



# LIFTING STATIONS SOLUTIONS

for sewage and wastewater disposal

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# HIGH-PERFORMANCE TECHNOLOGY FOR WASTEWATER MANAGEMENT

Whether for single-family homes, commercial buildings or large-scale projects, Zehnder Pumpen provides reliable lifting stations **made in Germany** for the safe disposal of wastewater below the backflow level. Designed for long service life, operational reliability and easy installation.

## TYPICAL APPLICATIONS:



### Single-family homes

Compact single-pump units reliably handle foul water and wastewater from showers, washbasins, toilets or washing machines – **ideal for renovation projects or retrofitting.**



### Multi-family buildings and commercial applications

Duplex systems with alternating operation and peak-load capability ensure **reliable performance under high wastewater volumes** – for example in hotels, restaurants and office buildings.



### Public buildings and large-scale installations

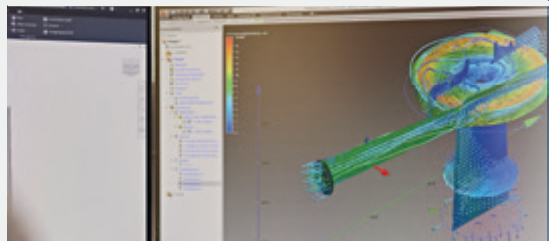
High-capacity systems with **large tank volumes** – ideally suited for schools, hospitals, railway stations or industrial facilities. **Optional remote monitoring available.**

# 360° EXPERTISE – COMPLETE SOLUTIONS FROM A SINGLE SOURCE

Zehnder Pumpen supports projects throughout every phase – from the initial concept through to after-sales service.

*Project requirements are carefully recorded and technically evaluated at an early planning stage. Product selection is always tailored to the specific application and actual requirements.*

## Technical consulting

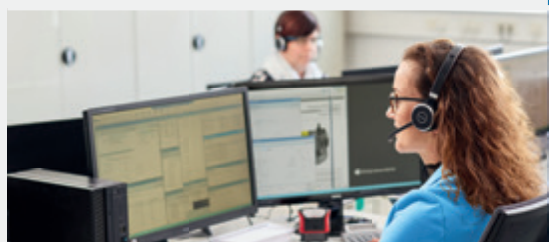


## Engineering & design

*CAD-based design and advanced fluid simulations (CFD) are used to develop practical, field-proven solutions – including fully customised special systems.*

*Experienced specialists manufacture each product with precision and care, resulting in systems that stand out for their reliability and proven quality.*

## In-house production



## Project execution & sales

*Sales and production work in close coordination, ensuring short response times and reliable delivery schedules. Digital processes and seamless communication guarantee smooth and dependable project execution.*

*Digitalised processes and close coordination between sales and production ensure smooth and reliable delivery.*

## Logistics & dispatch



## After-sales support

*Thanks to our in-house service workshop and comprehensive spare parts availability, almost all products can be repaired and maintained – ensuring long-term reliability, sustainability and dependable operation over many years.*



# LIFTING STATIONS FOR GREYWATER

Reliable technology for the disposal of wastewater without faecal matter.

## **Standards-compliant disposal of greywater**

Zehnder greywater lifting stations (in accordance with DIN EN 12050-2 for wastewater without faecal matter) are ideally suited for showers, washbasins, washing machines and condensate from heating and air-conditioning systems

## **Robust and temperature-resistant**

Depending on the version, our lifting stations are also capable of handling aggressive media such as condensate from condensing boilers or saline wastewater. Selected series are designed for short-term operation at temperatures of up to 90 °C.

## **Reliable control and ventilation**

Depending on the model, system control is provided via float switch or pneumatic level control. Venting is implemented either via an activated carbon filter or through an external vent line.



# VERSALIFT® SERIES

New

Reliable greywater pumping – plug-and-play and space-saving.

Ready-to-install lifting stations for the pumping of **wastewater without faecal matter** in accordance with DIN EN 12050-2. The compact design makes them particularly suitable for **installation behind pre-wall systems**.

### Product features:

- Collection tank made of ABS
- Control unit with alarm and volt-free contact
- Double shaft sealing (mechanical seal and radial shaft seal)
- Easy cleaning and maintenance – pump unit removable without tools
- Operating temperature up to 40 °C (short-term up to 90 °C)
- Protection class IP68 (fully submersible)
- Low-noise operation
- Ready to plug in with 1.5 m power cable and Schuko plug

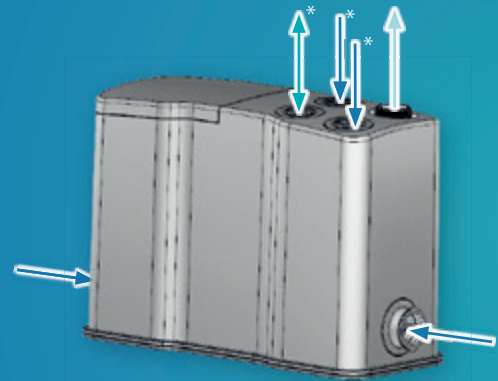
### Applications:

- Washing machines, showers and washbasins
- Above-floor installation in frost-protected rooms
- Particularly suitable for installation behind pre-wall systems



### Discharge connection / inlet connection:

- ⇒ Ø Inlet connection, external DN 40 (50 mm inlet height) / for washing machine, washbasin or blanking plug – position selectable
- ⇒ Ø Discharge connection incl. non-return valve, variable 1¼" male thread / DN 20–32 connection via flexible adapter – position selectable
- ⇔ Ø Tank vent connection via activated carbon filter or vent pipe DN 40 – position selectable



\*The position of the tank vent, inlet connections (e.g. for washing machine or washbasin) and blanking plugs can be freely selected.

### Technical specifications:

VersaLift® Series	
Maximum flow rate Q <sub>max</sub>	7,0 - 9,5 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	6,0 - 10,2 m
Motor output P <sub>2</sub>	230 - 510 W
Permissible solids size	10 mm
Voltage	230 V
Nominal current	1,63 - 3,0 A
Speed	2.800 U/min

Further information available here:

VersaLift®



# SWH® & S-SWH SERIES

Ideal for bathroom renovations and retrofit installations.

Ready-to-install lifting stations for pumping **wastewater without faecal matter** in accordance with DIN EN 12050-2.

## Product features:

- Collection tank made of PP
- Schaltgerät mit Alarm & potentialfreiem Kontakt
- Operating temperature up to 40 °C (short-term up to 90 °C)
- Protection class IP57
- Ready to plug in with 1.5 m power cable and Schuko plug

## Applications:

- Washing machines, showers and washbasins
- Above-floor installation in frost-protected rooms



## Technical specifications:

SWH® Series	
Maximum flow rate Q <sub>max</sub>	8,0 - 14,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	6,0 - 11,0 m
Motor output P <sub>2</sub>	130 - 430 W
Permissible solids size	10 mm
Voltage	230 V
Nominal current	1,3 - 3,7 A
Speed	2.800 U/min

Further information available here:

SWH®

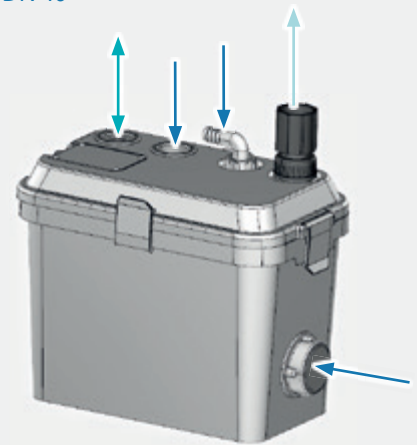


S-SWH



## Discharge connection / inlet connection:

- Ø Inlet connection, external DN 50 (inlet height 80 mm) / connection for washing machine, washbasin or blanking plug
- Ø Discharge connection 1¼" female thread incl. non-return valve
- ↔ Ø Tank vent connection via activated carbon filter DN 40



## Special feature of the S-SWH®:

- Suitable for condensate and saline media (max. 15% salt content)
- Mechanical seal made of silicon carbide (SiC)
- Motor housing and shaft made of stainless steel

# UFB & S-UFB SERIES

Compact in-ground solutions for greywater.

The UFB and S-UFB series have been specifically developed for **in-ground installation** and reliably pump **wastewater without faecal matter** in accordance with DIN EN 12050-2.

## Product features:

- Polyethylene tank with submersible pump type ZPK and float switch
- Operating temperature up to 40 °C (short-term up to 90 °C)
- Protection class IP68
- Ready to install with 10 m cable, grating cover, trap and sediment trap
- Optional: extension piece and sealed cover

## Applications:

- Washing machines, showers and washbasins
- Below-floor installation in frost-protected rooms



## Technical specifications:

### UFB Series

Maximum flow rate Q <sub>max</sub>	7,0 - 11,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	7,5 - 11,0 m
Motor output P <sub>2</sub>	130 - 430 W
Permissible solids size	10 - 30 mm
Voltage	230 V
Nominal current	1,3 - 3,7 A
Speed	2.800 U/min

Further information available here:

UFB



S-UFB



## Discharge connection / inlet connection:

- Optional inlet DN 70 / DN 100
- ↔ Ø Vent connection / cable entry DN 50
- Ø Discharge connection 1¼" male thread (incl. non-return valve)

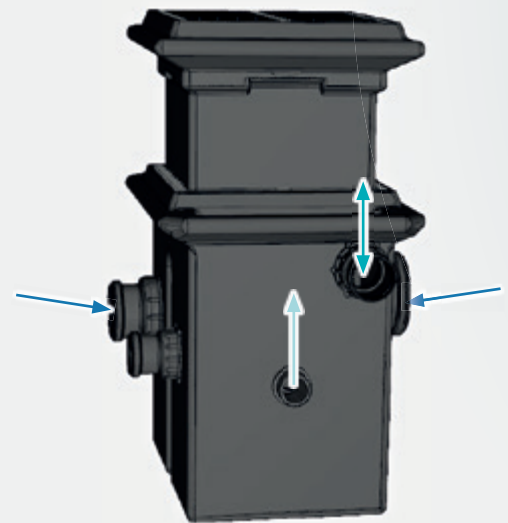


Illustration shows accessory: UFB extension piece incl. O-ring (Item no.: 11493)



## Special features of the S-UFB models:

- Suitable for condensate and saline media (max. 15% salt content)
- Mechanical seal made of silicon carbide (SiC)
- Motor housing and shaft made of stainless steel

# SWH<sup>®</sup> 500 SERIES

Engineered for high flow rates and heavy-duty applications.

Designed for pumping **wastewater without faecal matter** in accordance with DIN EN 12050-2. Available as **single or duplex units** – ideal for commercial applications with increased wastewater volumes.

## Product features:

- Polyethylene tank with stainless steel submersible pump type E-ZW
- Double shaft sealing (mechanical seal and radial shaft seal)
- Service-friendly design with externally mounted non-return valve
- Short-term operation up to 90 °C
- Integrated high-water level alarm
- Protection class IP57
- Ready to install, watertight cable entry with 3 m cable

## Applications:

- Commercial applications, washrooms and installations with high wastewater volumes
- Above-floor installation in frost-protected rooms
- Single and duplex units for enhanced operational reliability



## Technical specifications:

### SWH<sup>®</sup> 500 Series

Maximum flow rate Q <sub>max</sub>	7,5 - 10,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	7,5 - 14,0 m
Motor output P <sub>2</sub>	210 - 430 W
Permissible solids size	10 - 30 mm
Voltage	230 V
Nominal current	1,8 - 3,7 A
Speed	2.800 U/min

Further information available here:

#### Simplex unit



#### Duplex unit



## Discharge connection / inlet connection:

- Ø Inlet connections, external DN 100 / G 1 1/4"
- ← Ø Vent connection DN 40 – DN 50 (external vent line)
- Ø Discharge connection 1 1/4" female thread with non-return valve



# SWH-F 500 & S-SWH-F 500 SERIES

For high pumping capacities and demanding applications.

Ideally suited for pumping **wastewater without faecal matter containing grease**, for example downstream of grease separators in accordance with DIN 4040-100. Available as **single or duplex units** for commercial applications.

### Product features:

- Polyethylene collection tank with submersible pump type ZPK
- Double shaft sealing (mechanical seal and radial shaft seal)
- Externally mounted non-return valve for easy maintenance
- Operating temperature up to 40 °C (short-term up to 90 °C)
- Protection class IP68
- Ready to install with 3 m power cable and Schuko plug

### Applications:

- Pumping of wastewater without faecal matter containing grease (e.g. downstream of grease separators)
- Above-floor installation in frost-protected rooms below the backflow level



### Technical specifications:

#### SWH-F 500 Series

Maximum flow rate Q <sub>max</sub>	7,0 - 11,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	7,5 - 11,0 m
Motor output P <sub>2</sub>	130 - 430 W
Permissible solids size	10 - 30 mm
Voltage	230 V
Nominal current	1,3 - 3,7 A
Speed	2.800 U/min

Further information available here:

SWH-F 500



S-SWH-F 500



### Discharge connection / inlet connection:

- Ø Inlet connections, external: DN 100 / G 1¼"
- ↔ Ø Vent connection: DN 40 – DN 50
- Ø Discharge connection: 1¼" male thread



### Special features of the S-SWH-F 500 models:

- Suitable for condensate and saline media (max. 15% salt content)
- Mechanical seal made of silicon carbide (SiC)
- Motor housing and shaft made of stainless steel

# TECHNICAL DATA AT A GLANCE

## Greywater lifting stations

Type	Item no.	P <sub>2</sub> [kW]	U [V]	Hmax [m]	Qmax [m <sup>3</sup> /h]	I <sub>n</sub> [A]	Tank volume [l]	Switching volume [l]	Free solids passage [mm]
SWH® 100	11463	0,13	230	6,0	8,0	1,3	20	8	10
SWH® 170	11468	0,43	230	10,0	11,5	3,7	20	8	10
SWH®190	11471	0,43	230	11,0	14,0	3,7	20	8	10
S-SWH 100	11466	0,13	230	6,0	8,0	1,3	20	8	10
S-SWH 170	11470	0,43	230	10,0	11,5	3,7	20	8	10
S-SWH 190	11472	0,43	230	11,0	14,0	3,7	20	8	10
VersaLift® 350 <b>NEW</b>	24272	0,23	230	6,0	7,0	1,6	11	2	10
VersaLift® 500 <b>NEW</b>	24006	0,51	230	10,2	9,5	3,0	11	2	10
UFB 200/30	11491	0,13	230	7,5	7,0	1,3	20	15	10
UFB 200/35	11513	0,43	230	11,0	11,0	3,7	20	15	10
UFB 200/40	11515	0,43	230	10,0	10,0	3,7	20	15	30
S-UFB 200/30	11498	0,13	230	7,5	7,0	1,3	20	15	10
S-UFB 200/35	11514	0,43	230	11,0	11,0	3,7	20	15	10
S-UFB 200/40	17948	0,43	230	10,0	10,0	3,7	20	15	30
SWH® 500/50	11544	0,21	230	7,5	7,5	1,8	117	75	10
SWH® 500/65	11546	0,43	230	14,0	9,5	3,7	117	75	10
SWH® 500/80	11548	0,43	230	8,5	10,0	3,7	117	75	30
SWH® 500/50 Duplex	11545	0,21	230	7,5	7,5	1,8	117	75	10
SWH® 500/65 Duplex	11547	0,43	230	14,0	9,5	3,7	117	75	10
SWH® 500/80 Duplex	11549	0,43	230	8,5	10,0	3,7	117	75	30
SWH-F 500/30	17454	0,13	230	7,5	7,0	1,3	117	75	10
SWH-F 500/35	17456	0,43	230	11,0	11,0	3,7	117	75	10
SWH-F 500/40	17458	0,43	230	10,0	10,0	3,7	117	75	30
SWH-F 500/30 Duplex	17455	0,13	230	7,5	7,0	1,3	117	75	10
SWH-F 500/35 Duplex	17457	0,43	230	11,0	11,0	3,7	117	75	10
SWH-F 500/40 Duplex	17459	0,43	230	10,0	10,0	3,7	117	75	30
S-SWH-F 500/30	23713	0,13	230	7,5	7,0	1,3	117	75	10
S-SWH-F 500/35	23714	0,43	230	11,0	11,0	3,7	117	75	10
S-SWH-F 500/40	23715	0,43	230	10,0	10,0	3,7	117	75	30
S-SWH-F 500/30 Duplex	23716	0,13	230	7,50	7,0	1,3	117	75	10
S-SWH-F 500/35 Duplex	23717	0,43	230	11,0	11,0	3,7	117	75	10
S-SWH-F 500/40 Duplex	23718	0,43	230	10,0	10,0	3,7	117	75	30



# LIFTING STATIONS FOR BLACK WATER

Reliable solutions for the safe pumping of wastewater containing faecal matter.

Zehnder Pumpen lifting stations for black water comply with the requirements of DIN EN 12050-1 and are specifically designed for the disposal of **wastewater containing faecal matter** from toilets, shower and washrooms as well as other sanitary facilities. They ensure **reliable discharge below the backflow level** and provide **maximum operational reliability**, even under high load and in commercial applications.

Thanks to their robust design, **integrated cutting system** (depending on model) and **service-friendly construction**, they are ideally suited for **single- and multi-family homes, commercial properties and public buildings**.



# VERSACUT®

Designed for direct WC connection or concealed pre-wall installation.

Ready-to-install lifting station for pumping **wastewater containing faecal matter** in accordance with DIN EN 12050-3 – ideal for refurbishment projects, pre-wall installations and basement installation.

## Product features:

- High-performance corrosion-resistant cutting system
- Double shaft sealing (mechanical seal and radial shaft seal)
- Collection tank made of ABS
- Horizontal or vertical connection (90° elbow)
- Protection class IP68 (fully submersible)
- Integrated fault alarm
- Ready to install with prepared volt-free contact

## Applications:

- Pumping of black water from a single WC
- Optional connection of washbasin, shower or bidet
- Above-floor installation in frost-protected rooms



## Technical specifications:

Versacut® Series	
Maximum flow rate Q <sub>max</sub>	7,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	7,0 m
Motor output P <sub>2</sub>	370 W
Permissible solids size	Cutting system
Voltage	230 V
Nominal current	2,6 A
Speed	2950 U/min

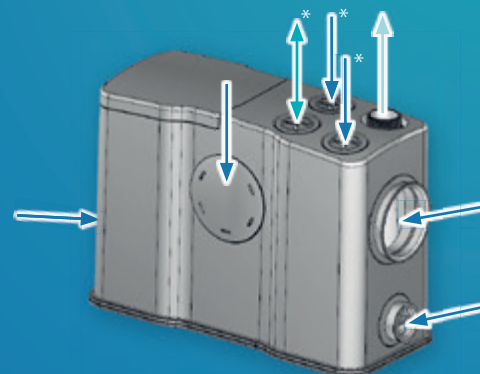
Further information available here:

VersaCut®



## Discharge connection / inlet connection:

- Ø Inlet DN 85 for WC connection / blanking plug
- Ø External inlet DN 40 (inlet height 50 mm) for washing machine, washbasin or blanking plug – position selectable
- Ø Discharge connection incl. non-return valve, variable 1¼" male thread / DN 20–32 connection via flexible adapter
- ↔ Ø Optional vent / inlet DN 40 for washing machine connection or blanking plug



\*The position of the tank vent, inlet connections (e.g. for washing machine or washbasin) and blanking plugs can be freely selected.

# KOMPAKTBOY® SERIES

Compact solution for black water with vortex impeller.

Ready-to-install lifting station for pumping **wastewater containing faecal matter** in accordance with DIN EN 12050-1. Ideal for refurbishment and retrofit projects with medium heads and high wastewater volumes. Available as **single and duplex units**.

### Product features:

- Large-volume polyethylene tank
- Vortex impeller pump for black water
- Double shaft sealing (mechanical seal and radial shaft seal)
- Protection class IP68
- Operating temperature up to 55 °C
- Pneumatic level control ZPS1 (single unit) or ZPS2 (duplex unit) with LCD display and alarm function

### Applications:

- Pumping of wastewater containing faecal matter from WCs, showers, washrooms, etc.
- Above-floor installation in frost-protected rooms below the backflow level



### Technical specifications:

#### Kompaktboy® Series

Maximum flow rate Q <sub>max</sub>	35,0 - 49,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	8,1 - 15,0 m
Motor output P <sub>2</sub>	1.100 - 3.000 W
Permissible solids size	50 mm
Voltage	230 V / 400 V
Nominal current	2,9 - 7,6 A
Speed	1.400 - 2.800 U/min

Further information available here:

Simplex unit



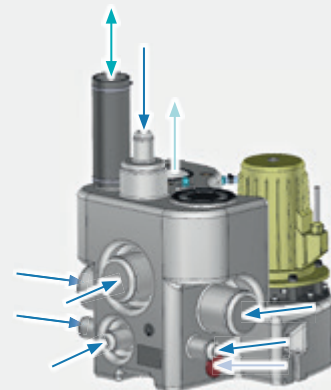
Duplex unit



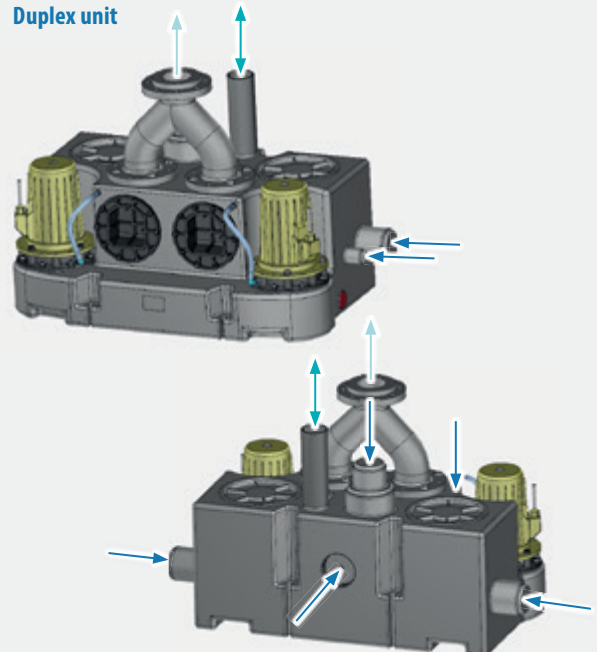
### Discharge connection / inlet connection:

- Ø Inlet connections: DN 50 / DN 100, DN 150 / DN 100
- ↔ Ø Vent connection, external Ø 75 mm
- Ø Discharge connection: DN 100
- 1½" connection for manual diaphragm pump

#### Simplex unit



#### Duplex unit



# KOMPAKTBOY® SE SERIES

Reliable black water pumping with cutting system.

Ready-to-install lifting station with **cutting system** for pumping **wastewater containing faecal matter** in accordance with DIN EN 12050-1. Ideal for applications with high heads and long discharge lines. Available as **single and duplex units**.

## Product features:

- Large-volume polyethylene tank
- High-performance cutting system for long discharge lines
- Double shaft sealing (mechanical seal and radial shaft seal)
- Protection class IP68
- Operating temperature up to 55 °C
- Pneumatic level control ZPS1 (single unit) or ZPS2 (duplex unit) with LCD display and alarm function

## Applications:

- Pumping of wastewater containing faecal matter from WCs, showers, washrooms, etc.
- Above-floor installation in frost-protected rooms
- Ideal for long discharge lines and high delivery heads



## Technical specifications:

### Kompaktboy® SE Series

Maximum flow rate Q <sub>max</sub>	17,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	22,0 - 39,0 m
Motor output P <sub>2</sub>	1.700 - 3.200 W
Permissible solids size	Cutting system
Voltage	230 V / 400 V
Nominal current	3,7 - 10,5 A
Speed	2.800 U/min

Further information available here:

Simplex unit



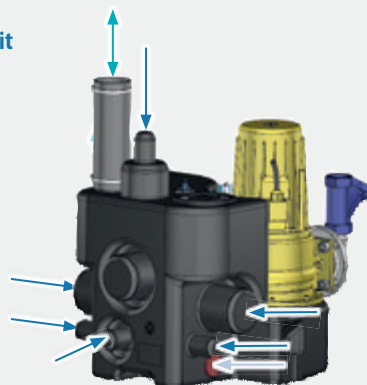
Duplex unit



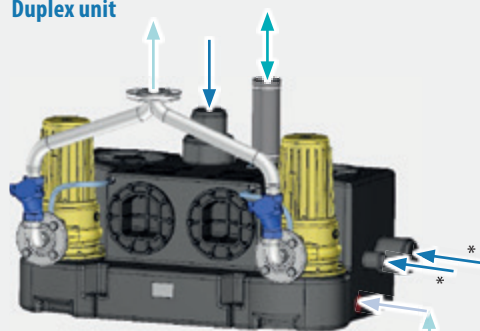
## Discharge connection / inlet connection:

- Ø Inlet connections, external: DN 150 / DN 100
- ← Ø Vent connection, external Ø 75 mm
- Ø Discharge connection: 1¼" female thread, DN 32 to DN 50
- 1½" connection for manual diaphragm pump

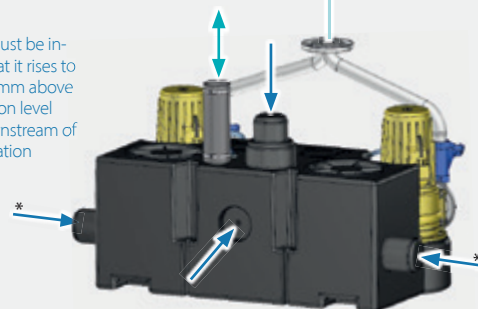
### Simplex unit



### Duplex unit



\*This inlet must be installed so that it rises to at least 250 mm above the installation level directly downstream of the lifting station



# W 80 SERIES

Reliable performance under increased black water loads.

Robust lifting stations for **wastewater containing faecal matter**. Ready-to-install systems in accordance with DIN EN 12050-1 for above-floor installation below the backflow level – available as **single or duplex units**.

### Product features:

- Large-volume polyethylene tank
- Vortex impeller pump for black water
- Double shaft sealing (mechanical seal and radial shaft seal)
- Protection class IP68
- Operating temperature up to 55 °C
- Pneumatic level control ZPS1 (single unit) or ZPS2 (duplex unit) with LCD display and alarm function

### Applications:

- Pumping of large volumes of wastewater containing faecal matter
- Multi-family buildings, commercial and industrial applications
- Above-floor installation in frost-protected rooms



### Technical specifications:

#### W 80 Series

Maximum flow rate Q <sub>max</sub>	60,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	11,0 m
Motor output P <sub>2</sub>	3.000 W
Permissible solids size	80 mm
Voltage	400 V
Nominal current	6,9 A
Speed	1.400 U/min

Further information available here:

#### Simplex unit



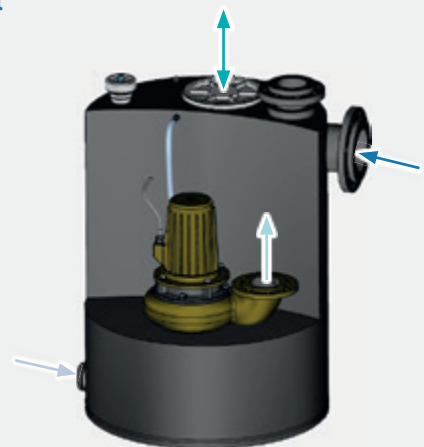
#### Duplex unit



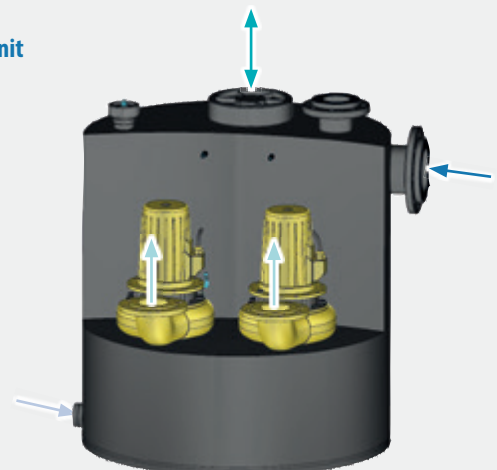
### Discharge connection / inlet connection:

- Ø Side inlet with loose flange DN 150
- ↔ Ø Vent connection, external Ø 100 mm
- Ø Discharge elbow DN 100
- 1½" connection for manual diaphragm pump

#### Simplex unit



#### Duplex unit



# WUZ 100 SERIES

For the highest demands in commercial and industrial applications.

High-performance lifting stations for **wastewater containing faecal matter**. Ready-to-install systems in accordance with DIN EN 12050-1 for above-floor installation below the backflow level – available as **single or duplex units**.

## Product features:

- Large-volume polyethylene tank
- Freistromradpumpe für Schwarzwasser
- Double shaft sealing (mechanical seal and radial shaft seal)
- Protection class IP68
- Operating temperature up to 55 °C
- Pneumatic level control ZPS1 (single unit) or ZPS2 (duplex unit) with LCD display and alarm function

## Applications:

- Pumping of large volumes of wastewater containing faecal matter
- Industrial, commercial and public buildings
- Above-floor installation in frost-protected rooms



## Technical specifications:

### WUZ 100 Series

Maximum flow rate Q <sub>max</sub>	120,0 - 165,0 m <sup>3</sup> /h
Maximum head H <sub>max</sub>	10,0 - 22,0 m
Motor output P <sub>2</sub>	3.000 - 7.500 W
Permissible solids size	80 - 100 mm
Voltage	400 V
Nominal current	6,9 - 16,9 A
Speed	1.400 U/min

Further information available here:

#### Simplex unit



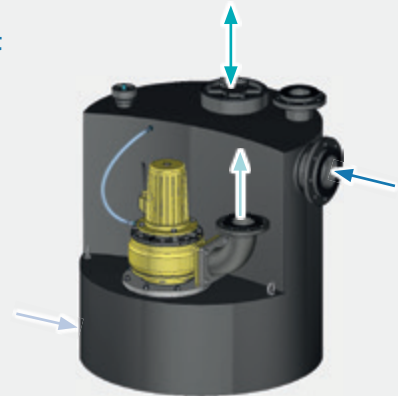
#### Duplex unit



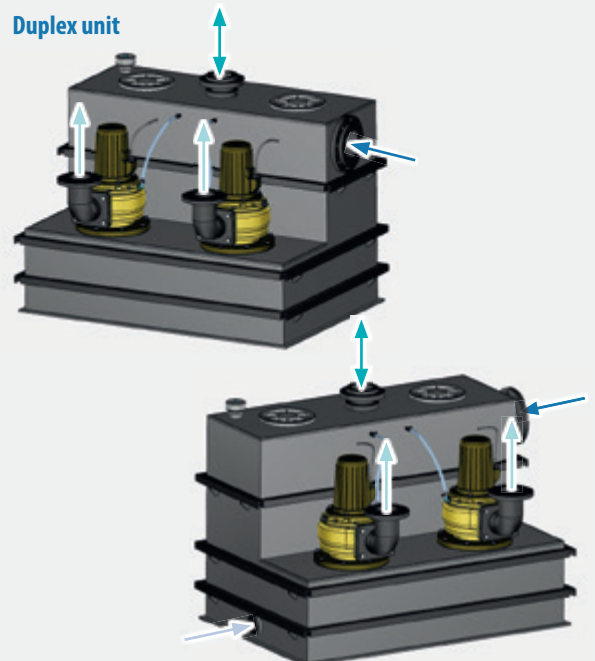
## Discharge connection / inlet connection:

- Ø Side inlet with loose flange DN 150
- ← Ø Vent connection with loose flange DN 100 (Ø 110 mm)
- Ø Discharge connection DN 100
- 1/2" connection for manual diaphragm pump

### Simplex unit



### Duplex unit



# TECHNICAL DATA AT A GLANCE

## Black water lifting stations

Typ	Item no.	P <sub>2</sub> [kW]	U [V]	Hmax [m]	Qmax [m <sup>3</sup> /h]	I <sub>n</sub> [A]	Tank volume [l]	Switching volume [l]	Free solids passage [mm]
VersaCut® <b>NEW</b>	24005	0,37	230	7,0	7,0	2,3	11	2	Cutting system
Kompaktboy Simplex 1,1 W	10428	1,1	230	8,1	41,0	7,6	55	max. 45*	50
Kompaktboy Simplex 1,1 D	10440	1,1	400	8,1	41,0	2,9	55	max. 45*	50
Kompaktboy Simplex 1,5 D	10461	1,5	400	9,9	49,0	3,3	55	max. 45*	50
Kompaktboy Simplex 3,0 D	10466	3,0	400	15,0	35,0	6,2	55	max. 45*	50
Kompaktboy Duplex 1.1 W	17557	1,1	230	8,1	41,0	7,6	150	max. 80*	50
Kompaktboy Duplex 1.1 D	17558	1,1	400	8,1	41,0	2,9	150	max. 80*	50
Kompaktboy Duplex 1.5 D	17559	1,5	400	9,9	49,0	3,3	150	max. 80*	50
Kompaktboy Duplex 3,0 D	17560	3,0	400	15,0	35,0	6,2	150	max. 80*	50
Kompaktboy Simplex SE 71.1 W	17750	1,7	230	22,0	17,0	10,5	55	max. 45*	Cutting system
Kompaktboy Simplex SE 71.1 D	17472	1,7	400	22,0	17,0	3,7	55	max. 45*	Cutting system
Kompaktboy Simplex SE 71.2 D	17473	1,7	400	25,0	17,0	3,7	55	max. 45*	Cutting system
Kompaktboy Simplex SE 71.3 D	17474	3,2	400	35,0	17,0	6,5	55	max. 45*	Cutting system
Kompaktboy Simplex SE 71.4 D	17475	3,2	400	39,0	17,0	6,5	55	max. 45*	Cutting system
Kompaktboy Duplex SE 71.1 D	17462	1,7	400	22,0	17,0	3,7	150	max. 80*	Cutting system
Kompaktboy Duplex SE 71.2 D	17751	1,7	400	25,0	17,0	3,7	150	max. 80*	Cutting system
Kompaktboy Duplex SE 71.3 D	17752	3,2	400	35,0	17,0	6,5	150	max. 80*	Cutting system
Kompaktboy Duplex SE 71.4 D	17753	3,2	400	39,0	17,0	6,5	150	max. 80*	Cutting system
W 80 Simplex	10537	3,0	400	11,0	60,0	6,9	350	175	80
W 80 Duplex	10539	3,0	400	11,0	60,0	6,9	480	270	80
WUZ 100 Simplex 3,0	10545	3,0	400	10,0	120,0	6,9	480	270	80
WUZ 100 Simplex 4,0	10546	4,0	400	13,0	140,0	11,2	480	270	80
WUZ 100 Simplex 5,5	10548	5,5	400	18,0	160,0	12,1	480	270	100
WUZ 100 Simplex 7,5	10549	7,5	400	22,0	165,0	16,9	480	270	100
WUZ 100 Duplex 3,0	10551	3,0	400	10,0	120,0	6,9	1.000	500	80
WUZ 100 Duplex 4,0	10553	4,0	400	13,0	140,0	11,2	1.000	500	80
WUZ 100 Duplex 5,5	10555	5,5	400	18,0	160,0	12,0	1.000	500	100
WUZ 100 Duplex 7,5	10556	7,5	400	22,0	165,0	16,9	1.000	500	100

\*The effective switching volume varies depending on the selected inlet configuration. The Kompaktboy tank is designed with multiple connection ports

# INTELLIGENT CONTROL UNIT

## ZPS level control

The ZPS 1 and ZPS 2 control units from Zehnder Pumpen reliably manage single- and duplex pump systems. They precisely monitor the water level and ensure safe operation through a wide range of convenience and protection functions.

### Product features:

- Robust wall-mounted enclosure with plain-text display
- Automatic operation for single-phase and three-phase pumps
- Programmable start delay and overrun time
- Visual and audible fault alarm (volt-free contact)
- Control via pneumatic level system, float switch or external sensor (4–20 mA)
- Display of operating hours, current consumption and maintenance intervals
- Fault memory for the last 64 events

### Application:

- **ZPS 1:** Control unit for single-pump systems
- **ZPS 2:** Control unit for duplex systems including automatic pump alternation, peak-load operation and fault changeover



# POWERFUL CUTTING – RELIABLE DISPOSAL

In selected lifting stations, cutting system pumps ensure trouble-free operation – even if solids such as wet wipes or hygiene products enter the wastewater. The robust cutting system made of corrosion-resistant special alloy reliably macerates solids, effectively preventing blockages.

The precisely adjusted cutting gap (preset to  $\leq 0.05$  mm) ensures optimal performance and high operational reliability. Ideal for long discharge lines and small pipe diameters – efficient and powerful.

**For further insights:**  
Simply scan the QR code to  
watch the cutting system video.

**SCAN  
ME!**





# FREQUENTLY ASKED QUESTIONS ABOUT LIFTING STATIONS

## 1. WHY CHOOSE A LIFTING STATION INSTEAD OF A PUMP STATION?

Lifting stations are more cost-effective to purchase and easier to install, as they are installed above-floor level. Maintenance is simpler and more cost-efficient.

## 2. HOW MUCH SPACE IS REQUIRED?

Compact systems with flexible inlet configurations are available. For special applications, customised solutions can be developed thanks to our in-house tank manufacturing.

## 3. WHAT IS REQUIRED FOR INSTALLATION?

The systems are ready to install and supplied with all necessary connection components. They are securely fixed to the floor – including non-return valve(s) (optional for W 80 and WUZ 100) – to prevent movement during pump start-up.

## 4. HOW IS THE SYSTEM CONTROLLED?

The ZPS control unit (see p. 19) provides precise level monitoring, adjustable switching points and an integrated alarm system – audible, visual and optionally mains-independent.

## 5. HOW COMPLEX IS MAINTENANCE?

The systems are installed dry, allowing maintenance without contact with wastewater. Kompaktboy models additionally feature an inspection cover for emergency access.

## 6. ARE THE SYSTEMS LEAK-TIGHT?

The robust PE-HD tanks are non-pressurised, dimensionally stable and chemically resistant. The pumps are equipped with double shaft sealing.

## 7. WHAT HAPPENS IN THE EVENT OF A POWER FAILURE?

The ZPS control unit triggers an alarm. Optional emergency drainage via manual diaphragm pump is available. The tanks provide buffer capacity for short-term outages.

## 8. HOW NOISY IS OPERATION?

Small lifting stations for residential applications – such as kitchens or bathrooms – operate with very low noise levels. Larger systems are typically installed in basements or outside buildings, where higher performance is required.

## 9. IS SUFFICIENT STORAGE VOLUME AVAILABLE?

Tank sizes are designed according to the specific application. Custom tank volumes up to 20 m<sup>3</sup> are available.

## 10. HOW RESISTANT IS THE SYSTEM TO CLOGGING?

Free passage up to 100 mm or integrated cutting systems ensure reliable operation, even with challenging media.

## 11. WILL THERE BE ANY ODOUR INSIDE THE BUILDING?

No. Greywater systems are equipped with activated carbon filters, while black water systems are vented to the outside atmosphere via vent lines.

# FACTORY-BUILT CUSTOM SOLUTIONS

Flexible. Customised. Precisely engineered.

Not every installation scenario can be covered by a standard solution. Thanks to our **in-house tank manufacturing**, Zehnder Pumpen offers customised lifting stations precisely tailored to specific requirements – **from special connection configurations to tank volumes of up to 20,000 litres**.

Whether **confined installation conditions, challenging media or exceptional pumping heads**: in close cooperation with our engineering team, bespoke solutions are developed that integrate seamlessly into any project design.



## Key benefits at a glance:

- Freely configurable tank volumes and connection layouts
- Fast implementation thanks to short decision and production paths
- High quality standards and extensive in-house manufacturing depth
- Manufactured in Germany

## Typical applications:

- Commercial kitchens and industrial facilities
- Buildings with complex drainage concepts
- Specialised solutions for refurbishment and retrofit projects



# THE RELIABLE WAY TO THE RIGHT LIFTING STATION.



## BIM integration for efficient wastewater planning

Digital planning reliability is essential in modern building services engineering. Therefore, we provide high-quality BIM data tailored specifically for MEP consultants and planners. Our entire portfolio of lifting stations is provided as fully developed Autodesk Revit families, ensuring reliable integration into BIM workflows.

Our BIM data includes:

- Complete Revit family structures including all types
- Integrated accessories for precise specification
- Parametrically controlled maintenance areas
- Standardized attributes based on DIN BIM Cloud
- Reduced file sizes for optimized project handling



[www.zehnder-pumpen.de/en/BIM](http://www.zehnder-pumpen.de/en/BIM)

## Expert technical consultation













If any questions remain or more complex requirements arise, our technical team is available to provide expert advice and in-depth know-how. Together, the right solution will be identified – whether a standard product or a customised system.

## Contact our technical team:

+49 3774 52-193

[offers@zehnder-pumpen.de](mailto:offers@zehnder-pumpen.de)



APPLICATION OVERVIEW		Floor-mounted WC	Wall-hung WC	Bidet	Urinal	Washbasin	Shower	Bathtub	Sink	Dish-washer	Washing machine	Water softening system	Hot water (90°C)	H <sup>max</sup> [m]	Q <sup>max</sup> [m <sup>3</sup> /h]	Free solids passage [mm]	Discharge connection
GREYWATER	SWH® 100													11,00	14,00	10	DN 32
	S-SWH 100													11,00	14,00	10	DN 32
	VersaLift®													9,5	10,20	10	DN 32
	UFB 200													11,00	11,00	30	DN 32
	S-UFB 200													11,00	11,00	30	DN 32
	SWH® 500 Simplex & Duplex													14,00	10,00	30	DN 32
	SWH-F 500 Simplex & Duplex													11,00	11,00	30	DN 32
	S-SWH-F 500 Simplex & Duplex													11,00	11,00	30	DN 32
	VersaCut®														7,50	Cutting system	DN 20 - DN 32
	Kompaktboy® Simplex & Duplex														15,00	49,00	50
Kompaktboy® SE Simplex & Duplex														39,00	17,00	Cutting system	DN 32
W 80 Simplex & Duplex														11,00	60,00	80	DN 100
WUZ 100 Simplex & Duplex														22,00	165,00	80 / 100	DN 100

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