

# WATER DISPOSAL

## PRODUCT CATALOGUE



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# DOMESTIC DRAINAGE PUMPS

## OVERVIEW

| Domestic drainage pumps   | Free passage | Type                  | Page    |
|---------------------------|--------------|-----------------------|---------|
| Submersible drainage pump | 25 mm        | <b>Vip Vort</b>       | 4 - 5   |
|                           | 10 mm        | <b>U3K</b>            | 6 - 9   |
|                           | 10 mm        | <b>U3K Special</b>    | 10 - 13 |
|                           | 10/20 mm     | <b>U5K</b>            | 14 - 17 |
|                           | 10/20 mm     | <b>U6K</b>            | 18 - 21 |
|                           | 10 mm        | <b>MultiDrain UV3</b> | 22 - 25 |
|                           | 15 mm        | <b>VF150</b>          | 26 - 27 |
| Submersible utility pump  | 2 mm         | <b>SIMER 5</b>        | 28 - 29 |
| Clear water drainage pump | 5 mm         | <b>COMPAC 200</b>     | 30 - 31 |

## ACCESSORIES

| Type                                   | Code no.       | U3KS<br>U3KS spez. | U5KS | U6K<br>ES | U6K<br>DS | MultiDrain<br>UV3 S | Simer |
|----------------------------------------|----------------|--------------------|------|-----------|-----------|---------------------|-------|
| SPECIAL FLOAT LOW SWITCH. POINTS       | <b>JP44795</b> | •                  |      |           |           |                     |       |
| SPECIAL FLOAT LOW SWITCH. POINTS U5/U6 | <b>JP44207</b> |                    | •    | •         | •         |                     |       |
| SPECIAL FLOAT NARROW CHAMBERS          | <b>JP40856</b> | •                  | •    | •         | •         | •                   |       |
| FLOAT FIXATION                         | <b>JP42175</b> | •                  | •    | •         | •         | •                   |       |
| GUIDE RAIL SYSTEM GR 32                | <b>JP44000</b> | •                  | •    | •         | •         |                     |       |
| CONNECTION KIT DN 32                   | <b>JP44609</b> | •                  | •    | •         | •         |                     |       |
| SIMER LEVEL CONTROL                    | <b>JP46884</b> |                    |      |           |           |                     | •     |

# VIP VORT DRENA-LINE

## DRAINAGE PUMP

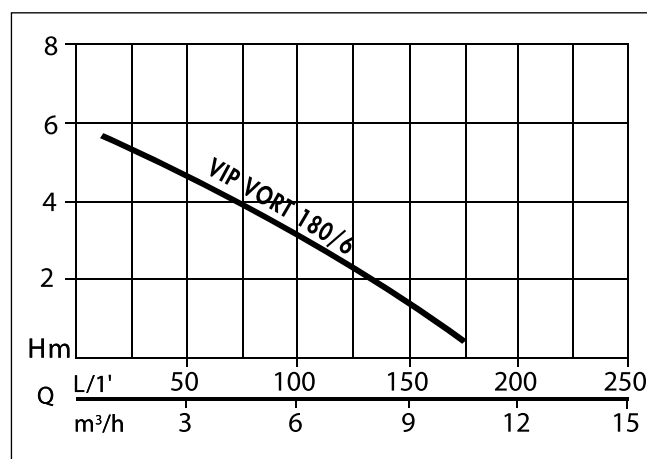
- Corrosion resistant construction
- Automatic operation
- Drainage level to 30 mm
- Moisture sealed cable inlet
- Max. particle size 25 mm
- Fluid temperature 35 °C
- Max. submergence 7 m
- Start/stop 370 mm/150 mm
- Maximum 30 starts per hour



### DESCRIPTION

Vip Vort submersible pumps for wastewater are an essential requirement when it is necessary to transfer water containing particles. They are particularly suitable for drainage of cess-pools, flood water removal and sewage transfer from sumps. Vip Vort pumps are designed for applications in dirty water with suspended solids up to 25mm.

### PERFORMANCE



| Type           | Delivery head H [m] | 2   | 3   | 4   | 5   |
|----------------|---------------------|-----|-----|-----|-----|
| Vip Vort 180/6 | Flow rate Q [m³/h]  | 8.0 | 6.2 | 4.2 | 1.9 |

We reserve the right to change specifications without notice.

This data is represented in the performance curve as a limit of application.

# VIP VORT

## DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection 1/4" MI BSP connection with 1/4" M&F elbow and adapter 1/4" FI BSP x barb to suit hoses ø 20 & 25 mm, cable and plug.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 25 mm                            |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Rotary shaft seal                |
| Oil chamber         | Yes                              |
| Seal on medium side | 2-fold rotary shaft seal         |
| Run dry protection  | Yes                              |

|                 |                      |
|-----------------|----------------------|
| Shaft           | Stainless steel      |
| Impeller        | Vortex impeller, GFK |
| Motor housing   | Stainless steel      |
| Pump housing    | Polypropylene        |
| Submersible     | Yes                  |
| Pressure outlet | 1 1/4" MI            |

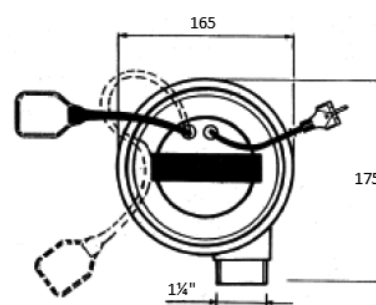
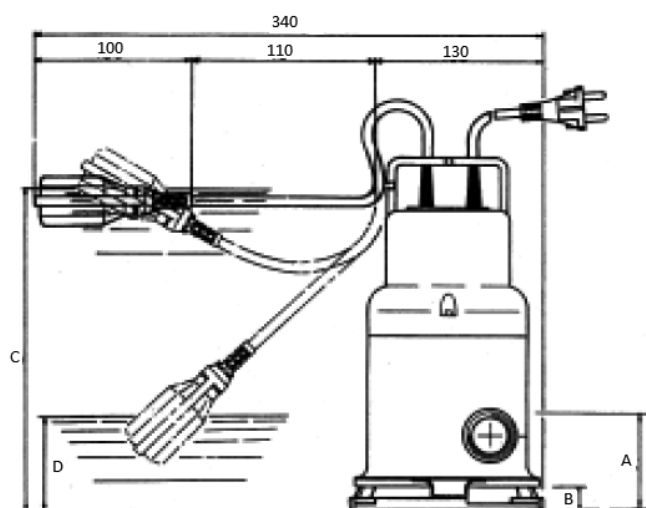
### ELECTRICAL DATA

|                   |              |
|-------------------|--------------|
| Voltage           | 1/N/PE~230 V |
| Motor rating P1   | 0.48 kW      |
| Current           | 2.1 A        |
| Type of enclosure | IP 68        |
| Insulation class  | F            |

|                    |                |
|--------------------|----------------|
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

| Type                                                      | Code No.           | Power line   | Wires | Weight |
|-----------------------------------------------------------|--------------------|--------------|-------|--------|
| With built-in level control<br>Vip Vort 180/6, 10 m cable | <b>N2101090-AU</b> | 10m H07RN8-F | 3G1,0 | 4.2 kg |

### Dimensions and switching points VIP VORT 180/6 (mm)



| Type                        | A   | B  | C   | D   | DNM    |
|-----------------------------|-----|----|-----|-----|--------|
| VIP VORT 180/6              | 150 | 30 | 330 | 150 | 1 1/4" |
| START LEVEL (Auto)          | 330 |    |     |     |        |
| STOP LEVEL (Auto)           | 150 |    |     |     |        |
| MIN.PRIMING LEVEL           | 150 |    |     |     |        |
| MIN. SUCTION LEVEL (Manual) | 30  |    |     |     |        |

# U3 KS

## DRAINAGE PUMP

- Cooling jacket for motor housing
- Low level pumping by detachable strainer base
- Flushing device activatable and deactivatable
- Variable discharge branch with closable ventilation
- Run dry protection
- EIP Technology
- Moisture sealed cable inlet
- Fluid temperature 35 °C, temporarily 60 °C (10 min.)



### DESCRIPTION

The U3 KS are versatile submersible pumps for stationary and portable use. GID technology for more operational safety, an integrated flushing device to reduce deposits and the integrated low level pumping to remove flooding ensure many years of trouble-free operation.

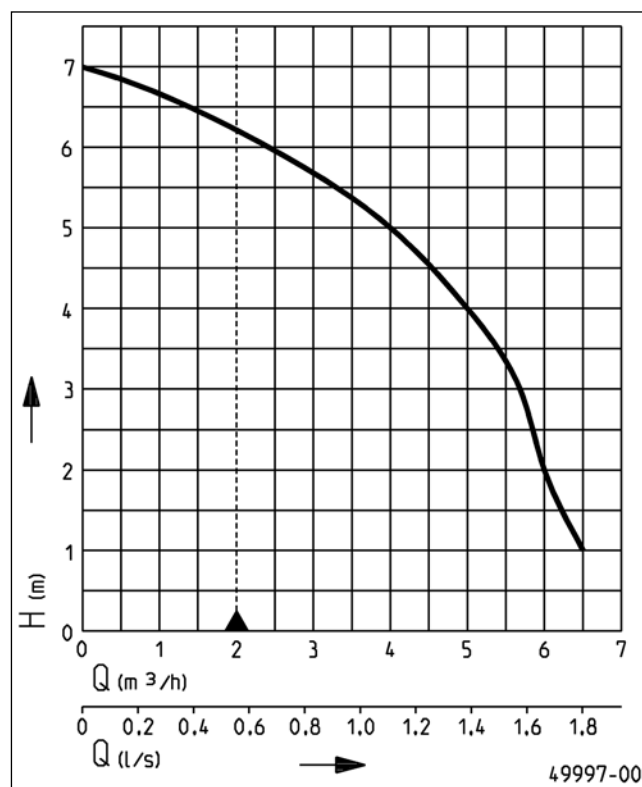
The U3 KS is ideal for pumping rainwater, slightly polluted water or domestic wastewater (grey water), also from household dishwashers and washing machines (also high temperature).

The U3 KS can be combined with the above- and underfloor tank of the Hebefix series.

Should the sump or tank temporarily run dry, the pump is automatically vented via an opening in the discharge elbow.

The U3 KS must not be used for pumping wastewater containing faeces or wastewater from urinal systems

### PERFORMANCE



| Type  | Delivery head H [m] | 1   | 2   | 3   | 4   | 5   | 6   |
|-------|---------------------|-----|-----|-----|-----|-----|-----|
| U3 KS | Flow rate Q [m³/h]  | 6.5 | 6.0 | 5.7 | 5.0 | 4.0 | 2.4 |

We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances  
This data is represented in the performance curve as a limit of application.

# U3 KS

## DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection with 90° 1 1/4" female connection elbow with integrated self-ventilation, cable and plug, and automatic level float switch.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 10 mm                            |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Rotary shaft seal                |
| Oil chamber         | Yes                              |
| Seal on medium side | 2-fold rotary shaft seals        |
| Run dry protection  | Yes                              |

|                 |                      |
|-----------------|----------------------|
| Shaft           | Stainless steel      |
| Impeller        | Vortex impeller, GFK |
| Motor housing   | Stainless steel      |
| Pump housing    | GRP                  |
| Submersible     | Yes                  |
| Pressure outlet | 1 1/4" MI            |

### ELECTRICAL DATA

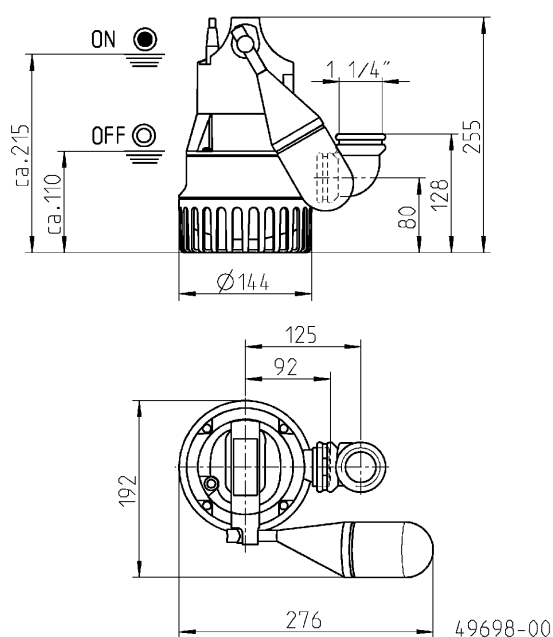
|                   |              |
|-------------------|--------------|
| Voltage           | 1/N/PE~230 V |
| Motor rating P1   | 0.32 kW      |
| Motor rating P2   | 0.2 kW       |
| Current           | 1.4 A        |
| Type of enclosure | IP 68        |

|                    |                |
|--------------------|----------------|
| Insulation class   | F              |
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

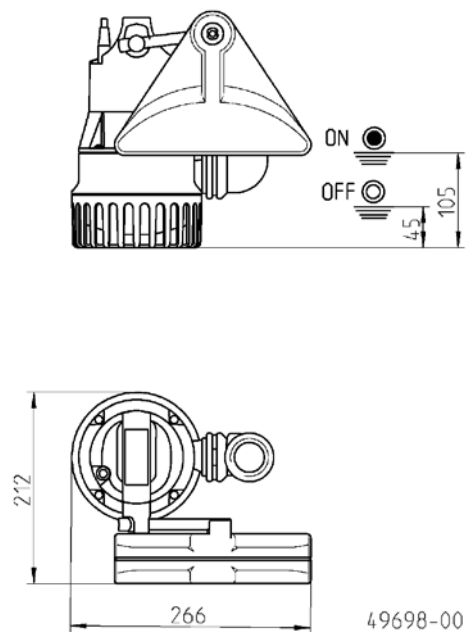
### U3

| Type                               | Code No. | Power line  | Wires | Weight |
|------------------------------------|----------|-------------|-------|--------|
| <b>With built-in level control</b> |          |             |       |        |
| U3 KS, 10 m cable                  | JP50024  | 10m H07RN-F | 3G1,0 | 4.3 kg |

### Dimensions and switching points U3 KS (mm)



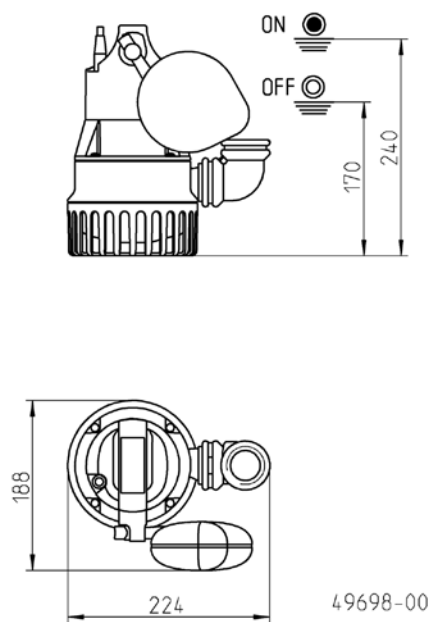
### Dimensions and switching points special float (mm)



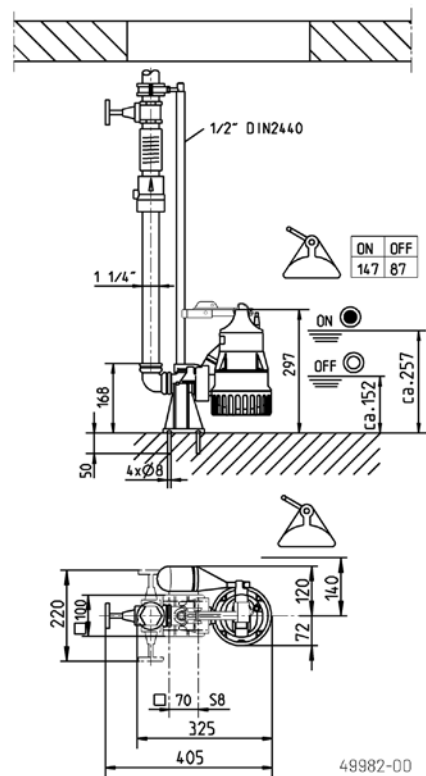
# U3 KS

## DRAINAGE PUMP

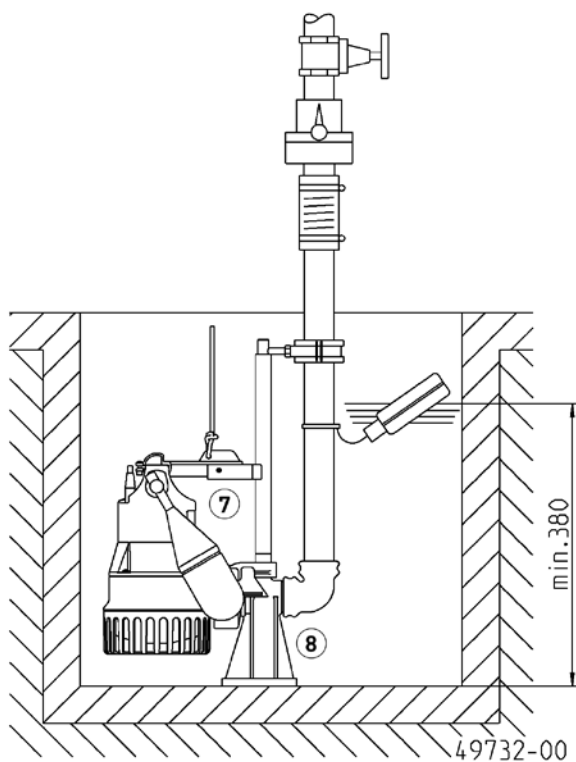
### Dimensions and switching points special float (mm)



### Dimensions GR 32 (mm)



### Example of single pump installation with GR



Single unit with GR: sump area min. 40x50 cm or Ø 50 cm  
Single unit without GR: sump area min. 40x40 cm or Ø 40 cm

# U3 KS

## DRAINAGE PUMP

### MECHANICAL ACCESSORY

|                                                                                   |                            |                                             | Code No.       |
|-----------------------------------------------------------------------------------|----------------------------|---------------------------------------------|----------------|
|  | <b>⑦ Special float</b>     | for lower switching points                  | <b>JP44795</b> |
|  |                            | for narrow chambers (mind. 30x30 od Ø30 cm) | <b>JP40856</b> |
|  | Float fixation             | for continuous pump operation               | <b>JP42175</b> |
|  | <b>⑧ Guide rail system</b> | GR 32                                       | <b>JP44000</b> |

# U3 KS SPECIAL

## DRAINAGE PUMP

- For saline solutions up to 15% salinity
- Cooling jacket for motor housing
- Low level pumping by detachable strainer base
- Flushing device activatable and deactivatable
- Variable discharge branch with closable ventilation
- Run dry protection
- EIP Technology
- SiC mechanical seal
- Moisture sealed cable inlet
- Fluid temperature 35 °C, temporarily 60 °C (10 min.)



### DESCRIPTION

The U3 KS special is a variant of the U3 KS designed to pump aggressive media such as brine from water softeners, brackish water, condensate from gas condensing boilers, silage liquid, whey or liquid fertiliser.

Residential greywater from dishwashers or washing machines (even boil wash program) or outdoor applications like drainage or rainwater can easily be handled by this pump.

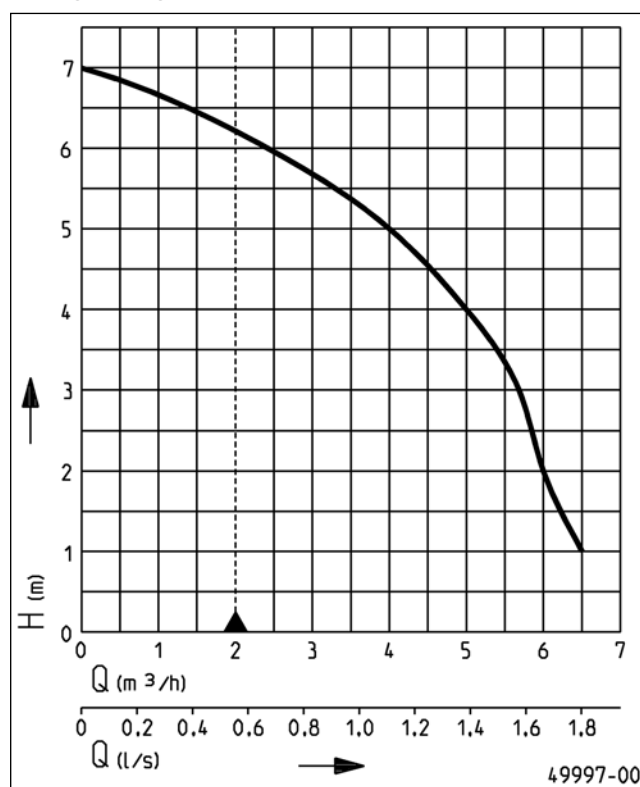
Depending on the application it can be used either in a fixed installation or as a mobile pump. For fixed installations the pump can be combined with existing sumps or the Hebefix tank.

Aggressive media are not precisely specified and occur in countless different compositions. In order to provide reliability and warranty, please contact our technical support for consultancy.

The U3 KS special provides the same technical features as the standard model U3 KS. Guide rail systems offer the advantages of quick and easy maintenance.

Despite its high range of possible applications, the U3 KS special must not be used to pump effluent containing faeces or wastewater from urinal systems.

### PERFORMANCE



| Type          | Delivery head H [m] | 1   | 2   | 3   | 4   | 5   | 6   |
|---------------|---------------------|-----|-----|-----|-----|-----|-----|
| U3 KS special | Flow rate Q [m³/h]  | 6.5 | 6.0 | 5.7 | 5.0 | 4.0 | 2.4 |

We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances. This data is represented in the performance curve as a limit of application.

# U3 KS SPECIAL

## DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection with 90° 1¼" female connection elbow with integrated self-ventilation, cable and plug, and automatic level float switch.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 10 mm                            |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Rotary shaft seal                |
| Oil chamber         | Yes                              |
| Seal on medium side | SiC mechanical seal              |
| Run dry protection  | Yes                              |

|                 |                      |
|-----------------|----------------------|
| Shaft           | Stainless steel      |
| Impeller        | Vortex impeller, GFK |
| Motor housing   | Stainless steel      |
| Pump housing    | GRP                  |
| Submersible     | Yes                  |
| Pressure outlet | 1 1/4" MI            |

### ELECTRICAL DATA

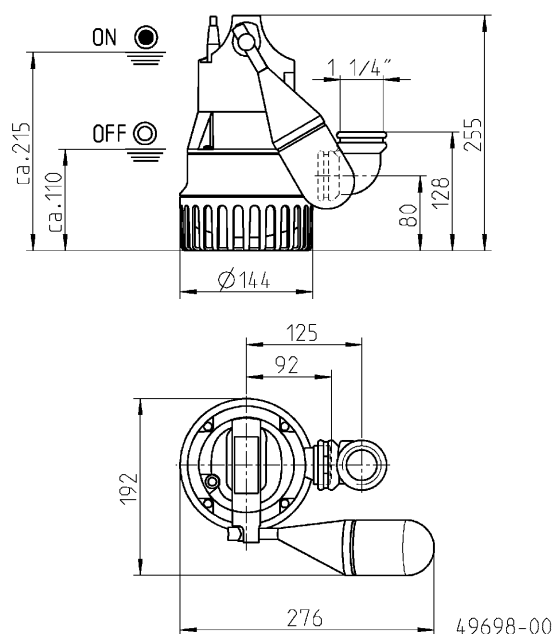
|                 |              |
|-----------------|--------------|
| Voltage         | 1/N/PE~230 V |
| Motor rating P1 | 0.32 kW      |
| Motor rating P2 | 0.22 kW      |
| Current         | 1.4 A        |
| Wires           | 3G1,0        |

|                    |                |
|--------------------|----------------|
| Type of enclosure  | IP 68          |
| Insulation class   | B              |
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

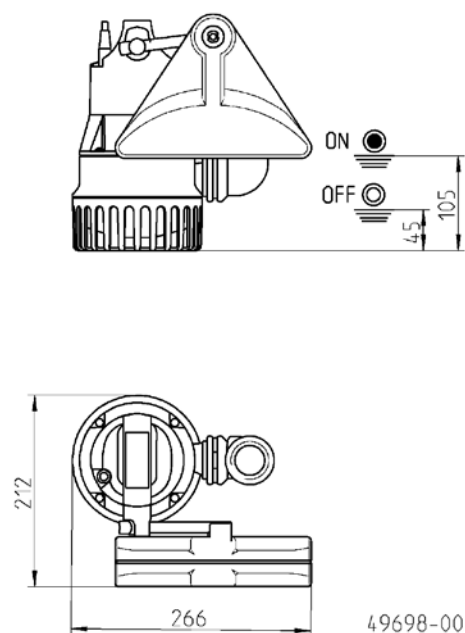
### U3 SPECIAL

| Type                               | Code No. | Power line  | Weight |
|------------------------------------|----------|-------------|--------|
| <b>With built-in level control</b> |          |             |        |
| U3 KS special, 10 m cable          | JP50023  | 10m H07RN-F | 4.4 kg |

### Dimensions and switching points U3 KS spec. (mm)



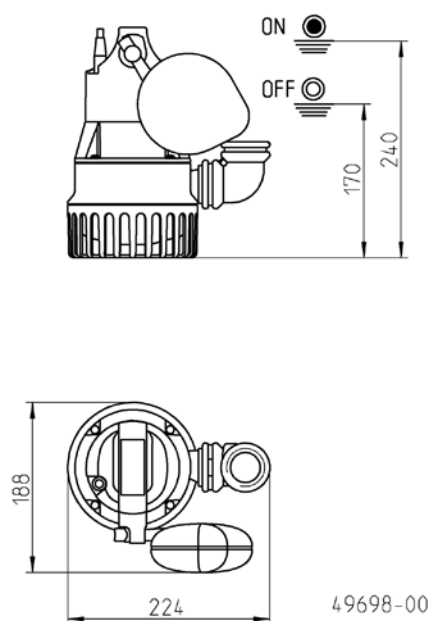
### Dimensions and switching points special float (mm)



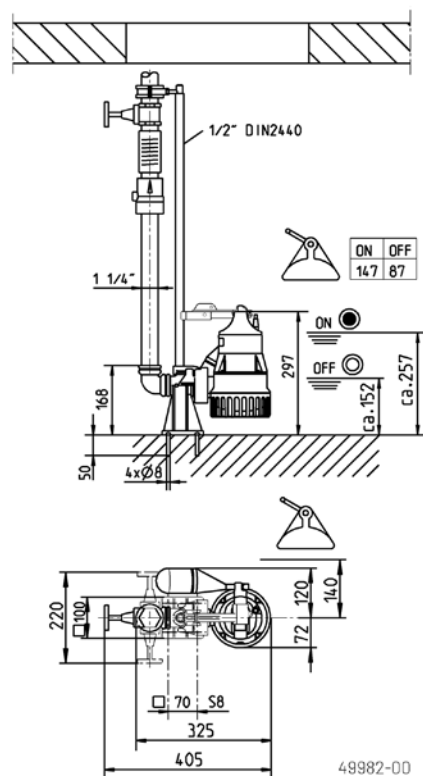
# U3 KS SPECIAL

## DRAINAGE PUMP

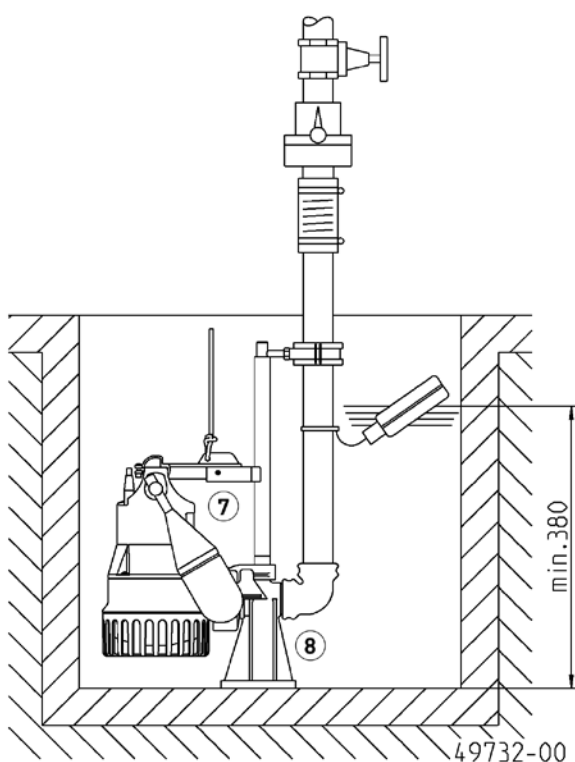
### Dimensions and switching points special float (mm)



### Dimensions GR (mm)



### Example of single pump installation with GR



Single unit with GR: sump area min. 40x50 cm or Ø 50 cm  
Single unit without GR: sump area min. 40x40 cm or Ø 40 cm

# U3 KS SPECIAL

## DRAINAGE PUMP

### MECHANICAL ACCESSORY

|                                                                                   |                            |                                             | Code No.       |
|-----------------------------------------------------------------------------------|----------------------------|---------------------------------------------|----------------|
|  | <b>7 Special float</b>     | for lower switching points                  | <b>JP44795</b> |
|  |                            | for narrow chambers (mind. 30x30 od Ø30 cm) | <b>JP40856</b> |
|  | Float fixation             | for continuous pump operation               | <b>JP42175</b> |
|  | <b>8 Guide rail system</b> | GR 32                                       | <b>JP44000</b> |

# U5 KS

## DRAINAGE PUMP

- Cooling jacket for motor housing
- Low level pumping by detachable strainer base
- Flushing device
- Variable discharge branch with closable ventilation
- Run dry protection
- 10/20 mm free passage with EIP technology
- Moisture sealed cable inlet
- Fluid temperature 35 °C



### DESCRIPTION

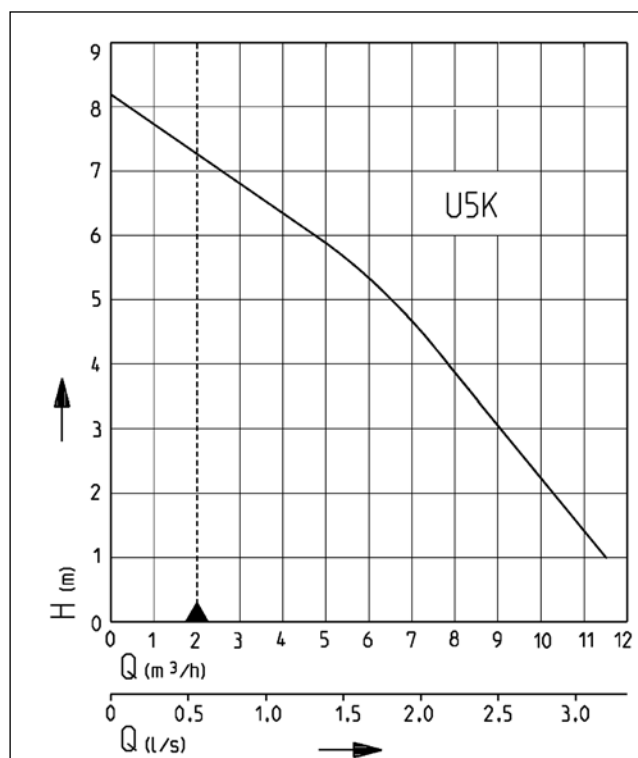
The U5 KS is an extremely powerful and versatile centrifugal submersible pump for both stationary and portable use. The pump is suitable for faecal-free wastewater with solids up to 10 mm particle size. Thanks to the removable strainer base, it is possible to increase the free passage to 20 mm.

Stationary in a basement chamber or a collecting tank, with an automatic switch attached, the U5 KS handles all dirty water arising from domestic drainage sources such as washing machines, dishwashers, washstands, etc. Deposit accumulation in the reservoirs and chambers is reduced to a minimum by means of a flushing device.

Guide rail systems offer the advantages of quick and easy maintenance. If the sump or tank runs dry temporarily, the pump is vented via an opening in the discharge elbow.

The U5 KS can be used as a portable unit for dealing with dirty water from garden ponds, flooded cellars or discharge chambers in laundry rooms or storage rooms. Thanks to its shallow, built-in suction system, it can reduce residual water level to no more than a few millimeters.

### PERFORMANCE



| Type  | Delivery head H [m] | 1    | 2    | 3   | 4   | 5   | 6   | 7   |
|-------|---------------------|------|------|-----|-----|-----|-----|-----|
| U5 KS | Flow rate Q [m³/h]  | 11.5 | 10.5 | 9.0 | 7.5 | 6.5 | 4.5 | 2.5 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.  
This data is represented in the performance curve as a limit of application.

## DRAINAGE PUMP

## SCOPE OF SUPPLY

Pump ready for connection with 90° 1¼" female connection elbow, cable and safety plug, swing-type check valve for mobile use, and with automatic level float switch. The pump is delivered fitted with a strainer base which can be swapped for any of the accompanying pedestals in cases where a 20 mm clear passage is required.

## MECHANICAL DATA

|                     |                                     |
|---------------------|-------------------------------------|
| Pump                | Vertical single-stage               |
| Free passage        | 20 mm                               |
| Bearing             | Ball bearings,<br>grease-lubricated |
| Seal on motor side  | Rotary shaft seal                   |
| Oil chamber         | Yes                                 |
| Seal on medium side | 2-fold rotary shaft seals           |

|                    |                      |
|--------------------|----------------------|
| Run dry protection | Yes                  |
| Shaft              | Stainless steel      |
| Impeller           | Vortex impeller, GFK |
| Motor housing      | Stainless steel      |
| Pump housing       | GRP                  |
| Submersible        | Yes                  |
| Pressure outlet    | 1 1/4" MI            |

## ELECTRICAL DATA

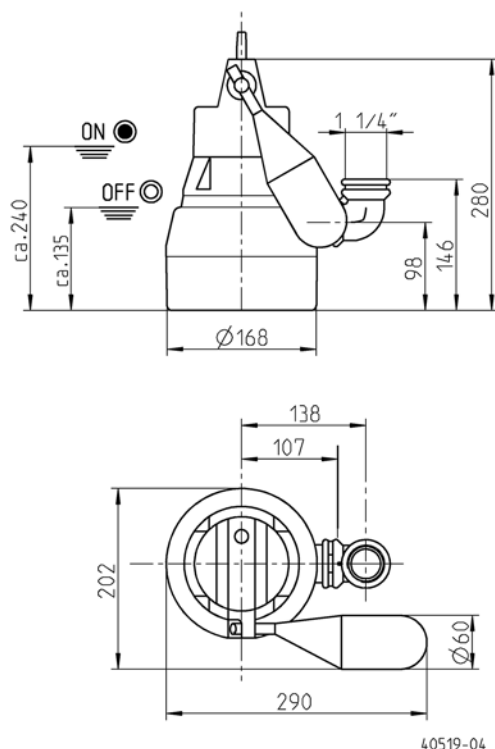
|                   |              |
|-------------------|--------------|
| Voltage           | 1/N/PE~230 V |
| Motor rating P1   | 0.52 kW      |
| Motor rating P2   | 0.38 kW      |
| Current           | 2.3 A        |
| Type of enclosure | IP 68        |

|                    |                |
|--------------------|----------------|
| Insulation class   | B              |
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

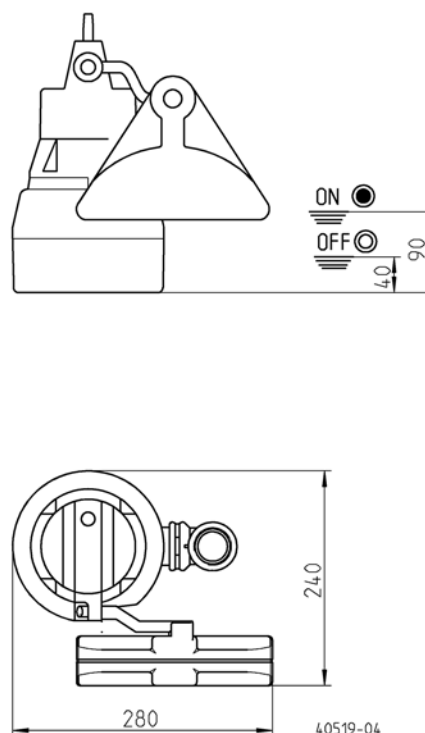
## U5

| Type                               | Code No.       | Power line  | Wires | Weight |
|------------------------------------|----------------|-------------|-------|--------|
| <b>With built-in level control</b> |                |             |       |        |
| U5KS, 10 m cable                   | <b>JP44091</b> | 10m H07RN-F | 3G1,0 | 5.4 kg |

### Dimensions and switching points U5 KS (mm)



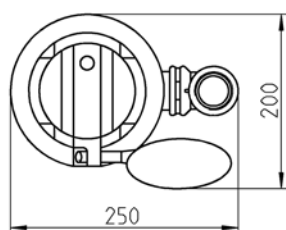
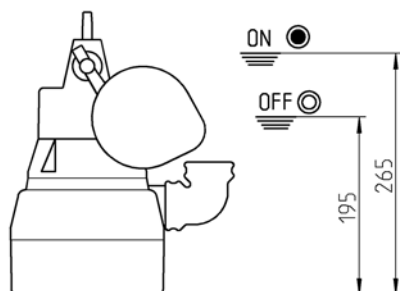
### Dimensions and switching points special float switch (mm)



# U5 KS

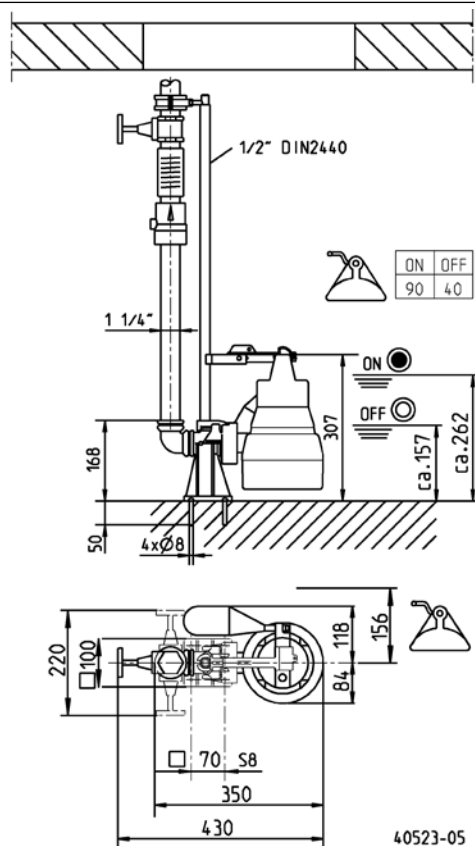
## DRAINAGE PUMP

### Dimensions and switching points float switch (mm)



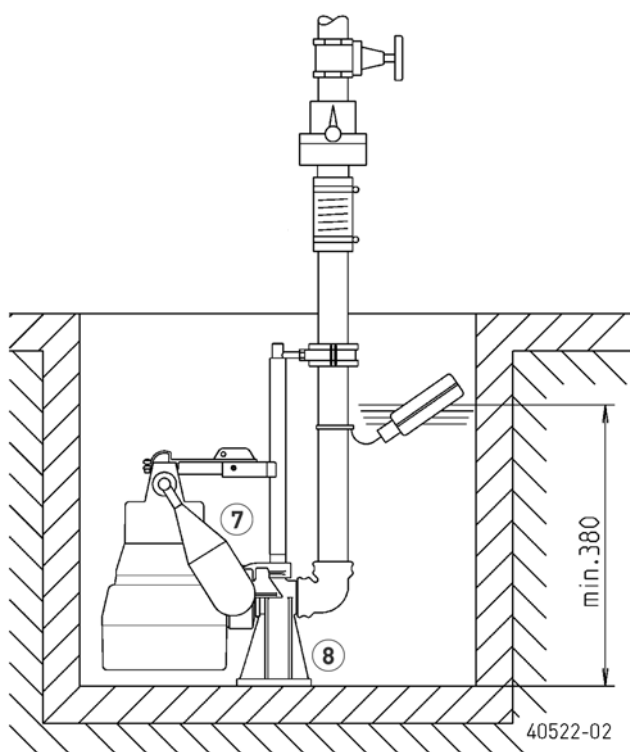
40519-04

### Dimensions and switching points GR 32 (mm)



40523-05

### Example of single pump installation with GR



40522-02

Single unit with GR: sump area min. 40x50 cm or Ø 50 cm  
Single unit without GR: sump area min. 40x40 cm or Ø 40 cm

# U5 KS

## DRAINAGE PUMP

### MECHANICAL ACCESSORY

|                                                                                   |                            |                                             | Code No.       |
|-----------------------------------------------------------------------------------|----------------------------|---------------------------------------------|----------------|
|  | <b>⑦ Special float</b>     | for lower switching points (U5 and U6)      | <b>JP44207</b> |
|  |                            | for narrow chambers (mind. 30x30 od Ø30 cm) | <b>JP40856</b> |
|  | Float fixation             | for continuous pump operation               | <b>JP42175</b> |
|  | <b>⑧ Guide rail system</b> | GR 32                                       | <b>JP44000</b> |

# U6 KS

## DRAINAGE PUMP



- Cooling jacket for motor housing
- Flushing device
- Low level pumping by detachable strainer base
- SiC mechanical seal independent of sense of rotation
- Run dry protection
- 10/20 mm free passage with EIP technology
- Replaceable moisture sealed cable inlet
- Fluid temperature 35 °C

### DESCRIPTION

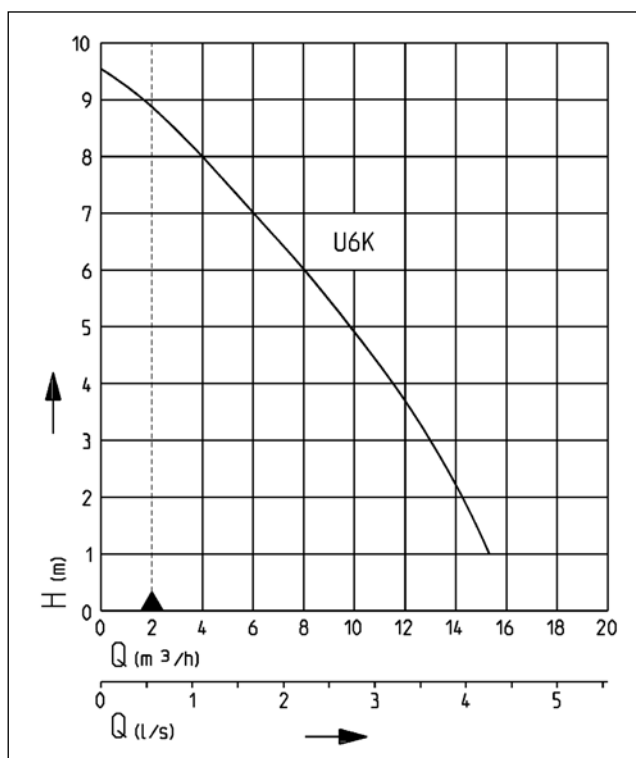
The U6 K range of pumps is suitable for stationary and portable use.

It can be used as a drainage pump for mildly contaminated waste and ground water, in sumps with rain water, drainage or seepage water, silage liquor and liquid manure. The high quality mechanical seal also makes the pump suitable for extracting abrasive media.

In stationary use the U6 K ES/DS removes the wastewater from domestic appliances such as dishwashers and washing machines. Guide rail systems offer the advantages of quick and easy maintenance. If the sump or tank runs dry temporarily, the pump is vented via an opening in the discharge elbow.

For supporting sewage water with heavy pollution, we recommend our US series.

### PERFORMANCE



| Type       | Delivery head H [m] | 1    | 2    | 3    | 4    | 5   | 6   | 7   | 8   | 9   |
|------------|---------------------|------|------|------|------|-----|-----|-----|-----|-----|
| U6 K ES/DS | Flow rate Q [m³/h]  | 15.5 | 14.5 | 13.0 | 11.5 | 9.5 | 8.0 | 6.0 | 4.0 | 1.5 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

This data is represented in the performance curve as a limit of application.

# U6 KS

## DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection with 90° 1/4" female connection elbow, cable and plug, with automatic level float switch. The pump is delivered with attached strainer base, which can be exchanged for the enclosed feet if 20 mm free passage is required.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 20 mm                            |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Rotary shaft seal                |
| Oil chamber         | Yes                              |
| Seal on medium side | SiC mechanical seal              |

|                    |                      |
|--------------------|----------------------|
| Run dry protection | Yes                  |
| Shaft              | Stainless steel      |
| Impeller           | Vortex impeller, GFK |
| Motor housing      | Stainless steel      |
| Submersible        | Yes                  |
| Pressure outlet    | 1 1/4" MI            |

### ELECTRICAL DATA

|                   |         |
|-------------------|---------|
| Motor rating P1   | 0.75 kW |
| Type of enclosure | IP 68   |
| Insulation class  | B       |

|                    |            |
|--------------------|------------|
| Winding thermostat | Yes        |
| Motor protection   | Integrated |

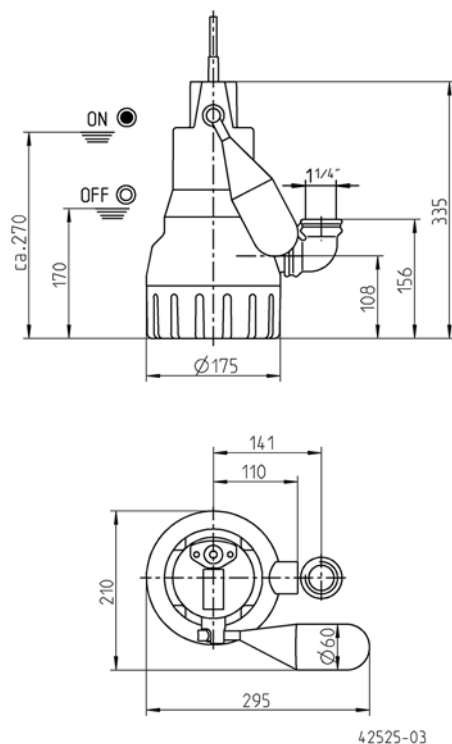
### U6

| Type                               | Code No.       | Voltage      | Motor rating P2 | Current | Power line  | Wires | Plug | Weight |
|------------------------------------|----------------|--------------|-----------------|---------|-------------|-------|------|--------|
| <b>With built-in level control</b> |                |              |                 |         |             |       |      |        |
| U6K ES, 10 m cable                 | <b>JP44085</b> | 1/N/PE~230 V | 0.50 kW         | 3.3 A   | 10m H07RN-F | 3G1,0 | ANZ  | 6.2 kg |
| U6K DS, 10 m cable                 | <b>JP09261</b> | 3/PE~400 V   | 0.55 kW         | 1.3 A   | 10m H07RN-F | 4G1,0 | CEE  | 6.8 kg |

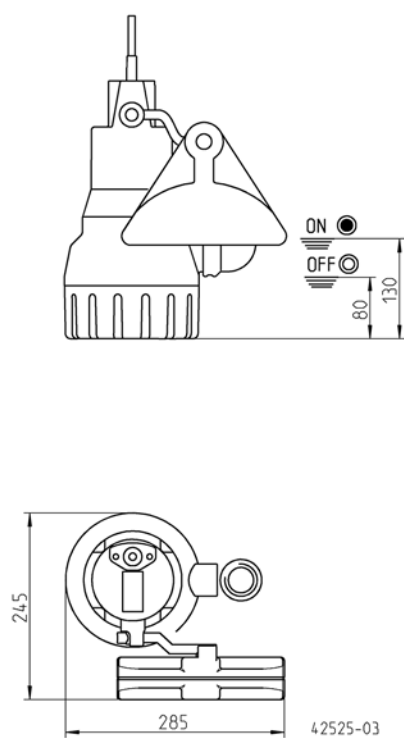
# U6 KS

## DRAINAGE PUMP

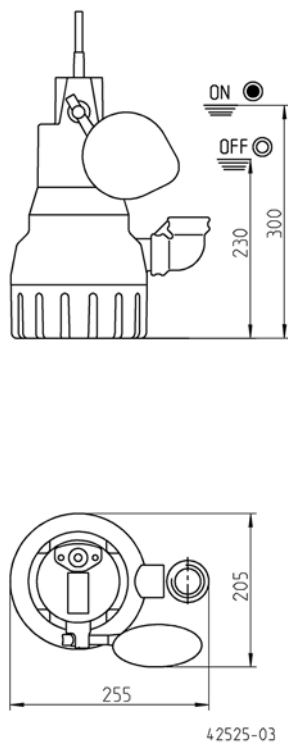
Dimensions and switching points U6 KS (mm)



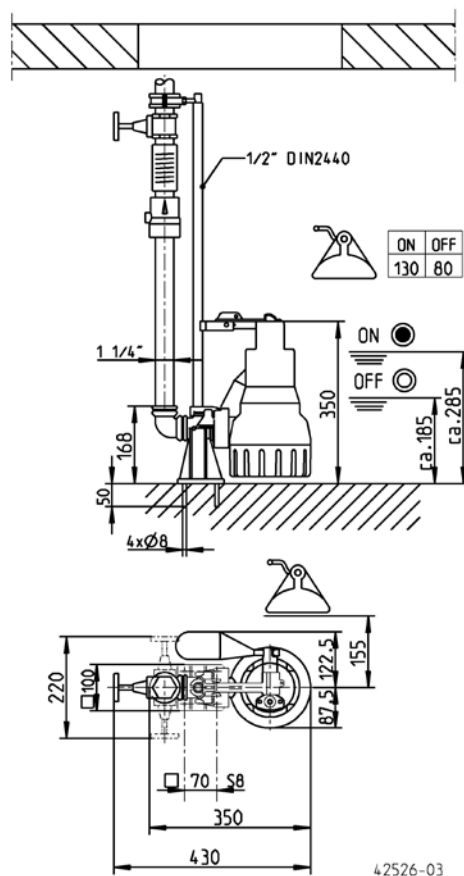
Dimensions and switching points special float (mm)



Dimensions and switching points special float (mm)



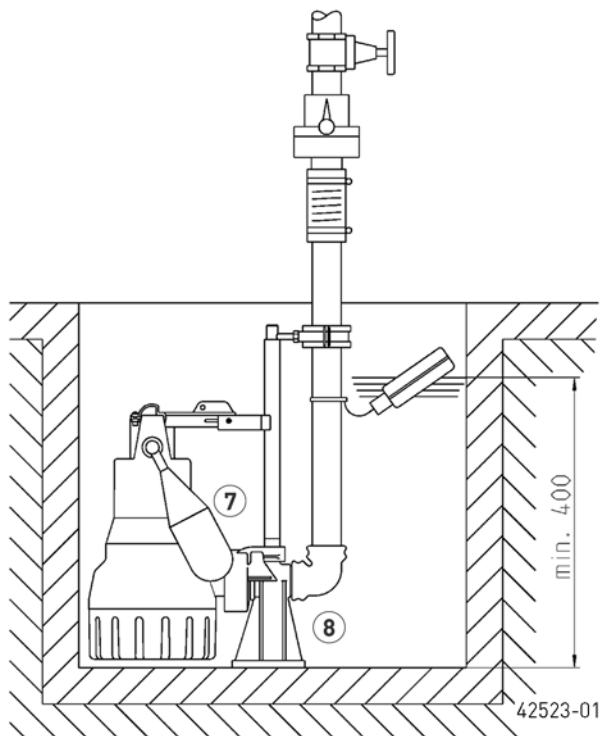
Dimensions and switching points GR 32 (mm)



# U6 KS

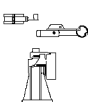
## DRAINAGE PUMP

Example of single pump installation with GR



Single unit with GR: sump area min. 40x50 cm or Ø 50 cm  
 Single unit without GR: sump area min. 40x40 cm or Ø 40 cm

### MECHANICAL ACCESSORY

|                                                                                     |                            |                                             | Code No.       |
|-------------------------------------------------------------------------------------|----------------------------|---------------------------------------------|----------------|
|  | <b>7 Special float</b>     | for lower switching points (U5 and U6)      | <b>JP44207</b> |
|  |                            | for narrow chambers (mind. 30x30 od Ø30 cm) | <b>JP40856</b> |
|  | Float fixation             | for continuous pump operation               | <b>JP42175</b> |
|  | <b>8 Guide rail system</b> | GR 32                                       | <b>JP44000</b> |

# MULTIDRAIN UV3

## SUBMERSIBLE DRAINAGE PUMP

- High quality stainless steel design
- Especially suitable for mobile use
- Cooling jacket for motor housing
- Free passage 10 mm
- Discharge branch vertical 1 1/4"
- Flushing device
- Self ventilation
- Moisture sealed cable inlet
- Fluid temperature 35 °C, temporarily 70 °C (10 min.)



### DESCRIPTION

The Multidrain UV3 is a versatile submersible drainage pump made of stainless steel for portable and stationary use. It pumps rainwater, lightly polluted water and domestic wastewater from e.g. household dishwashers or washing machines (also high temperature).

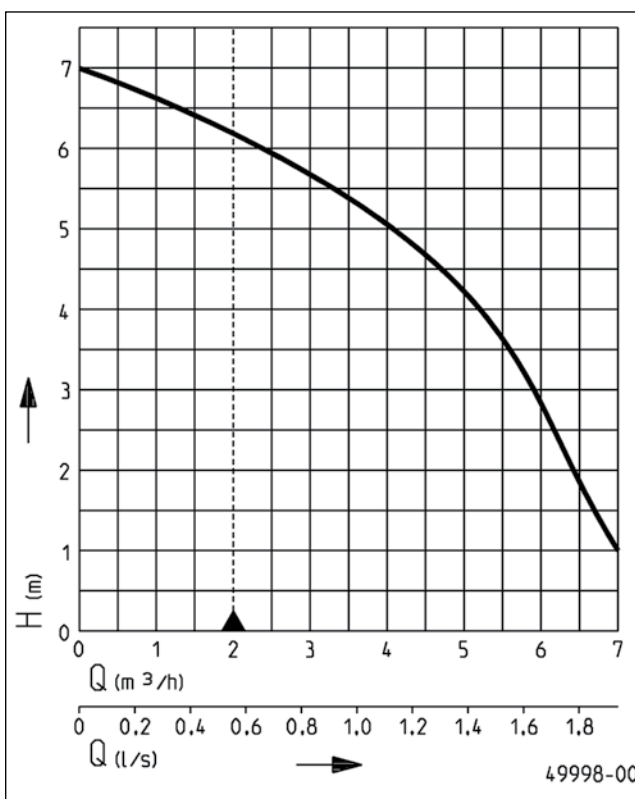
An easy-to-activate flushing device to reduce deposits in the pump sump ensures trouble-free operation and facilitates maintenance.

Motor jacket cooling ensures submerged operation without the risk of overheating. In case of dry running, the thermal motor protection switches off the pump before reaching a critical temperature. These protective measures, plus the swing-type check valve and a hose connection included in the scope of delivery, make the Multidrain UV3 a perfect pump for mobile applications.

In stationary use, the Multidrain UV3 S with automatic switch removes water from drainage shafts in cellars, basements or storage rooms and serves as a backflow protection. If the shaft or container runs dry temporarily, air pockets can escape through the ventilation opening. When the strainer base is removed, the pump removes the water down to a level of 5 mm.

If submersible pumps are used outdoors, only a pump with 10 m cable without extension cable may be used.

### PERFORMANCE



| Type           | Delivery head H [m] | 1   | 2   | 3   | 4   | 5   | 6   |
|----------------|---------------------|-----|-----|-----|-----|-----|-----|
| Multidrain UV3 | Flow rate Q [m³/h]  | 7.0 | 6.4 | 5.9 | 5.2 | 4.1 | 2.6 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

This data is represented in the performance curve as a limit of application.

# MULTIDRAIN UV3

## SUBMERSIBLE DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready to connect with vertical discharge, 1/4" FI connection, cable and plug, swing-type check valve, graded hose connection 1/4" - 38/32/25 mm, float fixation, locking plug (UV3S/3SF) S model with automatic level float switch.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 10 mm                            |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Rotary shaft seal                |
| Oil chamber         | Yes                              |
| Seal on medium side | 2-fold rotary shaft seals        |

|                    |                      |
|--------------------|----------------------|
| Run dry protection | Yes                  |
| Shaft              | Stainless steel      |
| Impeller           | Vortex impeller, GFK |
| Motor housing      | Stainless steel      |
| Pump housing       | Stainless steel      |
| Submersible        | Yes                  |

### ELECTRICAL DATA

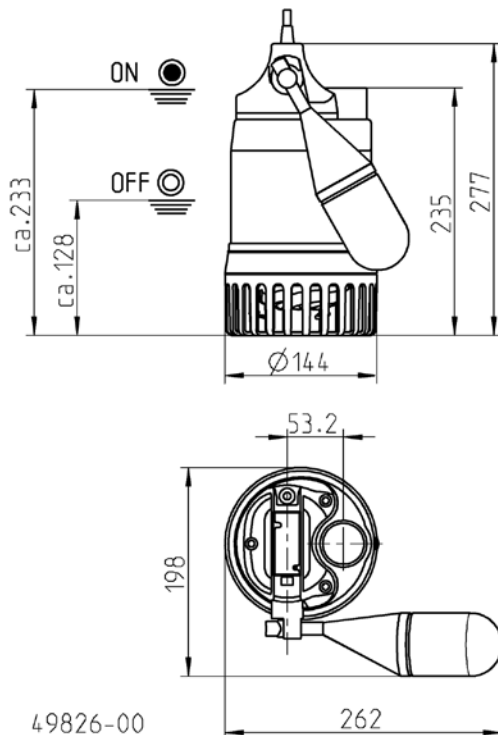
|                   |              |
|-------------------|--------------|
| Pump voltage      | 1/N/PE~230 V |
| Motor rating P1   | 0.34 kW      |
| Motor rating P2   | 0.23 kW      |
| Current           | 1.5 A        |
| Type of enclosure | IP 68        |

|                    |                |
|--------------------|----------------|
| Insulation class   | F              |
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

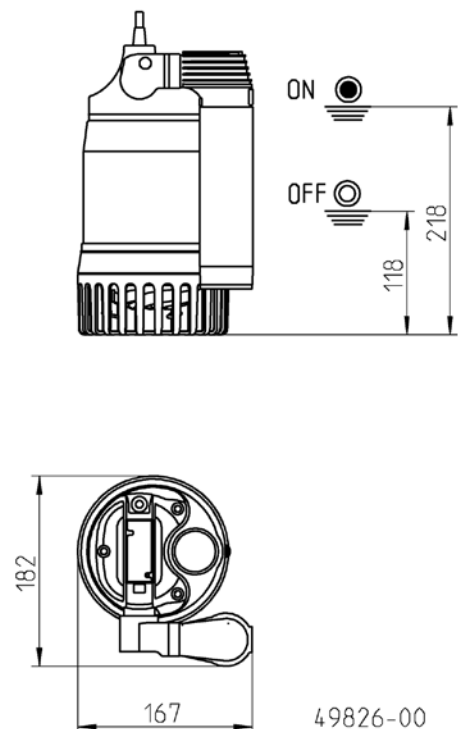
### MULTIDRAIN UV3

| Type                               | Code No. | Power line  | Wires | Weight |
|------------------------------------|----------|-------------|-------|--------|
| <b>With built-in level control</b> |          |             |       |        |
| Multidrain UV3 S, 10 m cable       | JP50041  | 10m H07RN-F | 3G1,0 | 5.5 kg |
| Multidrain UV3 SF, 10 m cable      | JP50042  | 10m H07RN-F | 3G1,0 | 5.5 kg |

Dimensions and switching points UV3 S (mm)



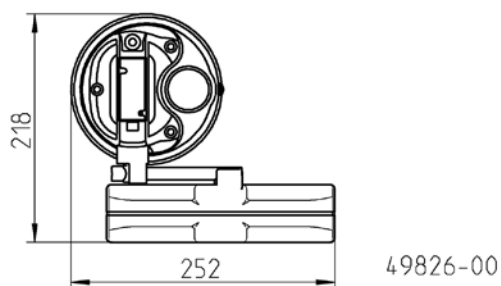
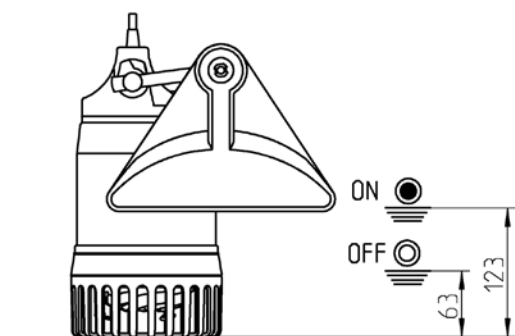
Dimensions and switching points special float UV3 SF (mm)



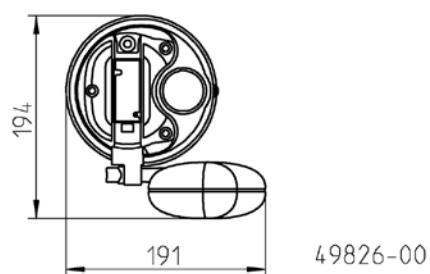
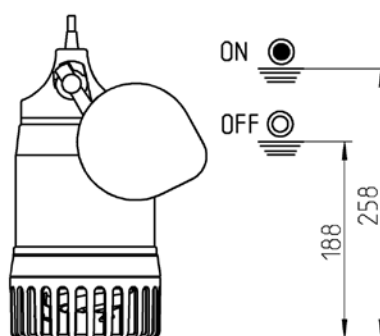
# MULTIDRAIN UV3

## SUBMERSIBLE DRAINAGE PUMP

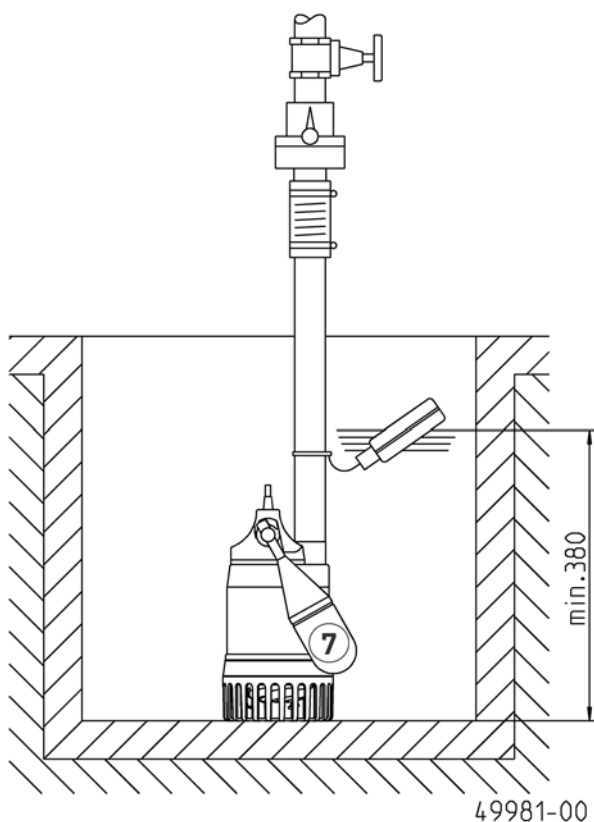
Dimensions and switching points special float UV3 S (mm)



Dimensions and switching points special float UV3 S (mm)



Example of single pump installation



Single unit: sump area 30x30 cm

# MULTIDRAIN UV3

SUBMERSIBLE DRAINAGE PUMP

MECHANICAL ACCESSORY

|                                                                                   |                        |                                             | Code No. |
|-----------------------------------------------------------------------------------|------------------------|---------------------------------------------|----------|
|  | <b>⑦ Special float</b> | for lower switching points                  | JP44795  |
|  |                        | for narrow chambers (mind. 30x30 od Ø30 cm) | JP40856  |

# VF150

## DRAINAGE PUMP

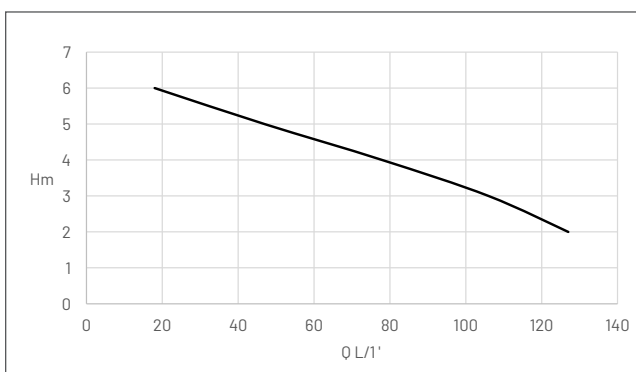
- Compact dimensions
- Continuous operation
- Intergrated float switch
- Low level pumping
- Moisture sealed cable inlet
- Fluid temperature 40 °C
- Max. particle size 15 mm
- Max. submergence 6 m



### DESCRIPTION

The VF150 submersible pump is designed for clear or grey water containing some soft solids upto 15 mm in diameter. Typical applications include dewatering pits and drainage of low-lying areas prone to flooding. Discharge connection 1¼" FI BSP and hose connector, included in supply.

### PERFORMANCE



| Type  | Delivery head H [m] | 2    | 3    | 4    | 5    | 6    |
|-------|---------------------|------|------|------|------|------|
| VF150 | Flow rate Q [m³/h]  | 7.62 | 6.36 | 4.68 | 2.82 | 1.08 |

We reserve the right to change specifications without notice.

This data is represented in the performance curve as a limit of application.

# VF150

## DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection 1¼" female connection with hose connector to suit ø 20 mm, 25 mm & 32 mm cable and plug, and integrated level float switch.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 15 mm                            |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Rotary shaft seal                |
| Oil chamber         | Yes                              |
| Seal on medium side | Dual mechanical seal             |
| Run dry protection  | Yes                              |

|                 |                                |
|-----------------|--------------------------------|
| Shaft           | Stainless steel                |
| Impeller        | Vortex impeller, polycarbonate |
| Motor housing   | Stainless steel                |
| Pump housing    | Cast iron                      |
| Submersible     | Yes                            |
| Pressure outlet | 1 1/4" FI                      |

### ELECTRICAL DATA

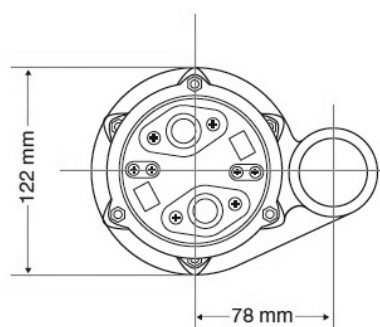
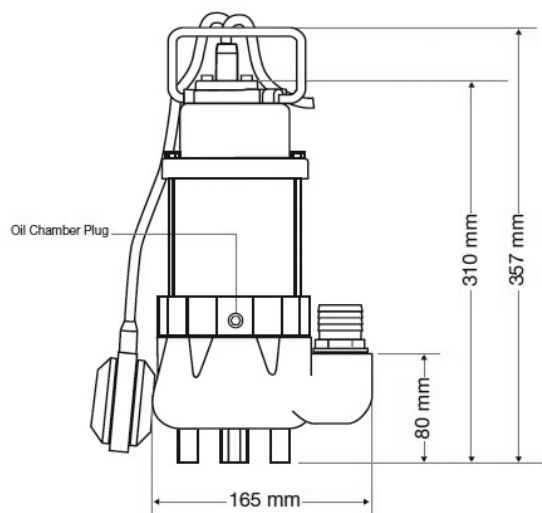
|                   |              |
|-------------------|--------------|
| Voltage           | 1/N/PE~230 V |
| Motor rating P1   | 0.35 kW      |
| Motor rating P2   | 0.18 kW      |
| Current           | 1.75 A       |
| Type of enclosure | IP 68        |

|                    |                |
|--------------------|----------------|
| Insulation class   | F              |
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

### VF150

| Type                                             | Code No. | Power line  | Wires | Weight |
|--------------------------------------------------|----------|-------------|-------|--------|
| With built-in level control<br>VF150, 10 m cable | VF150    | 10m H07RN-F | 3G1,0 | 9 kg   |

### Dimensions and switching points VF150 (mm)



Minimum pit size 450mm (L) x 450mm (W) x 520mm (H)

| Type               | MM  |
|--------------------|-----|
| START LEVEL (Auto) | 500 |
| STOP LEVEL (Auto)  | 75  |

# SIMER 5

## UTILITY PUMP

- Removes water down to a level of 2 mm
- Robust cast aluminium housing
- Self-venting starts at a water level of just 5 mm
- Cooling jacket for motor housing
- Replaceable cable inlet
- Simer Level Control for automatic pump operation
- Fluid temperature 60 °C



### DESCRIPTION

The Simer 5 is a robust utility pump for draining cellars, flat roofs, tennis courts or swimming pools. It can also be used to remove wastewater from building works. The Simer pump removes unwanted water quickly and efficiently, leaving a residual water level of just 2 mm, while starting to pump at a water level of just 5 mm.

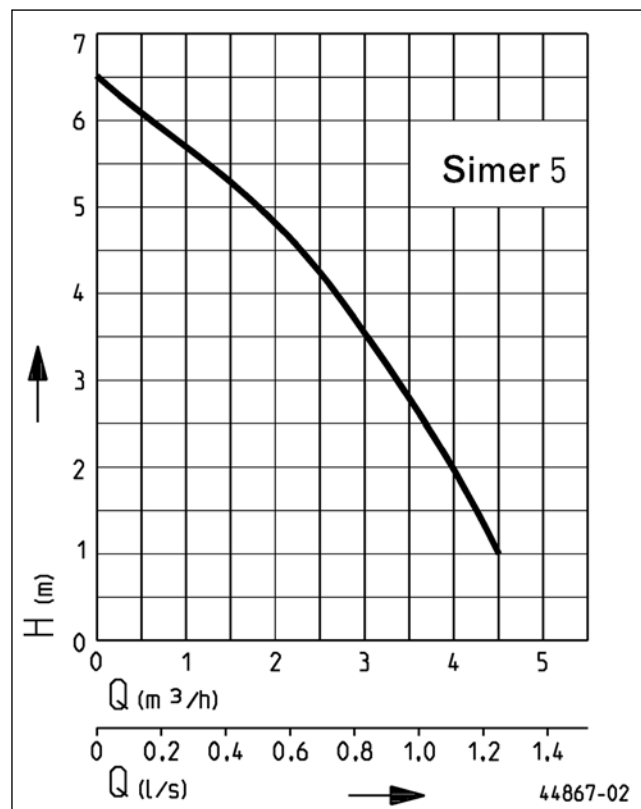
The removable strainer, with a mesh size of 2 mm, reliably protects the hydraulic system from coarse solids. The variable hose connector allows connections to be made quickly and easily.

Connecting the pump permanently to the building's drainage system or using it to protect against back-flow is not permitted. Please refer to our UK3 to U6K range of pumps for these types of application.

The Simer Level Control can be integrated into the cable inlet and switch the pump on automatically at approx. 7 mm water level. Puddles or floods can be removed immediately. The Simer Level Control operates either in automatic or manual mode.

The dry running of the pump (operation without media) over a period of more than 20 minutes must be avoided.

### PERFORMANCE



| Type    | Delivery head H [m] | 1   | 2   | 3   | 4   | 5   | 6   |
|---------|---------------------|-----|-----|-----|-----|-----|-----|
| Simer 5 | Flow rate Q [m³/h]  | 4.3 | 3.8 | 3.3 | 2.6 | 1.7 | 0.6 |

We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances

### ELECTRICAL ACCESSORY

|                                                                                              | Code No.             |                                          |                |
|----------------------------------------------------------------------------------------------|----------------------|------------------------------------------|----------------|
|  <b>a</b> | <b>Level control</b> | Simer Level Control (ON 7 mm / OFF 2 mm) | <b>JP46884</b> |

# SIMER 5

## UTILITY PUMP

### SCOPE OF SUPPLY

Pump, ready to connect, with 1/2"/3/4"/1" (13/19/25 mm) hose connector, and connecting cable with plug.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Bearing             | Ball bearings, grease-lubricated |
| Oil chamber         | Yes                              |
| Seal on medium side | Mechanical seal                  |
| Run dry protection  | Yes                              |

|                 |                                |
|-----------------|--------------------------------|
| Impeller        | Vortex impeller, zinc die-cast |
| Motor housing   | Aluminum                       |
| Submersible     | Yes                            |
| Pressure outlet | 1 1/4" FI                      |
| Weight          | 5.2 kg                         |

### ELECTRICAL DATA

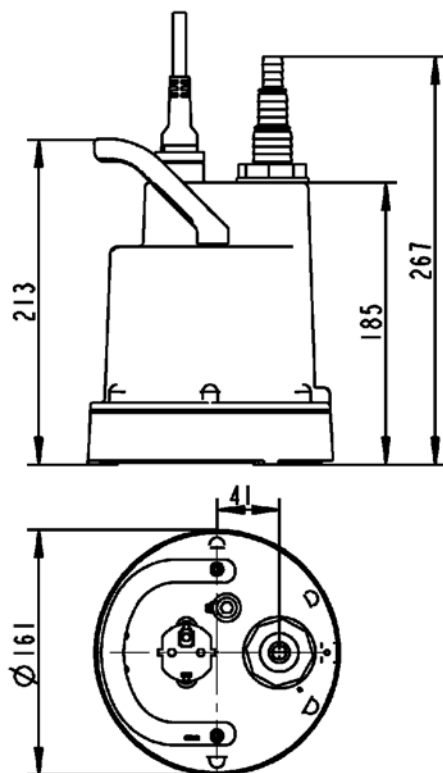
|                 |              |
|-----------------|--------------|
| Voltage         | 1/N/PE~230 V |
| Motor rating P1 | 190 W        |
| Current         | 0.8 A        |
| Power line      | 10m H07RN8-F |
| Wires           | 3G1,0        |

|                    |                |
|--------------------|----------------|
| Type of enclosure  | IP 68          |
| Insulation class   | B              |
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

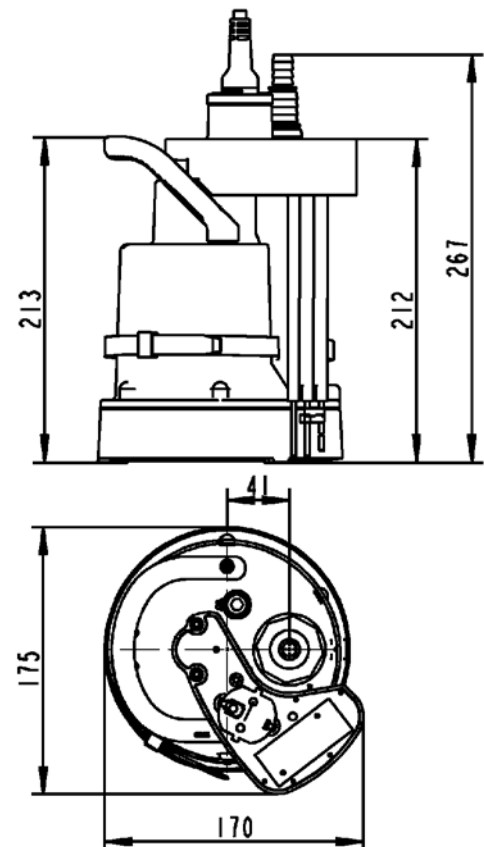
### SIMER

| Type                          | Code No.    |
|-------------------------------|-------------|
| Simer 5 without level control | OD6601AU-05 |
| Simer 5 with level control    | SIMER-A     |

### Dimensions



### Dimensions with Simer Level Control



# COMPAC 200 DRENA-LINE

## CLEAR WATER DRAINAGE PUMP

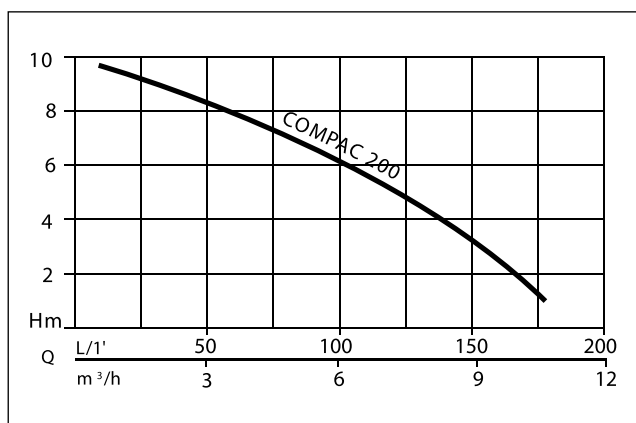
- Compact dimensions
- Continuous operation
- Intergrated float switch
- Manual-automatic switch
- Low level pumping
- Moisture sealed cable inlet
- Fluid temperature 40 °C
- Max. particle size 5 mm
- Max. submergence 7 m



### DESCRIPTION

The Compac 200 submersible pump for clear water is designed for domestic use such as the drainage of infiltrated water, the collection of water from wells, basins or tanks. Check valve and hose connector adaptable for connections 3/4" MI and 1/4" FI BSP and hoses ø 25 & 32 mm, included in supply.

### PERFORMANCE



| Type       | Delivery head H [m] | 3   | 4   | 5   | 6   | 7   | 8   | 9   |
|------------|---------------------|-----|-----|-----|-----|-----|-----|-----|
| COMPAC 200 | Flow rate Q [m³/h]  | 8.0 | 7.3 | 6.6 | 5.6 | 4.7 | 3.6 | 2.3 |

We reserve the right to change specifications without notice.

This data is represented in the performance curve as a limit of application.

# COMPAC 200

## CLEAR WATER DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection 1/4" male connection with 1/4" socket and non-return valve, adapter to suit 3/4" MI BSP or hoses ø 25 & 32 mm, cable and plug, and integrated level float switch.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 5 mm                             |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Rotary shaft seal                |
| Oil chamber         | Yes                              |
| Seal on medium side | 2-fold rotary shaft seal         |
| Run dry protection  | Yes                              |

|                 |                      |
|-----------------|----------------------|
| Shaft           | Stainless steel      |
| Impeller        | Vortex impeller, GFK |
| Motor housing   | Stainless steel      |
| Pump housing    | Polypropylene        |
| Submersible     | Yes                  |
| Pressure outlet | 1 1/4" MI            |

### ELECTRICAL DATA

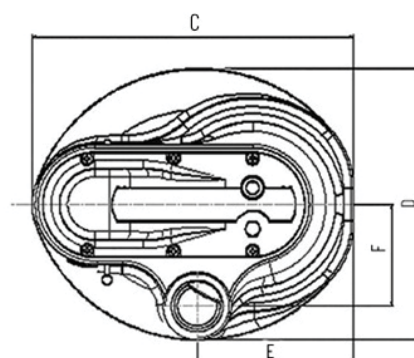
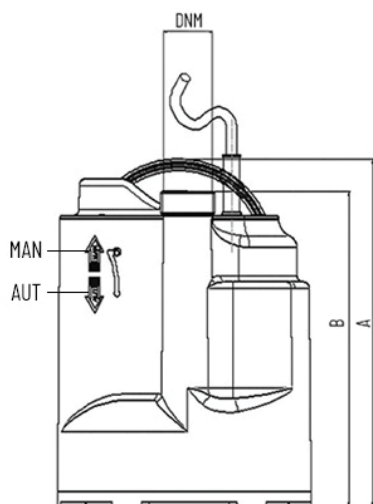
|                   |              |
|-------------------|--------------|
| Voltage           | 1/N/PE~230 V |
| Motor rating P1   | 0.65 kW      |
| Current           | 2.1 A        |
| Type of enclosure | IP 68        |
| Insulation class  | F            |

|                    |                |
|--------------------|----------------|
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

### COMPAC 200

| Type                                                  | Code No.           | Power line   | Wires | Weight |
|-------------------------------------------------------|--------------------|--------------|-------|--------|
| With built-in level control<br>COMPAC 200, 10 m cable | <b>N1080040-AU</b> | 10m H07RN8-F | 3G1,0 | 4.7 kg |

### Dimensions and switching points COMPAC 200 (mm)



| Type                        | A   | B   | C   | D   | E  | F  | DNM    |
|-----------------------------|-----|-----|-----|-----|----|----|--------|
| COMPAC 200                  | 273 | 148 | 200 | 170 | 97 | 63 | 1 1/4" |
| START LEVEL (Auto)          |     |     |     | 140 |    |    |        |
| STOP LEVEL (Auto)           |     |     |     | 30  |    |    |        |
| MIN.PRIMING LEVEL           |     |     |     | 15  |    |    |        |
| MIN. SUCTION LEVEL (Manual) |     |     |     | 2   |    |    |        |

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# LIGHT COMMERCIAL DRAINAGE PUMPS

## OVERVIEW

| Light commercial drainage pumps                   | Free passage | Type                       | Page    |
|---------------------------------------------------|--------------|----------------------------|---------|
| Submersible drainage pump                         | 10 mm        | <b>US 62-102</b>           | 34 - 36 |
|                                                   | 30 mm        | <b>US 73-103</b>           | 38 - 40 |
|                                                   | 50 mm        | <b>US 75-155</b>           | 42 - 44 |
| Submersible drainage pump for hot water operation | 30 mm        | <b>US 73-103 HE (90°C)</b> | 46 - 49 |
| Submersible drainage pump                         | 40 mm        | <b>PRIOX</b>               | 50 - 51 |

## ACCESSORIES

| Type                            | Code no.       | US<br>62<br>102<br>73<br>103<br>ES | US<br>73<br>103<br>HE/<br>HES | US<br>75<br>105<br>ES | US<br>155<br>D | US<br>155<br>ES |
|---------------------------------|----------------|------------------------------------|-------------------------------|-----------------------|----------------|-----------------|
| SPECIAL FLOAT LOW SWITCH POINTS | <b>JP44795</b> | •                                  | ○                             | •                     |                | •               |
| GUIDE RAIL SYSTEM GR 40         | <b>JP25592</b> | •                                  | •                             |                       |                |                 |

○ only 73 HES/103 HES

# US 62-US 102

## SUBMERSIBLE DRAINAGE PUMP

- 10 mm free passage
- Run dry protection
- Controllable oil chamber
- SiC mechanical seal
- Replaceable moisture sealed cable inlet
- Fluid temperature 40 °C



### DESCRIPTION

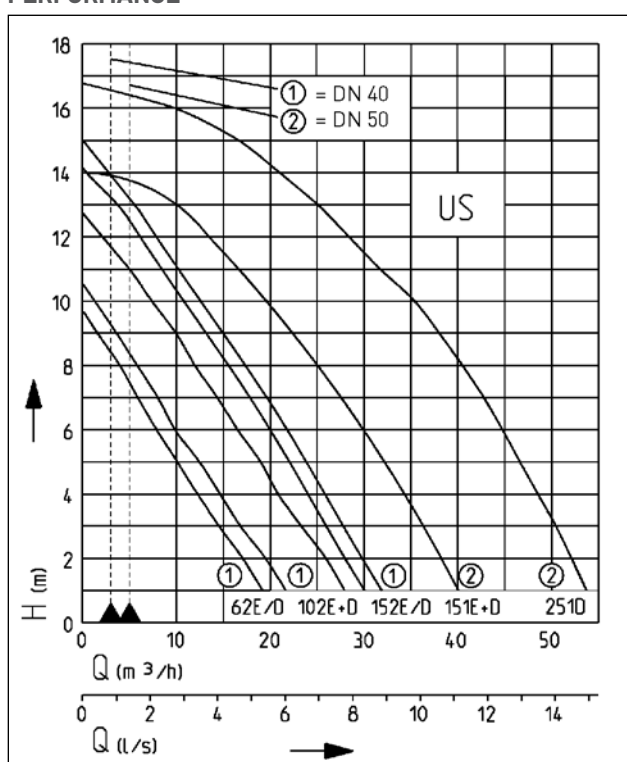
The centrifugal submersible drainage pumps US 62-102 can be used wherever sewage water with solids up to 10 mm particle size occurs, e.g. in collecting sumps for ground water, or in permanent draining systems for clean water, or handling solids in suspension. They are also ideal for pumping the sewage water from collecting sumps into which dishwashers or washing machines are discharging. For high temperature hot water in the industrial and commercial field we recommend the use of our US 73 and US 103 HES.

This range of pumps is suitable for stationary and portable use. For easy removal of the pumps from deep sumps we recommend the use of our guide rail systems which provide ease of maintenance and inspection.

Maximum cable length of the pumps is 10 m.

The sewage pumps are tested by the German Institute for Construction Engineering and correspond to the valid construction and test principles.

### PERFORMANCE



| Type      | Delivery head H [m] | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 16 |
|-----------|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| US 62 ES  | Flow rate Q [m³/h]  | 19 | 17 | 15 | 12 | 10 | 8  | 6  | 4  | 2  |    |    |    |    |    |    |
| US 102 ES |                     | 28 | 26 | 23 | 21 | 19 | 17 | 15 | 12 | 10 | 8  | 5  | 2  |    |    |    |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.  
This data is represented in the performance curve as a limit of application.

# US 62-US 102

## SUBMERSIBLE DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection with 10 m cable. US 62 and US 102 with 3 flat-pin ANZ plug.

### MECHANICAL DATA

|                    |                                  |
|--------------------|----------------------------------|
| Pump               | Vertical single-stage            |
| Free passage       | 10 mm                            |
| Bearing            | Ball bearings, grease-lubricated |
| Seal on motor side | Duplex rotary shaft seals        |
| Oil chamber        | Yes                              |

|                     |                     |
|---------------------|---------------------|
| Seal on medium side | SiC mechanical seal |
| Run dry protection  | Yes                 |
| Submersible         | Yes                 |
| Pressure outlet     | 1 1/2" FI           |

### ELECTRICAL DATA

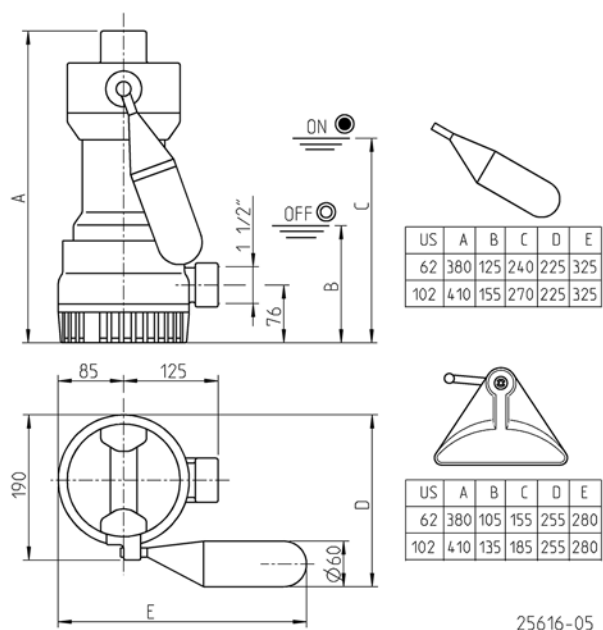
|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

|                    |     |
|--------------------|-----|
| Insulation class   | B   |
| Winding thermostat | Yes |

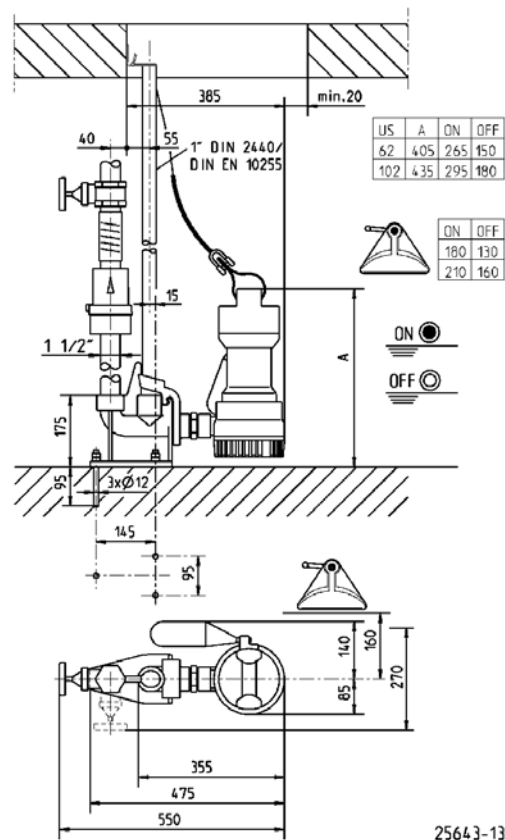
### US 62-US 102

| Type                               | Code No. | Voltage      | Motor rating<br>P1 | Motor rating<br>P2 | Current | Wires | Motor protection | Plug | Weight  |
|------------------------------------|----------|--------------|--------------------|--------------------|---------|-------|------------------|------|---------|
| <b>With built-in level control</b> |          |              |                    |                    |         |       |                  |      |         |
| US 62 ES                           | JP44234  | 1/N/PE~230 V | 0.83 kW            | 0.50 kW            | 3.9 A   | 3G1,0 | Integrated       | ANZ  | 12.7 kg |
| US 102 ES                          | JP44176  | 1/N/PE~230 V | 1.37 kW            | 0.98 kW            | 6.0 A   | 3G1,0 | Integrated       | ANZ  | 14.5 kg |

### Dimensions and switching points US 62, US 102 (mm)



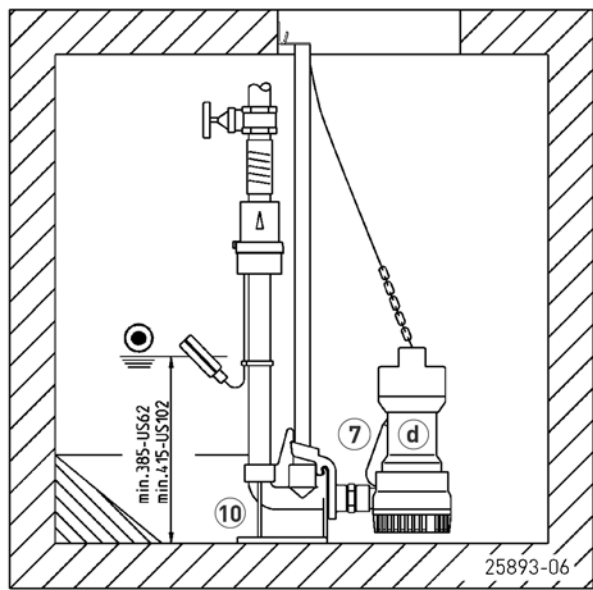
### Dimensions and switching points GR 40 (mm)



# US 62-US 102

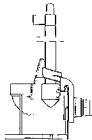
## SUBMERSIBLE DRAINAGE PUMP

### Example of single pump installation with GR



Single unit 1½" with GR 40: sump area min. 40x60 cm  
Single unit 1½" without GR: sump area min. 40x40 cm

### MECHANICAL ACCESSORY

|                                                                                     |                             |                            | Code No. |
|-------------------------------------------------------------------------------------|-----------------------------|----------------------------|----------|
|  | <b>7</b> Special float      | for lower switching points | JP44795  |
|  | <b>10</b> Guide rail system | GR 40                      | JP25592  |

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# US 73-US 103

## SUBMERSIBLE DRAINAGE PUMP

- 30 mm free passage
- Run dry protection
- Controllable oil chamber
- SiC mechanical seal
- Replaceable moisture sealed cable inlet
- Fluid temperature 40 °C



### DESCRIPTION

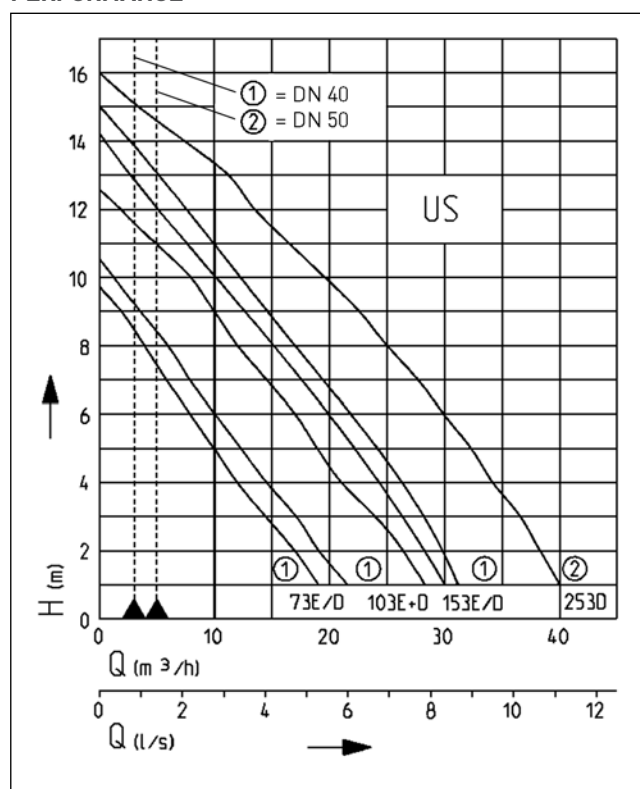
The centrifugal submersible drainage pumps US 73-103 are suitable for dealing with contaminated water and capable of handling solids up to 30 mm particle size without stones. Fibrous waste water, as found in laundries or automatic launderettes and waste water from domestic dishwashers and washing machines can be handled by this pump range. For hot water in the industrial and commercial market we recommend the US 73 and US 103 HE/HES.

This range of pumps is suitable for stationary use. For easy removal of the pumps from deep sumps we recommend the use of our guide rail systems which provide ease of maintenance and inspection.

The cable length is 10 m.

The sewage pumps are tested by the German Institute for Construction Engineering and correspond to the valid construction and test principles.

### PERFORMANCE



| Type      | Delivery head H [m] | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 |
|-----------|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| US 73 ES  | Flow rate Q [m³/h]  | 19 | 17 | 15 | 12 | 10 | 8  | 6  | 4  | 2  |    |    |    |    |    |
| US 103 ES |                     | 28 | 26 | 23 | 21 | 19 | 17 | 15 | 12 | 10 | 8  | 5  | 2  |    |    |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.  
This data is represented in the performance curve as a limit of application.

# US 73-US 103

## SUBMERSIBLE DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection with 10 m cable. US 73 and US 103 with 3 flat-pin ANZ plug.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 30 mm                            |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Duplex rotary shaft seals        |
| Oil chamber         | Yes                              |
| Seal on medium side | SiC mechanical seal              |
| Run dry protection  | Yes                              |

|                 |                      |
|-----------------|----------------------|
| Shaft           | Stainless steel      |
| Impeller        | Vortex impeller, GFK |
| Motor housing   | Stainless steel      |
| Pump housing    | Grey cast iron       |
| Submersible     | Yes                  |
| Pressure outlet | 1 1/2" FI            |

### ELECTRICAL DATA

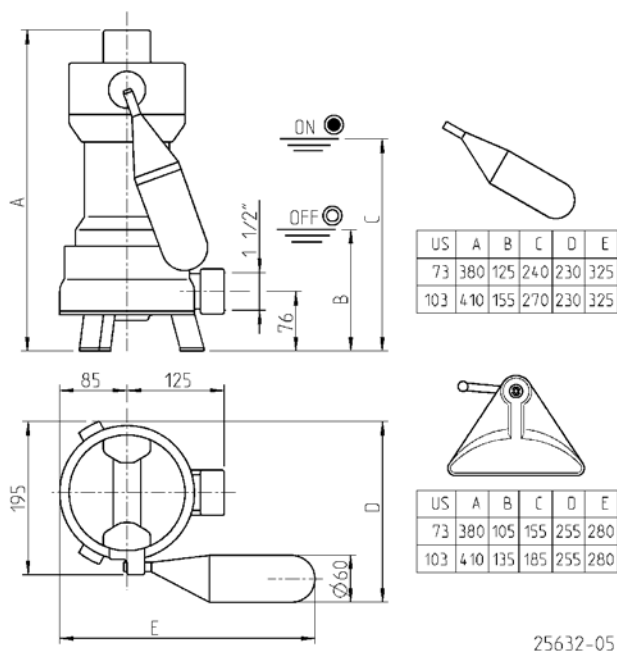
|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

|                    |     |
|--------------------|-----|
| Insulation class   | B   |
| Winding thermostat | Yes |

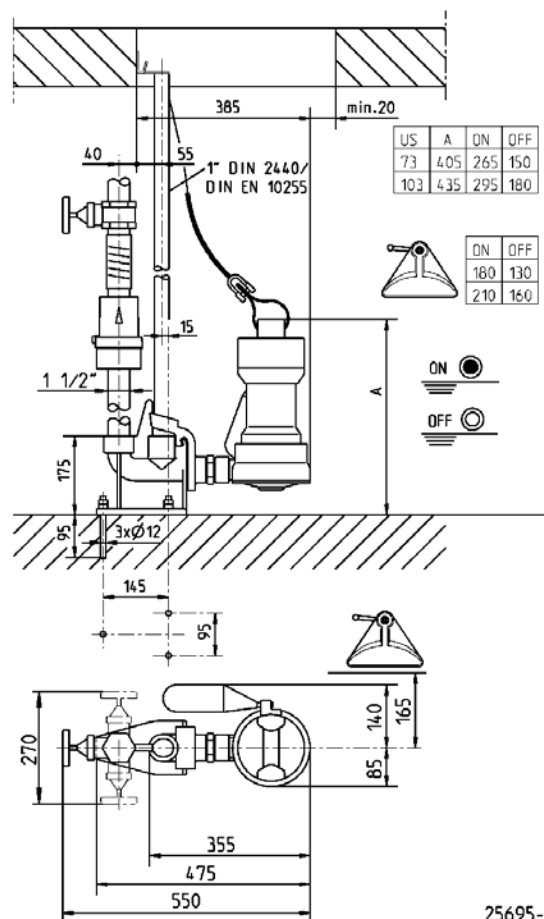
### US 73-US 103

| Type                               | Code No.       | Voltage      | Motor rating<br>P1 | P2      | Current | Wires | Motor protection | Plug | Free passage | Weight  |
|------------------------------------|----------------|--------------|--------------------|---------|---------|-------|------------------|------|--------------|---------|
| <b>With built-in level control</b> |                |              |                    |         |         |       |                  |      |              |         |
| US 73 ES                           | <b>JP47370</b> | 1/N/PE~230 V | 0.83 kW            | 0.50 kW | 3.9 A   | 3G1,0 | Integrated       | ANZ  | 30 mm        | 12.5 kg |
| US 103 ES                          | <b>JP44237</b> | 1/N/PE~230 V | 1.37 kW            | 0.98 kW | 6.0 A   | 3G1,0 | Integrated       | ANZ  | 30 mm        | 14.0 kg |

### Dimensions and switching points US 73, US 103, US 153 (mm)



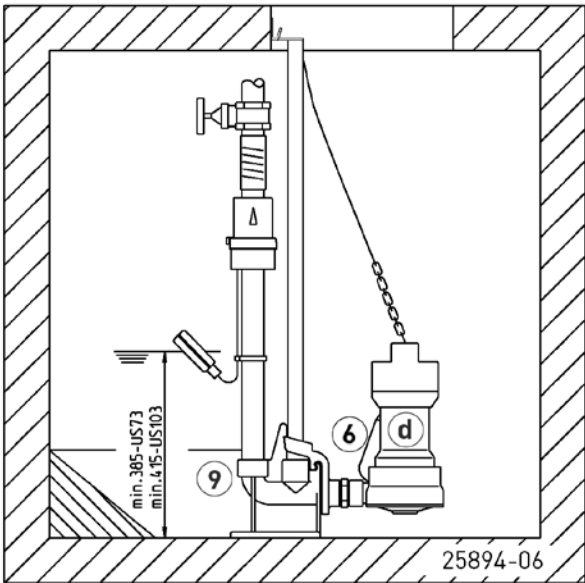
### Dimensions and switching points with GR 40 (mm)



# US 73-US 103

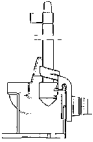
## SUBMERSIBLE DRAINAGE PUMP

### Example of single pump station with GR



Single unit 1½" with GR 40: sump area min. 40x60 cm  
Single unit 1½" without GR: sump area min. 40x40 cm

### MECHANICAL ACCESSORY

|                                                                                     |                            |                            | Code No.       |
|-------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------|
|  | <b>⑥ Special float</b>     | for lower switching points | <b>JP44795</b> |
|  | <b>⑨ Guide rail system</b> | GR 40                      | <b>JP25592</b> |

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# US 75-US 155

## SUBMERSIBLE DRAINAGE PUMP

- 50 mm free passage
- Run dry protection
- Controllable oil chamber
- SiC mechanical seal
- Replaceable moisture sealed cable inlet
- Fluid temperature 40 °C



### DESCRIPTION

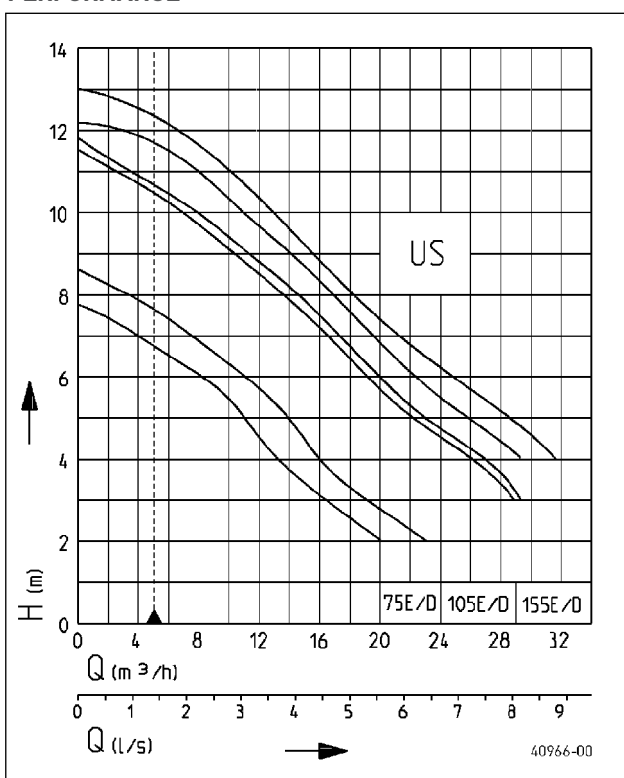
The centrifugal submersible drainage pumps US 75-155 are suitable for dealing with notably contaminated water and capable of handling solids up to 50 mm particle size. With their free passage of 50 mm, these pumps are able to pump solids and fibers quickly, reliably and above all without blockage.

For easy removal of the pumps from deep sumps we recommend the use of our guide rail systems which provide ease of maintenance and inspection. A controllable oil chamber and wear-resistant mechanical seal ensure a long service life. The integrated winding thermostats protect the motor from overload.

Maximum cable length is 10 m.

The sewage pumps are tested by the German Institute for Construction Engineering and correspond to the valid construction and test principles.

### PERFORMANCE



| Type      | Delivery head $H$ [m]     | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|-----------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|
| US 75 ES  | Flow rate $Q$ [ $m^3/h$ ] | 20 | 16 | 13 | 10 | 7  | 4  |    |    |    |    |    |
| US 105 ES |                           |    | 28 | 25 | 22 | 19 | 16 | 13 | 10 | 7  | 3  |    |
| US 155 ES |                           |    |    | 29 | 26 | 22 | 20 | 16 | 14 | 11 | 8  | 2  |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.  
This data is represented in the performance curve as a limit of application.

# US 75-US 155

## SUBMERSIBLE DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection with 10 m cable. US 75, US 103 and 155 with 3 flat-pin ANZ plug.

### MECHANICAL DATA

|                    |                                  |
|--------------------|----------------------------------|
| Pump               | Vertical single-stage            |
| Free passage       | 50 mm                            |
| Bearing            | Ball bearings, grease-lubricated |
| Seal on motor side | Duplex rotary shaft seals        |
| Oil chamber        | Yes                              |

|                     |                      |
|---------------------|----------------------|
| Seal on medium side | SiC mechanical seal  |
| Run dry protection  | Yes                  |
| Impeller            | Vortex impeller, GFK |
| Submersible         | Yes                  |
| Pressure outlet     | 2" FI                |

### ELECTRICAL DATA

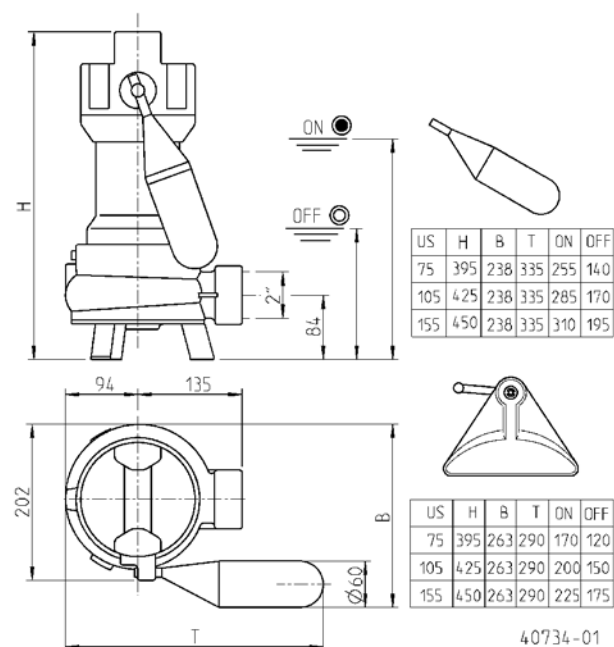
|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

|                    |     |
|--------------------|-----|
| Insulation class   | B   |
| Winding thermostat | Yes |

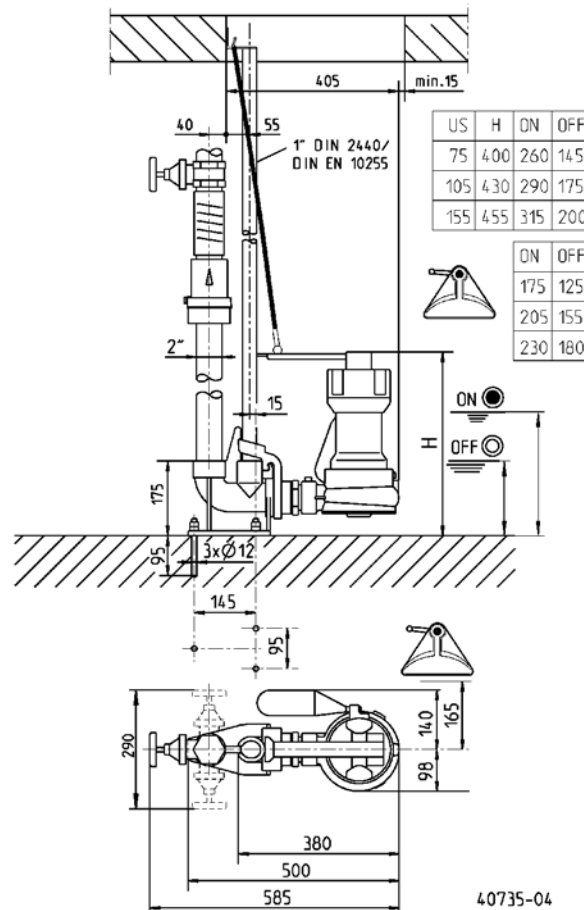
### US 75-US 155

| Type                               | Code No.       | Voltage      | Motor rating |         | Current | Wires | Motor protection | Plug | Weight  |
|------------------------------------|----------------|--------------|--------------|---------|---------|-------|------------------|------|---------|
|                                    |                |              | P1           | P2      |         |       |                  |      |         |
| <b>With built-in level control</b> |                |              |              |         |         |       |                  |      |         |
| US 75 ES                           | <b>JP44809</b> | 1/N/PE~230 V | 0.83 kW      | 0.50 kW | 3.9 A   | 3G1,0 | Integrated       | ANZ  | 13.0 kg |
| US 105 ES                          | <b>JP44177</b> | 1/N/PE~230 V | 1.37 kW      | 0.98 kW | 6.0 A   | 3G1,0 | Integrated       | ANZ  | 14.6 kg |
| US 155 ES                          | <b>JP09389</b> | 1/N/PE~230 V | 1.60 kW      | 1.21 kW | 7.5 A   | 3G1,0 | Integrated       | ANZ  | 16.3 kg |

### Dimensions and switching points US 75 up to US 155 (mm)



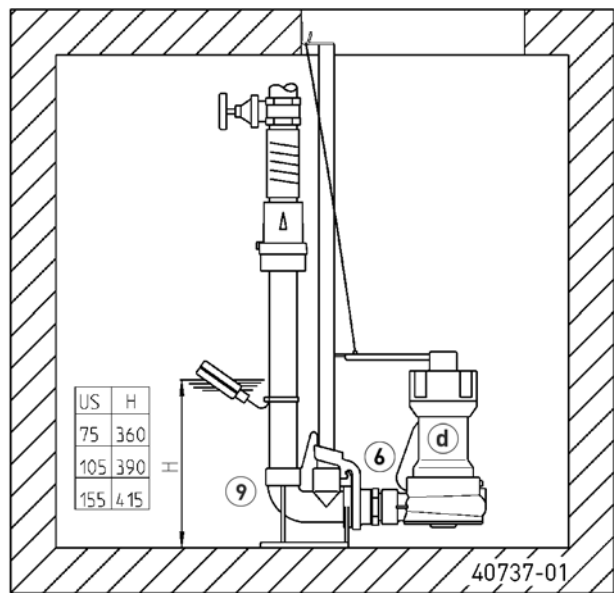
### Dimensions and switching points with GR 50 S (mm)



# US 75-US 155

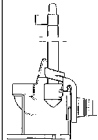
## SUBMERSIBLE DRAINAGE PUMP

### Example of single installation with GR



Single unit 2" with GR 50 S: sump area min. 40x65 cm  
 Single unit 2" without GR: sump area min. 40x50 cm

### MECHANICAL ACCESSORY

|                                                                                     |                            |                            | Code No.       |
|-------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------|
|  | <b>⑥ Special float</b>     | for lower switching points | <b>JP44795</b> |
|  | <b>⑨ Guide rail system</b> | GR 50                      | <b>JP25593</b> |

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# US 73 HE-US 103 HE

## SUBMERSIBLE DRAINAGE PUMP FOR HOT WATER OPERATION



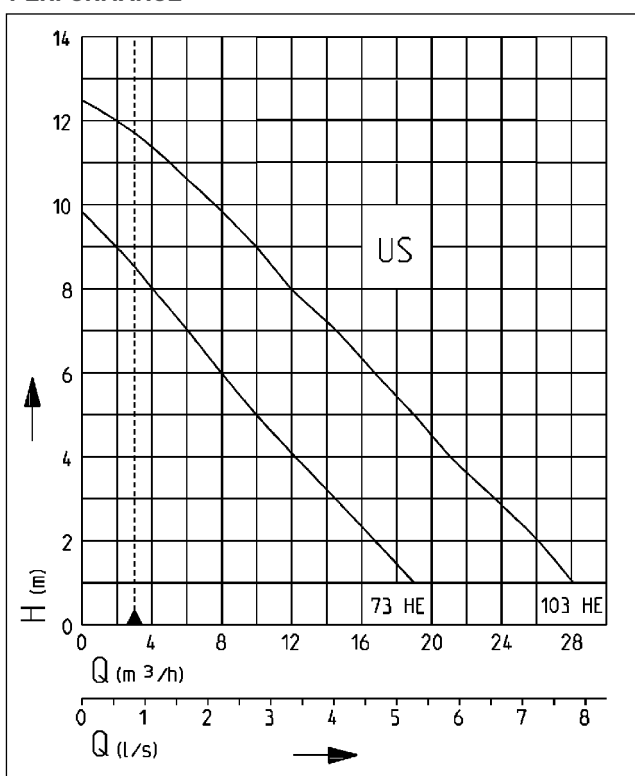
- Safe to run dry
- 30 mm free passage
- Hot water up to 90 °C
- Controllable oil chamber
- SiC mechanical seal
- Replaceable moisture sealed cable inlet

### DESCRIPTION

The heavy duty centrifugal submersible drainage pumps US 73 and 103 HES are suitable for dealing with contaminated water and capable of handling solids up to 30 mm particle size without stones. These pumps can be used wherever wastewater up to 90°C is involved, such as in laundries or automatic laundrettes, or in industrial dishwashers and washing machines or for the emergency overflow of heating systems.

This range of pumps is suitable for stationary use. For easy removal of the pumps from deep sumps we recommend the use of our guide rail systems which provide ease of maintenance and inspection. A controllable oil chamber and wear-resistant mechanical seal ensure a long service life. The integrated winding thermostats protect the motor from overload.

### PERFORMANCE



| Type       | Delivery head H [m] | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 |
|------------|---------------------|----|----|----|----|----|----|----|----|----|----|----|
| US 73 HES  | Flow rate Q [m³/h]  | 19 | 17 | 15 | 12 | 10 | 8  | 6  | 4  | 2  |    |    |
| US 103 HES |                     | 28 | 26 | 23 | 21 | 19 | 17 | 15 | 12 | 10 | 8  | 2  |

We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances

This data is represented in the performance curve as a limit of application.

# US 73 HE-US 103 HE

## SUBMERSIBLE DRAINAGE PUMP FOR HOT WATER OPERATION

### SCOPE OF SUPPLY

Pump ready for connection with 10 m cable. US 73 HE and US 103 HE with 3 flat-pin ANZ plug.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 30 mm                            |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Duplex rotary shaft seals        |
| Oil chamber         | Yes                              |
| Seal on medium side | SiC mechanical seal              |
| Run dry protection  | Yes                              |

|                 |                      |
|-----------------|----------------------|
| Shaft           | Stainless steel      |
| Impeller        | Vortex impeller, GFK |
| Motor housing   | Stainless steel      |
| Pump housing    | Grey cast iron       |
| Submersible     | Yes                  |
| Pressure outlet | 1 1/2" FI            |

### ELECTRICAL DATA

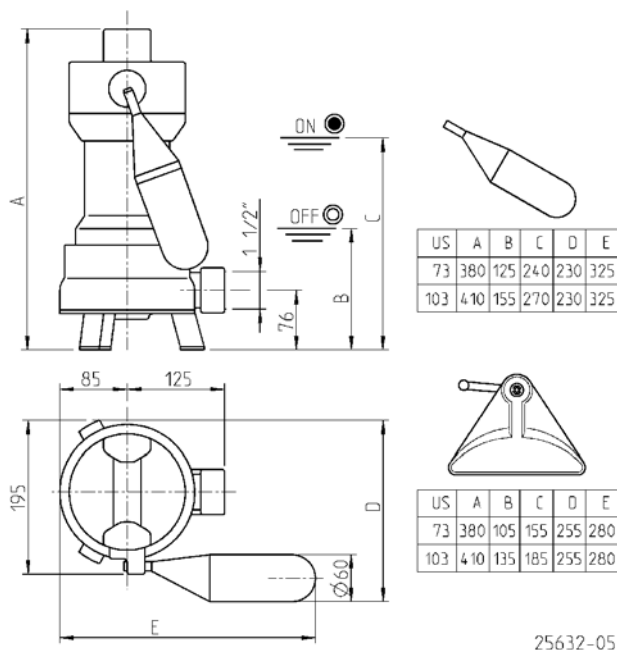
|                   |              |
|-------------------|--------------|
| Voltage           | 1/N/PE~230 V |
| Power line        | 10m H07RN-F  |
| Wires             | 3G1,0        |
| Type of enclosure | IP 68        |

|                    |                |
|--------------------|----------------|
| Insulation class   | F              |
| Winding thermostat | Yes            |
| Motor protection   | Integrated     |
| Plug               | 3 flat-pin ANZ |

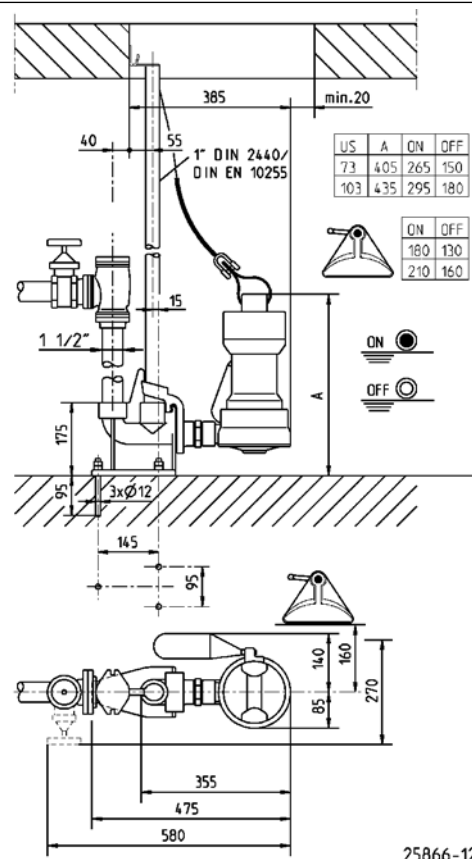
### US 73 HE-US 103 HE

| Type                        | Code No. | Motor rating |         | Current | Weight  |
|-----------------------------|----------|--------------|---------|---------|---------|
|                             |          | P1           | P2      |         |         |
| With built-in level control |          |              |         |         |         |
| US 73 HES                   | JP44086  | 0.83 kW      | 0.50 kW | 3.9 A   | 12.5 kg |
| US 103 HES                  | JP44326  | 1.37 kW      | 0.98 kW | 6.0 A   | 14.1 kg |

### Dimensions/switching points US 73 + 103 HES (mm)



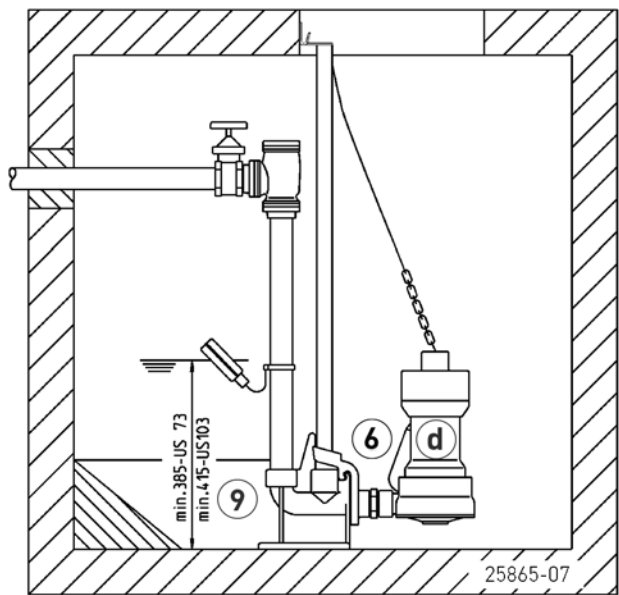
### Dimensions/switching points US 73+103 HES with GR 40 (mm)



# US 73 HE-US 103 HE

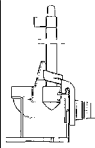
SUBMERSIBLE DRAINAGE PUMP FOR HOT WATER OPERATION

## Example of single pump installation with GR



Single unit US-H with GR 40: sump area min. 40x65 cm  
Single unit US-H without GR: sump area min. 40x40 cm

## MECHANICAL ACCESSORY

|                                                                                     |                     |                            | Code No. |
|-------------------------------------------------------------------------------------|---------------------|----------------------------|----------|
|  | ⑥ Special float     | for lower switching points | JP44795  |
|  | ⑨ Guide rail system | GR 40                      | JP25592  |

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# PRIOX DRENA-LINE

## SUBMERSIBLE DRAINAGE PUMP

\*MORE MODELS IN SEWAGE PUMPS SECTION

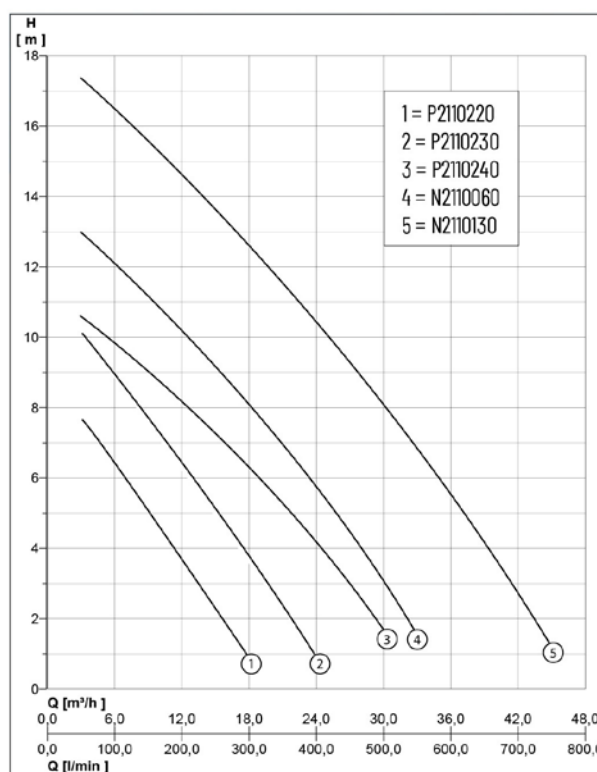
- AISI 304
- 40mm free passage
- Vortex impeller
- Automatic float
- Hmax to 10 m
- Qmax to 400 LPM
- 5 models available\*
- Fluid temperature 40 °C
- 7 m max. submersion



### DESCRIPTION

Priox series pumps are made completely from high grade stainless steel AISI 304. They operate completely immersed in the liquid to be pumped which provides for the cooling of the motor from the outside. Made with a retreated impeller on the principle of vortex operation. Single phase versions are equipped with a float switch for automatic operation and a built-in thermal overload for effective protection against overload. Designed for pumping wastewater containing particles up to 40mm in diameter.

### PERFORMANCE



| Type         | Delivery head H [m] | 2    | 3    | 4    | 5    | 6    | 7    | 8   | 9   | 10  |
|--------------|---------------------|------|------|------|------|------|------|-----|-----|-----|
| 300/9 M AUT  | Flow rate Q [m³/h]  | 15.6 | 13.5 | 11.6 | 9.0  | 6.8  | 4.7  | 2.7 |     |     |
| 420/11 M AUT |                     | 21.5 | 19.6 | 17.8 | 15.5 | 13.0 | 10.5 | 8.1 | 5.7 | 3.5 |

We reserve the right to change specifications without notice.

This data is represented in the performance curve as a limit of application.

# PRIOX

## SUBMERSIBLE DRAINAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection with 10 m cable single phase with 3 flat-pin ANZ plug and automatic level float switch.

### MECHANICAL DATA

|                 |                                                |
|-----------------|------------------------------------------------|
| Pump            | Vertical single-stage                          |
| Free passage    | 40 / 50 mm                                     |
| Bearing         | Self-lubricating ball bearings                 |
| Oil chamber     | Yes                                            |
| Mechanical seal | Silicon carbide<br>(lubricated in oil chamber) |
| Shaft           | Stainless steel (AISI 304)                     |

|                  |                            |
|------------------|----------------------------|
| Impeller         | Stainless steel (AISI 304) |
| Motor housing    | Stainless steel (AISI 304) |
| Pump housing     | Stainless steel (AISI 304) |
| Submersible      | Yes                        |
| Pressure outlet  | 2" MI                      |
| Temperature max. | 40°C                       |
| Max. submergence | 7 m                        |

### ELECTRICAL DATA

|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

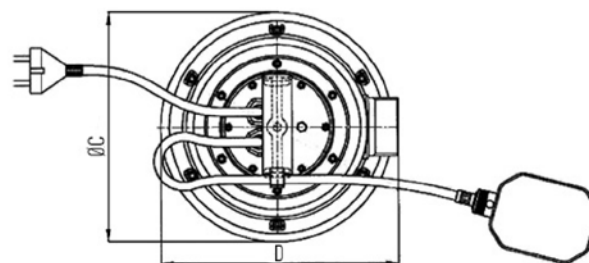
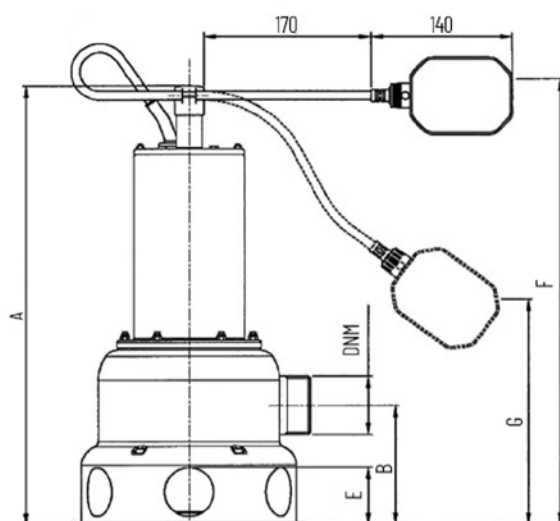
|                  |      |
|------------------|------|
| Insulation class | F    |
| Rotation speed   | 2850 |

### PRIOX

| Type                               | Code No. | Voltage      | Motor rating (kW) |     | Current (A) | Free passage (mm) | Weight  |
|------------------------------------|----------|--------------|-------------------|-----|-------------|-------------------|---------|
|                                    |          |              | P1                | P2  |             |                   |         |
| <b>With built-in level control</b> |          |              |                   |     |             |                   |         |
| PRIOX 300/9 M AUT                  | P2110220 | 1/N/PE~230 V | 0.9               | 0.6 | 4.1         | 40                | 9.6 kg  |
| PRIOX 420/11 M AUT                 | P2110230 | 1/N/PE~230 V | 1.3               | 0.9 | 6           | 40                | 11.2 kg |

| Type                               | Code No. | Single pump controller | Dual pump controller | Float switch 10 m | Float switch 15 m | Float switch 20 m | Float switch 30 m | Float switch 40 m |
|------------------------------------|----------|------------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>With built-in level control</b> |          |                        |                      |                   |                   |                   |                   |                   |
| PRIOX 300/9 M AUT                  | P2110220 | PPC-15002-B            | PPC-30010-B          |                   |                   |                   |                   |                   |
| PRIOX 420/11 M AUT                 | P2110230 | PPC-15002-B            | PPC-30010-B          | FSW-10M           | FSW-15M           | FSW-20M           | FSW-30M           | FSW-40M           |

### Dimensions and switching points PRIOX (mm)



| Type               | A   | B     | C   | D   | E  | F   | G   | DNM |
|--------------------|-----|-------|-----|-----|----|-----|-----|-----|
| PRIOX 300/9 M AUT  | 420 | 122,5 | 235 | 249 | 63 | 550 | 590 | 2"  |
| PRIOX 420/11 M AUT | 450 | 122,5 | 235 | 249 | 63 | 550 | 290 | 2"  |

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# DRAINAGE LIFTING STATIONS AND TANKS

## OVERVIEW

| Above-floor Tanks                                                             | Type           | Page    |
|-------------------------------------------------------------------------------|----------------|---------|
| For disposal of domestic wastewater<br>(pump not included in scope of supply) | <b>HEBEFIX</b> | 54 - 56 |

## ACCESSORIES

| Type                            | Code no.       | Hebefix |
|---------------------------------|----------------|---------|
| SPECIAL FLOAT LOW SWITCH POINTS | <b>JP44795</b> | •       |

# HEBEFIX

## ABOVE-FLOOR TANK

- Disposal of dirty water from hand basin, shower, bathtub, washing machine
- Condensate from condensing boilers
- Backwash water from softeners
- Easy opening of the cover without dismantling a siphon or an inlet pipe
- Swing-type check valve and activated carbon filter are in scope of supply
- Wall or floor installation



### DESCRIPTION

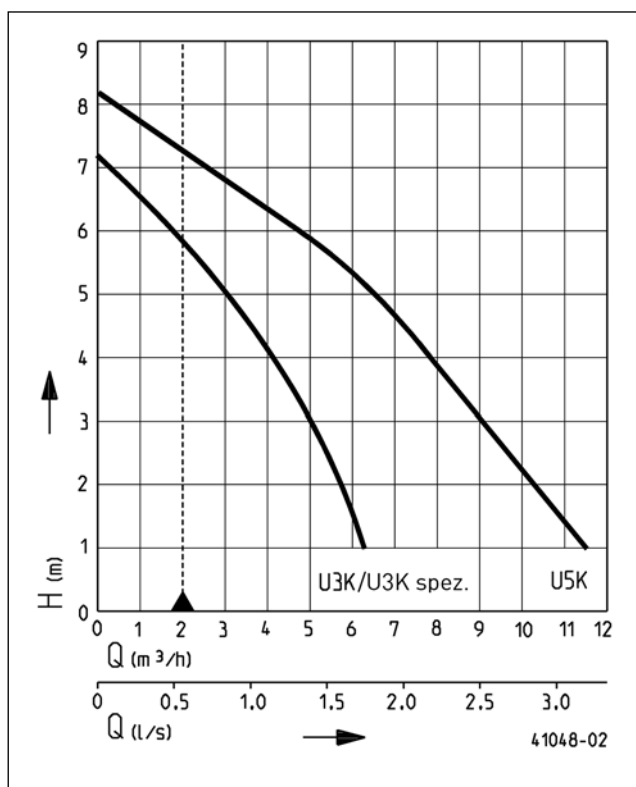
The Hebefix above-floor tank is the ideal solution where there is no wastewater pipe available to dispose of dirty water from a bathroom (excl. toilet waste), laundry or kitchen. Combined with a U3KS, U3KS special or a U5KS greywater can be collected and disposed of easily and efficiently.

The drainage pump intended for the Hebefix is connected to the prepared pipe connection and automatically pumps the incoming grey water to the next disposal pipe. The tank has four inlet sleeves. This means that a drain can be created at any desired location, even below the backwater level, without costly works. By means of the lower additional inlets on both sides (H=100 mm) and a special float for lower switching heights (U3 only), a backflow-proof shower can be connected.

The supplied activated carbon filter reduces odours.

See applications chart page 111.

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances

This data is represented in the performance curve as a limit of application.

# HEBEFIX

## ABOVE-FLOOR TANK

### SCOPE OF SUPPLY

Plastic tank (ABS) without pump with integrated connection hose, clamps, swing-type check valve R32, activated carbon filter, rubber feet and wall attachment parts.

### MECHANICAL DATA

|               |      |        |        |
|---------------|------|--------|--------|
| Tank capacity | 26 l | Weight | 3.2 kg |
|---------------|------|--------|--------|

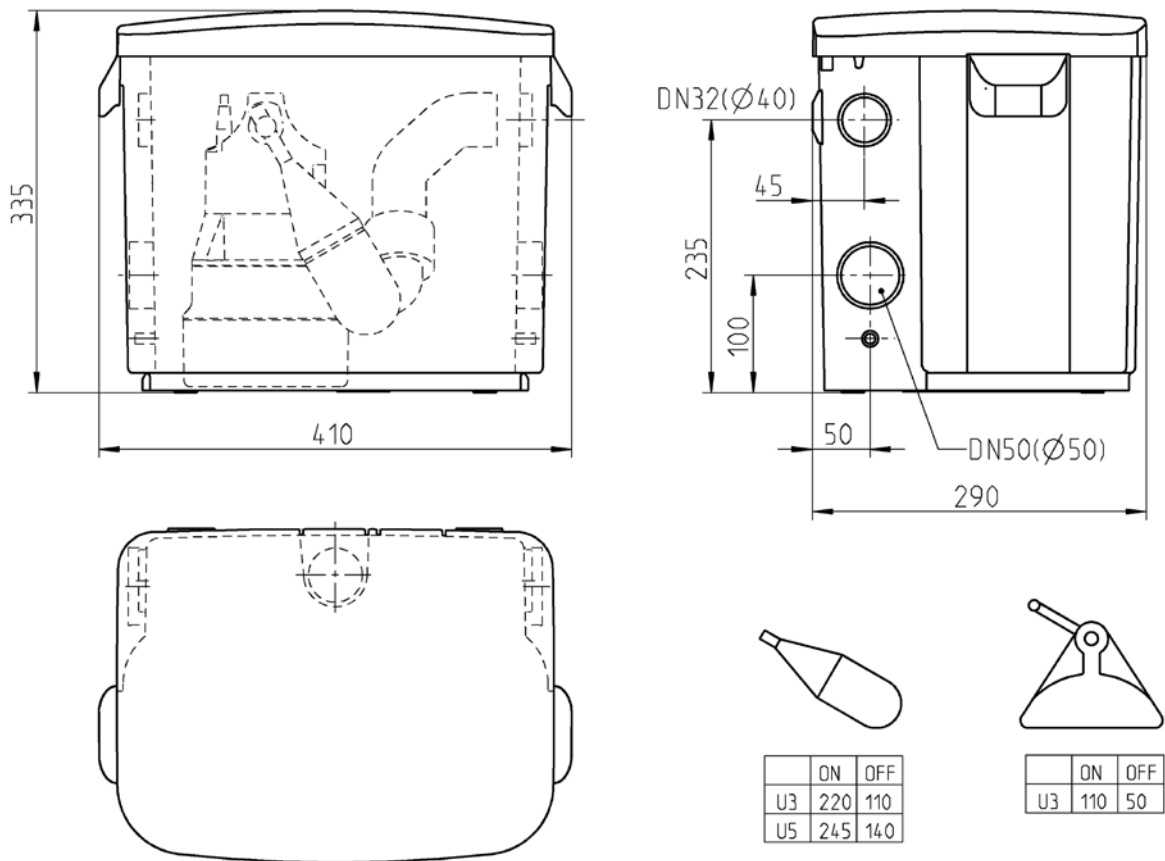
### HEBEFIX

| Type    | Code No. |
|---------|----------|
| Hebefix | JP50210  |

### POSSIBLE PUMPS

|              |
|--------------|
| Hebefix      |
| U3KS         |
| U3KS special |
| U5KS         |

### Dimensions (mm)

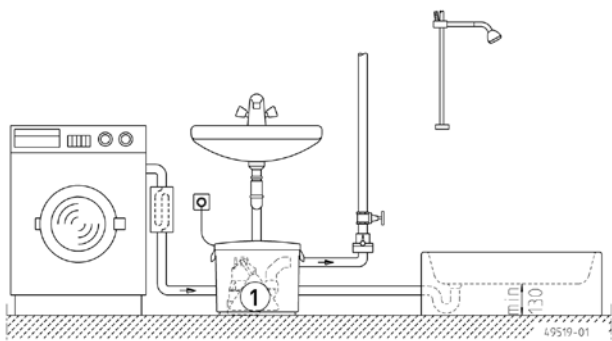


49518-01

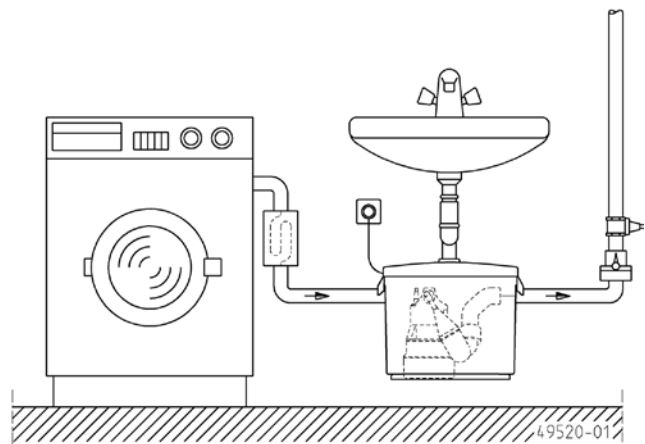
# HEBEFIX

ABOVE-FLOOR TANK

Example of installation Hebefix (floor mounted)



Hebefix (wall mounted)



MECHANICAL ACCESSORY

|                                                                                    |                 |                            | Code No. |
|------------------------------------------------------------------------------------|-----------------|----------------------------|----------|
|  | ① Special float | for lower switching points | JP44795  |

# SEWAGE LIFTING STATION

## OVERVIEW

| Sewage lifting station                                                                          | Type              | Page    |
|-------------------------------------------------------------------------------------------------|-------------------|---------|
| Small sewage lifting systems. For use in the private domain, where the number of users is small | <b>WCFIX PLUS</b> | 58 - 60 |

# WCFIX PLUS

## SEWAGE LIFTING STATION FOR WASTEWATER CONTAINING FAECES



- For pre-wall installation or fitting directly behind a floor-standing WC
- Runtime monitoring with acoustic alarm and potential-free alarm contact
- Powerful motor
- 19 mm free passage
- Vent valve and active carbon filter
- Integrated swing-type check valve

### DESCRIPTION

The WCFix plus can be fitted in a pre-wall system or connected directly to a floor-standing toilet with a minimum flush volume of 6 litres. This allows an additional WC or an additional bathroom to be installed almost anywhere during renovation or alteration work. When installed below the backup level, the device also provides anti-flooding protection.

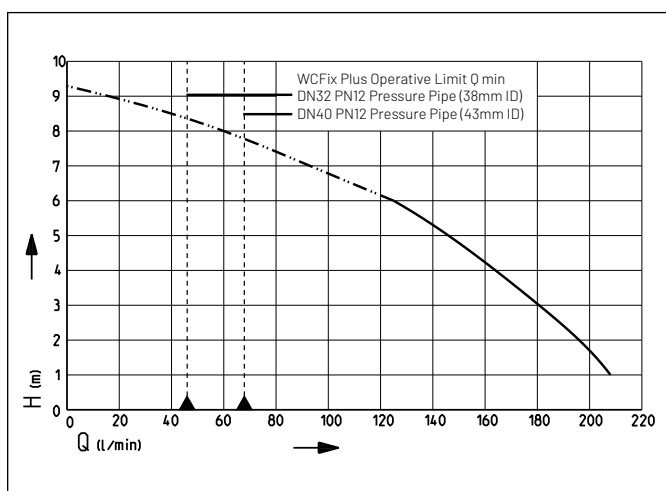
Pumping is particularly quiet due to its flow-optimised open centrifugal impeller. Due to this design, regular cleaning is not necessary and servicing works are significantly reduced.

The WCFix plus is equipped with a runtime monitoring for early acoustic fault signalling. It is also possible to pass on the fault signal to other places via a volt free contact fitted as standard. The appliance is fully pre-assembled, ready for connection to a power socket, and operates fully automatically as soon as the flush is actuated. When installed in bathrooms or shower rooms, the corresponding local plumbing regulations must be observed.

Attention: Do not flush any hygienic products down the toilet, because they can cause malfunctions.

For the installation and for maintenance work a sufficiently large inspection opening has to be planned.

### PERFORMANCE



**WaterMark**  
WMTS106  
WM032105

| Type       | Delivery head H [m] | 1   | 2   | 3   | 4   | 5   | 6   |
|------------|---------------------|-----|-----|-----|-----|-----|-----|
| WCFIX PLUS | Flow rate Q [l/min] | 208 | 196 | 183 | 163 | 146 | 125 |

We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances. This data is represented in the performance curve as a limit of application.

# WCFIX PLUS

## SEWAGE LIFTING STATION FOR WASTEWATER CONTAINING FAECES

### SCOPE OF SUPPLY

Appliance ready to connect with cable and plug, complete with collars, outlet elbow, swing-type check valve 1¼", ventilation insert, active carbon filter, clamps and fixing materials for buoyancy control.

### MECHANICAL DATA

|                     |                   |
|---------------------|-------------------|
| Seal on motor side  | Rotary shaft seal |
| Oil chamber         | Yes               |
| Seal on medium side | Rotary shaft seal |
| Shaft               | Stainless steel   |

|               |                      |
|---------------|----------------------|
| Impeller      | Vortex impeller, GFK |
| Motor housing | Stainless steel      |
| Pump housing  | GRP                  |
| Weight        | 6.2 kg               |

### ELECTRICAL DATA

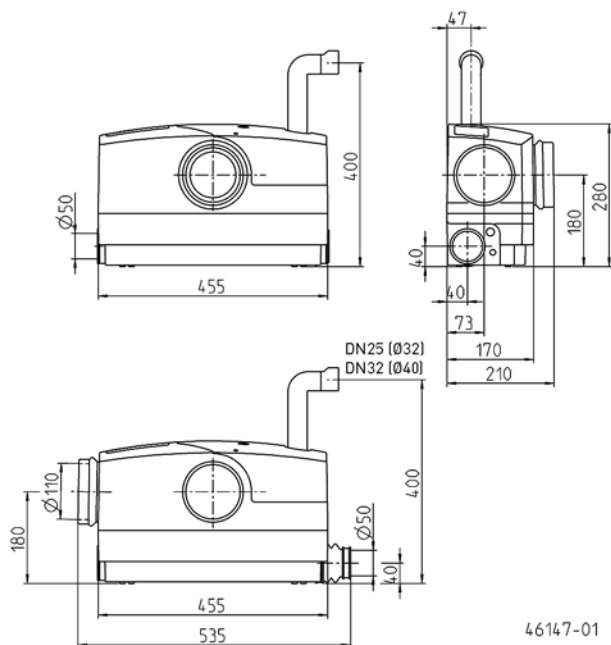
|                 |              |
|-----------------|--------------|
| Voltage         | 1/N/PE~230 V |
| Motor rating P1 | 0.73 kW      |
| Motor rating P2 | 0.47 kW      |
| Current         | 3.2 A        |

|                   |                          |
|-------------------|--------------------------|
| Type of enclosure | IP 44                    |
| Motor protection  | Installed in the winding |
| Plug              | 3 flat-pin ANZ           |
| S3                | 30 %                     |

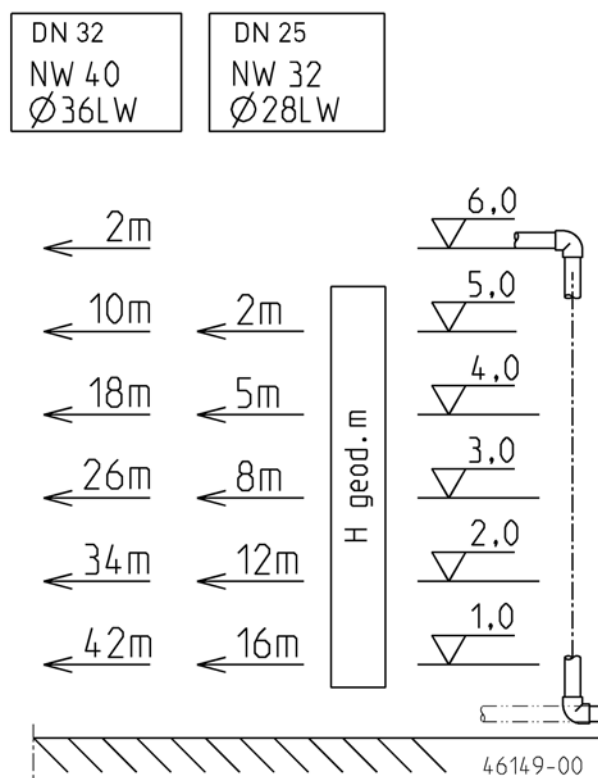
### WCFIX PLUS

| Type       | Code No. |
|------------|----------|
| WCFIX PLUS | JP47402  |

### Dimensions (mm)



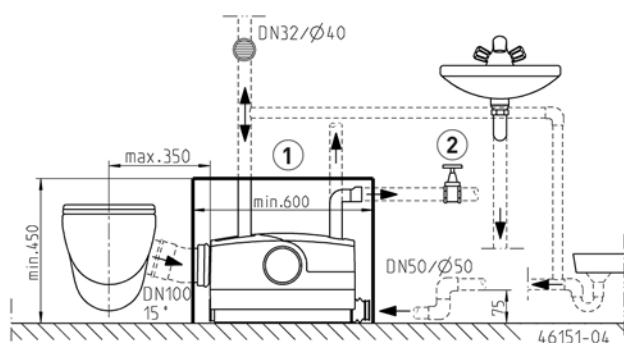
### Performance



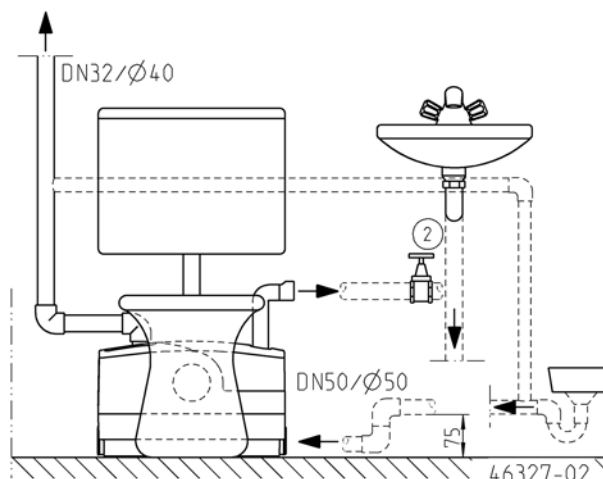
# WCFIX PLUS

SEWAGE LIFTING STATION FOR WASTEWATER CONTAINING FAECES

Example of installation



Example of installation



# SEWAGE PUMPS

## OVERVIEW

| ACCESSORIES                                                                                                    |                       | Page      |
|----------------------------------------------------------------------------------------------------------------|-----------------------|-----------|
| Accessories to suit MultiCut/MultiStream/MultiFree                                                             |                       | 63        |
| MULTICUT SEWAGE CUTTER PUMPS                                                                                   |                       | Page      |
| Principally used for pressure drainage systems containing effluent                                             | <b>MultiCut 08</b>    | 64 - 67   |
|                                                                                                                | <b>MultiCut 20-76</b> | 68 - 71   |
| CSM SEWAGE CUTTER PUMPS                                                                                        |                       | Page      |
| For wastewater and ground water with particles up to 35 mm in diameter and where stringy materials are present | <b>CSM</b>            | 72 - 73   |
| MULTISTREAM SINGLE CHANNEL SEWAGE PUMPS                                                                        |                       | Page      |
| Single channel impeller pumps for wastewater and sewage containing fibres and solids                           | <b>DN 65</b>          | 74 - 86   |
|                                                                                                                | <b>DN 80</b>          |           |
|                                                                                                                | <b>DN 100</b>         |           |
|                                                                                                                | <b>DN 150</b>         |           |
|                                                                                                                | <b>DN 200</b>         |           |
| MULTIFREE VORTEX SEWAGE PUMPS                                                                                  |                       | Page      |
| Vortex impeller pumps for wastewater and sewage containing solids and fibres prone to matting                  | <b>DN 65</b>          | 88 - 99   |
|                                                                                                                | <b>DN 80</b>          |           |
|                                                                                                                | <b>DN 100</b>         |           |
| PRIOX VORTEX SEWAGE PUMPS                                                                                      |                       | Page      |
| Stainless steel pumps for wastewater and sewage containing solids and fibres prone to matting                  | <b>PRIOX</b>          | 100 - 102 |
| CSM VORTEX SEWAGE PUMPS                                                                                        |                       | Page      |
| For wastewater and sewage containing solids and fibres prone to matting                                        | <b>CSM</b>            | 104 - 106 |
| PUMP CONTROL UNITS                                                                                             |                       | Page      |
| Single and dual pump control units                                                                             | <b>PPC</b>            | 108 - 109 |

# NOMENCLATURE

## SEWAGE PUMP

### Example MultiCut

MultiCut 25 /2 M E

① ② ③ ④ ⑤

### Example MultiStream/MultiFree

MultiFree 55 /4 CW2, Ex

① ② ③ ④ ⑥

| ① Type                    | Description                          |                                     |              |                  |
|---------------------------|--------------------------------------|-------------------------------------|--------------|------------------|
|                           | Multicut<br>MultiStream<br>MultiFree |                                     |              |                  |
| ② Motor rating            | Description                          | Performance P1                      |              |                  |
|                           | 08                                   | ~ 0,8 kW                            |              |                  |
|                           | 10                                   | ~ 1,0 kW                            |              |                  |
|                           | 15                                   | ~ 1,5 kW                            |              |                  |
|                           | 20                                   | ~ 2,4 kW                            |              |                  |
|                           | 25                                   | ~ 2,6 kW                            |              |                  |
|                           | 35                                   | ~ 3,5 kW                            |              |                  |
|                           | 36                                   | ~ 3,6 kW                            |              |                  |
|                           | 55                                   | ~ 5,5 kW                            |              |                  |
|                           | 75                                   | ~ 7,5 kW                            |              |                  |
|                           | 76                                   | ~ 7,6 kW                            |              |                  |
|                           | 100                                  | ~ 10,0 kW                           |              |                  |
|                           | 150                                  | ~ 15,0 kW                           |              |                  |
|                           | 200                                  | ~ 20,0 kW                           |              |                  |
|                           | 230                                  | ~ 23,0 kW                           |              |                  |
|                           | 300                                  | ~ 30,0 kW                           |              |                  |
| ③ Number of poles         | Description                          | RPM                                 |              |                  |
|                           | 2                                    | 2900 min <sup>-1</sup>              |              |                  |
|                           | 4                                    | 1450 min <sup>-1</sup>              |              |                  |
| ④ Impeller + Construction | Description                          | Impeller                            | Free passage | Discharge branch |
|                           | M                                    | Multicut cutting system             | 7 mm         | DN 32            |
|                           | A1 / A2                              | Single channel impeller             | 40 mm        | DN 65            |
|                           | B1 / B2 / B3 / B4 / B5               | Single channel impeller             | 70 mm        | DN 80            |
|                           | B6                                   | Single channel impeller             | 70 mm        | DN 100           |
|                           | C1 / C5 / C6                         | Single channel impeller             | 100 mm       | DN 100           |
|                           | C2 / C3 / C4                         | Single channel impeller             | 100 mm       | DN 150           |
|                           | C7                                   | Single channel impeller             | 100 mm       | DN 200           |
|                           | AW1 / AW2                            | Vortex impeller                     | 65 mm        | DN 65            |
|                           | BW1 / BW2                            | Vortex impeller                     | 80 mm        | DN 80            |
|                           | CW1 / CW2 / CW3                      | Vortex impeller                     | 100 mm       | DN 100           |
| ⑤ Type of current         | E                                    | 1-phase                             |              |                  |
|                           | ES                                   | 1-phase with built-in level control |              |                  |
| ⑥ Construction            | Ex                                   | with ex-proof; N/A in Australia     |              |                  |



Stocked: **AU** = Australia **DE** = Germany

# ACCESSORIES

## SEWAGE PUMP - MULTICUT

| Type                        | Code no. | 08/2<br>M | 08/2<br>ME | 08/2<br>MS | 08/2<br>MES | 20/2<br>M<br>PLUS | 25/2<br>ME | 35/2<br>M | 36/2<br>M | 45/2<br>M | 75/2<br>M | 76/2<br>M |
|-----------------------------|----------|-----------|------------|------------|-------------|-------------------|------------|-----------|-----------|-----------|-----------|-----------|
| GUIDE RAIL SYSTEM GR 35     | JP14094  |           |            |            |             | •                 | •          | •         | •         | •         | •         | •         |
| GUIDE RAIL SYSTEM GR 35 -08 | JP29953  | •         | •          | •          | •           |                   |            |           |           |           |           |           |
| BASES MC 20                 | JP44759  | •         | •          |            |             | •                 |            |           |           |           |           |           |
| BASES M                     | JP20980  |           |            |            |             |                   | •          | •         | •         | •         |           |           |
| BASE M 220                  | JP22302  |           |            |            |             |                   |            |           |           |           | •         | •         |
| PIPE CONNECTION 1 1/4"      | JP16870  | •         | •          | •          | •           | •                 | •          | •         | •         | •         | •         | •         |
| FLUSHING TUBE Type 0        | JP45408  |           |            |            |             | •                 |            |           |           |           |           |           |
| FLUSHING TUBE Type I        | JP28221  |           |            |            |             |                   | •          | •         | •         | •         |           |           |
| FLUSHING TUBE Type II       | JP28222  |           |            |            |             |                   |            |           |           |           | •         | •         |
| FLUSHING TUBE Type I M      | JP40333  | •         | •          | •          | •           |                   |            |           |           |           |           |           |

# ACCESSORIES

## SEWAGE PUMPS - MULTISTREAM / MULTIFREE

| Type                                    | Code no. | MultiStream |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | MultiFree |     |     |     |     |     |  |
|-----------------------------------------|----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----------|-----|-----|-----|-----|-----|--|
|                                         |          | A1          | A2 | B1 | B2 | B3 | B4 | B5 | B6 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | AW1 | AW2       | BW1 | BW2 | CW1 | CW2 | CW3 |  |
| GUIDE RAIL SYSTEM GR 65                 | JP00494  | ●           | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    | ●   | ●         |     |     |     |     |     |  |
| GUIDE RAIL SYSTEM GR 80                 | JP00495  |             |    | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |     |           | ●   | ●   |     |     |     |  |
| GUIDE RAIL SYSTEM GR 100                | JP00496  |             |    |    |    |    |    |    |    | ●  |    |    |    |    |    |    |     |           |     |     | ●   |     |     |  |
| GUIDE RAIL SYSTEM GR 101                | JP21037  |             |    |    |    |    |    |    | ●  |    |    |    |    | ●  | ●  |    |     |           |     |     | ●   | ●   |     |  |
| PUMP BASE A 170                         | JP00681  | ●           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |           |     |     |     |     |     |  |
| PUMP BASE A 220                         | JP00682  |             | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    | ●   | ●         |     |     |     |     |     |  |
| PUMP BASE B 170                         | JP00683  |             |    | ●  |    |    |    |    |    |    |    |    |    |    |    |    |     |           |     |     |     |     |     |  |
| PUMP BASE B 220                         | JP00684  |             |    |    | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |     |           | ●   |     |     |     |     |  |
| PUMP BASE C 220                         | JP11453  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |           |     |     | ●   |     |     |  |
| PUMP BASE C 275                         | JP00685  |             |    |    |    |    |    | ●  | ●  | ●  |    |    |    | ●  |    |    |     |           |     | ●   |     |     | ●   |  |
| FLUSHING TUBE Type I * 10/...45/...     | JP28221  | ●           | ●  | ●  | ●  | ●  | ●  |    |    | ●  |    |    |    |    |    |    | ●   | ●         | ●   | ●   | ●   |     |     |  |
| FLUSHING TUBE Type II * 55/...100/...   | JP28222  |             |    |    | ●  |    |    | ●  | ●  |    | ●  |    |    | ●  |    |    |     |           |     |     | ●   | ●   | ●   |  |
| FLUSHING TUBE Type III * 150/...300/... | JP28223  |             |    |    |    |    |    |    | ●  |    |    | ●  | ●  |    | ●  | ●  |     |           |     |     |     |     |     |  |

\* AW1, AW2, BW1 and CW1 flushing effect from 4 m delivery head, CW2 flushing effect from 6 m delivery head and BW2, CW3 flushing effect from 10 m delivery head

# MULTICUT 08

## SEWAGE CUTTER PUMP

- External adjustable cutting mechanism
- Cutting system of hardened stainless steel
- Reliable solids transport due to improved cutting technology
- Controllable oil chamber
- Installed motor protection
- SiC mechanical seal
- Moisture-sealed cable inlet with plug-in cable connection



### DESCRIPTION

Centrifugal submersible sewage pumps fitted with the MultiCut cutting system are used as stationary appliances for back-pressure protection of detached houses. They are suitable for pumping domestic wastewater with the usual additions (as specified in German standard DIN 1986, Part 3).

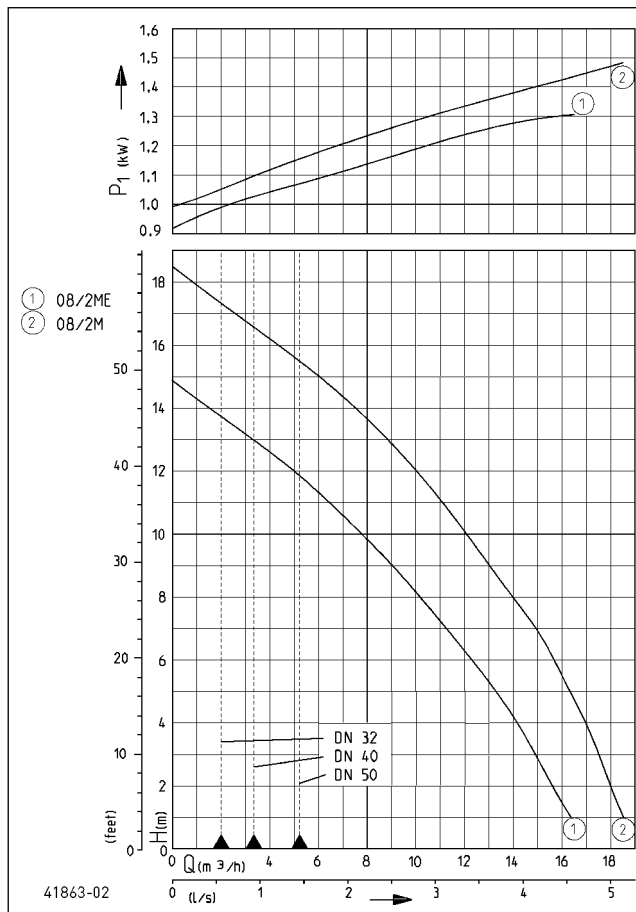
On account of the upstream cutting system, the pressurised line as from DN 32 - as from DN 80 minimum without cutting system - may be routed parallel to the terrain.

Operating conditions up to a temperature of the material to be transported of 40° celsius, submerged motor: continuous operation (S1), emerged motor: intermittent operation (S3) (e.g. 35% = 3.5 min. operation, 6.5 min. break).

The unique MultiCut cutting system ensures a maximum of operational safety at outstanding delivery characteristics. Fitted with a cutter plate made of hardened stainless steel and a three-bladed knife, it disintegrates coarse additions in the wastewater with more than 200,000 cutting processes per minute before they can enter the pump hydraulics. Solids which cannot be transported are rejected outside of the pump by the cutting rotor as the cutting system is located upstream from the pump hydraulics. Specifically arranged grooves on the cutter plate ensure additional safety as the cutting unit is permanently cleaned automatically during the delivery.

MultiCut sewage pumps are recommended for: wastewater containing solids and fibrous matter / wastewater containing sewage / domestic wastewater without sewage / mechanically cleaned wastewater.

### PERFORMANCE



| Type          | Delivery head H [m] | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13  | 14  | 15  | 16  |
|---------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| ① 08/2 ME/MES | Flow rate Q [m³/h]  | 16.5 | 15.5 | 15.0 | 14.0 | 13.0 | 12.0 | 11.0 | 10.0 | 9.0  | 7.5  | 6.5  | 5.0  | 3.5 | 1.5 |     |     |
| ② 08/2 M/MS   |                     | 18.5 | 18.0 | 17.5 | 17.0 | 16.5 | 15.5 | 15.0 | 14.0 | 13.0 | 12.0 | 11.0 | 10.0 | 9.0 | 7.5 | 6.0 | 4.5 |

We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances

This data is represented in the performance curve as a limit of application.

# MULTICUT 08

## SEWAGE CUTTER PUMP

### SCOPE OF SUPPLY

Pump type ME + MES ready for connection with 10 m cable, with plug. Pump type M + MS ready for connection with 10 m cable, without plug. For pumps with built-in level control (S) the base is included in delivery.

### MECHANICAL DATA

|                     |                                  |
|---------------------|----------------------------------|
| Pump                | Vertical single-stage            |
| Free passage        | 7 mm                             |
| Bearing             | Ball bearings, grease-lubricated |
| Seal on motor side  | Duplex rotary shaft seals        |
| Oil chamber         | Yes                              |
| Seal on medium side | SiC mechanical seal              |

|                    |                          |
|--------------------|--------------------------|
| Run dry protection | Yes                      |
| Impeller           | Vortex impeller, GFK     |
| Pump housing       | Grey cast iron           |
| Submersible        | Yes                      |
| Pressure outlet    | DN 32                    |
| Cutter assembly    | Hardened stainless steel |

### ELECTRICAL DATA

|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

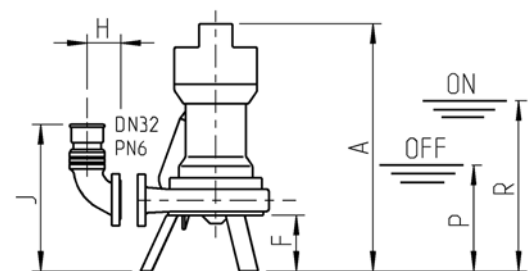
|                    |     |
|--------------------|-----|
| Winding thermostat | Yes |
|--------------------|-----|

### MULTICUT 08

| Type                        | Code No. | Voltage      | Motor rating |         | Current | Wires | Motor protection | Plug    | S3   | Motor housing   | Weight  |
|-----------------------------|----------|--------------|--------------|---------|---------|-------|------------------|---------|------|-----------------|---------|
|                             |          |              | P1           | P2      |         |       |                  |         |      |                 |         |
| Without level control       |          |              |              |         |         |       |                  |         |      |                 |         |
| 08/2 ME                     | JP50348  | 1/N/PE~230 V | 1.37 kW      | 0.98 kW | 6.0 A   | 3G1,0 | In motor         | ANZ     | 10 % | Stainless steel | 16.2 kg |
| 08/2 M                      | JP50344  | 3/PE~400 V   | 1.65 kW      | 1.24 kW | 2.8 A   | 4G1,0 | In motor         | CEE-16A | 10 % | Stainless steel | 16.5 kg |
| With built-in level control |          |              |              |         |         |       |                  |         |      |                 |         |
| 08/2 MES                    | JP50347  | 1/N/PE~230 V | 1.37 kW      | 0.98 kW | 6.0 A   | 3G1,0 | In motor         | ANZ     | 10 % | Stainless steel | 16.6 kg |
| 08/2 MS                     | JP50345  | 3/PE~400 V   | 1.65 kW      | 1.24 kW | 2.8 A   | 4G1,0 | In motor         | CEE-16A | 10 % | Stainless steel | 17.2 kg |

| Type      | Code           | Stocked |
|-----------|----------------|---------|
| ① 08/2ME  | <b>JP50348</b> | AU      |
| ② 08/2M   | <b>JP50344</b> | AU      |
| ① 08/2MES | <b>JP50347</b> | AU      |
| ② 08/2MS  | <b>JP50345</b> | AU      |

### Dimensions 08/2 M (mm)



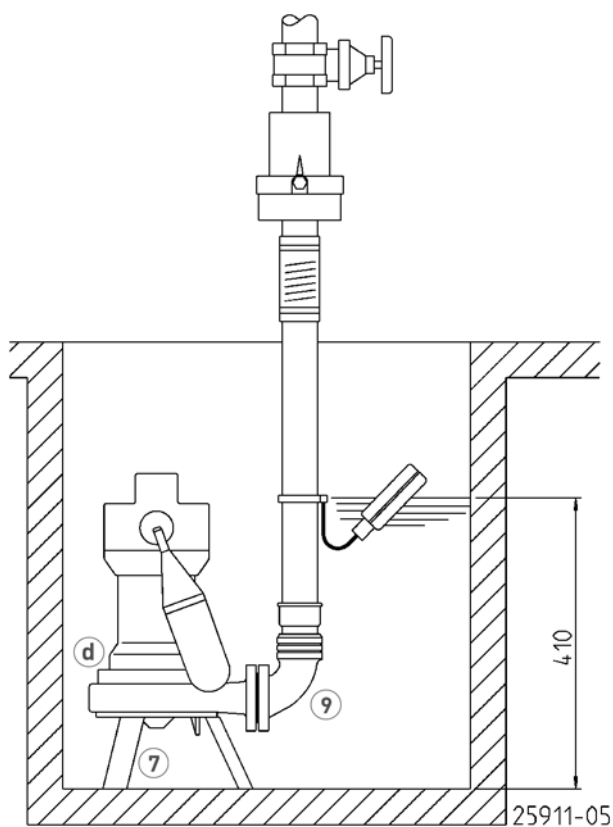
25981-09

| Typ        | A   | B   | C   | D   | E   | F   | G   | H  | J   | K  | P   | R   |
|------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|
| 08/2M +ME  | 445 | 235 | 230 | -   | -   | 100 | 128 | 60 | 265 | 90 | -   | -   |
| 08/2MS+MES | 445 | 340 | -   | 115 | 140 | 100 | 128 | 60 | 265 | 90 | 190 | 305 |

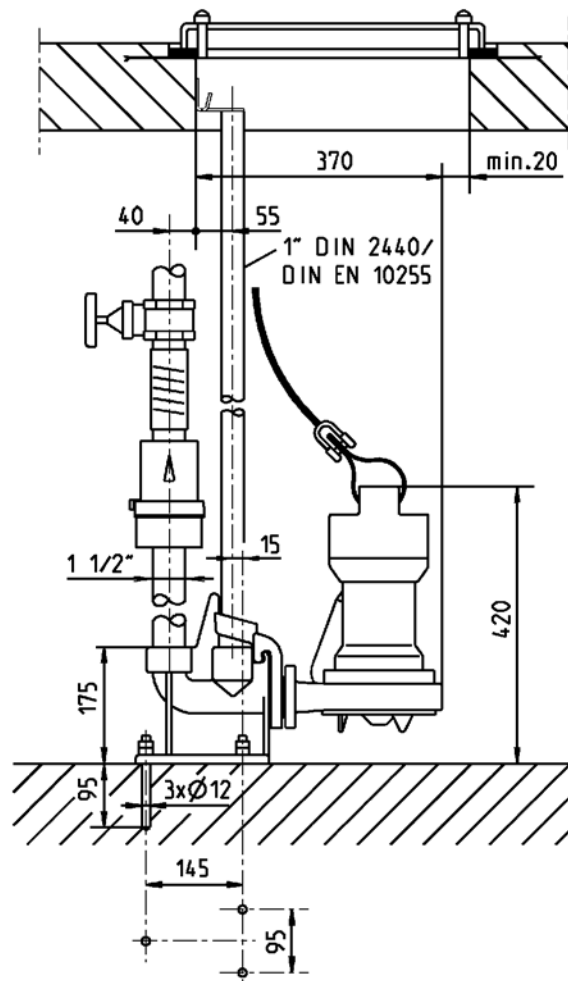
# MULTICUT 08

## SEWAGE CUTTER PUMP

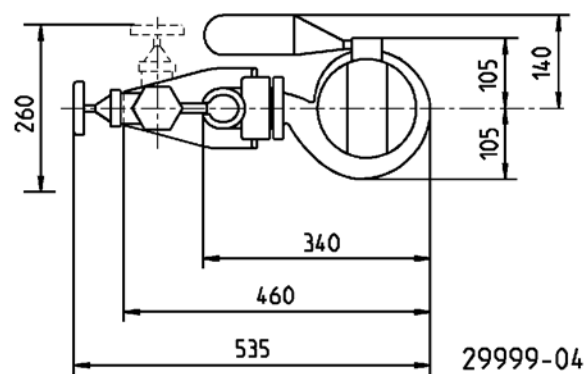
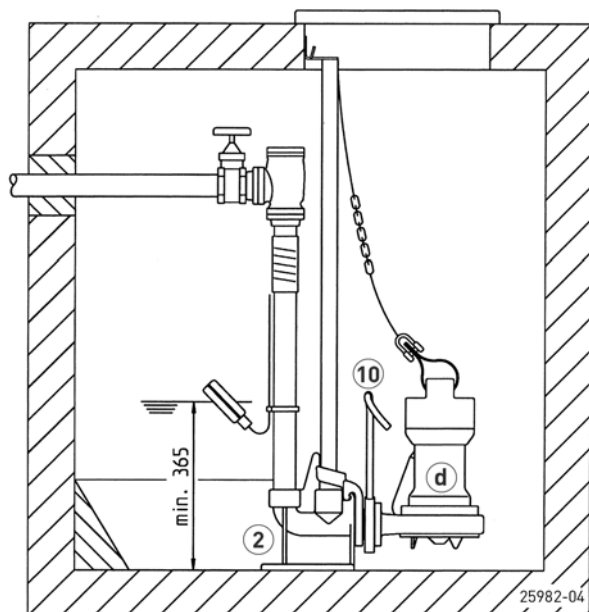
Example of pump base installation



Example of guide rail installation



Example of guide rail installation



Single unit - min. sump (cm)  
 without GR: 40x40  
 with GR and swing-type check valve: 40x65  
 with GR and ball-type check valve: 40x65

# MULTICUT 08

## SEWAGE CUTTER PUMP

### MECHANICAL ACCESSORY

|   |                          |                                                       | Code No. |
|---|--------------------------|-------------------------------------------------------|----------|
| ② | <b>Guide rail system</b> |                                                       |          |
|   | GR 35                    | 1 1/2" female thread for MultiCut 08 without Ex-proof | JP29953  |
| ⑦ | <b>Bases</b>             | (for 08/2 MS and MES in scope of supply)              | JP44759  |
| ⑨ | <b>Pipe connection</b>   | 1 1/4" (female thread)                                | JP16870  |
| ⑩ | <b>Flushing tube</b>     | Type I-M stainless steel with connection flange       | JP40333  |

### PUMP CONTROLLER

| Type                         | Code no.       | Single pump controller | Dual pump controller | Float switch 10 m | Float switch 15 m | Float switch 20m | Float switch 30 m | Float switch 40 m |
|------------------------------|----------------|------------------------|----------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| <b>Without level control</b> |                |                        |                      |                   |                   |                  |                   |                   |
| 08/2 M                       | <b>JP50344</b> | PPC-15006-A            | PPC-30030-A          |                   |                   |                  |                   |                   |
| 08/2 MS                      | <b>JP50345</b> | PPC-15006-A            | PPC-30030-A          | FSW-10M           | FSW-15M           | FSW-20M          | FSW-30M           | FSW-40M           |

# MULTICUT

## SEWAGE CUTTER PUMP

- External adjustable cutting mechanism
- Cutting system of hardened stainless steel
- Reliable solids transport due to improved cutting technology
- Controllable oil chamber
- SiC mechanical seal
- Moisture-sealed cable inlet with plug-in cable connection
- Installed motor protection



### DESCRIPTION

Centrifugal submersible sewage pumps fitted with the MultiCut cutting system are used as stationary appliances in pressurized drainage systems for discharge in sparsely populated areas or of detached houses. They are suitable for pumping domestic wastewater with the usual additions (as specified in German standard DIN 1986, Part 3).

On account of the upstream cutting system, the pressurised line as from DN 32 - as from DN 80 minimum without cutting system - may be routed parallel to the terrain.

Operating conditions up to a temperature of the material to be transported of 40° Celsius

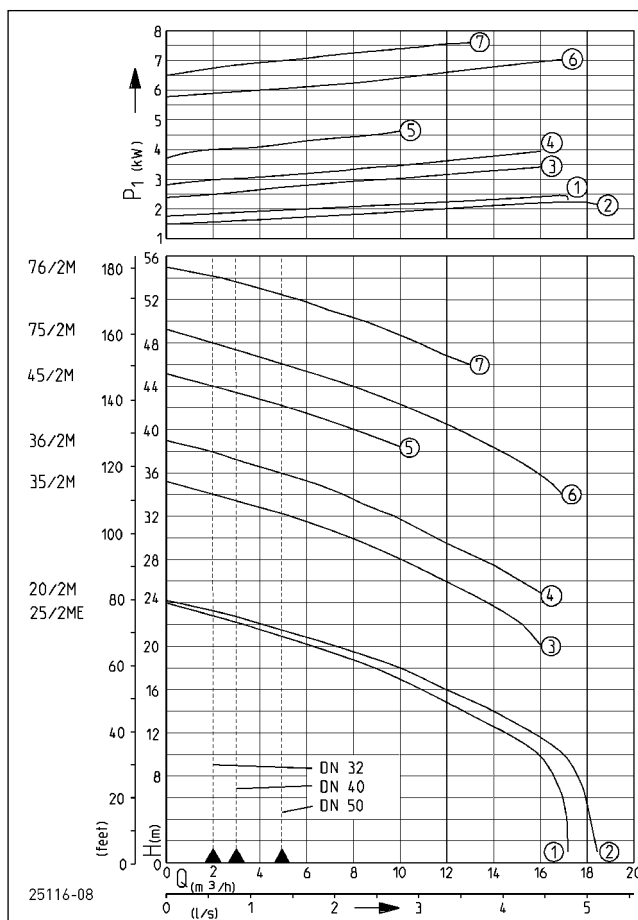
Submerged motor: Continuous operation (S1)

Emerged motor: Intermittent operation (S3) (e.g. 20% = 2 min. operation, 8 min. break)

The unique MultiCut cutting system ensures a maximum of operational safety at outstanding delivery characteristics. Fitted with a cutter plate made of hardened stainless steel and a three bladed knife, it disintegrates coarse additions in the wastewater with more than 200,000 cutting processes per minute before they can enter the pump hydraulics. Solids which cannot be transported are rejected outside of the pump by the cutting rotor as the cutting system is located upstream from the pump hydraulics. Specifically arranged grooves on the cutter plate ensure additional safety as the cutting unit is permanently cleaned automatically during the delivery.

MultiCut sewage pumps are recommended for: wastewater containing solids and fibrous matter / wastewater containing sewage / domestic wastewater without sewage / mechanically cleaned wastewater.

### PERFORMANCE



| Type          | Delivery head H [m] | 6  | 9  | 12 | 15 | 18 | 21 | 25 | 28 | 32 | 34 | 36 | 38 | 40 | 44 | 46 | 48 | 50 | 52 | 54 |
|---------------|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| ② 20/2 M plus | Flow rate Q [m³/h]  | 18 | 17 | 16 | 13 | 10 | 6  |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ① 25/2 ME     |                     | 17 | 16 | 15 | 12 | 9  | 5  |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ③ 35/2 M      |                     |    |    |    |    |    | 16 | 13 | 10 | 5  |    |    |    |    |    |    |    |    |    |    |
| ④ 36/2 M      |                     |    |    |    |    |    |    | 16 | 14 | 10 | 7  | 5  | 2  |    |    |    |    |    |    |    |
| ⑤ 45/2 M      |                     |    |    |    |    |    |    |    |    |    |    |    | 10 | 8  | 2  |    |    |    |    |    |
| ⑥ 75/2 M      |                     |    |    |    |    |    |    |    |    |    | 17 | 16 | 15 | 13 | 8  | 5  | 2  |    |    |    |
| ⑦ 76/2 M      |                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 13 | 11 | 9  | 6  | 3  |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

This data is represented in the performance curve as a limit of application.

# MULTICUT

## SEWAGE CUTTER PUMP

### SCOPE OF SUPPLY

Sewage pump without explosion-proof with 10 m cable, without plug, without base.

### MECHANICAL DATA

|                     |                                                   |                    |                                                |
|---------------------|---------------------------------------------------|--------------------|------------------------------------------------|
| Pump                | Vertical single-stage                             | Run dry protection | Yes                                            |
| Free passage        | 7 mm                                              | Impeller           | Vortex impeller, grey cast iron<br>20/2 M: GFK |
| Bearing             | Ball bearings, grease-lubricated                  | Motor housing      | Grey cast iron                                 |
| Seal on motor side  | Duplex shaft seal,<br>from 75/2M: mechanical seal | Pump housing       | Grey cast iron                                 |
| Oil chamber         | Yes                                               | Submersible        | Yes                                            |
| Seal on medium side | SiC mechanical seal                               | Pressure outlet    | DN 32                                          |
|                     |                                                   | Cutter assembly    | Hardened stainless steel                       |

### ELECTRICAL DATA

|                   |             |                    |            |
|-------------------|-------------|--------------------|------------|
| Power line        | 10m H07RN-F | Winding thermostat | Yes        |
| Type of enclosure | IP 68       | Motor protection   | Thermostat |
| Insulation class  | F           |                    |            |

### MULTICUT

| Type                         | Code No.        | Voltage        | Motor rating |         | Current      | Wires  | Fuse | S3   | Weight  |
|------------------------------|-----------------|----------------|--------------|---------|--------------|--------|------|------|---------|
|                              |                 |                | P1           | P2      |              |        |      |      |         |
| <b>Without level control</b> |                 |                |              |         |              |        |      |      |         |
| 20/2 M plus                  | <b>JP50350</b>  | 3/PE~400 V     | 2.40 kW      | 1.91 kW | 4.0 A        | 6G1,5  | 10 A | 25 % | 29.0 kg |
| 25/2 ME*                     | <b>JP50356*</b> | 1/N/PE~230 V   | 2.70 kW      | 2.04 kW | 12.0 A       | 6G1,5  | 16 A | 35 % | 38.0 kg |
| 35/2 M                       | <b>JP50357</b>  | 3/PE~400 V     | 3.70 kW      | 3.04 kW | 6.6 A        | 6G1,5  | 10 A | 40 % | 40.5 kg |
| 36/2 M                       | <b>JP50363</b>  | 3/PE~400 V     | 4.20 kW      | 3.42 kW | 7.3 A        | 6G1,5  | 10 A | 30 % | 40.5 kg |
| 45/2 M                       | <b>JP50369</b>  | 3/PE~400 V     | 4.84 kW      | 3.93 kW | 7.9 A        | 6G1,5  | 10 A | 25 % | 42.0 kg |
| 75/2 M                       | <b>JP50375</b>  | 3/PE~400/690 V | 7.70 kW      | 6.60 kW | 13.2 A/7.7 A | 10G2,5 | 20 A | 30 % | 90.0 kg |
| 76/2 M                       | <b>JP50377</b>  | 3/PE~400/690 V | 7.70 kW      | 6.60 kW | 13.2 A/7.7 A | 10G2,5 | 20 A | 30 % | 90.0 kg |

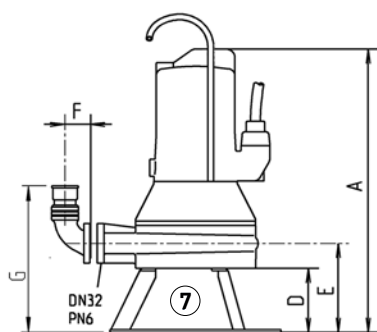
\*25/2 ME requires controller with built in capacitor to operate. Controller model: PPC-15025-D

| Type          | Code            | Stocked |
|---------------|-----------------|---------|
| ② 20/2 M plus | <b>JP50350</b>  | AU      |
| ① 25/2 ME*    | <b>JP50356*</b> | AU      |
| ③ 35/2 M      | <b>JP50357</b>  | AU      |
| ④ 36/2 M      | <b>JP50363</b>  | AU      |
| ⑤ 45/2 M      | <b>JP50369</b>  | AU      |
| ⑥ 75/2 M      | <b>JP50375</b>  | AU      |
| ⑦ 76/2 M      | <b>JP50377</b>  | AU      |

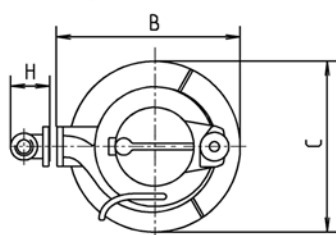
# MULTICUT

## SEWAGE CUTTER PUMP

### Dimensions pump base (mm)



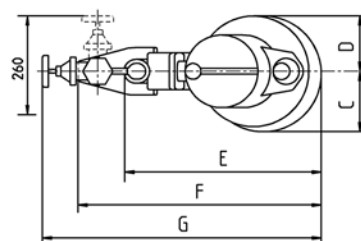
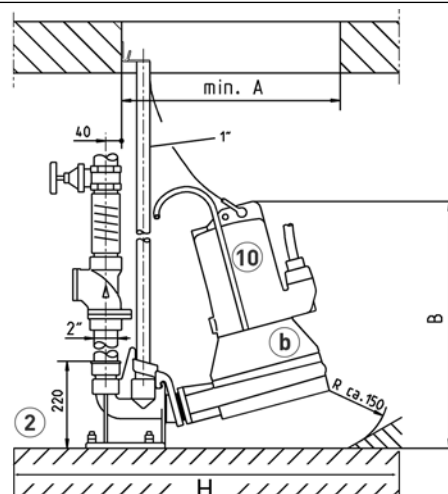
1 1/4"  
1 1/4"-1 1/2"



| Typ         | A   | B   | C   | D   | E   | F  | G   | H  |
|-------------|-----|-----|-----|-----|-----|----|-----|----|
| 20/2M       | 440 | 290 | 230 | 100 | 140 | 60 | 230 | 90 |
| 25/2ME      | 520 | 330 | 250 | 140 | 180 | 60 | 270 | 90 |
| 35/2M+36/2M | 520 | 330 | 250 | 140 | 180 | 60 | 270 | 90 |
| 45/2M       | 520 | 330 | 255 | 140 | 180 | 60 | 270 | 90 |
| 75/2M+76/2M | 665 | 430 | 400 | 150 | 210 | 60 | 300 | 90 |

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### Example of guide rail installation (mm)



25612-08

|              | A   | B   | C   | D   | E   | F   | G   | H           | min. |
|--------------|-----|-----|-----|-----|-----|-----|-----|-------------|------|
| 20/2M plus   | 430 | 450 | 110 | 110 | 380 | 500 | 585 | 400 x 700mm |      |
| 25/2ME-36/2M | 470 | 490 | 125 | 125 | 420 | 540 | 635 | 400 x 700mm |      |
| 45/2M        | 470 | 490 | 130 | 125 | 420 | 540 | 635 | 400 x 700mm |      |
| 75/2M+76/2M  | 545 | 625 | 155 | 140 | 500 | 615 | 705 | 400 x 800mm |      |

### MECHANICAL ACCESSORY

|  |                            |                                         | Code No.       |
|--|----------------------------|-----------------------------------------|----------------|
|  | <b>② Guide rail system</b> |                                         |                |
|  | GR 35                      | 1 1/2" female thread for MultiCut pumps | <b>JP14094</b> |
|  | <b>⑦ Pump base</b>         |                                         |                |
|  |                            | 20/2M                                   | <b>JP44759</b> |
|  |                            | M                                       | <b>JP20980</b> |
|  |                            | M 220                                   | <b>JP22302</b> |
|  | <b>⑨ Pipe connection</b>   | 1 1/4" (female thread)                  | <b>JP16870</b> |
|  | <b>⑩ Flushing tube</b>     |                                         |                |
|  |                            | Type 0                                  | <b>JP45408</b> |
|  |                            | Type I                                  | <b>JP28221</b> |
|  |                            | Type II                                 | <b>JP28222</b> |

# MULTICUT

## SEWAGE CUTTER PUMP

### PUMP CONTROLLER

| Type                         | Code no.        | Single pump controller | Dual pump controller | Float switch 10 m | Float switch 15 m | Float switch 20m | Float switch 30 m | Float switch 40 m |
|------------------------------|-----------------|------------------------|----------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| <b>Without level control</b> |                 |                        |                      |                   |                   |                  |                   |                   |
| 20/2 M plus                  | <b>JP50350</b>  | PPC-15006-B            | PPC-30030-A          |                   |                   |                  |                   |                   |
| 25/2 ME*                     | <b>JP50356*</b> | PPC-15025-D            | NA                   |                   |                   |                  |                   |                   |
| 35/2 M                       | <b>JP50357</b>  | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 36/2 M                       | <b>JP50363</b>  | PPC-15006-C            | PPC-30030-C          | FSW-10M           | FSW-15M           | FSW-20M          | FSW-30M           | FSW-40M           |
| 45/2 M                       | <b>JP50369</b>  | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 75/2 M                       | <b>JP50375</b>  | PPC-15006-D            | PPC-30030-D          |                   |                   |                  |                   |                   |
| 76/2 M                       | <b>JP50377</b>  | PPC-15006-D            | PPC-30030-D          |                   |                   |                  |                   |                   |

# CSM850

## SEWAGE CUTTER PUMP

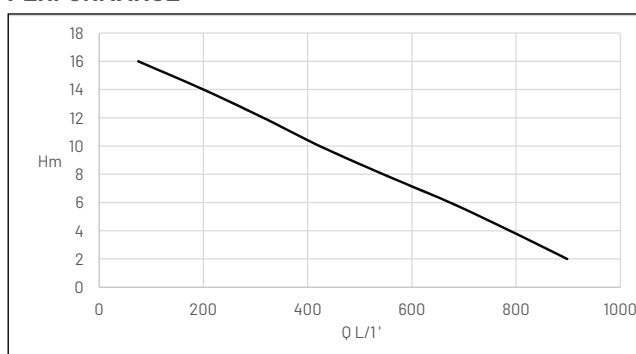
- Heavy duty construction
- 35 mm free passage
- Semi open cutter impeller
- Moisture sealed cable inlet
- Hmax to 15.5 m
- Qmax to 1050 LPM



### DESCRIPTION

The CSM850 range of semi open cutter-style impeller submersible pumps are made from heavy duty cast iron and high grade stainless steel. They operate completely immersed in the liquid to be pumped which provides for the cooling of the motor from the outside. Built-in auto-cut protector. Designed for pumping sewage wastewater containing particles up to 35 mm in diameter and where stringy materials may be present.

### PERFORMANCE



| Type          | Delivery head H [m] | 4    | 6    | 8    | 10 | 12 | 14  |
|---------------|---------------------|------|------|------|----|----|-----|
| CSM850CF / CS | Flow rate Q [m³/h]  | 55.8 | 46.8 | 38.4 | 30 | 20 | 9.0 |

We reserve the right to change specifications without notice.

This data is represented in the performance curve as a limit of application.

### SCOPE OF SUPPLY

Pump ready for connection acc. to EN 12050 with 3" flange connection, 3" flanged elbow to 3" 2 bolt flange connection, 2 bolt flange connection to BSP FI and 80mm x 3" BSP MI hose connector, cable and plug.

### MECHANICAL DATA

|                 |                                               |
|-----------------|-----------------------------------------------|
| Pump            | Vertical single-stage                         |
| Free passage    | 35 mm                                         |
| Bearing         | Self-lubricating ball bearings                |
| Oil chamber     | Yes                                           |
| Mechanical seal | Double M.seals<br>(lubricated in oil chamber) |
| Shaft           | Stainless steel                               |

|                  |                 |
|------------------|-----------------|
| Impeller         | Cast iron       |
| Motor housing    | Stainless steel |
| Pump housing     | Cast iron       |
| Submersible      | Yes             |
| Pressure outlet  | 3"              |
| Temperature max. | 40°C            |

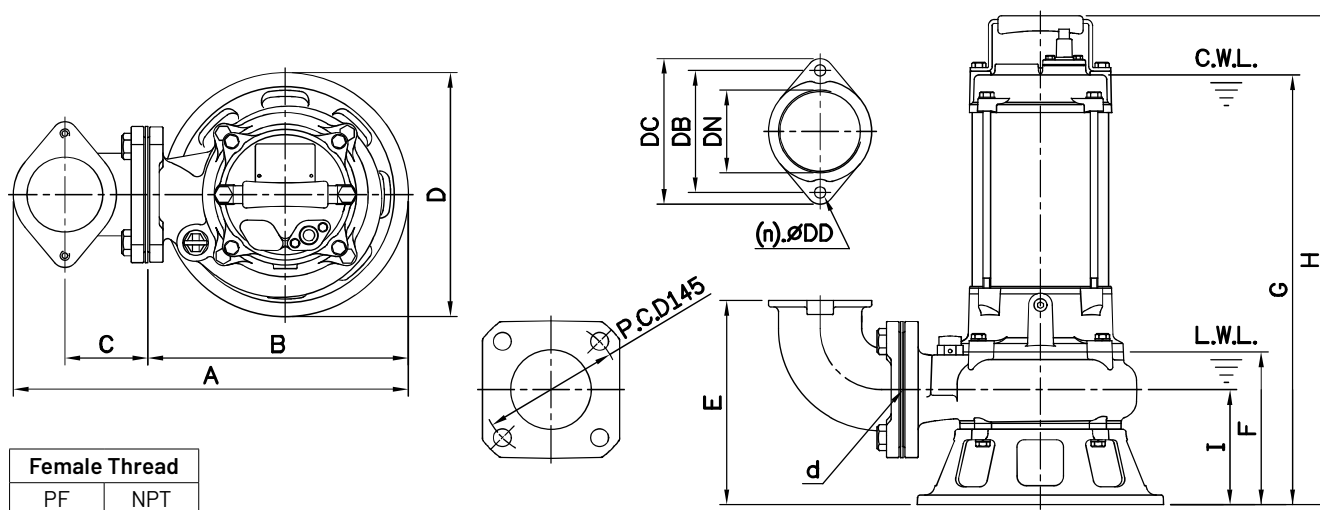
### ELECTRICAL DATA

|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

|                  |      |
|------------------|------|
| Insulation class | F    |
| Rotation speed   | 2850 |

| Type                                                                                                           | Code No.        | Voltage      | Motor rating (kW)<br>P2 | Current<br>(A) | Starting | Start<br>cap. | Run cap. | Free passage<br>(mm) | Weight |
|----------------------------------------------------------------------------------------------------------------|-----------------|--------------|-------------------------|----------------|----------|---------------|----------|----------------------|--------|
| <b>With level control</b>                                                                                      |                 |              |                         |                |          |               |          |                      |        |
| CSM850CF                                                                                                       | <b>CSM850CF</b> | 1/N/PE~230 V | 1.5                     | 10             | CS/CR    | 15µF          | 100µF    | 35                   | 35 kg  |
| <b>Without level control</b>                                                                                   |                 |              |                         |                |          |               |          |                      |        |
| CSM850CS                                                                                                       | <b>CSM850CS</b> | 1/N/PE~230 V | 1.5                     | 10             | CS/CR    | 15µF          | 100µF    | 35                   | 35 kg  |
| PSC: Permanently Split Capacitor CS/CR: Capacitor Start/Capacitor Run (centrifugal switch) DOL: Direct On Line |                 |              |                         |                |          |               |          |                      |        |

### Dimensions CSM850 (mm)



| Model         | d  | A   | B   | C  | D   | E   | F   | G   | H   | I   | Flange set<br>weight kg | DN | DB  | DC  | DD |
|---------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-------------------------|----|-----|-----|----|
| CSM850CS / CF | 80 | 417 | 275 | 88 | 260 | 218 | 163 | 527 | 590 | 123 | 5                       | 80 | 130 | 155 | 12 |

C.W.L.: Continuous Running Water Level L.W.L.: Lowest Running Water Level

### PUMP CONTROLLER

| Type                         | Code no.      | Single pump<br>controller | Dual pump<br>controller | Float<br>switch 10 m | Float<br>switch 15 m | Float<br>switch 20 m | Float<br>switch 30 m | Float<br>switch 40 m |
|------------------------------|---------------|---------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| With / without level control |               |                           |                         |                      |                      |                      |                      |                      |
| CSM850                       | CSM850CF / CS | PPC-15002-D               | PPC-30010-D             | FSW-10M              | FSW-15M              | FSW-20M              | FSW-30M              | FSW-40M              |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP



- Adjustable single-channel impeller
- Connection alternatively PN6 or PN10
- Safe to run dry
- Controllable oil chamber
- Plug-type cable connection (MultiStream 10...-100...)
- SiC mechanical seal
- Moisture-sealed cable inlet
- Installed motor protection

### DESCRIPTION

The centrifugal MultiStream submersible sewage pumps are suitable for handling effluent or sewage in municipal and industrial pumping stations as well as in surface water drainage applications. The smaller types are also used very successfully as portable units to deal with emergency situations. The submersible pumps are made with 10 m cable and free lead ends. The through shaft is fully encapsulated against the pumped media and with its short shaft end a long-life span is ensured. The adjustable axial gap of the MultiStream pump makes it possible to re-optimize the efficiency in case of abrasion by adjusting only one single screw. This can be done very cost-effectively when maintenance is carried out and the pump keeps its optimum performance on a long-term basis.

MultiStream pumps are recommended for effluent that contains fibrous matter / effluent that contains solids / mixed water / raw effluent / rainwater.

### Key benefits include:

- **Energy-efficient pumping**  
The high efficiency of the pumps makes this possible.
- **Long service life**  
Optional wear coating on the impeller – also ideal when pumping abrasive wastewater.
- **Maximum operational reliability**  
Hydraulics optimised to prevent entwining.
- **Low maintenance costs**  
The adjustable axial gap allows the efficiency of the pump to be maintained even if there are signs of wear.
- **Low life cycle costs**  
Thanks to easily exchangeable components, such as the wear plate and the adjustable axial gap.
- **Range of accessories**  
Enables optimum use of the pumps in each application.

### MECHANICAL DATA

|                     |                                              |
|---------------------|----------------------------------------------|
| Pump                | Vertical single-stage                        |
| Bearing             | Ball bearings, grease-lubricated             |
| Seal on motor side  | Duplex shaft seal, from 55/: mechanical seal |
| Oil chamber         | Yes                                          |
| Seal on medium side | SiC mechanical seal                          |

|                    |                                                                        |
|--------------------|------------------------------------------------------------------------|
| Run dry protection | Yes                                                                    |
| Impeller           | Channel impeller, grey cast iron from 55/2... spheroidal graphite iron |
| Motor housing      | Grey cast iron                                                         |
| Pump housing       | Grey cast iron                                                         |
| Submersible        | Yes                                                                    |

### ELECTRICAL DATA

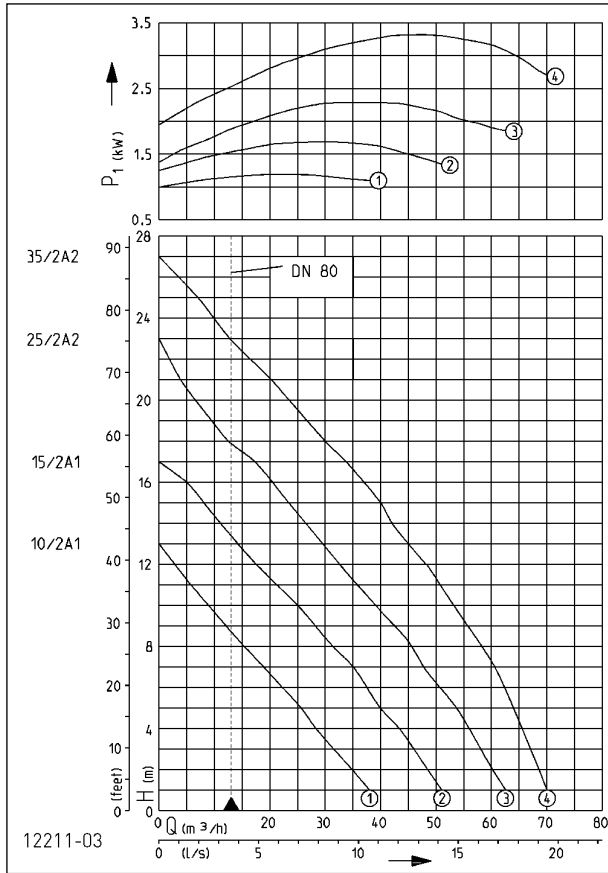
|            |             |
|------------|-------------|
| Power line | 10m H07RN-F |
|------------|-------------|

|                   |       |
|-------------------|-------|
| Type of enclosure | IP 68 |
|-------------------|-------|

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### PERFORMANCE



| Type      | Code    | Stocked |
|-----------|---------|---------|
| ① 10/2 A1 | JP09615 | DE      |
| ② 15/2 A1 | JP09616 | AU      |
| ③ 25/2 A2 | JP09617 | AU      |
| ④ 35/2 A2 | JP09651 | AU      |

Additional requirements, see technical data control units

| Type    | Delivery head H [m] | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|---------|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 10/2 A1 | Flow rate Q [m³/h]  | 38 | 35 | 32 | 29 | 26 | 22 | 19 | 15 | 12 | 9  |    |    |    |    |    |    |    |
| 15/2 A1 |                     | 50 | 48 | 46 | 43 | 40 | 37 | 35 | 32 | 28 | 25 | 18 | 11 | 5  |    |    |    |    |
| 25/2 A2 |                     | 62 | 60 | 58 | 56 | 54 | 51 | 48 | 46 | 42 | 39 | 33 | 27 | 20 | 13 | 7  |    |    |
| 35/2 A2 |                     | 70 | 69 | 67 | 66 | 64 | 63 | 61 | 58 | 56 | 53 | 48 | 43 | 37 | 30 | 24 | 16 | 10 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

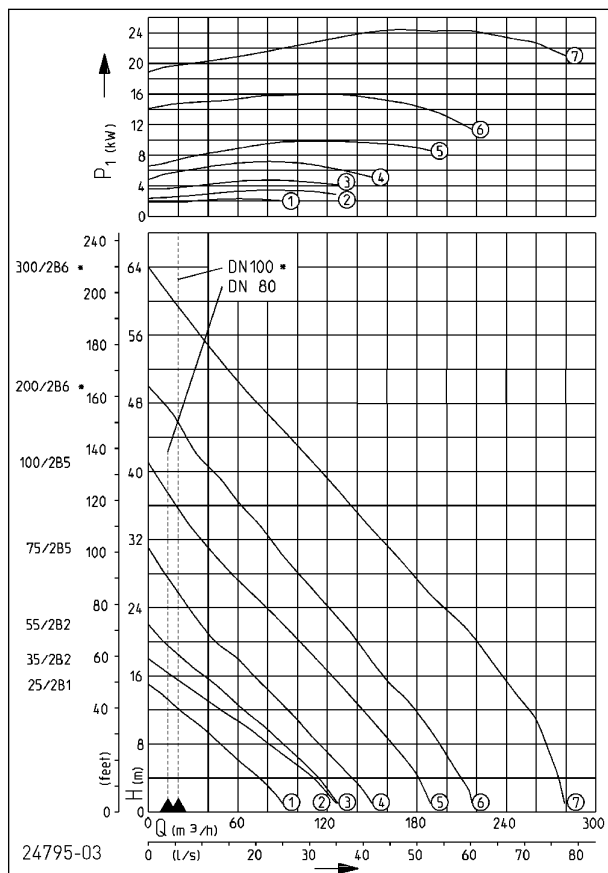
### MULTISTREAM DN 65, N = 2900 MIN-1

| Type    | Voltage    | Motor rating<br>P1 | Motor rating<br>P2 | Current | Wires | Fuse | S3   | Free pas-<br>sage | Pressure<br>outlet | Weight |
|---------|------------|--------------------|--------------------|---------|-------|------|------|-------------------|--------------------|--------|
| 10/2 A1 | 3/PE~400 V | 1.3 kW             | 1.10 kW            | 2.7 A   | 6G1,5 | 10 A | 60 % | 40 mm             | DN 65              | 41 kg  |
| 15/2 A1 | 3/PE~400 V | 1.8 kW             | 1.50 kW            | 3.3 A   | 6G1,5 | 10 A | 50 % | 40 mm             | DN 65              | 42 kg  |
| 25/2 A2 | 3/PE~400 V | 2.6 kW             | 2.10 kW            | 4.4 A   | 6G1,5 | 10 A | 40 % | 40 mm             | DN 65              | 48 kg  |
| 35/2 A2 | 3/PE~400 V | 3.7 kW             | 3.04 kW            | 6.6 A   | 6G1,5 | 10 A | 40 % | 40 mm             | DN 65              | 52 kg  |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### PERFORMANCE



| Type       | Code           | Stocked |
|------------|----------------|---------|
| ① 25/2 B1  | <b>JP09618</b> | AU      |
| ② 35/2 B2  | <b>JP09652</b> | AU      |
| ③ 55/2 B2  | <b>JP09663</b> | AU      |
| ④ 75/2 B5  | <b>JP00485</b> | DE      |
| ⑤ 100/2 B5 | <b>JP09740</b> | DE      |
| ⑥ 200/2 B6 | <b>JP00492</b> | DE      |
| ⑦ 300/2 B6 | <b>JP00471</b> | DE      |

Additional requirements, see technical data control units

| Type     | Delivery head H [m] | 1   | 3   | 6   | 9   | 12  | 15  | 18  | 21  | 24  | 27  | 30  | 33  | 36  | 40  | 43  | 46 | 50 | 53 | 56 | 60 |
|----------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| 25/2 B1  | Flow rate Q [m³/h]  | 91  | 80  | 62  | 43  | 21  |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |
| 35/2 B2  |                     | 126 | 117 | 97  | 73  | 49  | 23  |     |     |     |     |     |     |     |     |     |    |    |    |    |    |
| 55/2 B2  |                     | 127 | 118 | 103 | 85  | 65  | 44  | 24  | 6   |     |     |     |     |     |     |     |    |    |    |    |    |
| 75/2 B5  |                     | 150 | 142 | 126 | 110 | 93  | 77  | 59  | 42  | 27  | 15  |     |     |     |     |     |    |    |    |    |    |
| 100/2 B5 |                     | 190 | 184 | 173 | 159 | 144 | 129 | 113 | 97  | 78  | 63  | 46  | 32  | 18  |     |     |    |    |    |    |    |
| 200/2 B6 |                     | 217 | 215 | 204 | 191 | 177 | 162 | 149 | 136 | 120 | 104 | 91  | 77  | 62  | 43  | 28  | 19 |    |    |    |    |
| 300/2 B6 |                     | 280 | 277 | 270 | 263 | 254 | 242 | 229 | 216 | 199 | 183 | 167 | 152 | 136 | 113 | 100 | 84 | 63 | 49 | 34 | 17 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

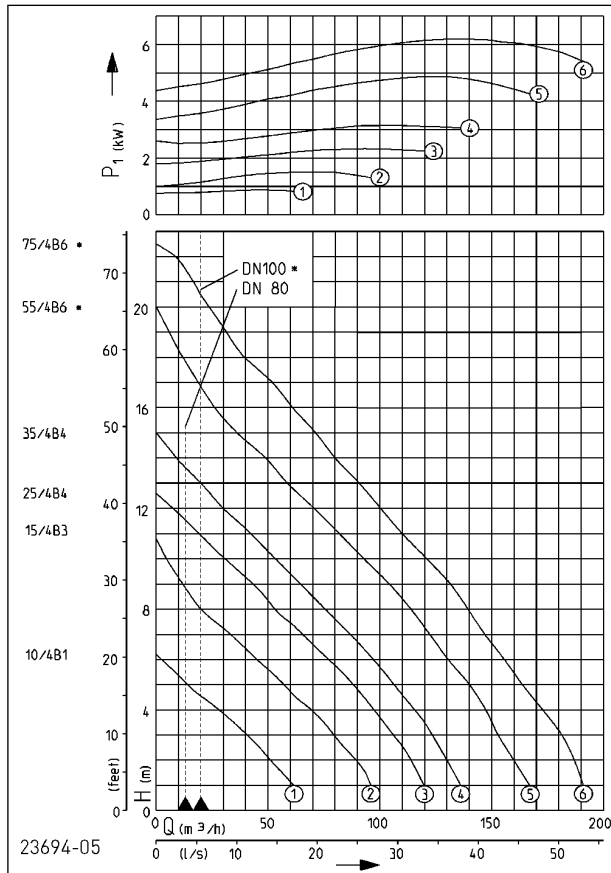
### MULTISTREAM DN 80 / 100, N = 2900 MIN-1

| Type     | Voltage        | Motor rating<br>P1 | Motor rating<br>P2 | Current       | Wires   | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight |
|----------|----------------|--------------------|--------------------|---------------|---------|------|------|-----------------|--------------------|--------|
| 25/2 B1  | 3/PE~400 V     | 2.6 kW             | 2.10 kW            | 4.4 A         | 6G1,5   | 10 A | 40 % | 70 mm           | DN 80              | 45 kg  |
| 35/2 B2  | 3/PE~400 V     | 3.7 kW             | 3.04 kW            | 6.6 A         | 6G1,5   | 10 A | 40 % | 70 mm           | DN 80              | 55 kg  |
| 55/2 B2  | 3/PE~400/690 V | 5.2 kW             | 4.45 kW            | 8.7 A/5.0 A   | 10G2,5  | 16 A | 40 % | 70 mm           | DN 80              | 88 kg  |
| 75/2 B5  | 3/PE~400/690 V | 7.7 kW             | 6.60 kW            | 13.2 A/7.7 A  | 10G2,5  | 20 A | 30 % | 70 mm           | DN 80              | 98 kg  |
| 100/2 B5 | 3/PE~400/690 V | 10.5 kW            | 9.20 kW            | 17.6 A/10.2 A | 10G2,5  | 25 A | 30 % | 70 mm           | DN 80              | 121 kg |
| 200/2 B6 | 3/PE~400/690 V | 17.3 kW            | 15.40 kW           | 28.8 A/16.7 A | 10G2,5  | 35 A | 45 % | 70 mm           | DN 100             | 212 kg |
| 300/2 B6 | 3/PE~400/690 V | 27.0 kW            | 24.45 kW           | 43.0 A/24.7 A | 7G6+3x1 | 50 A | 35 % | 70 mm           | DN 100             | 257 kg |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### PERFORMANCE



| Type      | Code    | Stocked |
|-----------|---------|---------|
| ① 10/4 B1 | JP09620 | AU      |
| ② 15/4 B3 | JP09622 | AU      |
| ③ 25/4 B4 | JP09623 | AU      |
| ④ 35/4 B4 | JP09647 | AU      |
| ⑤ 55/4 B6 | JP00486 | DE      |
| ⑥ 75/4 B6 | JP00489 | AU      |

Additional requirements, see technical data control units

| Type    | Delivery head H [m] | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 14 | 15 | 16 | 17 | 18 | 20 |
|---------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| 10/4 B1 | Flow rate Q [m³/h]  | 60  | 51  | 40  | 28  | 14  | 3   |     |     |     |     |     |     |    |    |    |    |    |    |
| 15/4 B3 |                     | 98  | 89  | 79  | 69  | 57  | 45  | 33  | 20  | 12  | 5   |     |     |    |    |    |    |    |    |
| 25/4 B4 |                     | 120 | 114 | 106 | 97  | 87  | 77  | 65  | 53  | 43  | 31  | 19  |     |    |    |    |    |    |    |
| 35/4 B4 |                     | 132 | 125 | 119 | 112 | 104 | 95  | 85  | 74  | 64  | 53  | 43  | 30  | 10 |    |    |    |    |    |
| 55/4 B6 |                     | 167 | 160 | 154 | 147 | 140 | 132 | 123 | 114 | 104 | 93  | 82  | 72  | 49 | 39 | 28 | 19 | 12 |    |
| 75/4 B6 |                     | 191 | 188 | 181 | 173 | 163 | 157 | 149 | 141 | 131 | 122 | 113 | 104 | 82 | 73 | 62 | 52 | 41 | 24 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

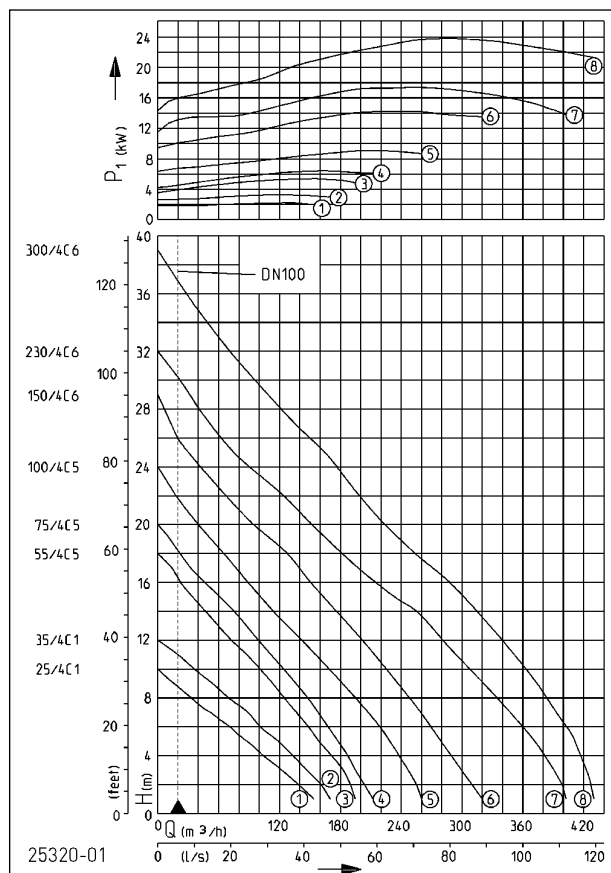
### MULTISTREAM DN 80 / 100, N = 1450 MIN-1

| Type    | Voltage        | Motor rating<br>P1 | Motor rating<br>P2 | Current      | Wires  | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight |
|---------|----------------|--------------------|--------------------|--------------|--------|------|------|-----------------|--------------------|--------|
| 10/4 B1 | 3/PE~400 V     | 0.95 kW            | 0.73 kW            | 2.4 A        | 6G1,5  | 10 A | 50 % | 70 mm           | DN 80              | 45 kg  |
| 15/4 B3 | 3/PE~400 V     | 1.80 kW            | 1.40 kW            | 3.4 A        | 6G1,5  | 10 A | 40 % | 70 mm           | DN 80              | 50 kg  |
| 25/4 B4 | 3/PE~400 V     | 2.70 kW            | 2.04 kW            | 4.6 A        | 6G1,5  | 10 A | 25 % | 70 mm           | DN 80              | 59 kg  |
| 35/4 B4 | 3/PE~400 V     | 3.50 kW            | 2.65 kW            | 6.9 A        | 6G1,5  | 10 A | 25 % | 70 mm           | DN 80              | 62 kg  |
| 55/4 B6 | 3/PE~400/690 V | 5.80 kW            | 4.65 kW            | 10.2 A/5.9 A | 10G2,5 | 16 A | 20 % | 70 mm           | DN 100             | 111 kg |
| 75/4 B6 | 3/PE~400/690 V | 7.20 kW            | 5.90 kW            | 12.8 A/7.4 A | 10G2,5 | 20 A | 25 % | 70 mm           | DN 100             | 116 kg |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### PERFORMANCE



| Type       | Code           | Stocked |
|------------|----------------|---------|
| ① 25/4 C1  | <b>JP09624</b> | AU      |
| ② 35/4 C1  | <b>JP09648</b> | DE      |
| ③ 55/4 C5  | <b>JP09901</b> | DE      |
| ④ 75/4 C5  | <b>JP09904</b> | DE      |
| ⑤ 100/4 C5 | <b>JP09275</b> | DE      |
| ⑥ 150/4 C6 | <b>JP09882</b> | DE      |
| ⑦ 230/4 C6 | <b>JP09885</b> | DE      |
| ⑧ 300/4 C6 | <b>JP09888</b> | DE      |

Additional requirements, see technical data control units

| Type     | Delivery head H [m] | 1   | 3   | 5   | 7   | 9   | 12  | 14  | 16  | 18  | 20  | 23  | 24  | 26  | 27  | 28  | 29  | 30 | 31 | 34 | 37 | 38 |
|----------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| 25/4 C1  | Flow rate Q [m³/h]  | 154 | 122 | 87  | 51  | 16  |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |
| 35/4 C1  |                     | 170 | 146 | 119 | 89  | 54  |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |
| 55/4 C5  |                     | 198 | 181 | 160 | 136 | 112 | 74  | 45  | 22  |     |     |     |     |     |     |     |     |    |    |    |    |    |
| 75/4 C5  |                     | 212 | 195 | 179 | 160 | 138 | 99  | 74  | 46  | 22  |     |     |     |     |     |     |     |    |    |    |    |    |
| 100/4 C5 |                     | 260 | 247 | 228 | 207 | 182 | 142 | 114 | 89  | 65  | 40  | 9   |     |     |     |     |     |    |    |    |    |    |
| 150/4 C6 |                     | 320 | 302 | 280 | 260 | 236 | 202 | 177 | 152 | 126 | 96  | 54  | 43  | 20  | 14  | 8   |     |    |    |    |    |    |
| 230/4 C6 |                     | 405 | 390 | 372 | 344 | 320 | 283 | 255 | 218 | 182 | 155 | 110 | 91  | 62  | 51  | 40  | 32  | 22 | 8  |    |    |    |
| 300/4 C6 |                     | 430 | 421 | 411 | 393 | 374 | 341 | 315 | 289 | 254 | 225 | 188 | 176 | 151 | 135 | 117 | 107 | 95 | 83 | 47 | 19 | 10 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

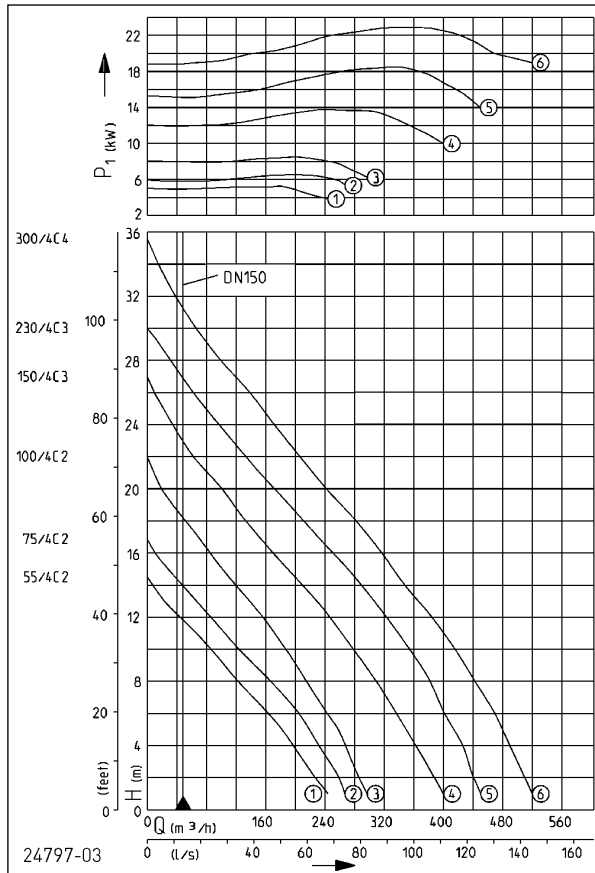
### MULTISTREAM DN 100, N = 1450 MIN-1

| Type     | Voltage        | Motor rating<br>P1 | Motor rating<br>P2 | Current       | Wires   | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight |
|----------|----------------|--------------------|--------------------|---------------|---------|------|------|-----------------|--------------------|--------|
| 25/4 C1  | 3/PE~400 V     | 2.4 kW             | 1.90 kW            | 4.2 A         | 6G1,5   | 10 A | 30 % | 100 mm          | DN 100             | 63 kg  |
| 35/4 C1  | 3/PE~400 V     | 3.5 kW             | 2.65 kW            | 6.9 A         | 6G1,5   | 10 A | 25 % | 100 mm          | DN 100             | 67 kg  |
| 55/4 C5  | 3/PE~400/690 V | 5.8 kW             | 4.65 kW            | 10.2 A/5.9 A  | 10G2,5  | 16 A | 20 % | 100 mm          | DN 100             | 119 kg |
| 75/4 C5  | 3/PE~400/690 V | 7.2 kW             | 5.90 kW            | 12.8 A/7.4 A  | 10G2,5  | 20 A | 25 % | 100 mm          | DN 100             | 124 kg |
| 100/4 C5 | 3/PE~400/690 V | 9.5 kW             | 7.94 kW            | 17.2 A/10.0 A | 10G2,5  | 25 A | 25 % | 100 mm          | DN 100             | 138 kg |
| 150/4 C6 | 3/PE~400/690 V | 15.0 kW            | 13.20 kW           | 26.7 A/15.5 A | 10G2,5  | 35 A | 40 % | 100 mm          | DN 100             | 247 kg |
| 230/4 C6 | 3/PE~400/690 V | 19.3 kW            | 17.00 kW           | 34.1 A/19.8 A | 10G2,5  | 35 A | 35 % | 100 mm          | DN 100             | 275 kg |
| 300/4 C6 | 3/PE~400/690 V | 25.5 kW            | 22.65 kW           | 45.5 A/26.4 A | 7G6+3x1 | 50 A | 25 % | 100 mm          | DN 100             | 296 kg |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### PERFORMANCE



| Type       | Code    | Stocked |
|------------|---------|---------|
| ① 55/4 C2  | JP00487 | DE      |
| ② 75/4 C2  | JP00490 | DE      |
| ③ 100/4 C2 | JP09678 | DE      |
| ④ 150/4 C3 | JP00491 | DE      |
| ⑤ 230/4 C3 | JP00883 | DE      |
| ⑥ 300/4 C4 | JP00493 | DE      |

Additional requirements, see technical data control units

| Type     | Delivery head H [m] | 1   | 3   | 5   | 7   | 9   | 11  | 13  | 15  | 17  | 19  | 20  | 21  | 24  | 25  | 27  | 29 | 30 | 31 | 33 | 34 |
|----------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| 55/4 C2  | Flow rate Q [m³/h]  | 245 | 214 | 184 | 144 | 105 | 62  | 22  |     |     |     |     |     |     |     |     |    |    |    |    |    |
| 75/4 C2  |                     | 270 | 245 | 216 | 185 | 146 | 105 | 64  | 26  |     |     |     |     |     |     |     |    |    |    |    |    |
| 100/4 C2 |                     | 300 | 278 | 258 | 229 | 202 | 167 | 130 | 96  | 65  | 33  | 18  |     |     |     |     |    |    |    |    |    |
| 150/4 C3 |                     | 400 | 373 | 349 | 325 | 295 | 263 | 227 | 192 | 150 | 116 | 100 | 81  | 34  | 21  |     |    |    |    |    |    |
| 230/4 C3 |                     | 455 | 434 | 415 | 394 | 369 | 338 | 308 | 272 | 231 | 191 | 172 | 153 | 98  | 80  | 45  | 17 |    |    |    |    |
| 300/4 C4 |                     | 520 | 500 | 478 | 455 | 426 | 399 | 364 | 334 | 298 | 263 | 242 | 223 | 172 | 157 | 118 | 83 | 66 | 51 | 26 | 15 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

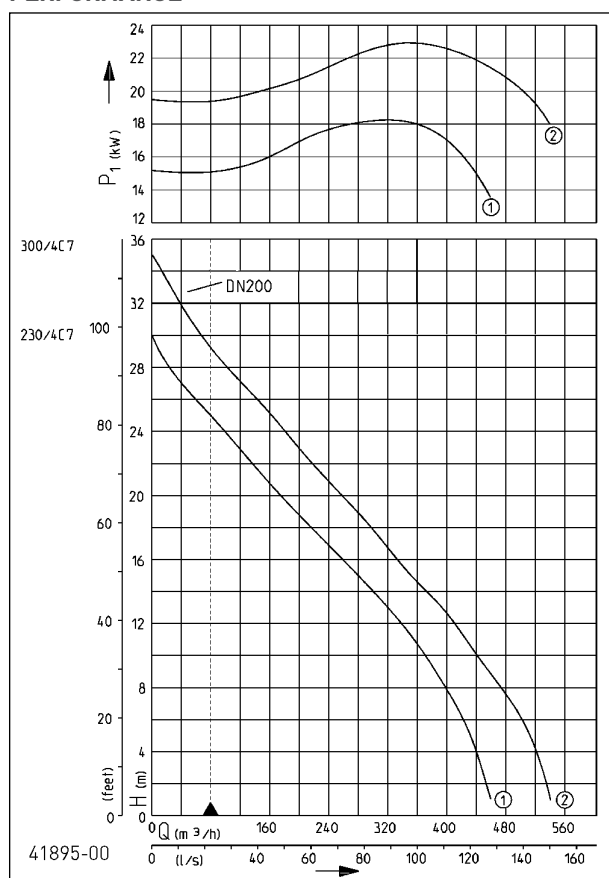
### MULTISTREAM DN 150, N = 1450 MIN-1

| Type     | Voltage        | Motor rating<br>P1 | Motor rating<br>P2 | Current       | Wires   | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight |
|----------|----------------|--------------------|--------------------|---------------|---------|------|------|-----------------|--------------------|--------|
| 55/4 C2  | 3/PE~400/690 V | 5.8 kW             | 4.65 kW            | 10.2 A/5.9 A  | 10G2,5  | 16 A | 20 % | 100 mm          | DN 150             | 125 kg |
| 75/4 C2  | 3/PE~400/690 V | 7.2 kW             | 5.90 kW            | 12.8 A/7.4 A  | 10G2,5  | 20 A | 25 % | 100 mm          | DN 150             | 131 kg |
| 100/4 C2 | 3/PE~400/690 V | 9.5 kW             | 7.94 kW            | 17.2 A/10.0 A | 10G2,5  | 25 A | 25 % | 100 mm          | DN 150             | 149 kg |
| 150/4 C3 | 3/PE~400/690 V | 15.0 kW            | 13.20 kW           | 26.7 A/15.5 A | 10G2,5  | 35 A | 40 % | 100 mm          | DN 150             | 268 kg |
| 230/4 C3 | 3/PE~400/690 V | 19.3 kW            | 17.00 kW           | 34.1 A/19.8 A | 10G2,5  | 35 A | 35 % | 100 mm          | DN 150             | 288 kg |
| 300/4 C4 | 3/PE~400/690 V | 25.5 kW            | 22.65 kW           | 45.5 A/26.4 A | 7G6+3x1 | 50 A | 25 % | 100 mm          | DN 150             | 308 kg |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### PERFORMANCE



| Type       | Code    | Stocked |
|------------|---------|---------|
| ① 230/4 C7 | JP09392 | DE      |
| ② 300/4 C7 | JP09394 | DE      |

Additional requirements, see technical data control units

| Type     | Delivery head H [m] | 1   | 3   | 5   | 7   | 9   | 11  | 13  | 15  | 17  | 19  | 20  | 21  | 24  | 25  | 27  | 29 | 30 | 31 | 33 | 34 |
|----------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| 230/4 C7 | Flow rate Q [m³/h]  | 460 | 443 | 429 | 409 | 387 | 358 | 322 | 282 | 240 | 196 | 177 | 158 | 97  | 78  | 42  | 11 |    |    |    |    |
| 300/4 C7 |                     | 540 | 524 | 509 | 483 | 453 | 427 | 396 | 355 | 318 | 280 | 258 | 238 | 180 | 165 | 126 | 87 | 71 | 54 | 26 | 15 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

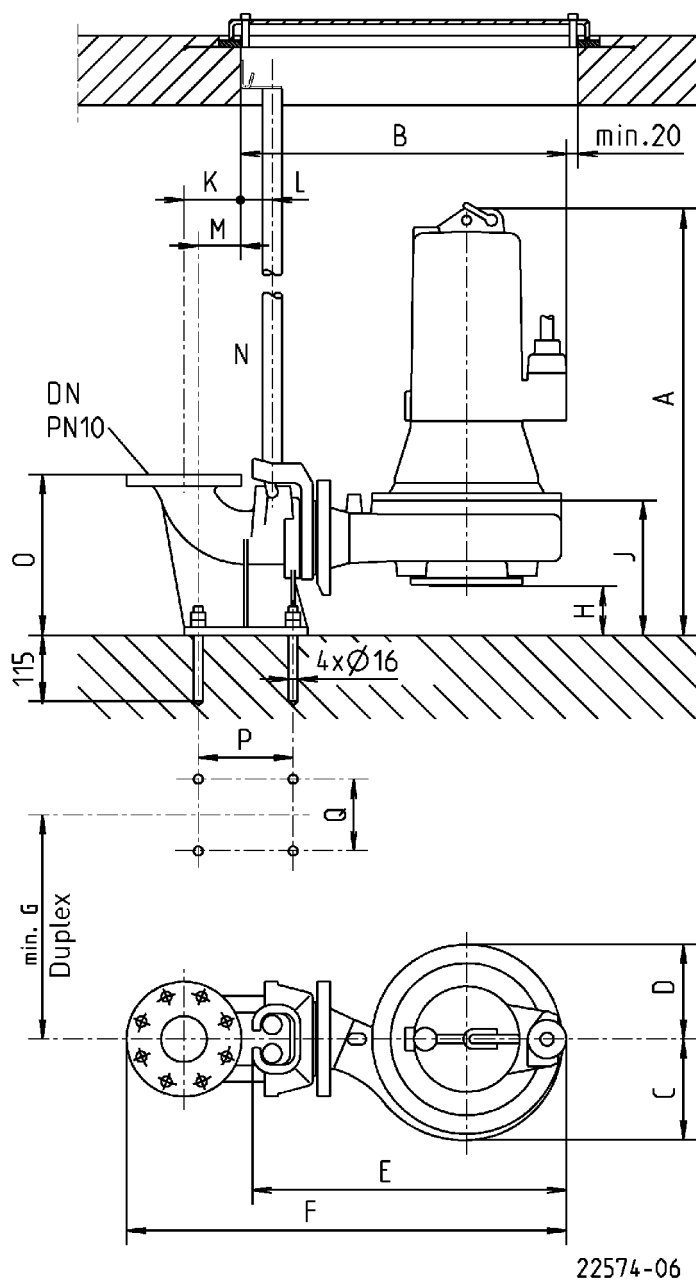
### MULTISTREAM DN 200, N = 1450 MIN-1

| Type     | Voltage        | Motor rating<br>P1 | Motor rating<br>P2 | Current       | Wires   | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight |
|----------|----------------|--------------------|--------------------|---------------|---------|------|------|-----------------|--------------------|--------|
| 230/4 C7 | 3/PE~400/690 V | 19.3 kW            | 17.00 kW           | 34.1 A/19.8 A | 10G2,5  | 35 A | 35 % | 100 mm          | DN 200             | 295 kg |
| 300/4 C7 | 3/PE~400/690 V | 25.5 kW            | 22.65 kW           | 45.5 A/26.4 A | 7G6+3x1 | 50 A | 25 % | 100 mm          | DN 200             | 315 kg |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### Dimensions guide rail system



# MULTISTREAM

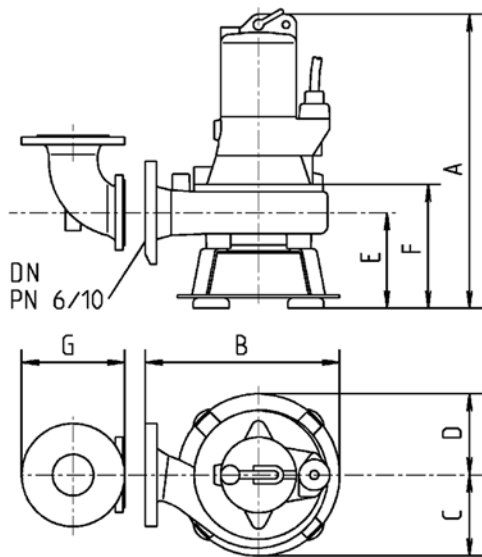
## SINGLE-CHANNEL SEWAGE PUMP

|          | GR   | DN  | A    | B   | C   | D   | E   | F    | G   | H   | J   | K   | L  | M   | N    | O   | P   | Q   |
|----------|------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|----|-----|------|-----|-----|-----|
| 10/2 A1  | 65   | 80  | 510  | 460 | 110 | 105 | 435 | 660  | 390 | 108 | 213 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 15/2 A1  | 65   | 80  | 510  | 460 | 110 | 105 | 435 | 660  | 390 | 108 | 213 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 25/2 A2  | 65   | 80  | 510  | 480 | 130 | 125 | 455 | 680  | 390 | 108 | 220 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 35/2 A2  | 65   | 80  | 545  | 480 | 130 | 125 | 455 | 680  | 390 | 108 | 220 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 25/2 B1  | 80   | 80  | 520  | 475 | 130 | 110 | 455 | 675  | 390 | 95  | 225 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 35/2 B2  | 80   | 80  | 555  | 495 | 145 | 125 | 475 | 695  | 390 | 92  | 225 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 55/2 B2  | 80   | 80  | 680  | 525 | 145 | 125 | 510 | 725  | 390 | 92  | 225 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 75/2 B5  | 80   | 80  | 685  | 565 | 180 | 165 | 550 | 765  | 390 | 85  | 235 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 100/2 B5 | 80   | 80  | 745  | 565 | 180 | 165 | 550 | 765  | 390 | 85  | 235 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 200/2 B6 | 101  | 100 | 910  | 680 | 235 | 190 | 660 | 900  | 480 | 155 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 300/2 B6 | 101  | 100 | 1000 | 680 | 235 | 190 | 660 | 900  | 480 | 155 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 10/4 B1  | 80   | 80  | 520  | 475 | 130 | 110 | 455 | 675  | 390 | 95  | 225 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 15/4 B3  | 80   | 80  | 520  | 490 | 145 | 125 | 470 | 690  | 390 | 95  | 225 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 25/4 B4  | 80   | 80  | 520  | 570 | 190 | 160 | 545 | 770  | 390 | 85  | 225 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 35/4 B4  | 80   | 80  | 555  | 570 | 190 | 160 | 545 | 770  | 390 | 85  | 225 | 100 | 55 | 74  | 1"   | 280 | 165 | 125 |
| 55/4 B6  | 101  | 100 | 765  | 670 | 235 | 190 | 650 | 890  | 480 | 155 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 75/4 B6  | 101  | 100 | 765  | 670 | 235 | 190 | 650 | 890  | 480 | 155 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 25/4 C1  | 100  | 100 | 565  | 570 | 185 | 160 | 550 | 790  | 390 | 95  | 270 | 110 | 55 | 82  | 1"   | 310 | 175 | 150 |
| 35/4 C1  | 100  | 100 | 600  | 570 | 185 | 160 | 550 | 790  | 390 | 95  | 270 | 110 | 55 | 82  | 1"   | 310 | 175 | 150 |
| 55/4 C5  | 101  | 100 | 765  | 645 | 230 | 180 | 625 | 865  | 480 | 125 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 75/4 C5  | 101  | 100 | 765  | 645 | 230 | 180 | 625 | 865  | 480 | 15  | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 100/4 C5 | 101  | 100 | 825  | 645 | 230 | 180 | 625 | 865  | 480 | 125 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 150/4 C6 | 101  | 100 | 910  | 755 | 290 | 250 | 735 | 975  | 580 | 105 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 230/4 C6 | 101  | 100 | 1000 | 755 | 290 | 250 | 735 | 975  | 580 | 105 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 300/4 C6 | 101  | 100 | 1000 | 755 | 290 | 250 | 735 | 975  | 580 | 105 | 315 | 110 | 55 | 82  | 1"   | 345 | 175 | 385 |
| 55/4 C2  | 151S | 150 | 790  | 770 | 260 | 200 | 740 | 1055 | 480 | 150 | 340 | 145 | 80 | 122 | 1.5" | 435 | 260 | 385 |
| 75/4 C2  | 151S | 150 | 790  | 770 | 260 | 200 | 740 | 1055 | 480 | 150 | 340 | 145 | 80 | 122 | 1.5" | 435 | 260 | 385 |
| 100/4 C2 | 151S | 150 | 850  | 770 | 260 | 200 | 740 | 1055 | 480 | 150 | 340 | 145 | 80 | 122 | 1.5" | 435 | 260 | 385 |
| 150/4 C3 | 151  | 150 | 935  | 885 | 325 | 260 | 855 | 1175 | 630 | 130 | 340 | 145 | 80 | 122 | 1.5" | 435 | 260 | 385 |
| 230/4 C3 | 151  | 150 | 1025 | 885 | 325 | 260 | 855 | 1175 | 630 | 130 | 340 | 145 | 80 | 122 | 1.5" | 435 | 260 | 385 |
| 300/4 C4 | 151  | 150 | 1025 | 885 | 325 | 260 | 855 | 1175 | 630 | 130 | 340 | 145 | 80 | 122 | 1.5" | 435 | 260 | 385 |
| 230/4 C7 | 200S | 200 | 1070 | 935 | 325 | 260 | 905 | 1305 | 630 | 175 | 385 | 200 | 80 | 193 | 1.5" | 535 | 350 | 400 |
| 300/4 C7 | 200S | 200 | 1070 | 935 | 325 | 260 | 905 | 1305 | 630 | 175 | 385 | 200 | 80 | 193 | 1.5" | 535 | 350 | 400 |

# MULTISTREAM

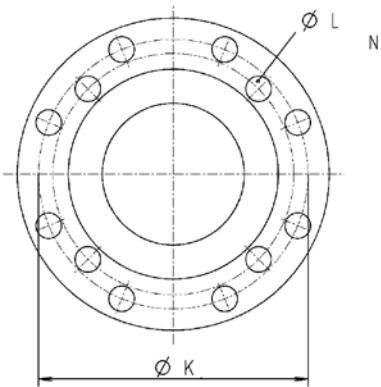
SINGLE-CHANNEL SEWAGE PUMP

Dimensions pump base



22575-05

Discharge outlet



29044

# MULTISTREAM

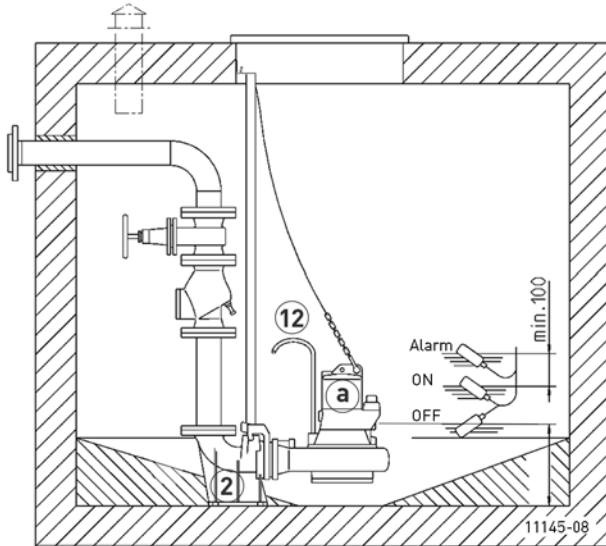
## SINGLE-CHANNEL SEWAGE PUMP

|          | DN  | A    | B   | C   | D   | E   | F   | G   | K       | L     | N   |
|----------|-----|------|-----|-----|-----|-----|-----|-----|---------|-------|-----|
| 10/2 A1  | 65  | 475  | 325 | 110 | 105 | 135 | 175 | 175 | 130/145 | 14/18 | 4   |
| 15/2 A1  | 65  | 475  | 325 | 110 | 105 | 135 | 175 | 175 | 130/145 | 14/18 | 4   |
| 25/2 A2  | 65  | 475  | 345 | 135 | 135 | 135 | 185 | 175 | 130/145 | 14/18 | 4   |
| 35/2 A2  | 65  | 510  | 345 | 135 | 135 | 135 | 185 | 175 | 130/145 | 14/18 | 4   |
| 25/2 B1  | 80  | 530  | 340 | 135 | 135 | 185 | 240 | 200 | 150/160 | 18    | 4   |
| 35/2 B2  | 80  | 570  | 380 | 145 | 135 | 185 | 240 | 200 | 150/160 | 18    | 4/8 |
| 55/2 B2  | 80  | 700  | 395 | 145 | 135 | 185 | 240 | 200 | 150/160 | 18    | 4/8 |
| 75/2 B5  | 80  | 725  | 460 | 195 | 195 | 215 | 280 | 200 | 150/160 | 18    | 4/8 |
| 100/2 B5 | 80  | 785  | 460 | 195 | 195 | 215 | 280 | 200 | 150/160 | 18    | 4/8 |
| 200/2 B6 | 100 | 885  | 535 | 235 | 195 | 210 | 290 | 230 | 170/180 | 18    | 4/8 |
| 300/2 B6 | 100 | 975  | 535 | 235 | 195 | 210 | 290 | 230 | 170/180 | 18    | 4/8 |
| 10/4 B1  | 80  | 530  | 340 | 135 | 135 | 185 | 240 | 200 | 150/160 | 18    | 4/8 |
| 15/4 B3  | 80  | 535  | 380 | 160 | 160 | 185 | 240 | 200 | 150/160 | 18    | 4/8 |
| 25/4 B4  | 80  | 535  | 440 | 190 | 160 | 185 | 240 | 200 | 150/160 | 18    | 4/8 |
| 35/4 B4  | 80  | 570  | 440 | 190 | 160 | 185 | 240 | 200 | 150/160 | 18    | 4/8 |
| 55/4 B6  | 100 | 740  | 520 | 235 | 195 | 210 | 290 | 230 | 170/180 | 18    | 4/8 |
| 75/4 B6  | 100 | 740  | 520 | 235 | 195 | 210 | 290 | 230 | 170/180 | 18    | 4/8 |
| 25/4 C1  | 100 | 600  | 450 | 195 | 195 | 235 | 305 | 230 | 170/180 | 18    | 4/8 |
| 35/4 C1  | 100 | 635  | 450 | 195 | 195 | 235 | 305 | 230 | 170/180 | 18    | 4/8 |
| 55/4 C5  | 100 | 775  | 480 | 230 | 195 | 240 | 320 | 230 | 170/180 | 18    | 4/8 |
| 75/4 C5  | 100 | 775  | 480 | 230 | 195 | 240 | 320 | 230 | 170/180 | 18    | 4/8 |
| 100/4 C5 | 100 | 835  | 480 | 230 | 195 | 240 | 320 | 230 | 170/180 | 18    | 4/8 |
| 150/4 C6 | 100 | 925  | 610 | 290 | 250 | 250 | 330 | 230 | 170/180 | 18    | 4/8 |
| 230/4 C6 | 100 | 1015 | 610 | 290 | 250 | 250 | 330 | 230 | 170/180 | 18    | 4/8 |
| 300/4 C6 | 100 | 1015 | 610 | 290 | 250 | 250 | 330 | 230 | 170/180 | 18    | 4/8 |
| 55/4 C2  | 150 | 770  | 580 | 260 | 215 | 240 | 320 | 320 | 225/240 | 18/22 | 8   |
| 75/4 C2  | 150 | 770  | 580 | 260 | 215 | 240 | 320 | 320 | 225/240 | 18/22 | 8   |
| 100/4 C2 | 150 | 830  | 580 | 260 | 215 | 240 | 320 | 320 | 225/240 | 18/22 | 8   |
| 150/4 C3 | 150 | 925  | 695 | 325 | 260 | 250 | 330 | 320 | 225/240 | 18/22 | 8   |
| 230/4 C3 | 150 | 1015 | 695 | 325 | 260 | 250 | 330 | 320 | 225/240 | 18/22 | 8   |
| 300/4 C4 | 150 | 1015 | 695 | 325 | 260 | 250 | 330 | 320 | 225/240 | 18/22 | 8   |
| 230/4 C7 | 200 | 1015 | 725 | 325 | 260 | 250 | 330 | 0   | 295     | 22    | 8   |
| 300/4 C7 | 200 | 1015 | 725 | 325 | 260 | 250 | 330 | 0   | 295     | 22    | 8   |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### Example of installation guide rail system



Types of operation: Up to 40°C medium temperature  
 Motor submerged: continuous operation S1  
 Motor not submerged intermittent operation S3  
 (e.g. 20% = 2 min operation and 8 min pause)

### MECHANICAL ACCESSORY

|  |                             |                                                  |                             | Code No. |
|--|-----------------------------|--------------------------------------------------|-----------------------------|----------|
|  | <b>② Guide rail system</b>  | GR 65                                            | DN 80, 170x226x280 (AxBxH)  | JP00494  |
|  |                             | GR 80                                            | DN 80, 170x229x280 (AxBxH)  | JP00495  |
|  |                             | GR 100                                           | DN 100, 200x254x310 (AxBxH) | JP00496  |
|  |                             | GR 101                                           | DN 100, 235x254x345 (AxBxH) | JP21037  |
|  |                             | GR 151                                           | DN 150, 260x332x435 (AxBxH) | JP00693  |
|  |                             | GR 200S                                          | DN 200, 305x410x535 (AxBxH) | JP42275  |
|  |                             | DN 80/100/80                                     | 355x480(HxB), PN 10         | JP00202  |
|  |                             | DN 100/100/100                                   | 355x480(HxB), PN 10         | JP00203  |
|  | <b>⑩ Pump base</b>          | A 170, for A1                                    | 76x245 (HxB)                | JP00681  |
|  |                             | A 220, for A2, AW1, AW2                          | 90x295 (HxB)                | JP00682  |
|  |                             | B 170, for B1                                    | 115x280 (HxB)               | JP00683  |
|  |                             | B 220, for B2,B3,B4,BW1                          | 115x315 (HxB)               | JP00684  |
|  |                             | C 275, for B5,B6,C1,C5,BW2,CW3                   | 145x385 (HxB)               | JP00685  |
|  |                             | C 325, for C2,CW2                                | 145x565 (HxB)               | JP00701  |
|  |                             | C 410, for C3,C4,C6,C7                           | 145x650 (HxB)               | JP00702  |
|  | <b>⑪ Flanged connection</b> | A 80 (similar Q-piece 90°), DN 80 PN10/DN 65 PN6 | 130x75 (HxB)                | JP00577  |
|  |                             | B 80 (similar Q-piece 90°), DN 80 PN10/PN6       | 150x100 (HxB)               | JP00578  |
|  |                             | C 100 (similar Q-piece 90°), DN 100 PN10/PN6     | 175x120 (HxB)               | JP00579  |

### MECHANICAL ACCESSORY

|  |                        |          | Code No.          |
|--|------------------------|----------|-------------------|
|  | <b>⑫ Flushing tube</b> | Type I   | 10/... - 45/...   |
|  |                        | Type II  | 55/... - 100/...  |
|  |                        | Type III | 150/... - 300/... |

# MULTISTREAM

## SINGLE-CHANNEL SEWAGE PUMP

### PUMP CONTROLLER

| Type                         | Code no.       | Single pump controller | Dual pump controller | Float switch 10 m | Float switch 15 m | Float switch 20m | Float switch 30 m | Float switch 40 m |
|------------------------------|----------------|------------------------|----------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| <b>Without level control</b> |                |                        |                      |                   |                   |                  |                   |                   |
| 15/2 A1                      | <b>JP09616</b> | PPC-15006-A            | PPC-30030-A          |                   |                   |                  |                   |                   |
| 25/2 A2                      | <b>JP09617</b> | PPC-15006-B            | PPC-30030-B          |                   |                   |                  |                   |                   |
| 35/2 A2                      | <b>JP09651</b> | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 25/2 B1                      | <b>JP09618</b> | PPC-15006-B            | PPC-30030-B          |                   |                   |                  |                   |                   |
| 35/2 B2                      | <b>JP09652</b> | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 55/2 B2                      | <b>JP09663</b> | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 10/4 B1                      | <b>JP09620</b> | PPC-15006-A            | PPC-30030-A          | FSW-10M           | FSW-15M           | FSW-20M          | FSW-30M           | FSW-40M           |
| 15/4 B3                      | <b>JP09622</b> | PPC-15006-A            | PPC-30030-A          |                   |                   |                  |                   |                   |
| 25/4 B4                      | <b>JP09623</b> | PPC-15006-B            | PPC-30030-B          |                   |                   |                  |                   |                   |
| 35/4 B4                      | <b>JP09647</b> | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 75/4 B6                      | <b>JP00489</b> | PPC-15006-D            | PPC-30030-D          |                   |                   |                  |                   |                   |
| 25/4 C1                      | <b>JP09624</b> | PPC-15006-B            | PPC-30030-B          |                   |                   |                  |                   |                   |

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# MULTIFREE

## VORTEX SEWAGE PUMP



- Vortex impeller
- Connection alternatively PN6 or PN10
- Safe to run dry
- Controllable oil chamber
- Plug-in cable connection
- SiC mechanical seal
- Moisture-sealed cable inlet
- Installed motor protection

### DESCRIPTION

The centrifugal submersible sewage pumps MultiFree are suitable for handling effluent or sewage in municipal and industrial pumping stations as well as in surface water drainage applications. The smaller types are also used very successfully as portable units to deal with emergency situations.

The submersible pumps are made with 10 m cable and free lead ends. The through shaft is fully encapsulated against the pumped media and with its short shaft end a long-life span is ensured.

MultiFree sewage pumps are recommended for: effluent that contains fibrous matter prone to matting / effluent that contains solids / abrasive effluent / effluent that contains trapped air or gas / mixed water / raw effluent / raw sludge / surface water / rainwater.

### Key benefits include:

- **Long service life**  
The surface area of the impeller that contacts the abrasive wastewater is relatively small, keeping wear to a minimum.
- **High operational reliability**  
The medium being pumped does not flow through the impeller, so the pumping process is assured, even if the wastewater contains long fibres.
- **Low life cycle costs**  
Reduced maintenance costs because the vortex impeller is insusceptible to twining.
- **Range of accessories**  
Accessories to optimally equip pumps for various applications.

### MECHANICAL DATA

|                     |                                              |
|---------------------|----------------------------------------------|
| Pump                | Vertical single-stage                        |
| Bearing             | Ball bearings, grease-lubricated             |
| Seal on motor side  | Duplex shaft seal, from 55/: mechanical seal |
| Oil chamber         | Yes                                          |
| Seal on medium side | SiC mechanical seal                          |

|                    |                                           |
|--------------------|-------------------------------------------|
| Run dry protection | Yes                                       |
| Impeller           | Vortex impeller, spheroidal graphite iron |
| Motor housing      | Grey cast iron                            |
| Pump housing       | Grey cast iron                            |
| Submersible        | Yes                                       |

### ELECTRICAL DATA

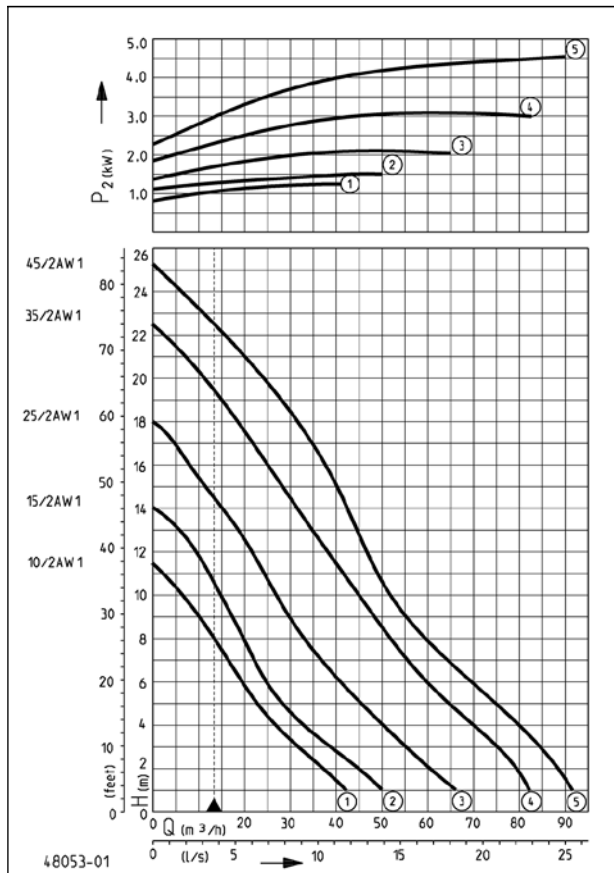
|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

|                    |     |
|--------------------|-----|
| Winding thermostat | Yes |
|--------------------|-----|

# MULTIFREE

## VORTEX SEWAGE PUMP

### PERFORMANCE



| Type       | Code           | Stocked |
|------------|----------------|---------|
| ① 10/2 AW1 | <b>JP47280</b> | AU      |
| ② 15/2 AW1 | <b>JP47278</b> | AU      |
| ③ 25/2 AW1 | <b>JP09149</b> | AU      |
| ④ 35/2 AW1 | <b>JP09151</b> | AU      |
| ⑤ 45/2 AW1 | <b>JP46796</b> | DE      |

Additional requirements, see technical data control units

| Type     | Delivery head H [m] | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
|----------|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 10/2 AW1 | Flow rate Q [m³/h]  | 45 | 37 | 31 | 27 | 22 | 19 | 16 | 13 | 10 | 7  |    |    |    |    |    |    |
| 15/2 AW1 |                     | 50 | 45 | 37 | 33 | 28 | 25 | 22 | 20 | 17 | 15 | 10 |    |    |    |    |    |
| 25/2 AW1 |                     | 68 | 61 | 55 | 51 | 46 | 41 | 37 | 33 | 30 | 27 | 22 | 16 | 9  |    |    |    |
| 35/2 AW1 |                     | 82 | 80 | 76 | 70 | 65 | 59 | 56 | 52 | 48 | 44 | 38 | 32 | 26 | 19 | 11 | 2  |
| 45/2 AW1 |                     | 95 | 90 | 84 | 78 | 75 | 72 | 64 | 60 | 54 | 52 | 46 | 41 | 37 | 30 | 24 | 18 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

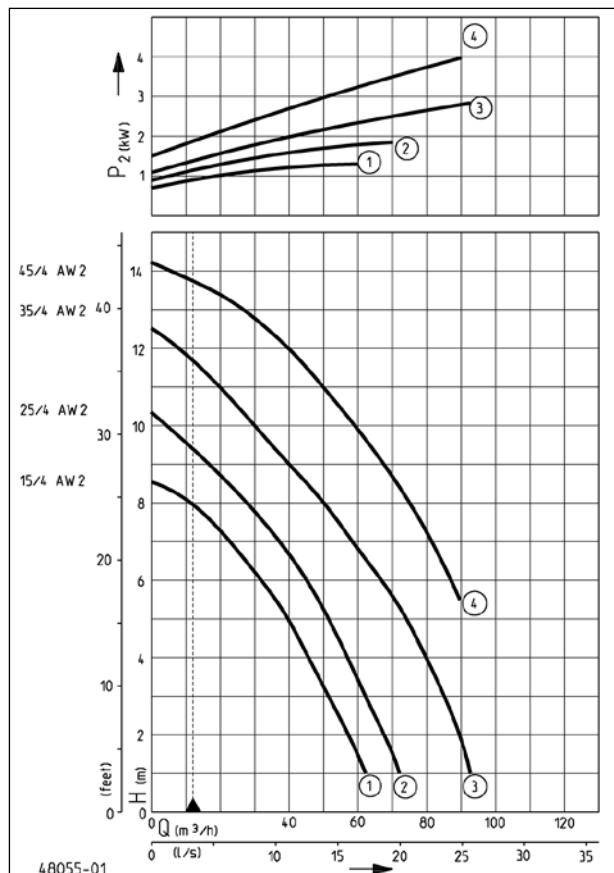
### MULTIFREE DN 65, N = 2900 MIN-1

| Type     | Voltage    | Motor rating<br>P <sub>1</sub> | Motor rating<br>P <sub>2</sub> | Current | Wires | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight |
|----------|------------|--------------------------------|--------------------------------|---------|-------|------|------|-----------------|--------------------|--------|
| 10/2 AW1 | 3/PE~400 V | 1.70 kW                        | 1.40 kW                        | 3.3 A   | 6G1,5 | 10 A | 50 % | 65 mm           | DN 65              | 43 kg  |
| 15/2 AW1 | 3/PE~400 V | 2.10 kW                        | 1.70 kW                        | 3.8 A   | 6G1,5 | 10 A | 45 % | 65 mm           | DN 65              | 43 kg  |
| 25/2 AW1 | 3/PE~400 V | 2.90 kW                        | 2.30 kW                        | 4.9 A   | 6G1,5 | 10 A | 35 % | 65 mm           | DN 65              | 43 kg  |
| 35/2 AW1 | 3/PE~400 V | 4.05 kW                        | 3.34 kW                        | 7.1 A   | 6G1,5 | 10 A | 35 % | 65 mm           | DN 65              | 46 kg  |
| 45/2 AW1 | 3/PE~400 V | 6.00 kW                        | 5.00 kW                        | 9.4 A   | 6G1,5 | 20 A | 20 % | 65 mm           | DN 65              | 51 kg  |

# MULTIFREE

## VORTEX SEWAGE PUMP

### PERFORMANCE



| Type       | Code           | Stocked |
|------------|----------------|---------|
| ① 15/4 AW2 | <b>JP46791</b> | DE      |
| ② 25/4 AW2 | <b>JP46793</b> | DE      |
| ③ 35/4 AW2 | <b>JP46794</b> | DE      |
| ④ 45/4 AW2 | <b>JP46795</b> | DE      |

Additional requirements, see technical data control units

| Type     | Delivery head H [m] | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
|----------|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| 15/4 AW2 | Flow rate Q [m³/h]  | 63 | 57 | 51 | 45 | 39 | 33 | 24 | 13 |    |    |    |    |
| 25/4 AW2 |                     | 73 | 67 | 62 | 57 | 52 | 46 | 38 | 29 | 18 | 6  |    |    |
| 35/4 AW2 |                     | 93 | 89 | 84 | 79 | 73 | 67 | 59 | 50 | 40 | 30 | 9  |    |
| 45/4 AW2 |                     |    |    |    |    |    | 90 | 81 | 75 | 68 | 60 | 41 | 8  |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

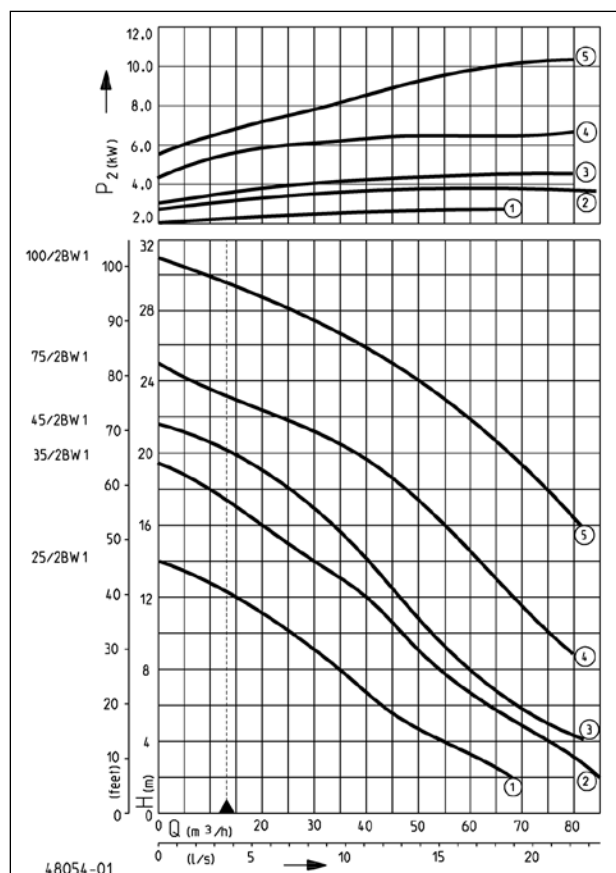
### MULTIFREE DN 65, N = 1450 MIN-1

| Type     | Voltage    | Motor rating<br>P1 | Motor rating<br>P2 | Current | Wires | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight  |
|----------|------------|--------------------|--------------------|---------|-------|------|------|-----------------|--------------------|---------|
| 15/4 AW2 | 3/PE~400 V | 1.8 kW             | 1.40 kW            | 3.5 A   | 6G1,5 | 10 A | 40 % | 65 mm           | DN 65              | 49.0 kg |
| 25/4 AW2 | 3/PE~400 V | 2.7 kW             | 2.00 kW            | 4.6 A   | 6G1,5 | 10 A | 25 % | 65 mm           | DN 65              | 49.5 kg |
| 35/4 AW2 | 3/PE~400 V | 4.2 kW             | 3.18 kW            | 7.8 A   | 6G1,5 | 10 A | 20 % | 65 mm           | DN 65              | 53.0 kg |
| 45/4 AW2 | 3/PE~400 V | 5.6 kW             | 4.30 kW            | 9.8 A   | 6G1,5 | 20 A | 10 % | 65 mm           | DN 65              | 55.0 kg |

# MULTIFREE

## VORTEX SEWAGE PUMP

### PERFORMANCE



| Type        | Code           | Stocked |
|-------------|----------------|---------|
| ① 25/2 BW1  | <b>JP09498</b> | DE      |
| ② 35/2 BW1  | <b>JP09500</b> | AU      |
| ③ 45/2 BW1  | <b>JP46856</b> | AU      |
| ④ 75/2 BW1  | <b>JP46873</b> | DE      |
| ⑤ 100/2 BW1 | <b>JP46871</b> | DE      |

Additional requirements, see technical data control units

| Type      | Delivery head H [m]   | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|-----------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 25/2 BW1  | Flow rate $Q [m^3/h]$ |    | 68 | 62 | 55 | 49 | 43 | 38 | 35 | 31 | 27 | 15 |    |    |    |    |    |    |    |    |    |
| 35/2 BW1  |                       | 90 | 85 | 80 | 74 | 70 | 65 | 60 | 53 | 50 | 47 | 40 | 30 | 20 | 10 |    |    |    |    |    |    |
| 45/2 BW1  |                       |    |    |    | 85 | 78 | 72 | 66 | 61 | 57 | 54 | 46 | 41 | 35 | 27 | 12 |    |    |    |    |    |
| 75/2 BW1  |                       |    |    |    |    |    |    |    |    | 80 | 74 | 65 | 59 | 53 | 46 | 36 | 26 | 12 |    |    |    |
| 100/2 BW1 |                       |    |    |    |    |    |    |    |    |    |    |    |    | 82 | 75 | 67 | 60 | 51 | 40 | 29 | 14 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

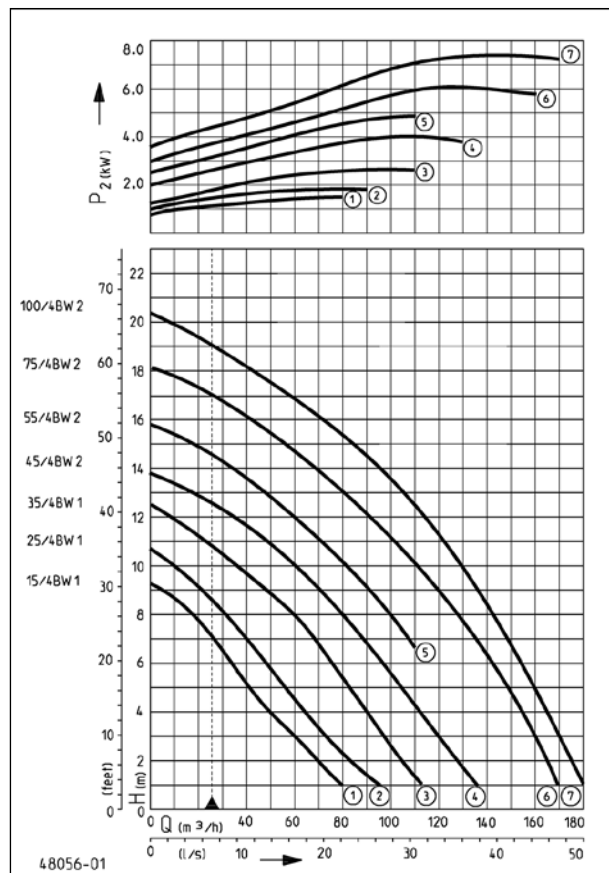
### MULTIFREE DN 80, N = 2900 MIN-1

| Type      | Voltage        | Motor rating |          | Current       | Wires  | Fuse | S3   | Free passage | Pressure outlet | Weight |
|-----------|----------------|--------------|----------|---------------|--------|------|------|--------------|-----------------|--------|
|           |                | P1           | P2       |               |        |      |      |              |                 |        |
| 25/2 BW1  | 3/PE~400 V     | 3.27 kW      | 2.55 kW  | 5.4 A         | 6G1,5  | 10 A | 25 % | 80 mm        | DN 80           | 46 kg  |
| 35/2 BW1  | 3/PE~400 V     | 4.84 kW      | 3.95 kW  | 8.2 A         | 6G1,5  | 10 A | 25 % | 80 mm        | DN 80           | 49 kg  |
| 45/2 BW1  | 3/PE~400 V     | 6.00 kW      | 5.00 kW  | 9.4 A         | 6G1,5  | 20 A | 20 % | 80 mm        | DN 80           | 56 kg  |
| 75/2 BW1  | 3/PE~400/690 V | 8.05 kW      | 6.80 kW  | 9.4 A/7.9 A   | 10G2,5 | 20 A | 25 % | 80 mm        | DN 80           | 96 kg  |
| 100/2 BW1 | 3/PE~400/690 V | 12.20 kW     | 10.70 kW | 21.0 A/12.2 A | 10G2,5 | 25 A | 20 % | 80 mm        | DN 80           | 116 kg |

# MULTIFREE

## VORTEX SEWAGE PUMP

### PERFORMANCE



| Type        | Code           | Stocked |
|-------------|----------------|---------|
| ① 15/4 BW1  | <b>JP09455</b> | DE      |
| ② 25/4 BW1  | <b>JP09456</b> | AU      |
| ③ 35/4 BW1  | <b>JP09457</b> | AU      |
| ④ 45/4 BW2  | <b>JP46858</b> | DE      |
| ⑤ 55/4 BW2  | <b>JP48267</b> | AU      |
| ⑥ 75/4 BW2  | <b>JP46877</b> | DE      |
| ⑦ 100/4 BW2 | <b>JP46875</b> | DE      |

Additional requirements, see technical data control units

| Type      | Delivery head H [m] | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 12  | 14 | 16 | 18 | 20 |
|-----------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| 15/4 BW1  | Flow rate Q [m³/h]  | 80  | 71  | 60  | 50  | 42  | 34  | 27  | 18  | 4   |     |     |    |    |    |    |
| 25/4 BW1  |                     | 95  | 84  | 74  | 64  | 55  | 47  | 40  | 32  | 21  | 9   |     |    |    |    |    |
| 35/4 BW1  |                     | 115 | 107 | 98  | 90  | 82  | 75  | 68  | 59  | 49  | 35  | 10  |    |    |    |    |
| 45/4 BW2  |                     | 138 | 128 | 119 | 110 | 105 | 98  | 90  | 80  | 69  | 57  | 31  |    |    |    |    |
| 55/4 BW2  |                     |     |     |     |     |     |     | 110 | 100 | 93  | 83  | 60  | 34 |    |    |    |
| 75/4 BW2  |                     | 170 | 159 | 152 | 147 | 142 | 136 | 130 | 124 | 117 | 110 | 90  | 67 | 38 | 5  |    |
| 100/4 BW2 |                     | 180 | 176 | 170 | 165 | 160 | 155 | 150 | 145 | 138 | 131 | 116 | 97 | 73 | 44 | 8  |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

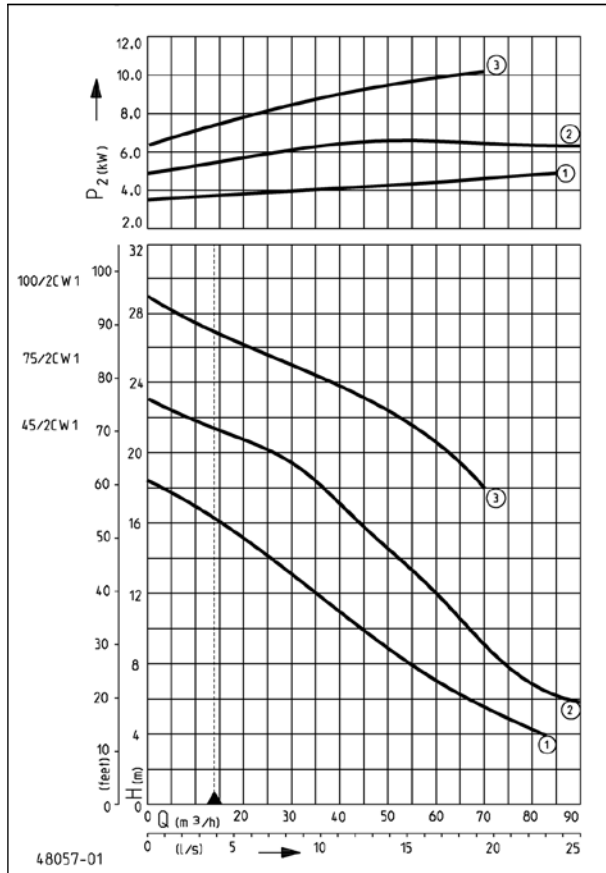
### MULTIFREE DN 80, N = 1450 MIN-1

| Type      | Voltage        | Motor rating<br>P1 | Motor rating<br>P2 | Current       | Wires  | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight |
|-----------|----------------|--------------------|--------------------|---------------|--------|------|------|-----------------|--------------------|--------|
| 15/4 BW1  | 3/PE~400 V     | 2.20 kW            | 1.7 kW             | 4.0 A         | 6G1,5  | 10 A | 35 % | 80 mm           | DN 80              | 47 kg  |
| 25/4 BW1  | 3/PE~400 V     | 2.80 kW            | 2.1 kW             | 4.7 A         | 6G1,5  | 10 A | 25 % | 80 mm           | DN 80              | 47 kg  |
| 35/4 BW1  | 3/PE~400 V     | 4.20 kW            | 3.2 kW             | 7.8 A         | 6G1,5  | 10 A | 20 % | 80 mm           | DN 80              | 51 kg  |
| 45/4 BW2  | 3/PE~400 V     | 5.50 kW            | 4.2 kW             | 9.6 A         | 6G1,5  | 10 A | 10 % | 80 mm           | DN 80              | 73 kg  |
| 55/4 BW2  | 3/PE~400/690 V | 6.39 kW            | 5.1 kW             | 11.0 A/6.4 A  | 10G2,5 | 16 A | 15 % | 80 mm           | DN 80              | 109 kg |
| 75/4 BW2  | 3/PE~400/690 V | 8.25 kW            | 6.7 kW             | 14.2 A/8.2 A  | 10G2,5 | 20 A | 15 % | 80 mm           | DN 80              | 113 kg |
| 100/4 BW2 | 3/PE~400/690 V | 10.00 kW           | 8.4 kW             | 17.6 A/10.2 A | 10G2,5 | 25 A | 20 % | 80 mm           | DN 80              | 136 kg |

# MULTIFREE

## VORTEX SEWAGE PUMP

### PERFORMANCE



| Type        | Code           | Stocked |
|-------------|----------------|---------|
| ① 45/2 CW1  | <b>JP47352</b> | DE      |
| ② 75/2 CW1  | <b>JP46881</b> | DE      |
| ③ 100/2 CW1 | <b>JP46879</b> | DE      |

Additional requirements, see technical data control units

| Type      | Delivery head H [m] | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
|-----------|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 45/2 CW1  | Flow rate Q [m³/h]  | 84 | 74 | 67 | 60 | 54 | 50 | 46 | 38 | 29 | 17 | 5  |    |    |    |    |    |
| 75/2 CW1  |                     |    |    | 95 | 85 | 77 | 71 | 67 | 61 | 55 | 47 | 39 | 28 | 11 |    |    |    |
| 100/2 CW1 |                     |    |    |    |    |    |    |    |    |    |    | 70 | 62 | 52 | 39 | 25 | 9  |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

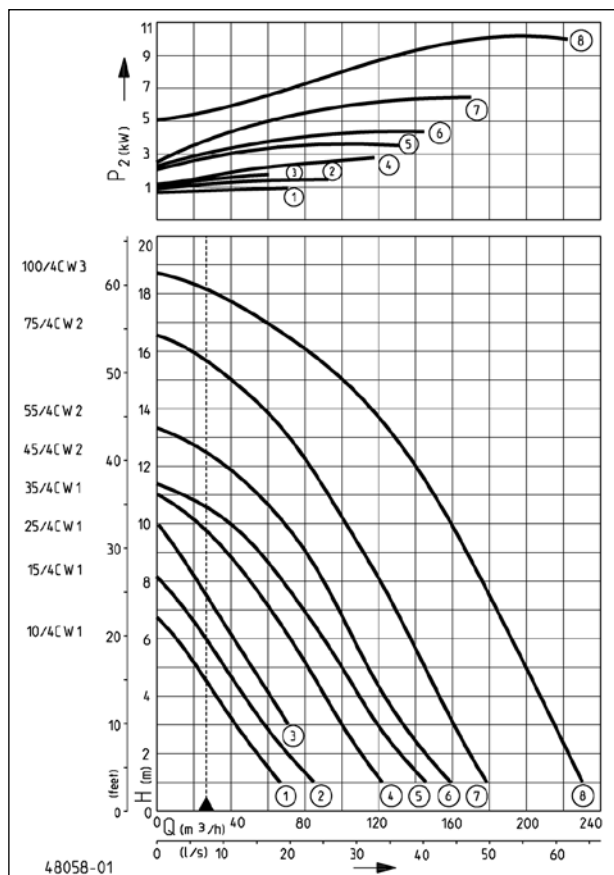
### MULTIFREE DN 100, N = 2900 MIN-1

| Type      | Voltage        | Motor rating<br>P1 | Motor rating<br>P2 | Current       | Wires  | Fuse | S3   | Free<br>passage | Pressure<br>outlet | Weight   |
|-----------|----------------|--------------------|--------------------|---------------|--------|------|------|-----------------|--------------------|----------|
| 45/2 CW1  | 3/PE~400 V     | 6.0 kW             | 5.0 kW             | 9.4 A         | 6G1,5  | 20 A | 20 % | 100 mm          | DN 100             | 51.0 kg  |
| 75/2 CW1  | 3/PE~400/690 V | 8.1 kW             | 6.8 kW             | 13.7 A/7.9 A  | 10G2,5 | 20 A | 25 % | 100 mm          | DN 100             | 98.5 kg  |
| 100/2 CW1 | 3/PE~400/690 V | 12.2 kW            | 10.7 kW            | 21.0 A/12.2 A | 10G2,5 | 25 A | 20 % | 100 mm          | DN 100             | 110.0 kg |

# MULTIFREE

## VORTEX SEWAGE PUMP

### PERFORMANCE



| Type        | Code           | Stocked |
|-------------|----------------|---------|
| ① 10/4 CW1  | <b>JP09610</b> | DE      |
| ② 15/4 CW1  | <b>JP09612</b> | DE      |
| ③ 25/4 CW1  | <b>JP09655</b> | DE      |
| ④ 35/4 CW1  | <b>JP09858</b> | DE      |
| ⑤ 45/4 CW2  | <b>JP47236</b> | DE      |
| ⑥ 55/4 CW2  | <b>JP47372</b> | AU      |
| ⑦ 75/4 CW2  | <b>JP47234</b> | DE      |
| ⑧ 100/4 CW3 | <b>JP47354</b> | DE      |

Additional requirements, see technical data control units

| Type      | Delivery head H [m] | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 12  | 14  | 16 | 18 |
|-----------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 10/4 CW1  | Flow rate Q [m³/h]  | 68  | 51  | 37  | 26  | 15  | 11  |     |     |     |     |     |     |    |    |
| 15/4 CW1  |                     | 85  | 69  | 56  | 46  | 37  | 28  | 18  | 5   |     |     |     |     |    |    |
| 25/4 CW1  |                     |     |     | 70  | 59  | 50  | 41  | 32  | 23  | 11  |     |     |     |    |    |
| 35/4 CW1  |                     | 120 | 112 | 100 | 90  | 81  | 71  | 60  | 48  | 35  | 20  |     |     |    |    |
| 45/4 CW2  |                     | 142 | 130 | 118 | 108 | 98  | 85  | 79  | 68  | 56  | 43  |     |     |    |    |
| 55/4 CW2  |                     | 160 | 145 | 134 | 122 | 109 | 105 | 95  | 88  | 78  | 67  | 37  |     |    |    |
| 75/4 CW2  |                     | 180 | 170 | 162 | 150 | 143 | 136 | 126 | 118 | 109 | 101 | 84  | 58  | 19 |    |
| 100/4 CW3 |                     | 230 | 223 | 216 | 208 | 200 | 193 | 184 | 173 | 168 | 158 | 138 | 116 | 85 | 29 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances.

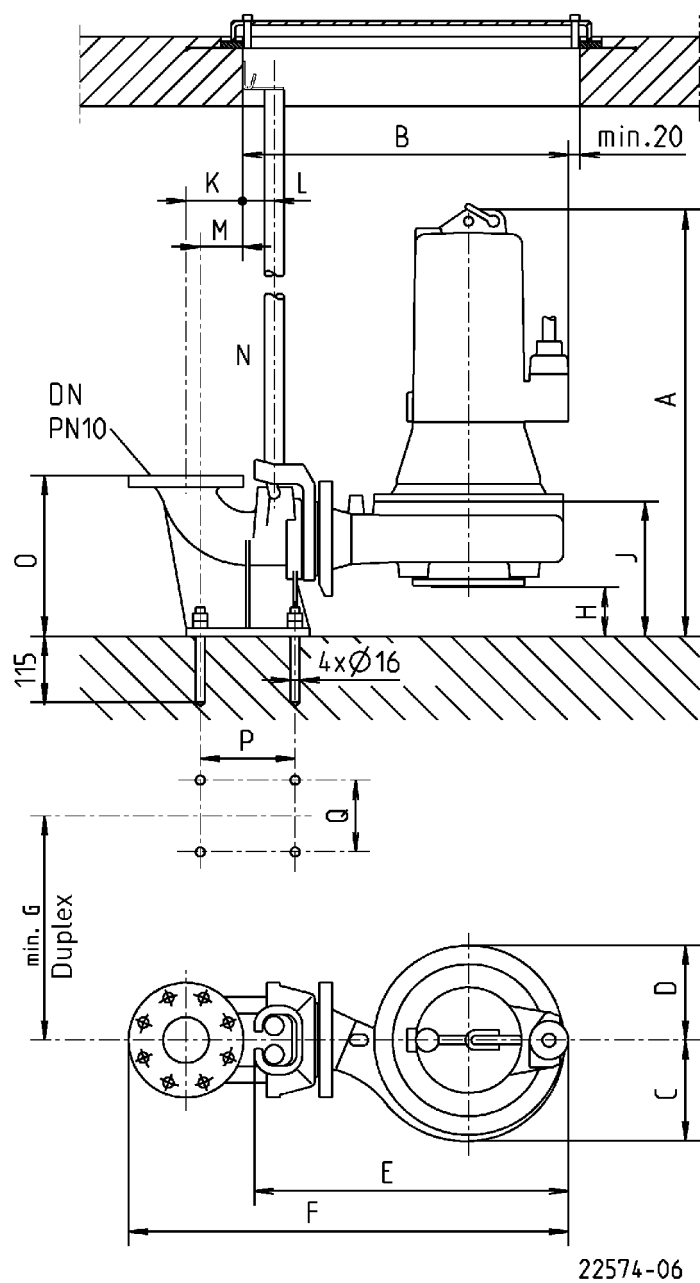
### MULTIFREE DN 100, N = 1450 MIN-1

| Type      | Voltage        | Motor rating |          | Current       | Wires  | Fuse | S3   | Free passage | Pressure outlet | Weight |
|-----------|----------------|--------------|----------|---------------|--------|------|------|--------------|-----------------|--------|
|           |                | P1           | P2       |               |        |      |      |              |                 |        |
| 10/4 CW1  | 3/PE~400 V     | 1.80 kW      | 1.40 kW  | 3.6 A         | 6G1,5  | 10 A | 40 % | 100 mm       | DN 100          | 49 kg  |
| 15/4 CW1  | 3/PE~400 V     | 2.40 kW      | 1.90 kW  | 4.4 A         | 6G1,5  | 10 A | 30 % | 100 mm       | DN 100          | 49 kg  |
| 25/4 CW1  | 3/PE~400 V     | 2.80 kW      | 2.04 kW  | 4.7 A         | 6G1,5  | 10 A | 20 % | 100 mm       | DN 100          | 49 kg  |
| 35/4 CW1  | 3/PE~400 V     | 4.00 kW      | 3.00 kW  | 7.4 A         | 6G1,5  | 10 A | 20 % | 100 mm       | DN 100          | 53 kg  |
| 45/4 CW2  | 3/PE~400 V     | 5.30 kW      | 4.10 kW  | 9.3 A         | 6G1,5  | 20 A | 10 % | 100 mm       | DN 100          | 81 kg  |
| 55/4 CW2  | 3/PE~400/690 V | 6.39 kW      | 5.10 kW  | 11.0 A/6.4 A  | 10G2,5 | 16 A | 15 % | 100 mm       | DN 100          | 113 kg |
| 75/4 CW2  | 3/PE~400/690 V | 8.25 kW      | 6.60 kW  | 14.2 A/8.2 A  | 10G2,5 | 20 A | 15 % | 100 mm       | DN 100          | 117 kg |
| 100/4 CW3 | 3/PE~400/690 V | 12.95 kW     | 10.60 kW | 20.3 A/11.7 A | 10G2,5 | 25 A | 15 % | 100 mm       | DN 100          | 139 kg |

# MULTIFREE

## VORTEX SEWAGE PUMP

Dimensions guide rail system



# MULTIFREE

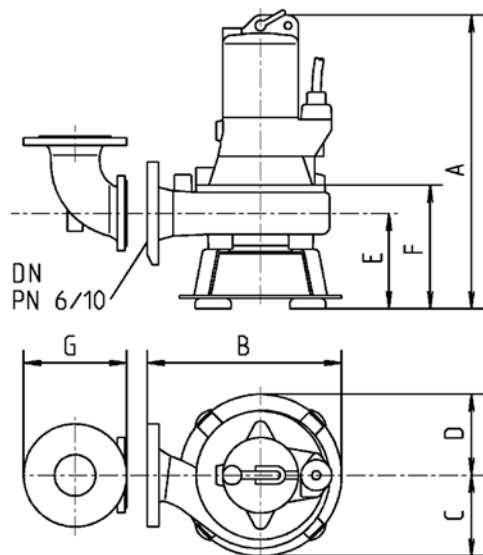
## VORTEX SEWAGE PUMP

|           | GR  | DN  | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | L  | M  | N  | O   | P   | Q   |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|
| 10/2 AW1  | 65  | 80  | 520 | 490 | 130 | 130 | 470 | 690 | 390 | 115 | 220 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 15/2 AW1  | 65  | 80  | 520 | 490 | 130 | 130 | 470 | 690 | 390 | 115 | 220 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 25/2 AW1  | 65  | 80  | 520 | 490 | 130 | 130 | 470 | 690 | 390 | 115 | 220 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 35/2 AW1  | 65  | 80  | 555 | 490 | 130 | 130 | 470 | 690 | 390 | 115 | 220 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 45/2 AW1  | 65  | 80  | 605 | 505 | 130 | 130 | 485 | 705 | 390 | 115 | 225 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 15/4 AW2  | 65  | 80  | 555 | 525 | 140 | 130 | 510 | 725 | 390 | 110 | 260 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 25/4 AW2  | 65  | 80  | 555 | 525 | 140 | 130 | 510 | 725 | 390 | 110 | 260 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 35/4 AW2  | 65  | 80  | 590 | 525 | 140 | 130 | 510 | 725 | 390 | 110 | 260 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 45/4 AW2  | 65  | 80  | 640 | 545 | 140 | 130 | 530 | 745 | 390 | 110 | 260 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 25/2 BW1  | 80  | 80  | 535 | 490 | 140 | 140 | 485 | 705 | 390 | 85  | 235 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 35/2 BW1  | 80  | 80  | 570 | 490 | 140 | 140 | 485 | 705 | 390 | 85  | 235 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 45/2 BW1  | 80  | 80  | 615 | 520 | 140 | 140 | 505 | 725 | 390 | 85  | 235 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 75/2 BW1  | 80  | 80  | 700 | 540 | 140 | 140 | 520 | 740 | 390 | 85  | 235 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 100/2 BW1 | 80  | 80  | 760 | 540 | 140 | 140 | 520 | 740 | 390 | 85  | 235 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 15/4 BW1  | 80  | 80  | 530 | 505 | 140 | 140 | 485 | 705 | 390 | 85  | 235 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 25/4 BW1  | 80  | 80  | 535 | 505 | 140 | 140 | 485 | 705 | 390 | 85  | 235 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 35/4 BW1  | 80  | 80  | 570 | 505 | 140 | 140 | 485 | 705 | 390 | 85  | 235 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 45/4 BW2  | 80  | 80  | 660 | 630 | 200 | 175 | 610 | 830 | 480 | 95  | 280 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 55/4 BW2  | 80  | 80  | 725 | 630 | 200 | 175 | 610 | 830 | 480 | 95  | 280 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 75/4 BW2  | 80  | 80  | 730 | 630 | 205 | 175 | 610 | 830 | 390 | 95  | 280 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 100/4 BW2 | 80  | 80  | 790 | 630 | 205 | 175 | 610 | 830 | 390 | 95  | 280 | 100 | 55 | 74 | 1" | 280 | 165 | 125 |
| 45/2 CW1  | 100 | 100 | 650 | 550 | 140 | 140 | 530 | 775 | 390 | 120 | 270 | 110 | 55 | 82 | 1" | 310 | 175 | 150 |
| 75/2 CW1  | 100 | 100 | 730 | 570 | 140 | 140 | 550 | 795 | 390 | 120 | 270 | 110 | 55 | 82 | 1" | 310 | 175 | 150 |
| 100/2 CW1 | 100 | 100 | 790 | 570 | 140 | 140 | 550 | 795 | 390 | 120 | 270 | 110 | 55 | 82 | 1" | 310 | 175 | 150 |
| 10/4 CW1  | 100 | 100 | 565 | 540 | 140 | 140 | 520 | 760 | 390 | 120 | 270 | 110 | 55 | 82 | 1" | 310 | 175 | 150 |
| 15/4 CW1  | 100 | 100 | 565 | 540 | 140 | 140 | 520 | 760 | 390 | 120 | 270 | 110 | 55 | 82 | 1" | 310 | 175 | 150 |
| 25/4 CW1  | 100 | 100 | 565 | 540 | 140 | 140 | 520 | 760 | 390 | 120 | 270 | 110 | 55 | 82 | 1" | 310 | 175 | 150 |
| 35/4 CW1  | 100 | 100 | 605 | 540 | 140 | 140 | 520 | 760 | 390 | 120 | 270 | 110 | 55 | 82 | 1" | 310 | 175 | 150 |
| 45/4 CW2  | 101 | 100 | 710 | 635 | 195 | 195 | 620 | 860 | 480 | 135 | 330 | 110 | 55 | 82 | 1" | 345 | 175 | 385 |
| 55/4 CW2  | 101 | 100 | 775 | 635 | 195 | 195 | 620 | 860 | 480 | 135 | 330 | 110 | 55 | 82 | 1" | 345 | 175 | 385 |
| 75/4 CW2  | 101 | 100 | 775 | 635 | 195 | 195 | 620 | 860 | 480 | 135 | 330 | 110 | 55 | 82 | 1" | 345 | 175 | 385 |
| 100/4 CW3 | 101 | 100 | 870 | 640 | 215 | 175 | 620 | 865 | 480 | 145 | 360 | 110 | 55 | 82 | 1" | 345 | 175 | 385 |

# MULTIFREE

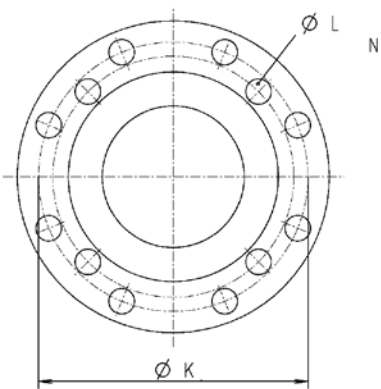
VORTEX SEWAGE PUMP

Dimensions pump base



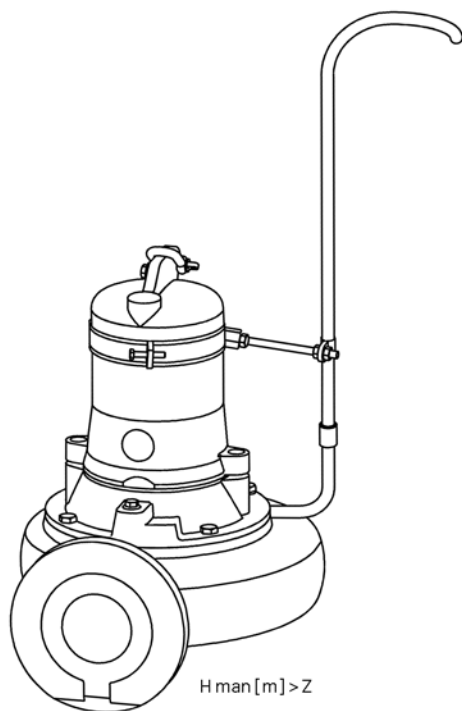
22575-05

Discharge outlet



29044

Minimum flushing tube head (m)

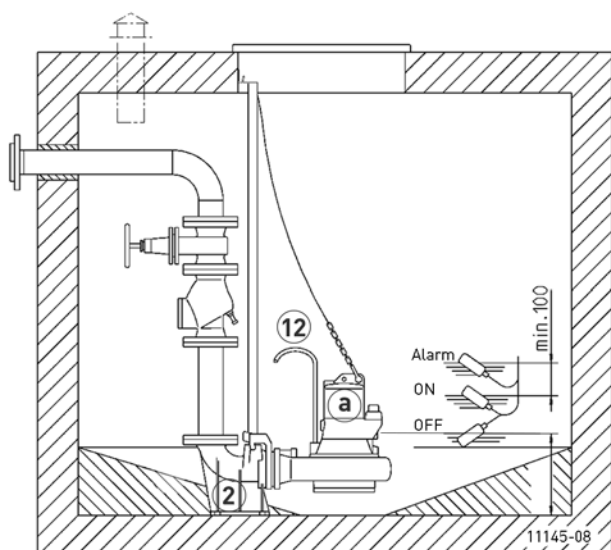


# MULTIFREE

## VORTEX SEWAGE PUMP

|           | DN  | A   | B   | C   | D   | E   | F   | G   | K       | L     | N   | Z  |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|---------|-------|-----|----|
| 10/2 AW1  | 65  | 500 | 375 | 130 | 130 | 150 | 200 | 175 | 130/145 | 14/18 | 4   | 4  |
| 15/2 AW1  | 65  | 500 | 375 | 130 | 130 | 150 | 200 | 175 | 130/145 | 14/18 | 4   | 4  |
| 25/2 AW1  | 65  | 500 | 375 | 130 | 130 | 150 | 200 | 175 | 130/145 | 14/18 | 4   | 4  |
| 35/2 AW1  | 65  | 500 | 375 | 130 | 130 | 150 | 200 | 175 | 130/145 | 14/18 | 4   | 4  |
| 45/2 AW1  | 65  | 580 | 375 | 130 | 130 | 150 | 200 | 175 | 130/145 | 14/18 | 4   | 4  |
| 15/4 AW2  | 65  | 590 | 400 | 140 | 130 | 210 | 295 | 175 | 130/145 | 14/18 | 4   | 4  |
| 25/4 AW2  | 65  | 590 | 400 | 140 | 130 | 210 | 295 | 175 | 130/145 | 14/18 | 4   | 4  |
| 35/4 AW2  | 65  | 625 | 400 | 140 | 130 | 210 | 295 | 175 | 130/145 | 14/18 | 4   | 4  |
| 45/4 AW2  | 65  | 675 | 415 | 140 | 130 | 210 | 295 | 175 | 130/145 | 14/18 | 4   | 4  |
| 25/2 BW1  | 80  | 550 | 390 | 140 | 140 | 195 | 260 | 200 | 150/160 | 18    | 4/8 | 4  |
| 35/2 BW1  | 80  | 585 | 390 | 140 | 140 | 195 | 260 | 200 | 150/160 | 18    | 4/8 | 4  |
| 45/2 BW1  | 80  | 640 | 390 | 140 | 140 | 195 | 260 | 200 | 150/160 | 18    | 4/8 | 4  |
| 75/2 BW1  | 80  | 780 | 410 | 140 | 140 | 195 | 260 | 200 | 150/160 | 18    | 4/8 | 4  |
| 100/2 BW1 | 80  | 780 | 410 | 140 | 140 | 195 | 260 | 200 | 150/160 | 18    | 4/8 | 4  |
| 15/4 BW1  | 80  | 560 | 375 | 140 | 140 | 195 | 260 | 200 | 150/160 | 18    | 4/8 | 4  |
| 25/4 BW1  | 80  | 560 | 375 | 140 | 140 | 195 | 260 | 200 | 150/160 | 18    | 4/8 | 4  |
| 35/4 BW1  | 80  | 595 | 375 | 140 | 140 | 195 | 260 | 200 | 150/160 | 18    | 4/8 | 4  |
| 45/4 BW2  | 80  | 705 | 500 | 200 | 175 | 220 | 330 | 200 | 150/160 | 18    | 4/8 | 10 |
| 55/4 BW2  | 80  | 775 | 500 | 200 | 175 | 220 | 330 | 200 | 150/160 | 18    | 4/8 | 10 |
| 75/4 BW2  | 80  | 775 | 500 | 205 | 175 | 220 | 330 | 200 | 150/160 | 18    | 4/8 | 10 |
| 100/4 BW2 | 80  | 835 | 500 | 205 | 175 | 220 | 330 | 200 | 150/160 | 18    | 4/8 | 10 |
| 45/2 CW1  | 100 | 770 | 405 | 140 | 140 | 220 | 290 | 230 | 170/180 | 18    | 4/8 | 4  |
| 75/2 CW1  | 100 | 750 | 425 | 140 | 140 | 220 | 290 | 230 | 170/180 | 18    | 4/8 | 4  |
| 100/2 CW1 | 100 | 810 | 425 | 140 | 140 | 220 | 290 | 230 | 170/180 | 18    | 4/8 | 4  |
| 10/4 CW1  | 100 | 590 | 390 | 140 | 140 | 220 | 290 | 230 | 170/180 | 18    | 4/8 | 4  |
| 15/4 CW1  | 100 | 590 | 390 | 140 | 140 | 220 | 290 | 230 | 170/180 | 18    | 4/8 | 4  |
| 25/4 CW1  | 100 | 590 | 390 | 140 | 140 | 220 | 290 | 230 | 170/180 | 18    | 4/8 | 4  |
| 35/4 CW1  | 100 | 625 | 390 | 140 | 140 | 220 | 290 | 230 | 170/180 | 18    | 4/8 | 4  |
| 45/4 CW2  | 100 | 720 | 490 | 195 | 195 | 245 | 335 | 230 | 170/180 | 18    | 4/8 | 6  |
| 55/4 CW2  | 100 | 785 | 490 | 195 | 195 | 245 | 335 | 230 | 170/180 | 18    | 4/8 | 6  |
| 75/4 CW2  | 100 | 785 | 490 | 195 | 195 | 245 | 335 | 230 | 170/180 | 18    | 4/8 | 6  |
| 100/4 CW3 | 100 | 870 | 500 | 215 | 175 | 235 | 360 | 230 | 170/180 | 18    | 4/8 | 10 |

### Example of installation guide rail system

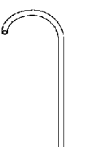


Types of operation: Up to 40°C medium temperature  
 Motor submerged: continuous operation S1  
 Motor not submerged intermittent operation S3  
 (e.g. 20% = 2 min operation and 8 min pause)

# MULTIFREE

## VORTEX SEWAGE PUMP

### MECHANICAL ACCESSORY

|                                                                                   |                      |                                                  |                             | Code No. |
|-----------------------------------------------------------------------------------|----------------------|--------------------------------------------------|-----------------------------|----------|
|  | ② Guide rail system  | GR 65                                            | DN 80, 170x226x280 (AxBxH)  | JP00494  |
|                                                                                   |                      | GR 80                                            | DN 80, 170x229x280 (AxBxH)  | JP00495  |
|                                                                                   |                      | GR 100                                           | DN 100, 200x254x310 (AxBxH) | JP00496  |
|                                                                                   |                      | GR 101                                           | DN 100, 235x254x345 (AxBxH) | JP21037  |
|  | ⑩ Pump base          | A 220, for A2, AW1, AW2                          | 90x295 (HxB)                | JP00682  |
|                                                                                   |                      | B 220, for B2,B3,B4,BW1                          | 115x315 (HxB)               | JP00684  |
|                                                                                   |                      | C 220, for CW1                                   | 145x330 (HxB)               | JP11453  |
|                                                                                   |                      | C 275, for B5,B6,C1,C5,BW2,CW3                   | 145x385 (HxB)               | JP00685  |
|                                                                                   |                      | C 325, for C2,CW2                                | 145x565 (HxB)               | JP00701  |
|  | ⑪ Flanged connection | A 80 (similar Q-piece 90°), DN 80 PN10/DN 65 PN6 | 130x75 (HxB)                | JP00577  |
|                                                                                   |                      | B 80 (similar Q-piece 90°), DN 80 PN10/PN6       | 150x100 (HxB)               | JP00578  |
|                                                                                   |                      | C 100 (similar Q-piece 90°), DN 100 PN10/PN6     | 175x120 (HxB)               | JP00579  |
|  | ⑫ Flushing tube      | Type I                                           | 10/... - 45/...             | JP28221  |
|                                                                                   |                      | Type II                                          | 55/... - 100/...            | JP28222  |

### PUMP CONTROLLER

| Type                  | Code no. | Single pump controller | Dual pump controller | Float switch 10 m | Float switch 15 m | Float switch 20m | Float switch 30 m | Float switch 40 m |
|-----------------------|----------|------------------------|----------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| Without level control |          |                        |                      |                   |                   |                  |                   |                   |
| 10/2 AW1              | JP47280  | PPC-15006-A            | PPC-30030-A          |                   |                   |                  |                   |                   |
| 15/2 AW1              | JP47278  | PPC-15006-A            | PPC-30030-A          |                   |                   |                  |                   |                   |
| 25/2 AW1              | JP09149  | PPC-15006-B            | PPC-30030-B          |                   |                   |                  |                   |                   |
| 35/2 AW1              | JP09151  | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 35/2 BW1              | JP09500  | PPC-15006-C            | PPC-30030-C          | FSW-10M           | FSW-15M           | FSW-20M          | FSW-30M           | FSW-40M           |
| 25/4 BW1              | JP09456  | PPC-15006-B            | PPC-30030-B          |                   |                   |                  |                   |                   |
| 35/4 BW1              | JP09457  | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 45/2 BW1              | JP46856  | PPC-15006-C            | PPC-30030-C          |                   |                   |                  |                   |                   |
| 55/4 BW2              | JP48267  | PPC-15006-D            | PPC-30030-D          |                   |                   |                  |                   |                   |
| 55/4 CW2              | JP47372  | PPC-15006-D            | PPC-30030-D          |                   |                   |                  |                   |                   |

# PRIOX DRENA-LINE

## VORTEX SEWAGE PUMP

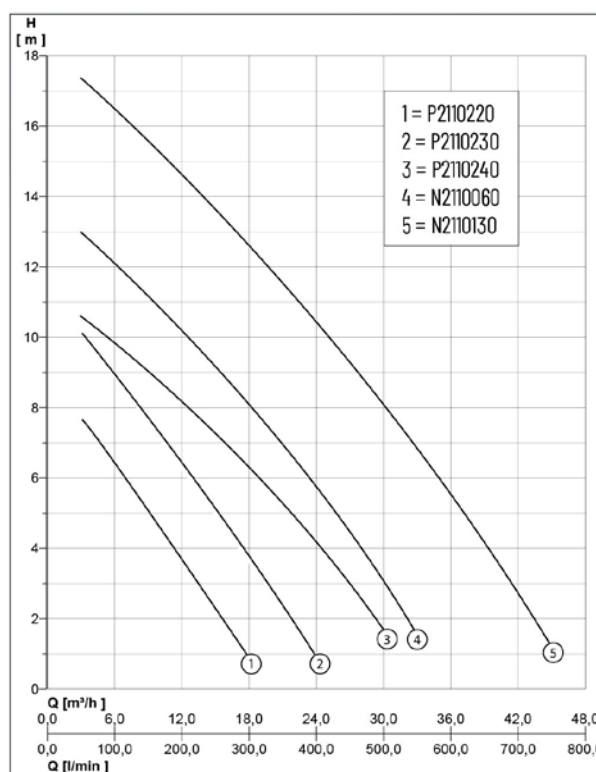
- AISI 304
- 50mm free passage
- Vortex impeller
- Automatic float for single phase models
- Hmax to 18 m
- Qmax to 800 LPM
- Fluid temperature 40 °C
- 7 m max. submersion



### DESCRIPTION

Prix series pumps are made completely from high grade stainless steel AISI 304. They operate completely immersed in the liquid to be pumped which provides for the cooling of the motor from the outside. Made with a retreated impeller on the principle of vortex operation. Single phase versions are equipped with a float switch for automatic operation and a built-in thermal overload for effective protection against overload. Designed for pumping sewage and wastewater containing particles up to 50mm in diameter.

### PERFORMANCE



| Type         | Delivery head H [m] | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 14   | 16  |
|--------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 500/11 M AUT | Flow rate Q [m³/h]  | 29.1 | 26.8 | 24.3 | 21.5 | 18.8 | 15.8 | 12.5 | 9.0  | 5.5  |      |      |      |     |
| 600/13 T     |                     | 32.1 | 30.0 | 28.0 | 25.5 | 23.2 | 20.5 | 18.2 | 15.1 | 12.5 | 9.7  | 6.3  |      |     |
| 800/18 T     |                     |      |      | 39.0 | 36.9 | 34.8 | 31.0 | 30.0 | 27.5 | 25.0 | 22.8 | 19.9 | 14.0 | 7.8 |

We reserve the right to change specifications without notice.

This data is represented in the performance curve as a limit of application.

# PRIOX

## VORTEX SEWAGE PUMP

### SCOPE OF SUPPLY

Pump ready for connection with 10 m cable (single phase with 3 flat-pin ANZ plug and automatic level float switch).

### MECHANICAL DATA

|                 |                                                |
|-----------------|------------------------------------------------|
| Pump            | Vertical single-stage                          |
| Free passage    | 50 mm                                          |
| Bearing         | Self-lubricating ball bearings                 |
| Oil chamber     | Yes                                            |
| Mechanical seal | Silicon carbide<br>(lubricated in oil chamber) |
| Shaft           | Stainless steel (AISI 304)                     |

|                  |                            |
|------------------|----------------------------|
| Impeller         | Stainless steel (AISI 304) |
| Motor housing    | Stainless steel (AISI 304) |
| Pump housing     | Stainless steel (AISI 304) |
| Submersible      | Yes                        |
| Pressure outlet  | 2" MI                      |
| Temperature max. | 40°C                       |
| Max. submergence | 7 m                        |

### ELECTRICAL DATA

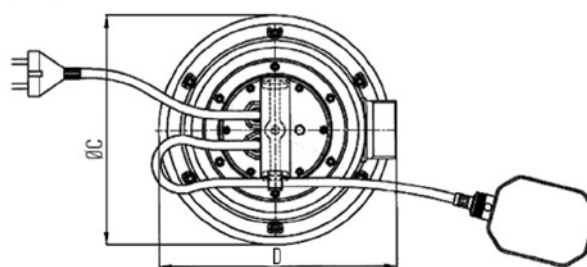
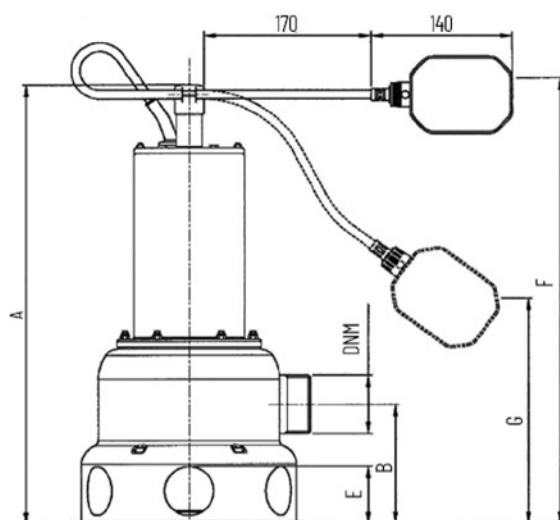
|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

|                  |      |
|------------------|------|
| Insulation class | F    |
| Rotation speed   | 2850 |

### PRIOX

| Type                        | Code No. | Voltage      | Motor rating (kW) |     | Current (A) | Free passage (mm) | Weight  |
|-----------------------------|----------|--------------|-------------------|-----|-------------|-------------------|---------|
|                             |          |              | P1                | P2  |             |                   |         |
| With built-in level control |          |              |                   |     |             |                   |         |
| PRIOX 500/11 M AUT          | P2110240 | 1/N/PE~230 V | 1.55              | 1   | 7           | 50                | 11.7 kg |
| Without level control       |          |              |                   |     |             |                   |         |
| PRIOX 600/13 T              | N2110060 | 3/N/PE~400 V | 1.8               | 1.2 | 3.1         | 50                | 12.6 kg |
| PRIOX 800/18 T              | N2110130 | 3/N/PE~400 V | 3                 | 2.4 | 5.5         | 50                | 20.2 kg |

### Dimensions and switching points PRIOX (mm)



| Type               | A   | B     | C   | D   | E  | F   | G   | DNM |
|--------------------|-----|-------|-----|-----|----|-----|-----|-----|
| PRIOX 500/11 M AUT | 450 | 122,5 | 235 | 249 | 63 | 550 | 290 | 2"  |
| PRIOX 600/13 T     | 450 | 122,5 | 235 | 249 | 63 | -   | -   | 2"  |
| PRIOX 800/18 T     | 485 | 122,5 | 235 | 249 | 63 | -   | -   | 2"  |

# PRIOX

## VORTEX SEWAGE PUMP

| Type                               | Code no.        | Single pump controller | Dual pump controller | Float switch 10 m | Float switch 15 m | Float switch 20m | Float switch 30 m | Float switch 40 m |
|------------------------------------|-----------------|------------------------|----------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| <b>With built-in level control</b> |                 |                        |                      |                   |                   |                  |                   |                   |
| PRIOX 500/11 M AUT                 | <b>P2110240</b> | PPC-15002-D            | PPC-30010-D          | FSW-10M           | FSW-15M           | FSW-20M          | FSW-30M           | FSW-40M           |
| <b>Without level control</b>       |                 |                        |                      |                   |                   |                  |                   |                   |
| PRIOX 600/13 T                     | <b>N2110060</b> | PPC-15006-A            | PPC-30030-A          | FSW-10M           | FSW-15M           | FSW-20M          | FSW-30M           | FSW-40M           |
| PRIOX 800/18 T                     | <b>N2110130</b> | PPC-15006-B            | PPC-30030-B          | FSW-10M           | FSW-15M           | FSW-20M          | FSW-30M           | FSW-40M           |

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# CSM240 / CSM500

## VORTEX SEWAGE PUMP

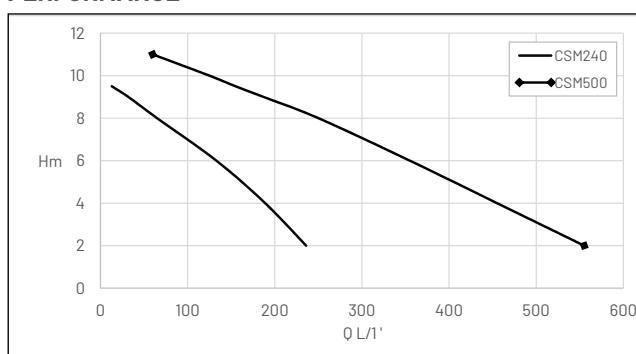
- Heavy duty construction
- Up to 35 mm free passage
- Vortex impeller
- Automatic float for single phase models
- Hmax to 13 m
- Qmax to 600 LPM
- 3 models available



### DESCRIPTION

The CSM range of vortex impeller submersible pumps are made from heavy duty cast iron and high grade stainless steel. They operate completely immersed in the liquid to be pumped which provides for the cooling of the motor from the outside. Single phase versions are equipped with a float switch for automatic operation and a built-in auto-cut protector (CSM240: thermal). Designed for pumping sewage wastewater and ground water containing particles up to 35 mm in diameter.

### PERFORMANCE



| Type        | Delivery head H [m]             | 2    | 4    | 6    | 8    | 10 |
|-------------|---------------------------------|------|------|------|------|----|
| CSM240VF    | Flow rate Q [m <sup>3</sup> /h] | -    | 13.3 | 9.0  | 3.6  | -  |
| CSM500V F/T |                                 | 32.0 | 27.0 | 22.5 | 17.6 | 12 |

We reserve the right to change specifications without notice.

This data is represented in the performance curve as a limit of application.

### SCOPE OF SUPPLY

Pump ready for connection with 2 bolt flange connection [2" CSM240 / 3" CSM500], respective flange adaptor to FI BSP and hose connector [2" CSM240 / 3" CSM500], cable and plug (single phase models), and automatic level float switch (single phase models).

### MECHANICAL DATA

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Pump            | Vertical single-stage                               |
| Free passage    | 35 / 30 mm                                          |
| Bearing         | Self-lubricating ball bearings                      |
| Oil chamber     | Yes                                                 |
| Mechanical seal | Double mechanical seals (lubricated in oil chamber) |
| Shaft           | Stainless steel                                     |

|                  |                 |
|------------------|-----------------|
| Impeller         | Cast iron       |
| Motor housing    | Stainless steel |
| Pump housing     | Cast iron       |
| Submersible      | Yes             |
| Temperature max. | 40°C            |

### ELECTRICAL DATA

|                   |             |
|-------------------|-------------|
| Power line        | 10m H07RN-F |
| Type of enclosure | IP 68       |

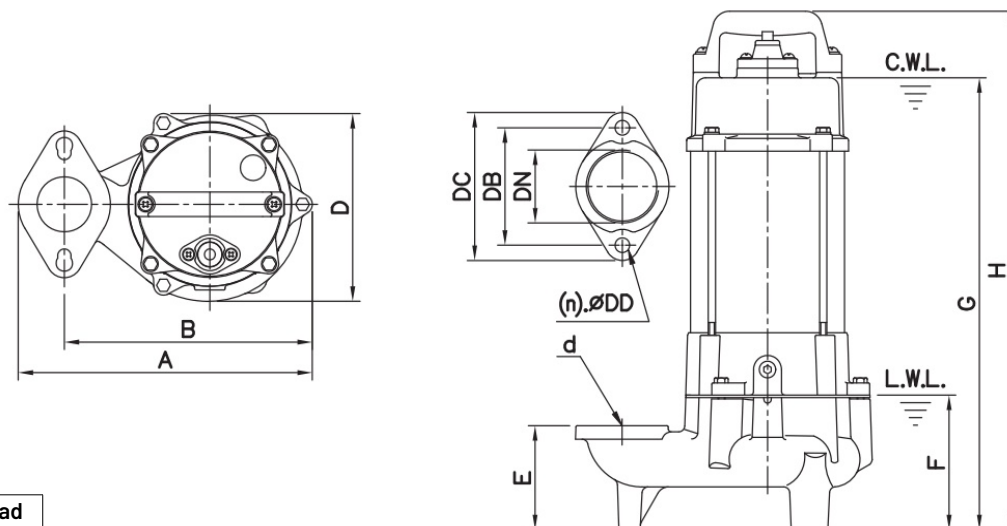
|                  |      |
|------------------|------|
| Insulation class | F    |
| Rotation speed   | 2850 |

| Type                               | Code No.        | Voltage      | Motor rating (kW)<br>P2 | Current<br>(A) | Starting | Start<br>cap. | Run cap. | Free<br>passage (mm) | Weight |
|------------------------------------|-----------------|--------------|-------------------------|----------------|----------|---------------|----------|----------------------|--------|
| <b>With built-in level control</b> |                 |              |                         |                |          |               |          |                      |        |
| CSM240VF                           | <b>CSM240VF</b> | 1/N/PE~230 V | 0.4                     | 3.3            | PSC      | 8µF           | -        | 35                   | 17 kg  |
| CSM500VF                           | <b>CSM500VF</b> | 1/N/PE~230 V | 0.75                    | 5.2            | PSC      | 12µF          | -        | 30                   | 19 kg  |
| <b>Without level control</b>       |                 |              |                         |                |          |               |          |                      |        |
| CSM500VT                           | <b>CSM500VT</b> | 3/N/PE~415 V | 0.75                    | 1.9            | DOL      | -             | -        | 30                   | 18 kg  |

PSC: Permanently Split Capacitor CS/CR: Capacitor Start/Capacitor Run (centrifugal switch)

DOL: Direct On Line

### Dimensions CSM240 (mm)



| Female Thread |     |
|---------------|-----|
| PF            | NPT |

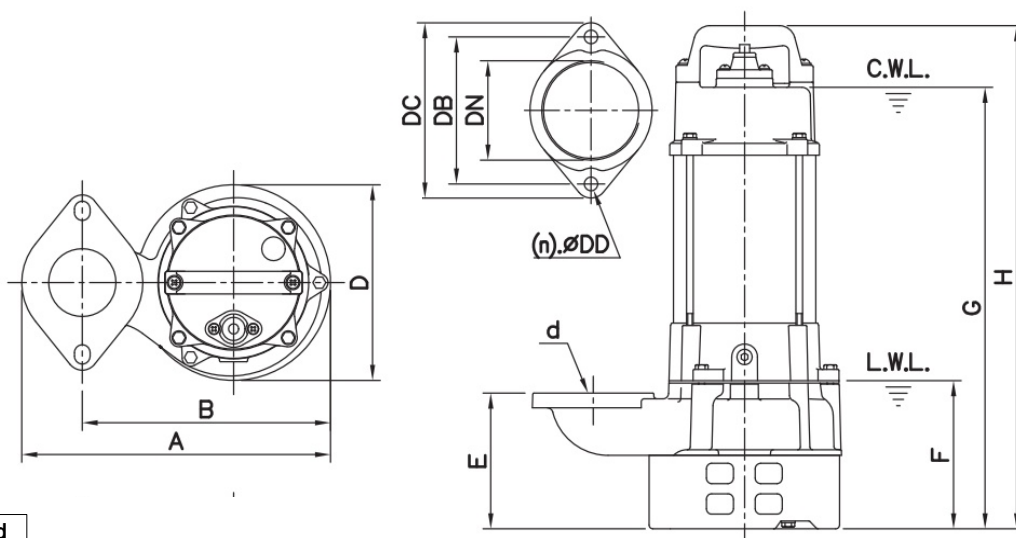
| Model    | d  | A   | B   | D   | E  | F   | G   | H   | WT1 | DN | DB | DC  | DD |
|----------|----|-----|-----|-----|----|-----|-----|-----|-----|----|----|-----|----|
| CSM240VF | 50 | 243 | 205 | 154 | 85 | 370 | 370 | 424 | 16  | 50 | 96 | 121 | 12 |

C.W.L.: Continuous Running Water Level L.W.L.: Lowest Running Water Level

# CSM

## VORTEX SEWAGE PUMP

### Dimensions CSM500 (mm)



| Female Thread |     |
|---------------|-----|
| PF            | NPT |

| Model    | d  | A   | B   | D   | E   | F   | G   | H   | WT1 | Elbow<br>(Flange Set) | DN | DB  | DC  | DD |
|----------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|----|-----|-----|----|
| CSM500VF | 80 | 276 | 222 | 173 | 120 | 131 | 391 | 445 | 18  | EF3-130               | 80 | 130 | 155 | 12 |
| CSM500VT | 80 | 276 | 222 | 173 | 120 | 131 | 391 | 445 | 17  | EF3-130               | 80 | 130 | 155 | 12 |

C.W.L.: Continuous Running Water Level L.W.L.: Lowest Running Water Level

### PUMP CONTROLLER

| Type                        | Code no.        | Single pump<br>controller | Dual pump<br>controller | Float<br>switch 10 m | Float<br>switch 15 m | Float<br>switch 20 m | Float<br>switch 30 m | Float<br>switch 40 m |
|-----------------------------|-----------------|---------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| With built-in level control |                 |                           |                         |                      |                      |                      |                      |                      |
| CSM240VF                    | <b>CSM240VF</b> | PPC-15002-B               | PPC-30010-B             | FSW-10M              | FSW-15M              | FSW-20M              | FSW-30M              | FSW-40M              |
| CSM500VF                    | <b>CSM500VF</b> | PPC-15002-B               | PPC-30010-B             |                      |                      |                      |                      |                      |
| Without level control       |                 |                           |                         |                      |                      |                      |                      |                      |
| CSM500VT                    | <b>CSM500VT</b> | PPC-15006-A               | PPC-30030-A             | FSW-10M              | FSW-15M              | FSW-20M              | FSW-30M              | FSW-40M              |

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# PPC

## CONTROL UNITS

- Single and dual pump control
- Auto alternating pump start and maximum run time feature
- Provision for 4 digital and 1 analogue input
- Anti seize/freeze feature for low/seasonal applications
- Delayed start and minimum run time feature
- Optional 'time out' manual pump mode, automatic reset to auto
- Lockable mains power isolation switch
- Lamp, strobe and buzzer test feature
- Level alarm delay feature to avoid nuisance tripping
- Maximum idle time feature



- Smart 'auto silencing' and 'chirp mode' audible alarm
- Delayed standby pump start, avoids two pumps starting at once
- No flow/pressure - inbuilt timer feature

### DESCRIPTION

Pentair Pump Controllers are compatible with the Jung MultiCut, MultiFree and MultiStream range as well as the PrioX and Pentair CSM range. PPC matched with compatible pumps and their accessories provide a complete solution to a wide range of fixed applications. These control units offer automatic alternating pump start, an anti seize/ freeze feature that makes them ideal in low usage or seasonal pumping applications where long standby times between operations may occur. Other features include a delayed start and minimum run time, plus a lamp, strobe and buzzer test feature with a level alarm delay feature to avoiding nuisance tripping. The mains power is also lockable and equipped with an isolation switch.

This range is for the control of pumps used in sewage pits, stormwater, recycled water, circulator pumps, constant pressure systems and transfer pumping.

### ENCLOSURE TYPE

| Type  | Material         | Wall thickness | Coating                | Colour   | External door lock | Mounting plate          |
|-------|------------------|----------------|------------------------|----------|--------------------|-------------------------|
| 42431 | Mild steel sheet | 1.5 mm         | Epoxy polyester powder | RAL 7035 | Yes                | 1.8 mm galvanised plate |

We reserve the right to change specifications without notice.

# PPC

## CONTROL UNITS

### SCOPE OF SUPPLY

Powder coated metal enclosures with galvanised steel mounting plate. Single lockable door with mains isolator and keypad interface. Contains visual and audible alarm.

### SINGLE PUMP CONTROL

| Code No.     | Phases | Voltage | Overload rating (A) | Contactor rating (A) | IP rating |
|--------------|--------|---------|---------------------|----------------------|-----------|
| PPC-15002-B  | 1      | 240     | 4-6                 | 18                   | IP54      |
| PPC-15002-D  | 1      | 240     | 9-13                | 18                   | IP54      |
| PPC-15005-M  | 1      | 240     | 18                  | 18                   | IP65      |
| PPC-15006-A  | 3      | 415     | 2.5-4               | 18                   | IP54      |
| PPC-15006-B  | 3      | 415     | 4-6                 | 18                   | IP54      |
| PPC-15006-C  | 3      | 415     | 6-10                | 18                   | IP54      |
| PPC-15006-D  | 3      | 415     | 9-13                | 18                   | IP54      |
| PPC-15007-M  | 3      | 415     | 18                  |                      | IP65      |
| PPC-15025-D* | 1      | 240     | 9-13                |                      | IP54      |

\*With start capacitor

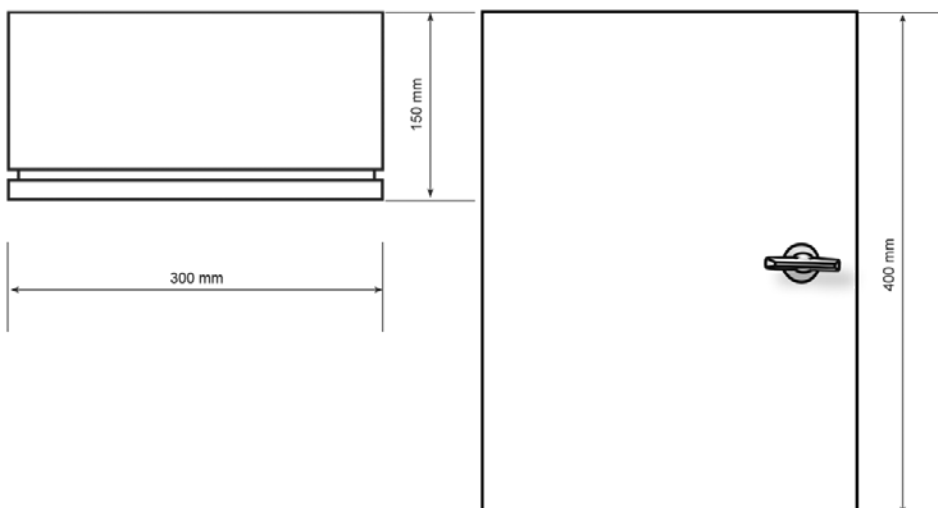
### DUAL PUMP CONTROL

| Code No.    | Phases | Voltage | Overload rating (A) | Contactor rating (A) | IP rating |
|-------------|--------|---------|---------------------|----------------------|-----------|
| PPC-30010-B | 1      | 240     | 4-6                 | 18                   | IP54      |
| PPC-30010-D | 1      | 240     | 9-13                | 18                   | IP54      |
| PPC-30010-C | 1      | 240     | 18                  | 18                   | IP65      |
| PPC-30030-A | 3      | 415     | 2.5-4               | 18                   | IP54      |
| PPC-30030-B | 3      | 415     | 4-6                 | 18                   | IP54      |
| PPC-30030-C | 3      | 415     | 6-10                | 18                   | IP54      |
| PPC-30030-D | 3      | 415     | 9-13                | 18                   | IP54      |
| PPC-30040-M | 3      | 415     | 18                  |                      | IP65      |

### ACCESSORY

| Type         | Length (m) | Code No. | Liquid temp. (°C) | Liquid density             | Protection | Contact life    | Switching angle     | Max. vol- atage | Max. run current | Cable material  | Cable size                    | Housing material |
|--------------|------------|----------|-------------------|----------------------------|------------|-----------------|---------------------|-----------------|------------------|-----------------|-------------------------------|------------------|
| Float switch | 10         | FSW-10M  | Min. 5, Max. 60   | Min. .65g/cm, Max. 1.5g/cm | IP68 @ 20m | 10,000 switches | 20° from horizontal | 240 Vac         | 6 Amps (COS 0)   | Neoprene rubber | ø7mm / 3 x .75mm <sup>2</sup> | ABS              |
|              | 15         | FSW-15M  |                   |                            |            |                 |                     |                 |                  |                 |                               |                  |
|              | 20         | FSW-20M  |                   |                            |            |                 |                     |                 |                  |                 |                               |                  |
|              | 30         | FSW-30M  |                   |                            |            |                 |                     |                 |                  |                 |                               |                  |
|              | 40         | FSW-40M  |                   |                            |            |                 |                     |                 |                  |                 |                               |                  |

### DIMENSIONS



# APPLICATIONS - PUMPS



Perfect



Not suitable

|                                                                                     |                           | INSIDE BUILDINGS                                                                                               |                                                                                                                    |                                                                                                               |                                                                                                                                           | OUTSIDE BUILDINGS                                                                                                            |                                                                                                                                                               | PUMP FEATURES                                                                                       |                                                                                                        |                                                                                                          |                                                                                                                |
|-------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|                                                                                     |                           | Grey water<br>(no faeces)<br> | Seepage water,<br>Groundwater<br> | Blackwater<br>(w/faeces)<br> | Aggressive<br>media<br>(condensate, low<br>PH, salt)<br> | Rain water/<br>Surface water<br>(clean)<br> | Rainwater/<br>Groundwater<br>(with sand or other<br>abrasive particles)<br> | H max<br>(m)<br> | Q max<br>(m³/h)<br> | Discharge<br>size<br> | Free<br>passage<br>(mm)<br> |
|    | VipVort                   | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✗                                                                                                                                                             | 6                                                                                                   | 10.8                                                                                                   | 1 1/4"                                                                                                   | 25                                                                                                             |
|    | U3 K                      | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✗                                                                                                                                                             | 7                                                                                                   | 6.5                                                                                                    | 1 1/4"                                                                                                   | 10                                                                                                             |
|    | U3K<br>Special            | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✓                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 7                                                                                                   | 6.5                                                                                                    | 1 1/4"                                                                                                   | 10                                                                                                             |
|    | U5 K                      | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✗                                                                                                                                                             | 8                                                                                                   | 8                                                                                                      | 1 1/4"                                                                                                   | 10/20                                                                                                          |
|    | U6 K                      | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 9.5                                                                                                 | 11.5                                                                                                   | 1 1/4"                                                                                                   | 10/20                                                                                                          |
|   | UV 3                      | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✗                                                                                                                                                             | 7                                                                                                   | 7                                                                                                      | 1 1/4"                                                                                                   | 10                                                                                                             |
|  | VF150                     | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 7                                                                                                   | 9                                                                                                      | 1 1/4"                                                                                                   | 15                                                                                                             |
|  | SIMER 5                   | ✗                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 6                                                                                                   | 4.3                                                                                                    | 1 1/4"                                                                                                   | 2                                                                                                              |
|  | COMPAC<br>200             | ✗                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✗                                                                                                                                                             | 9.5                                                                                                 | 10.5                                                                                                   | 1 1/4"                                                                                                   | 5                                                                                                              |
|  | US 62<br>US 102           | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 9<br>12.5                                                                                           | 19<br>28                                                                                               | 1 1/2"                                                                                                   | 10                                                                                                             |
|  | US 73<br>US 103           | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 9<br>12.5                                                                                           | 19<br>28                                                                                               | 1 1/2"                                                                                                   | 30                                                                                                             |
|  | US 75<br>US 105<br>US 155 | ✓                                                                                                              | ✓                                                                                                                  | ✓                                                                                                             | ✓                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 8<br>11.5<br>12.0                                                                                   | 20<br>28<br>28                                                                                         | 2"                                                                                                       | 50                                                                                                             |
|  | US 73 HE<br>US 103 HE     | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 9.5<br>12.5                                                                                         | 19<br>28                                                                                               | 1 1/2"                                                                                                   | 30                                                                                                             |
|  | PRIOX<br>300/9            | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 7.5                                                                                                 | 18                                                                                                     | 2"                                                                                                       | 40                                                                                                             |
|  | PRIOX<br>420/11           | ✓                                                                                                              | ✓                                                                                                                  | ✗                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✓                                                                                                                                                             | 10                                                                                                  | 24                                                                                                     | 2"                                                                                                       | 40                                                                                                             |
|  | MultiCut                  | ✓                                                                                                              | ✓                                                                                                                  | ✓                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✗                                                                                                                                                             | 55                                                                                                  | 18                                                                                                     | 1 1/4"                                                                                                   | 7                                                                                                              |
|  | CSM<br>Cutter             | ✓                                                                                                              | ✓                                                                                                                  | ✓                                                                                                             | ✗                                                                                                                                         | ✓                                                                                                                            | ✗                                                                                                                                                             | 15.5                                                                                                | 63                                                                                                     | 3"                                                                                                       | 35                                                                                                             |

# APPLICATIONS - PUMPS ... Continued

✓ Perfect  
✗ Not suitable

|                                                                                    |              | INSIDE BUILDINGS          |                               |                          |                                                      | OUTSIDE BUILDINGS                       |                                                                         | PUMP FEATURES |                 |                   |                         |
|------------------------------------------------------------------------------------|--------------|---------------------------|-------------------------------|--------------------------|------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------|---------------|-----------------|-------------------|-------------------------|
|                                                                                    |              | Grey water<br>(no faeces) | Seepage water,<br>Groundwater | Blackwater<br>(w/faeces) | Aggressive<br>media<br>(condensate, low<br>PH, salt) | Rain water/<br>Surface water<br>(clean) | Rainwater/<br>Groundwater<br>(with sand or other<br>abrasive particles) | H max<br>(m)  | Q max<br>(m³/h) | Discharge<br>size | Free<br>passage<br>(mm) |
|   | Multi-Stream | ✓                         | ✓                             | ✓                        | ✗                                                    | ✓                                       | ✓                                                                       | 64            | 530             | DN 200            | 100                     |
|   | MultiFree    | ✓                         | ✓                             | ✓                        | ✗                                                    | ✓                                       | ✓                                                                       | 30            | 220             | DN 100            | 100                     |
|   | PRIOX 500/11 | ✓                         | ✓                             | ✓                        | ✗                                                    | ✓                                       | ✓                                                                       | 10.5          | 30              | 2"                | 50                      |
|   | PRIOX 600/13 | ✓                         | ✓                             | ✓                        | ✗                                                    | ✓                                       | ✓                                                                       | 13            | 33              | 2"                | 50                      |
|   | PRIOX 800/18 | ✓                         | ✓                             | ✓                        | ✗                                                    | ✓                                       | ✓                                                                       | 17.5          | 45              | 2"                | 50                      |
|  | CSM Vortex   | ✓                         | ✓                             | ✓                        | ✗                                                    | ✓                                       | ✓                                                                       | 13            | 36              | 3"                | 35                      |

# APPLICATIONS - LIFTING STATIONS

✓ Perfect  
✗ Not suitable

|                                                                                     |         | GREY WATER |            |        |         |      |             |                 |                        |                        |              |           | PUMP FEATURES |                 |                       |
|-------------------------------------------------------------------------------------|---------|------------|------------|--------|---------|------|-------------|-----------------|------------------------|------------------------|--------------|-----------|---------------|-----------------|-----------------------|
|                                                                                     |         | Bidet      | Wash basin | Shower | Bathtub | Sink | Dish-washer | Washing machine | Condensate             | Softening Unit         | Air Con Unit | Hot Water | H max<br>(m)  | Q max<br>(m³/h) | Pressure<br>Discharge |
|  | Hebefix | ✗          | ✓          | ✓      | ✓       | ✓    | ✓           | ✓               | ✗<br>U3KS special only | ✗<br>U3KS special only | ✗            | ✗         | 7             | 11              | DN 32                 |

|                                                                                     |            | BLACK WATER                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       | PUMP FEATURES                                                                         |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |            | wc                                                                                  | Wall WC                                                                             | Urinal                                                                              | Bidet                                                                               | Wash basin                                                                          | Shower                                                                              | Bathtub                                                                             | Sink                                                                                | Dishwasher                                                                           | Washing machine                                                                       | Condensate                                                                            | Softening Unit                                                                        | H max (m)                                                                             | Q max (l/min)                                                                         | Pressure Discharge                                                                    |
|                                                                                     |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | WCFix Plus | ✓                                                                                   | ✓                                                                                   | ✗                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✗                                                                                   | ✗                                                                                   | ✗                                                                                    | ✗                                                                                     | ✗                                                                                     | ✗                                                                                     | 6.0                                                                                   | 208                                                                                   | DN 25/32                                                                              |







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