KTP 500	480 W	230 V	S1	max. 8 m³/h	max. 8 m
GTF 500	500 W	230 V	S1	max. 10 m³/h	max. 8 m
GTF 1200	1000 W	230 V	S3	max. 15,5 m³/h	max. 9 m

Floor slab installation



float switch controlled

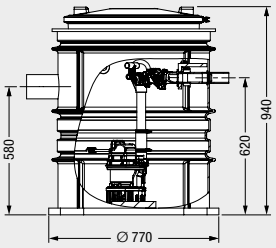
Pump	Article #
tileable cover	
GTF 500-S1	**280 500X**
GTF 500-S1 resistant	**280 500XC**
GTF 1200-S3	**281 200X**
black cover	
GTF 500-S1	**280 500S**
GTF 500-S1 resistant	**280 500SC**
GTF 1200-S3	**281 200S**

available from May 2019

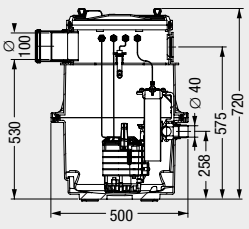
pressure sensor cotrolled

Pump	Article #
Mono system with one pump	
tileable cover	
GTF 500-S1	**280 550X**
GTF 500-S1 resistant	**280 550XC**
GTF 1200-S3	**281 250X**
black cover	
GTF 500-S1	**280 550S**
GTF 500-S1 resistant	**280 550SC**
GTF 1200-S3	**281 250S**
Duo system with two pumps	
tileable cover	
GTF 500-S1	**280 530X**
GTF 500-S1 resistant	**280 530XC**
GTF 1200-S3	**281 230X**
black cover	
GTF 500-S1	**280 530S**
GTF 500-S1 resistant	**280 530SC**
GTF 1200-S3	**281 230S**

Free-standing installation



Ideal for connection to grease separator systems.



Article #
Pump **GTF 1200 Duo system**
826 811-FA
Pump **KTP 500 Duo system**
28 541-C

EN 12050-2

Lifting station
Aqualift F XL

The high-performance version for commercial, industrial and communal applications.

Aqualift F XL is the powerful lifting station for commercial, industrial and communal applications. For example for the lifting of rainwater which occurs under the backwater level. In addition, it is optimally suitable for use downstream from separator systems. All the components – such as tanks and pumps – have been designed as a modular system.

Tanks
There are three tank sizes available with volumes of 200, 300 and 450 litres. All the tanks fit through standard size 800 doors, making their installation straightforward.

Pumps
The pumps are available in versions from 1400 to 5500 Watts. This includes S1 pumps suitable for continuous duty for pumping rainwater.

Multi-vane vortex impeller
The pumps have a multi-vane impeller for pumping wastewater with and without sewage in accordance with EN 12050-1 and 2.

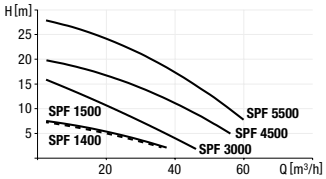
Closure valves
Closure valves and fittings made of polymer for lifting stations SPF 1400/1500/3000 and made of cast iron for lifting stations SPF 4500/5500.
Recommended from a geodetic pumping height of more than 5m and a volume flow of more than 20 m3h.

Pressure sensor
Aqualift F XL is equipped with a pressure sensor for reliable and precise level measurement.

Variable
Variable inlet connection from Ø 110 to Ø 160. Pre-scored areas on the side and back for further inlets from Ø 50 to Ø 200.

Self-diagnosis system
Plug-in ready Comfort control units with self-diagnosis system SDS with display – can be connected without a qualified electrician (230 V).

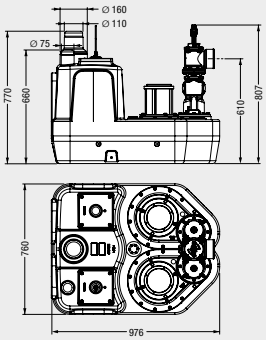
Pump types



Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
SPF 1400*	1.6 kW	230 V	S1 / S3 50 %	max. 7 m³/h	max. 7 m
SPF 1500*	1.4 kW	400 V	S1 / S3 50 %	max. 8 m³/h	max. 8 m
SPF 3000	3.2 kW	400 V	S1 / S3 50 %	max. 47 m³/h	max. 16 m
SPF 4500	4.5 kW	400 V	S1 / S3 50 %	max. 55 m³/h	max. 20 m
SPF 5500	5.7 kW	400 V	S1 50 %	max. 60 m³/h	max. 27 m

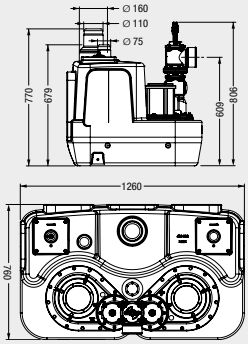
*** not for 450 l**

200 litres



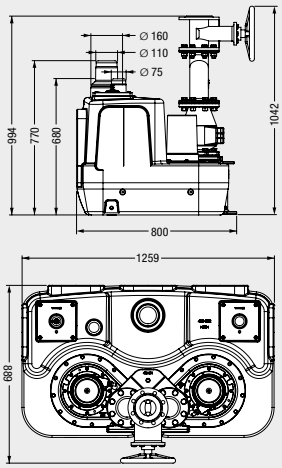
Pump	Closure valve	Article #
Mono system with one pump		
SPF 1400-S3	without	**11 000**
	made of polymer	**11 002**
SPF 1500-S3	without	**11 018**
	made of polymer	**11 020**
SPF 3000-S3	without	**11 036**
	made of polymer	**11 038**
SPF 4500-S3	without	**11 059**
	made of cast iron	**11 061**
SPF 5500-S3	without	**11 072**
	made of cast iron	**11 074**
Duo system with two pumps		
SPF 1400-S1	without	**11 085**
	made of polymer	**11 086**
SPF 1400-S3	without	**11 001**
	made of polymer	**11 003**
SPF 1500-S1	without	**11 095**
	made of polymer	**11 096**
SPF 1500-S3	without	**11 019**
	made of polymer	**11 021**
SPF 3000-S1	without	**11 105**
	aus Plastik	**11 106**
	made of cast iron	**11 108**
SPF 3000-S3	without	**11 037**
	made of polymer	**11 039**
	made of cast iron	**11 043**
SPF 4500-S1	without	**11 120**
	made of cast iron	**11 121**
SPF 4500-S3	made of cast iron	**10 062**
SPF 5500-S3	without	**11 073**
	made of cast iron	**11 075**

300 litres



Pump	Closure valve	Article #
Duo system with two pumps		
SPF 1400-S1	without	**11 090**
	made of polymer	**11 091**
SPF 1500-S1	without	**11 100**
	made of polymer	**11 101**
SPF 3000-S1	without	**11 110**
	made of polymer	**11 111**
	made of cast iron	**11 113**
SPF 4500-S1	without	**11 123**
	made of cast iron	**11 124**
SPF 5500-S3	without	**11 078**
	made of cast iron	**11 080**

450 litres

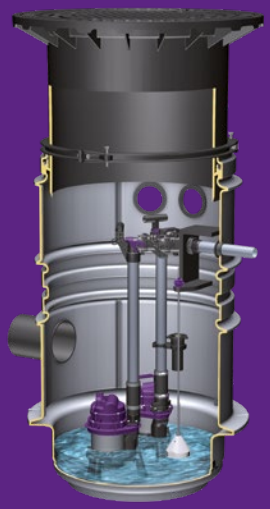


Pump	Closure valve	Article #
Duo system with two pumps		
SPF 3000-S1	without	**11 115**
	made of polymer	**11 116**
	made of cast iron	**11 118**
SPF 3000-S3	without	**11 054**
	made of polymer	**11 055**
	made of cast iron	**11 057**
SPF 4500-S1	without	**11 126**
	made of cast iron	**11 127**
SPF 4500-S3	made of cast iron	**11 070**
SPF 5500-S3	without	**11 082**
	made of cast iron	**11 083**

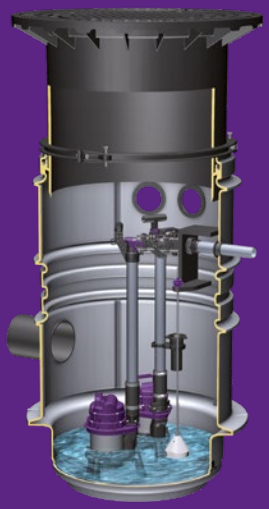
EN 12050-1

Pumping stations

Pumping station
Aqualift F Basic



Pumping station
Aqualift F



Pumping station
Aqualift S

Pumping station
Aqualift F XL

Pumping station
Aqualift S XL

For wet and dry installation.

For wet installation the pumping station is equipped with a large, easily accessible collecting tank, permitting fast and low-cost pump maintenance.
In comparison with wet installation, dry installation offers mainly hygienic advantages for maintenance and repair, since the pumping station has a separate collecting chamber. In addition, pumps do not require ATEX approval for dry installation.

For all requirements.

Depending on the requirements, pumps for wastewater with and without sewage and single or twin stations can be fitted in the various in-house developed pumping stations.

For the heaviest of loads.

Extremely rigid and extremely resilient: the first standard-compliant (DIN EN 13598-2) chamber module made of polymer is as strong as concrete, yet lightweight and resistant. It can be set up as a modular structure comprising 500 mm and 250 mm sections. Different covers are available for the load classes B and D (passenger cars/trucks).
Our engineering chambers are also suitable for installation in waterproof concrete and resistant to groundwater up to 3 m.

Pumping station
Aqualift F Basic

The economic version for wastewater with sewage.

As far as the disposal of wastewater with sewage outside buildings is concerned, the pumping station *Aqualift F Basic* makes looking for an economic alternative child's play. It provides cutting-edge technology at an unbeatable price, housed in a sturdy installation chamber.

The pumping station *Aqualift F Basic* is available either as a Mono or Duo system. It is equipped with a float switch and a control unit (Tronic).

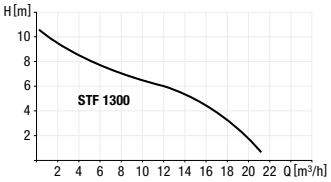
Practical accessories

Upper section
Height adjustable from 140 – 440 mm
Article # 829 100

Closure valve
for Mono version
Article # 829 200

Closure valve
for Duo version
Article # 829 250

Pump types



Pump	Power (P1)	Voltage	Inlet	Operating mode	Pumping capacity	Pumping height
STF 1300	1,3 kW	230 V	Ø 110/160	S3 (50%)	21 m³/h	10 m

100% waterproof and odour-tight

Like all KESSEL installation chambers, the tank of the pumping station *Aqualift F Basic* is absolute waterproof and odour-tight and is covered by our guarantee, which we have voluntarily extended to 20 years.

Integrated backflow preventer

All the variants are equipped with an integrated backflow preventer as standard.

Suspended pump(s)

The pumping station has either one or two freely suspended pumps of the type STF 1300. Noise levels during operation are reduced by decoupling from the tank material.

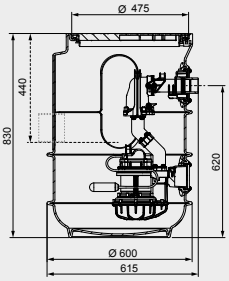
Tool-free maintenance

Thanks to the quick-release closures, the pump can be removed and serviced very easily.

Free pre-scored areas

Additional connections for inlet, venting and conduit pipe can be freely positioned at the pre-scored areas on the side.

Mono

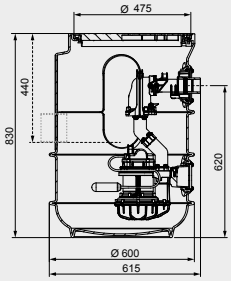


Installation depth D 830 mm

Level measurement	Article #
Pump **STF 1300-S3**	
Float switch	**829 710**
Tronic	**829 711**

available from June 2019

Duo



Installation depth D 830 mm

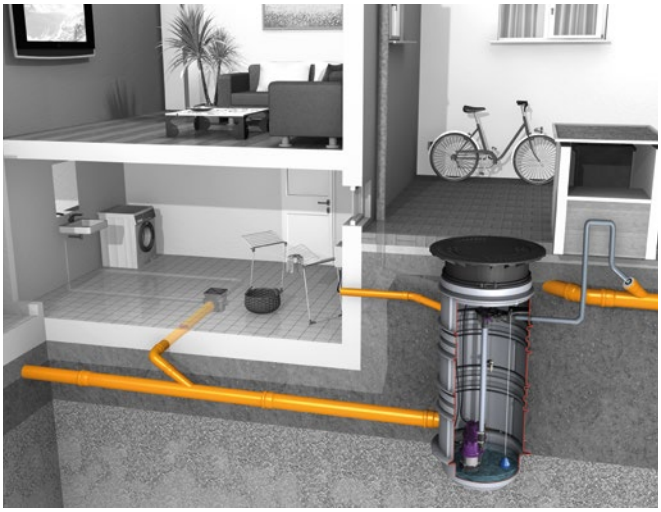
Level measurement	Article #
Pump **STF 1300-S3**	
Tronic	**828 711**

available from September 2019

EN 12050-1

Pumping station
Aqualift F

The compact version for wastewater with sewage.



The pumping station *Aqualift F* is used for the disposal of wastewater with sewage below the backwater level. The installation chamber, 600 mm in diameter, contains the pump STZ 1000 for grey and black water and is resistant to groundwater to a depth of 2000 mm.

Height-adjustable upper section

The upper section offers vertical adjustability by up to 500 mm. For simple adaptation to the ground level.

Innovative pressure sensor

The pumping station is available with an innovative pressure sensor which measures the level of wastewater precisely and reliably: as soon as the maximum water level is reached, the pump pumps the water into the sewage system via a pressure pipe.

Maximum safety

The intelligent control unit (for systems with pressure sensor) with integrated self-diagnosis system SDS continually monitors all the electrical components.

Convenient installation

The low weight of the chamber components, straightforward connection technology, high degree of pre-assembly (lower section of the chamber with pressure pipe), fixed connecting pieces for inlet and pressure pipe and the bore holes with lip seals for venting and conduit pipe all contribute to fast and easy installation.

Permanent protection

The chamber system is absolutely waterproof and resistant to dirt deposits or aggressive media. In addition, it reliably prevents root penetration.

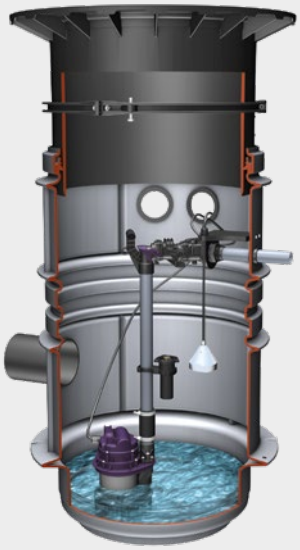
Simple pump maintenance

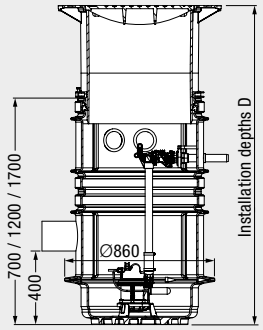
Maintenance work on the pump is particularly easy thanks to integrated guide pipes.

Pump types

Pump	Power (P1)	Voltage	Inlet	Operating mode	Pumping capacity	Pumping height
STZ 1000	1080 W	230 V	Ø 160	S3 – 30 %	11,5 m³/h	10 m

Mono

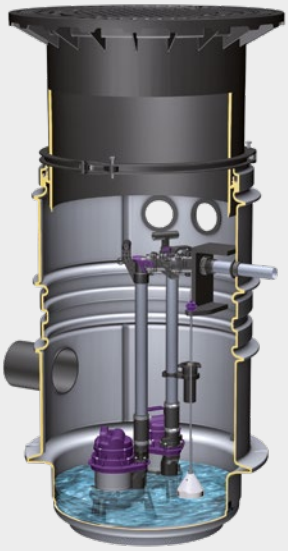


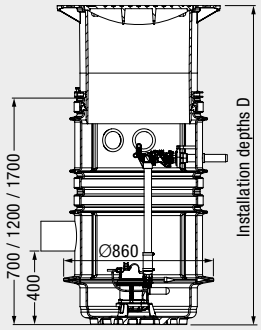


Installation depth D1 from 800 – 1250 mm
Installation depth D2 from 1300 – 1750 mm
Installation depth D3 from 1800 – 2250 mm

D	Level measurement	Article #
Pump **STZ 1000** (installation-ready)		
D1	Float switch	**827 710 A/B/D**
D2	Float switch	**827 720 A/B/D**
D3	Float switch	**827 730 A/B/D**
D1	Pressure sensor	**827 711 A/B/D**
D2	Pressure sensor	**827 721 A/B/D**
D3	Pressure sensor	**827 731 A/B/D**
Pump **STZ 1000** (without inlet bore hole)		
D1	Float switch	**827 710 A – FR**
D2	Float switch	**827 720 A – FR**
D3	Float switch	**827 730 A – FR**
D1	Pressure sensor	**827 711 A – FR**
D2	Pressure sensor	**827 721 A – FR**
D3	Pressure sensor	**827 731 A – FR**

Duo





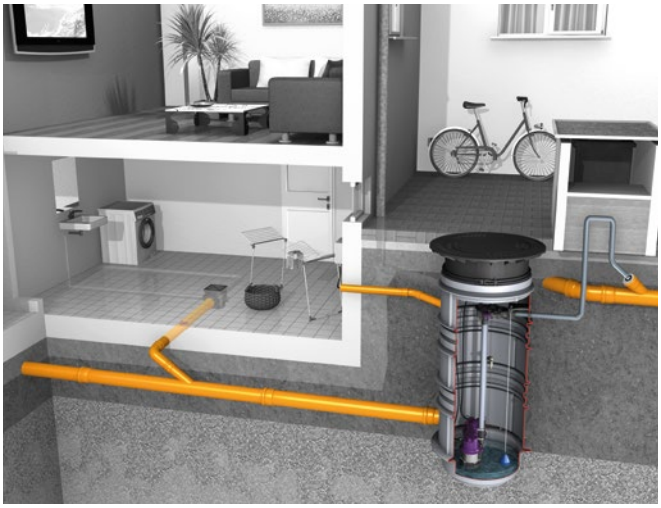
Installation depth D1 from 800 – 1250 mm
Installation depth D2 from 1300 – 1750 mm
Installation depth D3 from 1800 – 2250 mm

D	Level measurement	Article #
Pump **STZ 1000** (installation-ready)		
D1	Pressure sensor	**826 711 A/B/D**
D2	Pressure sensor	**826 721 A/B/D**
D3	Pressure sensor	**826 731 A/B/D**
Pump **STZ 1000** (without inlet bore hole)		
D1	Pressure sensor	**826 711 A – FR**
D2	Pressure sensor	**826 721 A – FR**
D3	Pressure sensor	**826 731 A – FR**

EN 12050

Pumping station
Aqualift S

The compact version for wastewater and rainwater.



The pumping station *Aqualift S* can be used for the draining of wastewater without sewage below the backwater level, as backwater protection for separator systems and for clearing drainage lines. It comprises a standard chamber LW 600 and an integrated pump for wastewater and rainwater and is resistant to groundwater up to 2,500 mm.

Height-adjustable upper section

The upper section permits continuous height compensation by up to 500 mm. For simple adaptation to the ground level.

Innovative pressure sensor

The pumping station is available with an innovative pressure sensor which measures the level of wastewater precisely and reliably: as soon as the maximum water level is reached, the pump pumps the water into the sewage system via a pressure pipe.

Maximum safety

The intelligent control unit (for systems with pressure sensor) with integrated self-diagnosis system SDS continually monitors all the electrical components.

Convenient installation

The low weight of the chamber components, straightforward connection technology, high degree of pre-assembly (lower section of the chamber with pressure pipe), fixed connecting pieces for inlet and pressure pipe and the bore holes with lip seals for venting and conduit pipe all contribute to fast and easy installation.

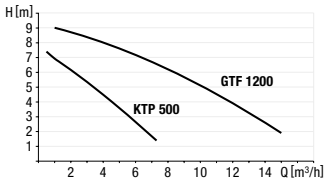
Permanent protection

The chamber system is absolutely waterproof and resistant to dirt deposits or aggressive media. In addition, it reliably prevents root penetration.

Simple pump maintenance

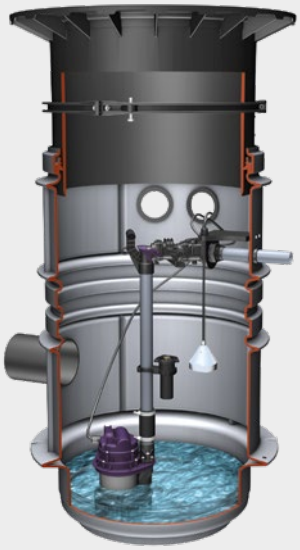
Maintenance work on the pump is particularly easy thanks to integrated guide pipes.

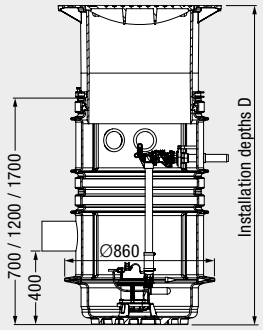
Pumpentypen



Pump	Power (P1)	Voltage	Inlet	Operating mode	Pumping capacity	Pumping height
KTP 500	280 W	230 V	Ø 110	S1	max. 8,5 m³/h	max. 8 m
GTF 1200	1,2 kW	230 V	Ø 160	S3 50 %	max. 15,5 m³/h	max. 9 m

Mono

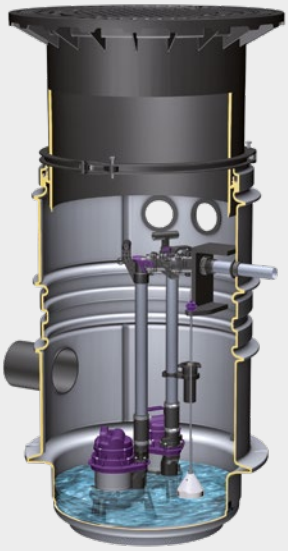


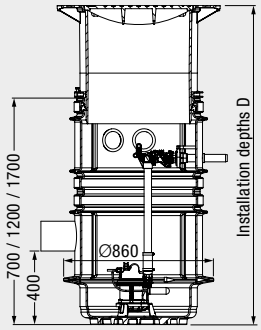


Installation depth D1 from 800 - 1250 mm
Installation depth D2 from 1300 - 1750 mm
Installation depth D3 from 1800 - 2250 mm

D	Level measurement	Article #
Pump **KTP 500**		
D1	Float switch	**825 810 B/D**
D2	Float switch	**825 820 B/D**
D3	Float switch	**825 830 B/D**
D1	Pressure sensor	**825 811 B/D**
D2	Pressure sensor	**825 821 B/D**
D3	Pressure sensor	**825 831 B/D**
Pump **GTF 1200**		
D1	Float switch	**827 810 B/D**
D2	Float switch	**827 820 B/D**
D3	Float switch	**827 830 B/D**
D1	Pressure sensor	**827 811 B/D**
D2	Pressure sensor	**827 821 B/D**
D3	Pressure sensor	**827 831 B/D**

Duo





Installation depth D1 from 800 - 1250 mm
Installation depth D2 from 1300 - 1750 mm
Installation depth D3 from 1800 - 2250 mm

D	Level measurement	Article #
Pump **KTP 500**		
D1	Pressure sensor	**824 811 B/D**
D2	Pressure sensor	**824 821 B/D**
D3	Pressure sensor	**824 831 B/D**
Pump **GTF 1200**		
D1	Pressure sensor	**826 811 B/D**
D2	Pressure sensor	**826 821 B/D**
D3	Pressure sensor	**826 831 B/D**

CE EN 12050-2

Pumping station
Aqualift F XL for dry installation

The hygienic version for large quantities of wastewater with sewage.

The pumping station *Aqualift F XL* can cope with large quantities of wastewater containing sewage, and is thus suitable not only for typical residential buildings but also particularly for commercial and industrial use. The pumping station has been designed as a modular system and can be combined in a versatile way with engineering and chamber modules.

Technical modules

Version for underground installation or installation in the concrete slab for combination with the new chambers modules in different installation heights. Large selection of powerful pumps with a high useful volume up to 820 litres.

Chamber modules

Modular chamber height structure. Lift-protected chamber system with innovative honeycomb structure. Resistant to groundwater up to 3 m and can be drilled up to Ø 160. Vertically adjustable upper sections with access opening Ø 600 or Ø 800 mm and large selection of covers.

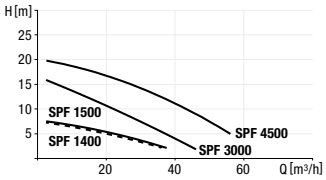
Comfort control units

Control units with self-diagnosis system SDS monitor pump and battery buffering and carry out a monthly self-test. The Comfort version has a multi-line display for operating state and maintenance instruction as well as user-friendly menu navigation in six languages.

Straightforward maintenance

With an internal diameter of 1 m, the inspection chamber is easily accessible and has access steps in accordance with the standard and the requirements of the employers' liability insurance association.

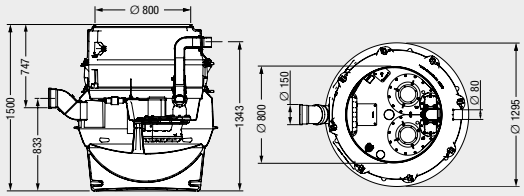
Pump types for dry installation



Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
SPF 1400	1,6 kW	230 V	S1 / S3 50 %	max. 38 m³/h	max. 7 m
SPF 1500	1,4 kW	400 V	S1 / S3 50 %	max. 40 m³/h	max. 8 m
SPF 3000	3,2 kW	400 V	S1 / S3 50 %	max. 47 m³/h	max. 16 m
SPF 4500	4,5 kW	400 V	S1 / S3 50 %	max. 55 m³/h	max. 20 m

System base

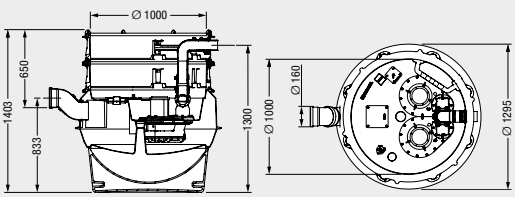
for minimum installation depth



Pump	Article #
Mono system with one pump	
SPF 1400-S3	**874 20 12**
SPF 1500-S3	**874 20 13**
SPF 3000-S3	**874 20 14**
SPF 4500-S3	**874 20 15**
Duo system with two pumps	
SPF 1400-S3	**874 20 16**
SPF 1500-S3	**874 20 17**
SPF 3000-S3	**874 20 18**
SPF 4500-S3	**874 20 19**
SPF 1400-S1	**874 20 20**
SPF 1500-S1	**874 20 21**
SPF 3000-S1	**874 20 22**
SPF 4500-S1	**874 20 23**

System base

For installation up to 5m



Pump	Article #
Mono system with one pump	
SPF 1400-S3	**874 20 00**
SPF 1500-S3	**874 20 01**
SPF 3000-S3	**874 20 02**
SPF 4500-S3	**874 20 03**
Duo system with two pumps	
SPF 1400-S3	**874 20 04**
SPF 1500-S3	**874 20 05**
SPF 3000-S3	**874 20 06**
SPF 4500-S3	**874 20 07**
SPF 1400-S1	**874 20 08**
SPF 1500-S1	**874 20 09**
SPF 3000-S1	**874 20 10**
SPF 4500-S1	**874 20 11**

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Pumping station
Aqualift F XL for wet installation

The versatile version for large quantities of wastewater with sewage.

The pumping station *Aqualift F XL* can cope with large quantities of wastewater containing sewage, and is thus suitable not only for typical residential buildings but also particularly for commercial and industrial use. The pumping station has been designed as a modular system and can be combined in a versatile way with engineering and chamber modules.

Technical modules

Version for underground installation or installation in the concrete slab for combination with the new chambers modules in different installation heights. Large selection of powerful pumps with a high useful volume up to 820 litres.

Chamber modules

Modular chamber height structure. Lift-protected chamber system with innovative honeycomb structure. Resistant to groundwater up to 3 m and can be drilled up to Ø 160. Vertically adjustable upper sections with access opening Ø 600 or Ø 800 mm and large selection of covers.

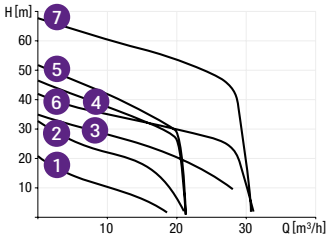
Comfort control units

Control units with self-diagnosis system SDS monitor pump and battery buffering and carry out a monthly self-test. The Comfort version has a multi-line display for operating state and maintenance instruction as well as user-friendly menu navigation in six languages.

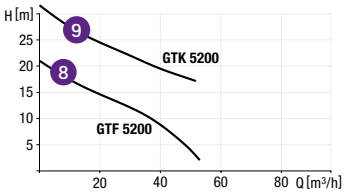
Straightforward maintenance

With an internal diameter of 1 m, the inspection chamber is easily accessible and has access steps in accordance with the standard and the requirements of the employers' liability insurance association.

Pump types for wet installation



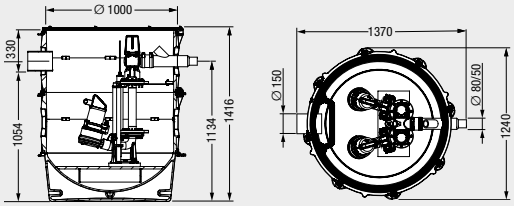
	Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
1	**STZ 1300**	1,3 kW	400 V	S1	max. 20 m³/h	max. 21 m
2	**STZ 2500**	2,5 kW	400 V	S1	max. 21 m³/h	max. 33 m
3	**STZ 3700**	3,7 kW	400 V	S1	max. 28 m³/h	max. 35 m
4	**STZ 4400**	4,4 kW	400 V	S1	max. 21,3 m³/h	max. 46,7 m
5	**STZ 5200**	5,2 kW	400 V	S1	max. 21,3 m³/h	max. 52 m
6	**STZ 7500**	7,5 kW	400 V	S1	max. 30,7 m³/h	max. 42 m
7	**STZ 11000**	11 kW	400 V	S1	max. 30,6 m³/h	max. 68 m



	Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
8	**GTF 5200**	5,2 kW	400 V	S1	max. 52,8 m³/h	max. 21 m
9	**GTK 5200**	5,2 kW	400 V	S1	max. 51,6 m³/h	max. 31,6 m

System base

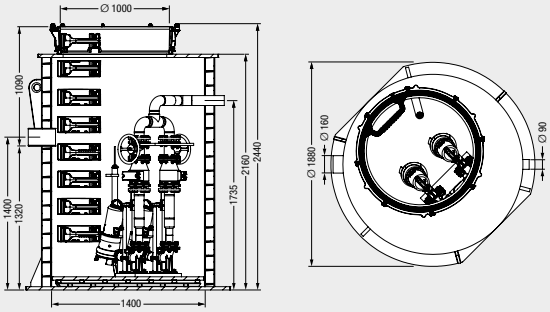
with pumps < 4 kW



Pump	Pumpingvolume (liter)	Article #
Mono system with one pump		
STZ 1300-S1	310	**874 30 14**
STZ 2500-S1	310	**874 30 15**
STZ 3700-S1	310	**874 30 16**
Duo system with two pumps		
STZ 1300-S1	300	**874 30 17**
STZ 2500-S1	300	**874 30 18**
STZ 3700-S1	300	**874 30 19**

System base

with pumps > 4 kW



Pump	Pumpingvolume (liter)	Article #
Mono system with one pump		
STZ 4400-S1	820	**874 30 35**
STZ 5200-S1	820	**874 30 36**
STZ 7500-S1	820	**874 30 37**
STZ 11000-S1	820	**874 30 38**
GTF 5200-S1	900	**874 30 43**
GTK 5200-S1	900	**874 30 45**
Duo system with two pumps		
STZ 4400-S1	800	**874 30 39**
STZ 5200-S1	800	**874 30 40**
STZ 7500-S1	800	**874 30 41**
STZ 11000-S1	800	**874 30 42**
GTF 5200-S1	880	**874 30 44**
GTK 5200-S1	900	**874 30 46**

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Pumping station
Aqualift S XL

The flexible version for large quantities of wastewater without sewage.

The pumping station *Aqualift S XL* disposes of even large quantities of wastewater without sewage and rainwater. This makes it suitable not only for typical residential buildings but also for commercial and industrial use. The pumping station has been designed as a modular system and can be combined flexibly with engineering and chamber modules.

Technical modules

Version for underground installation or installation in the concrete slab for combination with the new chambers modules in different installation heights.
Large selection of powerful pumps with a high useful volume up to 900 litres.

Chamber modules

Modular chamber height structure. Lift-protected chamber system with innovative honeycomb structure. Resistant to groundwater up to 3 m and can be drilled up to Ø 160. Vertically adjustable upper sections with access opening Ø 600 or Ø 800 mm and large selection of covers.

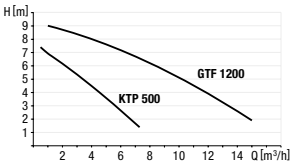
Comfort control units

Control units with self-diagnosis system SDS monitor pump and battery buffering and carry out a monthly self-test. The Comfort version has a multi-line display for operating state and maintenance instruction as well as user-friendly menu navigation in six languages.

Straightforward maintenance

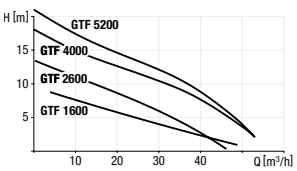
With an internal diameter of 1 m, the inspection chamber is easily accessible and has access steps in accordance with the standard and the requirements of the employers' liability insurance association.

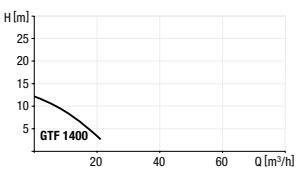
230 V multi-vane vortex impeller pump types



Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
KTP 500	0,5 kW	230 V	S1	max. 8,5 m³/h	max. 8 m
GTF 1200	1,4 kW	230 V	S3 50 %	max. 15,5 m³/h	max. 9 m

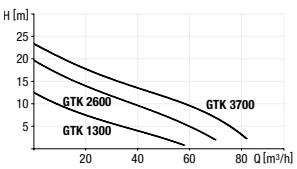
Multi-vane vortex impeller pump types





Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
GTF 1400	1,4 kW	230 V	S1	max. 24 m³/h	max. 10,5 m
GTF 1600	1,6 kW	400 V	S1	max. 49 m³/h	max. 9,3 m
GTF 2600	2,6 kW	400 V	S1	max. 46 m³/h	max. 13,6 m
GTF 4000	4,0 kW	400 V	S1	max. 53 m³/h	max. 18 m
GTF 5200	4,0 kW	400 V	S1	max. 52,8 m³/h	max. 21 m

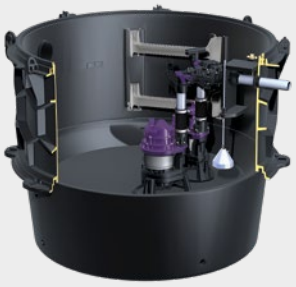
Channel impeller pump types

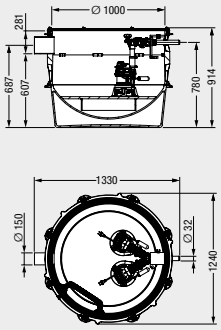


Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
GTK 1300	1,3 kW	400 V	S1	max. 57 m³/h	max. 12,4 m
GTK 2600	2,6 kW	400 V	S1	max. 71 m³/h	max. 19,6 m
GTK 3700	3,7 kW	400 V	S1	max. 82 m³/h	max. 23,5 m

System base

with multi-vane vortex impeller for complete basement drainage.

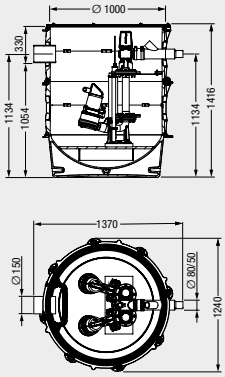




Pump	Pumpingvolume (liter)	Article #
Mono system with one pump		
with Float switch		
KTP 500-S1	90	**874 30 04**
GTF 1200-S3	100	**874 30 09**
with Pressure sensor		
KTP 500-S1	90	**874 30 05**
GTF 1200-S3	100	**874 30 10**
Duo system with two pumps		
with Pressure sensor		
KTP 500-S1	90	**874 30 07**
GTF 1200-S3	100	**874 30 12**

System base

with multi-vane vortex impeller for large quantities of wastewater without sewage or rainwater.

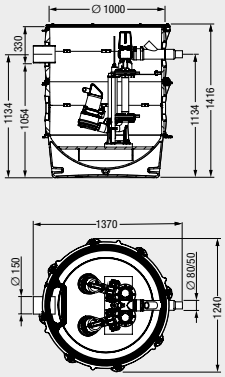


Pump	Pumpingvolume (liter)	Article #
Mono system with one pump		
with Float switch		
GTF 1400-S1	350	**874 30 32**
with Pressure sensor		
GTF 1400-S1	350	**874 30 33**
GTF 1600-S1	350	**874 30 20**
GTF 2600-S1	350	**874 30 21**
GTF 4000-S1	350	**874 30 22**
Duo system with two pumps		
with Pressure sensor		
GTF 1400-S1	340	**874 30 34**
GTF 1600-S1	340	**874 30 23**
GTF 2600-S1	340	**874 30 24**
GTF 4000-S1	340	**874 30 25**

on page 42 system chambers

System base

with channel impeller pump for large quantities of wastewater especially for connection to separator systems.



Pump	Pumpingvolume (liter)	Article #
Mono system with one pump		
with Pressure sensor		
GTK 1300-S1	350	**874 30 26**
GTK 2600-S1	350	**874 30 27**
GTK 3700-S1	350	**874 30 28**
Duo system with two pumps		
with Pressure sensor		
GTK 1300-S1	340	**874 30 29**
GTK 2600-S1	340	**874 30 30**
GTK 3700-S1	340	**874 30 31**

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Upper sections and system chambers

The modular ones for underground installation.

Our upper sections and system chambers make it possible to install our pumping stations underground or in floor slabs. They are added to the top of the respective pumping station's system base and enable maintenance and inspection via a removable cover. Their modular design allows for a variety of different combinations to adjust the installation depth according to the respective ground level.

Upper sections

- load classes A, B and D
- round or square
- gas-sprung cover
- with or without waterproofing flange

System chambers

- load classes A, B and D
- access opening Ø 600 or Ø 800 mm
- chamber heights from 396 to 3160 mm
- with or without waterproofing flange
- handles groundwater depth up to 3000 mm5

Upper sections Ø 800

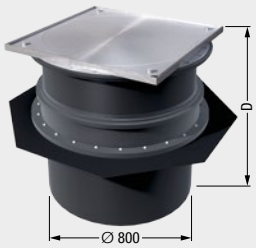
Upper sections for combination with system base *Aqualift F XL / Ecolift XL* for minimum installation depth.

Material

Polymer/stainless steel

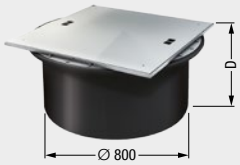
square, tileable,
without waterproofing flange

Installation depth in mm	Cover	Article #
65 - 413	Class A/L 15	**874 01 75**



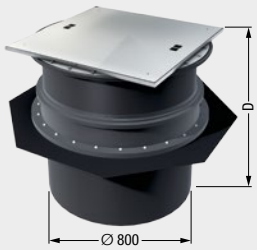
square, tileable,
with waterproofing flange

Installation depth in mm	Cover	Article #
282 - 531	Class A/L 15	**874 01 76**



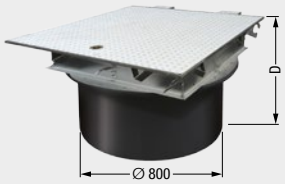
square, stainless steel,
without waterproofing flange

Installation depth in mm	Cover	Article #
50 - 299	Class A/L 15	**874 01 77**



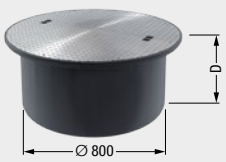
square, stainless steel,
anti-slip,
without waterproofing flange

Installation depth in mm	Cover	Article #
267 - 516	Class A/L 15	**874 01 78**



square, without
waterproofing flange

Installation depth in mm	Cover	Article #
274 - 523	Class B	**874 01 79**
274 - 523	Class C	**874 01 80**



round, without
waterproofing flange

Installation depth in mm	Cover	Article #
65 - 314	Class K 3	**874 01 81**

System chambers

System chambers for combination with system base *Aqualift F XL / Ecolift XL.*

Material
Made of polymer/stainless steel

Design
- Chamber modules with pre-mounted access steps
- Cone with vertically adjustable upper section
- All necessary seals and wedge connectors for installation

Shipment
in individual elements

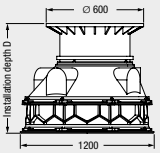
Note
Surface water resistant cover

*** Installation depth D 1 – D 3**
only in combination with wet-installed pumping station

**** Installation depth D 12 – D 15**
Observe max. installation depth 5,000 mm in combination with system base

Access opening Ø 600 mm

For underground installation
round cover made of cast iron

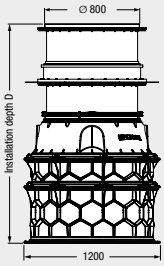


Installation depth D in mm		Article #
Cover class A/B		
D 1	380 - 629*	874 00 00
D 2	630 - 879*	874 00 06
D 3	880 - 1129*	874 00 12
D 4	1130 - 1379	874 00 18
D 5	1380 - 1629	874 00 24
D 6	1630 - 1879	874 00 30
D 7	1880 - 2129	874 00 36
D 8	2130 - 2379	874 00 42
D 9	2380 - 2629	874 00 48
D 10	2630 - 2879	874 00 54
D 11	2880 - 3129	874 00 60
D 12	3130 - 3379**	874 00 66
D 13	3380 - 3629**	874 00 72
D 14	3630 - 3879**	874 00 78
D 15	3880 - 4129**	874 00 84
Cover class D		
D 1	380 - 629*	874 00 01
D 2	630 - 879*	874 00 07
D 3	880 - 1129*	874 00 13
D 4	1130 - 1379	874 00 19
D 5	1380 - 1629	874 00 25
D 6	1630 - 1879	874 00 31
D 7	1880 - 2129	874 00 37
D 8	2130 - 2379	874 00 43
D 9	2380 - 2629	874 00 49
D 10	2630 - 2879	874 00 55
D 11	2880 - 3129	874 00 61
D 12	3130 - 3379**	874 00 67
D 13	3380 - 3629**	874 00 73
D 14	3630 - 3879**	874 00 79
D 15	3880 - 4129**	874 00 85

Access opening Ø 800 mm

For installation in a concrete slab

square cover made of stainless steel,
class A/L15, with flange and counterflange for waterproof concrete



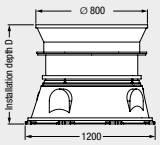
Installation depth D in mm		Article #
with tilable cover		
D 1	628 - 877	874 00 03
D 2	878 - 1127	874 00 09
D 3	1128 - 1377	874 00 15
D 4	1378 - 1627	874 00 21
D 5	1628 - 1877	874 00 27
with non-tilable anti-slip cover		
D 1	613 - 862	874 00 05
D 2	863 - 1112	874 00 11
D 3	1113 - 1362	874 00 17
D 4	1363 - 1612	874 00 23
D 5	1613 - 1862	874 00 29

Access opening Ø 800 mm

For underground installation

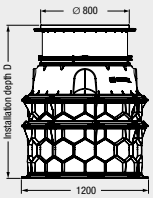
Cover in stainless steel

non-walkable



Installation depth D in mm		Article #
With round cover, class K 3		
D 1	375 - 624	874 01 22
D 2	625 - 874	874 01 23
D 3	875 - 1124	874 01 24
D 4	1125 - 1374	874 01 25
D 5	1375 - 1624	874 01 26
D 6	1625 - 1874	874 01 27
D 7	1875 - 2124	874 01 28
D 8	2125 - 2374	874 01 29
D 9	2375 - 2624	874 01 30
D 10	2625 - 2874	874 01 31
D 11	2875 - 3124	874 01 32
D 12	3125 - 3374**	874 01 33
D 13	3375 - 3624**	874 01 34
D 14	3625 - 3874**	874 01 35
D 15	3875 - 4124**	874 01 36
with square cover, class B		
D 1	620 - 869	874 01 41
D 2	870 - 1119	874 01 42
D 3	1120 - 1369	874 01 43
With square cover, class D		
D 1	620 - 869	874 01 58
D 2	870 - 1119	874 01 59
D 3	1120 - 1369	874 01 60

walkable



Installation depth D in mm		Article #
with square non tilable anti-slip cover, class A/L 15		
D 1	396 - 645	874 00 04
D 2	646 - 895	874 00 10
D 3	896 - 1145	874 00 16
D 4	1146 - 1395	874 00 22
D 5	1396 - 1645	874 00 28
D 6	1646 - 1895	874 00 34
D 7	1896 - 2145	874 00 40
D 8	2146 - 2395	874 00 46
D 9	2396 - 2645	874 00 52
D 10	2646 - 2895	874 00 58
D 11	2896 - 3145	874 00 64
D 12	3146 - 3395**	874 00 70
D 13	3396 - 3645**	874 00 76
D 14	3646 - 3895**	874 00 82
D 15	3896 - 4145**	874 00 88
With square tilable cover, class A/L 15		
D 1	411 - 660	874 00 02
D 2	661 - 910	874 00 08
D 3	911 - 1160	874 00 14
D 4	1161 - 1410	874 00 20
D 5	1411 - 1660	874 00 26
D 6	1661 - 1910	874 00 32
D 7	1911 - 2160	874 00 38
D 8	2161 - 2410	874 00 44
D 9	2411 - 2660	874 00 50
D 10	2661 - 2910	874 00 56
D 11	2911 - 3160	874 00 62
D 12	3161 - 3410**	874 00 68
D 13	3411 - 3660**	874 00 74
D 14	3661 - 3910**	874 00 80
D 15	3911 - 4160**	874 00 86

Submersible pumps

Submersible pump
KTP 300

Submersible pump
GTF 500

Submersible pump
KTP 1000

Conversion kit
Aqualift S

Conversion kit
Aqualift S / F XL

Pump off,
whenever and wherever you want.

Use of a permanently installed pump is not always possible or meaningful. Submersible pumps offer flexible solutions for private and commercial applications.

Powerful

Submersible motor pumps are suitable for pumping larger quantities of clear water, rainwater and wastewater in mobile use. You can use them to pump a wide range of tanks, swimming pools, chambers etc. empty quite easily.

Simple operation

Connection is made at the side at flat and broad water points, vertically for deeper and narrow containers. The submersible pumps are set at the lowest point. The two alternative connection options prevent lurching and tilting.

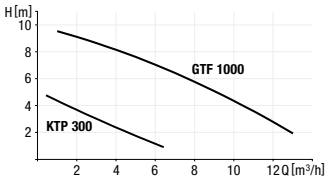
Flexible use

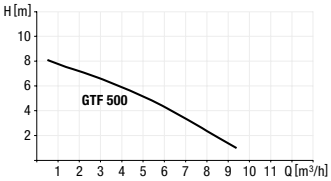
Our absolutely corrosion-free submersible pump have a pressure pipe connection R1 1/4 either vertical or at the side. The vertical connection is used for deep and narrow containers, while the one at the side is used for flat and broad water points.

Submersible pumps

Mobile submersible pumps for use in commercial applications and private households for wastewater without sewage.

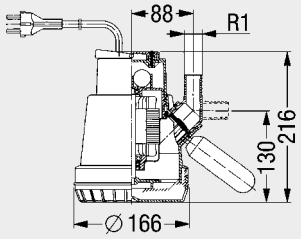
Pump types





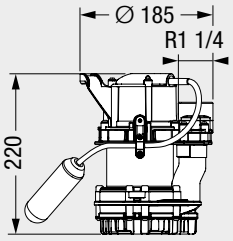
Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
KTP 300	280 W	230 V	S1	max. 8 m³/h	max. 6 m
GTF 500	500 W	230 V	S1	10 m³/h	max. 8 m
GTF 1000	1000 W	230 V	S3	max. 15,5 m³/h	max. 9 m

KTP 300



Pump	Float switch	Nominal width	Article #
KTP 300	without	R1	28 740
KTP 300	with	R1	28 840

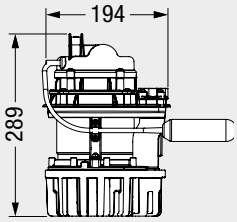
GTF 500 / GTF 500 resistant



Pressure pip connection	Float switch	Article #
GTF 500		
R 1 1/4	without	**280 710**
R 1 1/4	with	**280 810**
GTF 500 resistant		
R 1 1/4	without	**280 750**
R 1 1/4	with	**280 850**

available from May 2019

GTF 1000



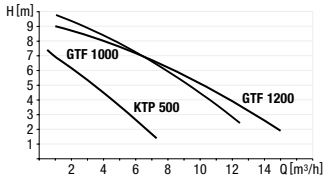
Pump	Float switch	Nominal width	Article #
KTP 1000	without	R1 1/4	28 760
KTP 1000	with	R1 1/4	28 860

CE EN 12050-2

Conversion kits for collecting tanks

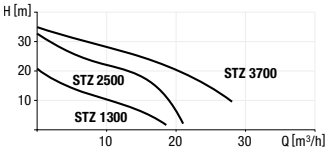
Conversion kits for installation in on-site chambers or existing collecting tanks.

Pump types *Aqualift S*

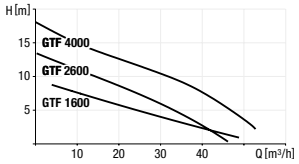


Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
KTP 500	480 W	230 V	S1	max. 8.5 m³/h	max. 8 m
GTF 1000	1000 W	230 V	S3	max. 15.5 m³/h	max. 9 m
GTF 1200	1.2 kW	230 V	S3 50 %	max. 15.5 m³/h	max. 9 m

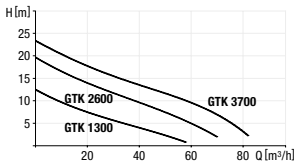
Pump types *Aqualift S XL / F XL*



Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
STZ 1300	1.3 kW	400 V	S1	max. 20 m³/h	max. 21 m
STZ 2500	2.5 kW	400 V	S1	max. 21 m³/h	max. 33 m
STZ 3700	3.7 kW	400 V	S1	max. 28 m³/h	max. 35 m



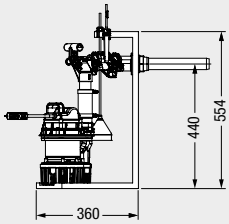
Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
GTF 1600	1.6 kW	400 V	S1	max. 49 m³/h	max. 9.3 m
GTF 2600	2.6 kW	400 V	S1	max. 46 m³/h	max. 13.6 m
GTF 4000	4.0 kW	400 V	S1	max. 53 m³/h	max. 18 m

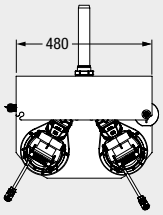


Pump	Power (P1)	Voltage	Operating mode	Pumping capacity	Pumping height
GTF 1300	1.3 kW	400 V	S1	max. 57 m³/h	max. 12.4 m
GTF 2600	2.6 kW	400 V	S1	max. 71 m³/h	max. 19.6 m
GTF 3700	3.7 kW	400 V	S1	max. 82 m³/h	max. 23.5 m

Aqualift S

for wastewater without sewage.

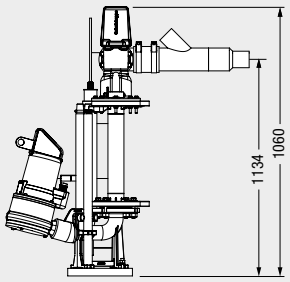


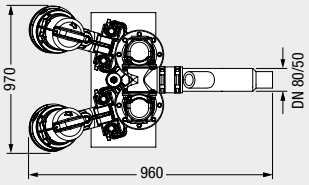


Level measurement	Article #
Pump **KTP 500**	
Pressure diaphragm circuit	**AQUALI500D**
Float switch	**AQUALI500DS**
Pump **GTF 1000-S3**	
Pressure diaphragm circuit	**AQUALI1000D**
Float switch	**AQUALI1000DS**
Pump **GTF 1200-S3**	
Pressure diaphragm circuit	**AQUALI1200D**
Float switch	**AQUALI1200DS**

Aqualift S XL / F XL

for wastewater with and without sewage.





Plan and calculate your product online:
smartselect.kessel.com

EN 12050-2

Warning and control units

We have something against nasty surprises:
our warning and control units.

Warning and control units signal full pipes and collecting tanks and thus help to prevent flooding. In addition, they offer convenient monitoring and setting options for KESSEL systems.

Simple installation

The 230 Volt control units can be connected immediately – without a qualified electrician being necessary – thanks to coded connectors for pumps and pressure sensor.

Perfect communication

The devices with potential-free contact can be connected to the building management system (BMS). Our systems are extremely user-friendly thanks to menu navigation in six languages, self-diagnosis system and electronic log book that can be read out via USB.

Countless customising possibilities

The connection of various probes such as float switches, conductance probes or level probes is straightforward.

Remote monitoring

Alarm and fault messages can be relayed as full text messages via an optional GSM-Modem.

Control units

230 V-COMFORT

Automatically checks the function of pump and probe every month. The device issues a warning message in the event of operational faults or incorrect installation. With display, integrated self-diagnosis system (SDS) and battery buffering. Suitable for pneumatic level measurement, conductance probes or float switches. Can be connected immediately thanks to coded connectors.

400 V-COMFORT

Convenient menu navigation in multi-line display. With self-diagnosis system (SDS) and reminder when maintenance is due. Display of current measured values, simple setting of the function-related parameters and operating hours counter.

Warning device

For monitoring and signalling flooding caused by broken pipes, basement drains or washing machines.

Available either with electrodes or optical probe for conductive or non-conductive fluids.
With optical and acoustic alarm message and battery buffer.

Not found what you’re looking for?

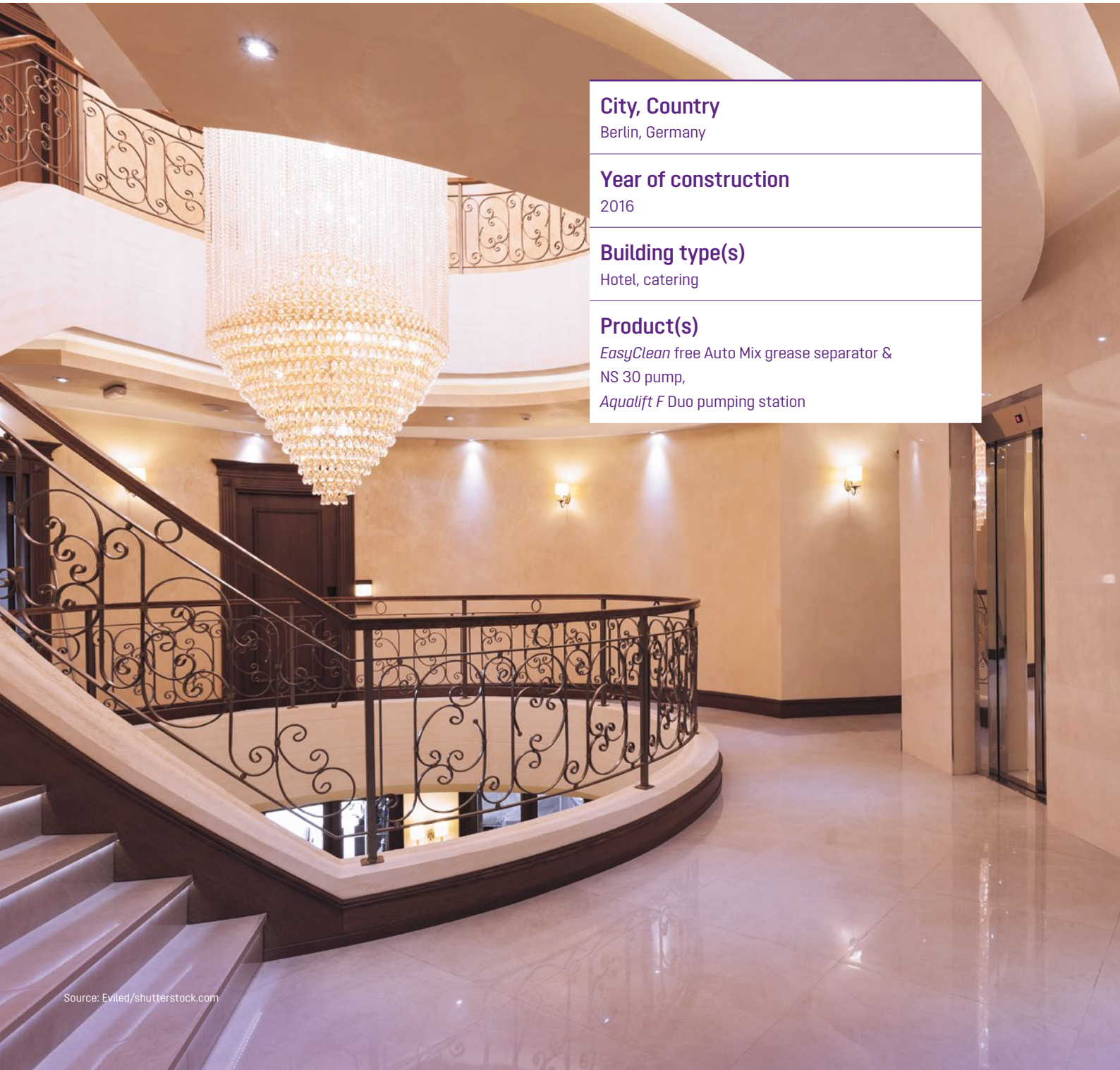
In addition to our standard lifting stations and pumps we develop customised solutions at customer request for special demands on form, function and dimensioning.

Individual solutions

Phone +49 (0) 8456 / 27-462
info@kessel.com

The Ritz-Carlton Berlin

Premium begins
where it's invisible.



City, Country
Berlin, Germany

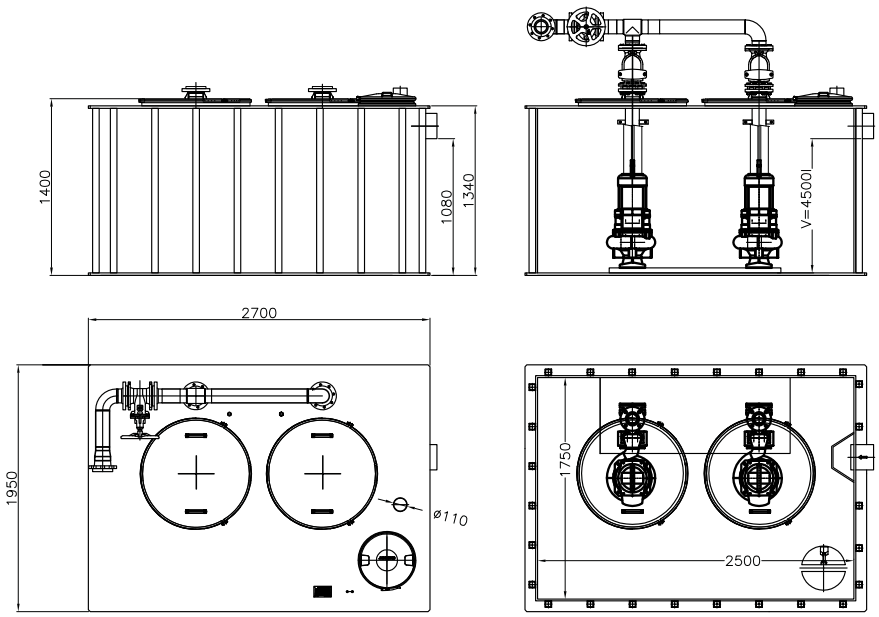
Year of construction
2016

Building type(s)
Hotel, catering

Product(s)
EasyClean free Auto Mix grease separator & NS 30 pump,
Aqualift F Duo pumping station

Source: Eviled/shutterstock.com

The Ritz-Carlton Berlin is one of the newest and most luxurious hotels in the German capital. Located directly at Potsdamer Platz, it offers its guests every conceivable comfort. Without visitors noticing, this also includes advanced drainage technology from KESSEL.



Aqualift F Duo pumping station with special construction method

Requirements

Only little space available for transport and installation.

The technology must be adapted to the existing rooms and conditions.

Installation must be carried out during ongoing operation.

Solution

Lifting station in flexible, adapted on-site installation.

The lifting station is connected to the building management system – enhancing safety.

Detailed planning and coordination with the fitter.

For further
information visit
www.kessel.com

KESSEL AG
Bahnhofstraße 31 • 85101 Lenting • Germany
www.kessel.com

010-566 KA/SBD 02/19