

KESSEL

LEADING IN DRAINAGE

PUMPS & LIFTING STATION



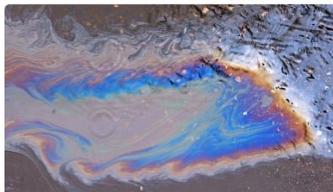
PROTECTING OUR ENVIRONMENT

KESSEL and Mactrap are synonymous with the protection of people and their environment against water damage and contamination. Kessel is a worldwide premium supplier of wastewater treatment, pumping systems and backwater protection. Mactrap is the leading manufacturer of trade waste interceptors and the exclusive distributor of Kessel product in New Zealand and Australia.



Water drainage

Water must not only flow into a building, but also out of it, so that a blessing does not become a curse.



Wastewater treatment

Substances such as fats, oils and other light liquids must be separated from wastewater in order to protect our drinking water.



Protection against backwater

In the case of heavy rain and flooding, it is important to prevent wastewater from entering buildings.

KESSEL PUMP TECHNOLOGY – PUMP STATIONS AND LIFTING STATIONS

Kessel pays attention to design, innovation, installation ease and maintenance – the whole lifecycle of the pump

- Kessel pump stations are designed for durability, resilience and longevity.
- Packaged systems with high degree of pre-assembly for error free installation and lower cost
- Inclined cover assembly ensure a level finish
- Maintenance tasks are simplified through the tool-free, quick release mechanism on the pump connections and integrated guide pipes
- Easy maintenance results in timely repairs that are less expensive than emergency fixes

Kessel YouTube channel hosts details on the advanced features in their packaged pumping systems.

Please note that Kessel recently rebranded some products from “Aqualift xxx” to “Pump station xxx”. Click on the images below – the German innovation in these packaged systems make installation and maintenance stress free.

Google “Kessel YouTube Aquapump XL”/“Kessel YouTube Aquapump Small”/“Kessel YouTube Aqualift S Compact”





CONTENTS

Pumping Stations – Packaged Pump systems located outside the building

- Aquapump Small Pump Station
- Aquapump Medium Pump Station
- Aquapump XL Basic
- Aquapump XL and XXL Pumping Stations



Aquapump Small pumping station



Aquapump Medium pumping station



Aquapump XL Basic pumping station



Aquapump XL pumping station

Lifting Stations – Packaged Pump systems located inside the building

- Aqualift F Compact
- Aqualift S Compact
- Aqualift L
- Aqualift S 100 and S 200
- Aqualift F and F XL



Aqualift F Compact



Aqualift S Compact



Aqualift L



Aqualift S 100 and S 200



Aqualift F



Aqualift F XL

PUMP TYPES

The pump description starts with 3 letters which describe an attribute of the pump:

- First letter: G = grey water, S = black water
- Second letter: T = submersible pump, P = dry installation
- Third letter: Z = macerating pump, F = multi-vane impellor, K = single channel impellor

For example, the STZ 1000 is a submersible, macerating, black water pump.



AQUAPUMP SMALL PUMP STATION – EXTERNAL, STANDARD TANK, W & W/O SEWERAGE

The standard compact tank is an unbeatable price and still offers an optional upper section for deeper installations. The pump(s) is suspended which reduces noise during operation and the tank is odour tight.

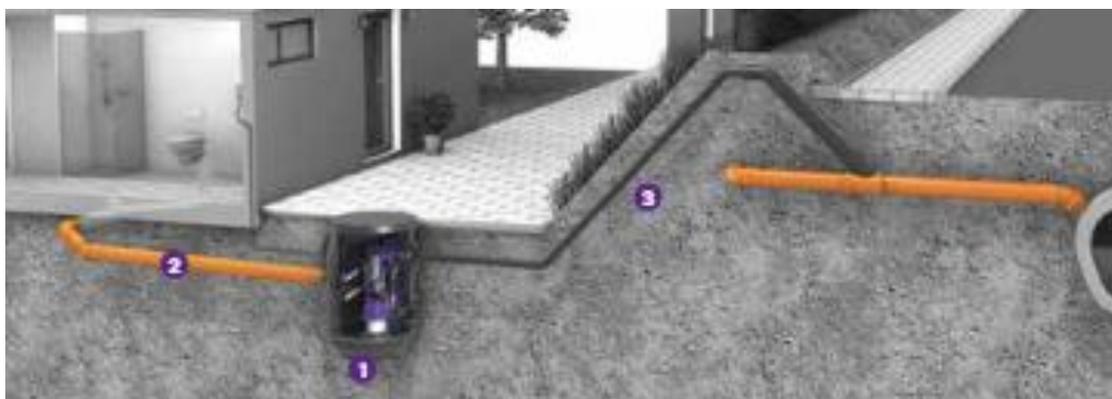
Article (SKU) 829710, 819711, 828711, 829810, 829811, 829850, 829851, 828811, 828851



[Click for more - Aquapump Small pumping station](#)

Application	Private home - Black or grey water.
Installation	Underground external
Pump type	Multi vane vortex impellor
Pump options	Mono or Duo pumps Black water - STF300 Grey Water - GTF600, GTF1250
Backflow Protection	Integrated back flow flap
Cover	Class A
Maintenance ease	Quick release closures – tool free removal
Connection options	1 x 100mm inlet
Quiet Operation by design	Suspended pumps > sound decoupling
Variable upper section	Height adjustable (140-440mm) & inclinable
Level Measurement	Mechanical – Float switch
Control Unit is Model dependent	Control system, Alarm, Self Diagnostics Option of Basic Control unit
Standards	EN12050-1 and EN12050 -2

Water	Pump	Volts	Amps	P1	P2	RPM	Pump cap.	Pump height
Black	STF-S3-50%	230V-50Hz	6.0A	1.3kW	0.8kW	2650	21m ³	10m
Grey	GTF 600-S1	230V-50Hz	2.9A	0.65kW	0.4kW	2750	12m ³	8m
Grey	GTF 1250-S3	230V-50Hz	5.4A	1.3kW	0.8kW	2700	20m ³	11m





AQUAPUMP MEDIUM PUMP STATION – EXTERNAL, W & W/O SEWERAGE

The *Aquapump Medium* pumping station is the economical solution for larger homes and offices. It offers clever “made in Germany” technology to support stress free installation and ongoing maintenance. The tank accepts extension sections up to a depth of 2250 and is groundwater resistant up to a depth of 2,500.

Article (SKU) – multiple options



Application	Private home - Black or grey water.
Installation	Underground external : Depth - GTF Pumps - 1250mm/1750mm/2250mm STZ pump – options up to 3250mm
Pump type	Grey water – Multi-vane impellor Black water - Macerator
Pump options	Mono or Duo pumps Grey water - GTF600, GTF1200 Black Water - STZ1000
Backflow Protection	Integrated back flow flap
Cover	Class A/B or D
Maintenance ease / tool free	Quick release closures – tool free
Connection options	1 x 100mm inlet,
Variable upper section	Total height (140-440mm) & inclinable
Groundwater	Groundwater resistant
Level Measurement is model dependent	Pneumatic – submersible pressure switch Mechanical – float switch
Control Unit is Model dependent	Control system with Self Diagnostics Basic Control
Standards	EN12050-1 and EN12050 -2

[Click for more - Aquapump Medium pumping station](#)

Water	Pump	Volts	Amps	P1	P2	RPM	Pump cap.	Pump height
Grey	GTF 600-S1	230V-50Hz	2.9 A	0.65kW	0.4kW	2800	12m ³ /h	8m
Grey	GTF 1200-S3-50%	230V-50Hz	4.9A	1.18kW	0.72kW	2800	15.5m ³ /h	9m
Black	STZ 1000-S3-50%	230V-50Hz	5.2A	1.0kW	0.62kW	2800	11.5m ³ /h	10m





AQUAPUMP XL BASIC – EXTERNAL, STANDARD, W & W/O SEWERAGE

The economical solution for larger quantities of wastewater with or without sewerage. The standard compact tank is an unbeatable price and comes in two tank options allowing installation depth of 1850mm and 2350mm. It offers clever “made in Germany” technology to support stress free installation and ongoing maintenance.

Article (SKU) – 879711, 879721, 878711, 878721



[Click for more - Aquapump XL Basic pumping station](#)

Application	Private home - Black or grey water.
Installation	Underground external – two installation depth options – 1850 mm & 2,350mm
Pump type	Black / Grey water – Multi-vane Impellor
Pump options	Mono or Duo pumps API 501
Backflow Protection	Integrated back flow flap
Cover	Class A
Maintenance ease / tool free	Quick release closures – tool free
Connection options	1 x inlet 100mm
Groundwater	Groundwater resistant 2000mm
Level Measurement	Pneumatic – pressure sensor
Control Unit	Control system with Self Diagnostics
Standards	EN12050-1 and EN12050 -2

Water	Pump	Volts	Amps	P1	P2	RPM	Pump cap.	Pump height
Black/ Grey	API 501	230V-50Hz	6.0 A	1.25kW	0.75kW	2900	6.3m ³ /h	12m





AQUAPUMP XL AND XXL PUMPING STATIONS – EXTERNAL

The *Aquapump XL and XXL* pumping stations are high-powered flexible drainage solutions for commercial and industrial use.

- Black or grey water
- Under Ground Installation
- Mono or Duo pumps - multi-vane impellor, single channel impellor or an additional macerator. Up to 11kW.
- Maximum chamber height of 5 metres and ground water resistant up to 3 metres.
- Backflow Protection
- Wet and Dry pump installation
- Level Sensor, Pressure Sensor
- Groundwater resistant



[Click for more - Aquapump XL Basic pumping station](#)



Access opening Ø 800



Water	Pump Type	Voltage	Amps	P1	P2	Pump Cap.	Pump Height
Black	STZ 1300-S1	400V	2.5 A	1.3kW	0.9kW	20m ³ /h	21m
Black	STZ 2500-S1	400V	4.4 A	2.5kW	1.9kW	21m ³ /h	33m
Black	STZ 3700-S1	400V	5.4 A	3.7kW	3.1kW	28m ³ /h	25m
Grey	GTF 1400-S1	230V	6.5 A	1.5kW	1.1kW	31m ³ /h	10.5m
Grey	GTF 1600-S1	400V	2.9 A	1.6kW	1.2kW	49m ³ /h	9.3m
Grey	GTF 2600-S1	400V	4.5 A	2.6kW	2.1kW	46m ³ /h	33.6m
Grey	GTF 4000-S1	400V	6.6 A	4.0kW	3.4kW	53m ³ /h	18m
Grey	GTK 1300-S1	400V	2.5 A	1.3kW	1.0kW	57m ³ /h	12.4m
Grey	GTK 2600-S1	400V	4.9 A	2.6kW	2.1kW	71m ³ /h	19.6m
Grey	GTK 3700-S1	400V	6.5 A	3.7kW	3.1kW	82m ³ /h	23.5m
Black	SPF 1400 S1/S3	230V	7.3 A	1.6kW	1.1kW	38m ³ /h	7m
Black	SPF 1500 S1/S3	400V	2.7 A	1.4kW	1.1kW	40m ³ /h	8m
Black	SPF 3000 S1/S3	400V	5.4 A	3.2kW	2.7kW	47m ³ /h	16m
Black	SPF 4500 S1/S3	400V	7.5 A	4.5kW	3.7kW	55m ³ /h	20m
Black	STZ 4400-S1	400V	7.5 A	4.4kW	3.7kW	21.3m ³ /h	47m
Black	STZ 5200-S1	400V	8.7 A	5.2kW	4.4kW	21.3m ³ /h	52m
Black	STZ 7500-S1	400V	13 A	7.5kW	6.4kW	30.7m ³ /h	42m
Black	STZ 11000-S1	400V	18.8 A	11kW	9.5kW	30.6m ³ /h	68m
Black	STZ 5200-S1	400V	8.7 A	5.2kW	4.4kW	52.8m ³ /h	21m
Black	STZ 5200-S1	400V	8.7 A	5,2kW	4.4kW	51.6m ³ /h	31m



AQUALIFT F COMPACT – INTERNAL, STANDARD TANK, SEWERAGE

The Aqualift Compact F is available for in floor installation or free standing. It 's powerful macerating pump will move black water to the sewer line, and you have a choice of single or duo pumps. The integrated drain function protects against flooding.



[Click for more – Aqualift F Compact lifting station](#)

Application	Private home - Black or grey water.
Installation	Internal – floor slab or free standing Install depth of 490mm to 600mm
Pump type	Macerator
Pump options	Mono or Duo pump - SPZ1000
Backflow Protection	Integrated back flow flap
Cover – Load Class K-3	Slotted cover or tileable cover, lock & lift
Flooding protection	Integrated floor drain
Maintenance ease / tool free	Quick release closures – tool free
Connection options	1 x inlet (100mm)
Ground water	Sealing set for install in waterproof concrete
Level measurement	Pneumatic – Immersion pipe
Control Unit	Control system, Alarm, Self Diagnostics
Standard	EN12050 -1 and EN 12050-2

Water	Pump	Volts	Amps	P1	P2	RPM	Pump cap.	Pump height
Black/ Grey	STZ 1000-S3-50%	230V-50Hz	5.2A	1.2kW	0.69kW	2800	11.5m ³ /h	10m



1 Lifting station 2 Control unit 3 Pressure pipe



1 Lifting station 2 Pressure pipe set 3 Extension section
4 Gasket set 5 Control unit



AQUALIFT S COMPACT – INTERNAL, STANDARD TANK, W/O SEWERAGE

The Aqualift Compact S is installed in floor and is superbly quiet due to the suspended pump design and acoustic decoupling. This short video provides a great overview of the features and installation simplicity.

<https://www.kessel.com/produkte/pumpentechnik/hebeanlagen/lifting-station-aqualift-s-compact>

Article (SKU): - 280530, 281230, 280550, 281250, 280500, 281200 (all have options)



[Click for more – Aqualift S Compact lifting station](#)

Application	Private home - grey water.
Installation	Internal in floor slab. Install 490 – 620mm
Pump type	Multi vane impellor
Pump options	Mono or Duo pumps Grey Water – GTF500, GTF1200
Backflow Protection	Integrated back flow flap
Cover – Load Class K-3	Slotted cover or tileable cover, lock & lift
Flooding protection	Integrated floor drain
Maintenance ease	Quick release closures – tool free removal
Connection options	Prescored inlet(s), ventilation, cable duct
Quiet Operation by design	Suspended pumps > sound decoupling
Ground water	Sealing set for install in waterproof concrete
Level Measurement is model dependent	Pneumatic – Immersion pipe Option of mechanical float with no alarm
Control Unit is Model dependent	Control system, Alarm, Self Diagnostics Option of Basic Control
Standard	EN 12050-2

Water	Pump	Volts	Amps	P1	P2	RPM	Pump cap.	Pump height
Grey	GTF 500-S1	230V-50Hz	2.7 A	0.6kW	0.36kW	2800	10m ³ /h	8m
Grey	GTF 1200-S1	230V-50Hz	6.2A	1.4kW	0.84kW	2650	15.5m ³ /h	9m





AQUALIFT S 100 /200 – INTERNAL, STANDARD TANKS, W/O SEWERAGE

The Aqualift S freestanding lifting station (100 litres or 200 litres) is specifically designed for easy installation in existing buildings. The tank is 80cm wide and will fit through doors and into small spaces.

Article (SKU): – 28513, 28514, 28515, 28516, 28511, 28512, 28517, 28518

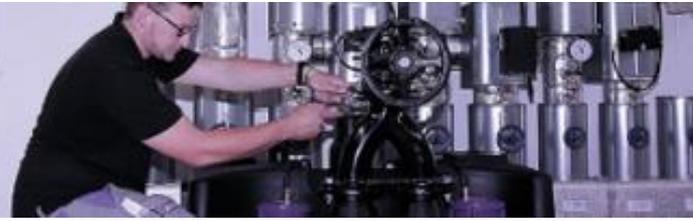


[Click for more – Aqualift S 100/200 lifting station](#)

Application	Private home / light commercial - grey water.
Installation	Internal free-standing – 100 l or 200 l tank Both tanks just 80cm wide < door width
Pump type	Multi vane vortex impellor
Pump options	Mono or Duo pumps Grey Water – GTF600, GTF1250
Backflow Protection	Integrated back flow flap
Maintenance ease	Quick release closures – tool free removal
Connection options	Multiple and pre-scored options
Quiet Operation by design	Suspended pumps > sound decoupling
Ground water	Sealing set for install in waterproof concrete
Level Measurement is model dependent	Pneumatic – Immersion pipe Option of mechanical float with no alarm
Control Unit is Model dependent	Control system, Alarm, Self Diagnostics Option of Basic Control
Standard	EN 12050-2

Water	Pump	Volts	Amps	P1	P2	RPM	Pump cap.	Pump height
Grey	GTF 600-S1	230V-50Hz	2.9 A	0.65kW	0.4kW	2750	12m ³ /h	8m
Grey	GTF 1250-S1	230V-50Hz	5.4A	1.3kW	0.8kW	2700	20m ³ /h	11m





AQUALIFT L – INTERNAL FREE STANDING, SEWERAGE

Lightweight, compact and inexpensive: the lifting station *Aqualift L* is the complete solution for domestic and light commercial applications with an excellent cost-performance ratio. The pump with a multi-vane, anti-block vortex impeller offers high efficiency with quiet operation. The *Aqualift L* is available as 230 volts or 400 volts.

Article (SKU): - 28798, 28898, 28797, 28897



[Click for more – Aqualift L lifting station](#)

Application	Private home - Black or grey water.
Installation	Internal – free standing
Pump type	Multi-vane impellor
Pump options	Mono or Duo pump SPF1300, SPF 2900
Voltage	230V or 400V
Backflow Protection	Integrated back flow flap
Maintenance ease / tool free	Quick release closures – tool free
Connection options	3 inlets (100mm), Prescored for 150mm
Level measurement	Mechanical Float switch
Control Unit is Model dependent	Control System – advanced features are optional
Standard	EN12050 -1 and EN 12050-2

Water	Pump	Volts	Amps	P1	P2	RPM	Pump cap.	Pump height
Black /Grey	SPF 1300-S3-15%	230V-50Hz	6.4 A	1.5kW	0.9kW	2600	32m ³ /h	9.2m
Black/ Grey	SPF 2900-S3-50%	400V-50Hz	5 A	3.1kW	2.4kW	2700	44m ³ /h	14m





AQUALIFT F / F XL – INTERNAL FREE STANDING, SEWERAGE

The *Aqualift F / F XL lifting stations* are high-powered flexible drainage solutions for commercial and industrial use. All components, such as pumps and tanks, can be used in any combination. The *Aqualift F XL* has powerful pumps in the versions S1 and/or S3 with a wide range of applications from an input power of 1,400 W to 5,500 W, a sensor control and a Comfort control unit with the self-diagnosis system SDS.

- Black or grey water
- Mono or Duo pumps - multi-vane impellor, single channel impellor or an additional macerator.
- Pump power range from 1400 W to 4500 W
- Aqualift F Tank Capacity – 50, 120 litres
- Aqualift F XL Tank Capacity - 200, 300, 450 or 900 litres
- Multiple inlet connections
- External equivalent is the Aquapump XL



[Click for more – Aqualift F & F XL lifting station](#)

Water	Pump Type	Voltage	Amps	P1	P2	Pump Cap.	Pump Height
Black	SPF 3000-S3-50%	400V	5.7 A	3.5kW	2.8kW	47m ³ /h	16m
Black	SPF 4500-S3-50%	400V	7.8 A	4.7kW	3.7kW	55m ³ /h	20m
Black	SPF 5500-S3-30%	400V	9.6 A	5.8kW	4.9kW	60m ³ /h	27m
Black	SPF 3000 S1/S3	400V	5.4 A	3.2kW	2.7kW	47m ³ /h	16m
Black	SPF 4500 S1/S3	400V	7.5 A	4.5kW	3.7kW	55m ³ /h	20m
Black	SPF 5500-S3-30%	400V	9.6 A	5.8kW	4.9kW	60m ³ /h	27m
Black	SPF 1400 S1-100%	230V	7.3 A	1.6kW	1.1kW	38m ³ /h	7m
Black	SPF 1500 S1-100%	400V	2.7 A	1.4kW	1.1kW	40m ³ /h	8m
Black	SPF 3000 S1-100%	400V	5.4 A	3.2kW	2.7kW	47m ³ /h	16m
Black	SPF 4500 S1-100%	400V	7.5 A	4.5kW	3.7kW	55m ³ /h	20m
Black	SPF 5500 S1-100%	400V	9.1 A	5.7kW	4.7kW	60m ³ /h	27m