



DanPumps S-WP Pumps

Wet, dry and portable wastewater pumps





DanPumps S-WN



DanPumps S-WP0



DanPumps S-WP4

DanPumps Pumps for Wastewater Applications

The DanPumps Wastewater Programme

The DanPumps S-WP-range is the combination between high efficiency, intelligent design and practical features. This gives you a user-friendly pump with a long life cycle. The S-WP-range covers complete series of high quality and user-friendly wastewater pumps. From the smallest S-WP0 - suitable for light industrial effluents to the S-WP5 - capable of handling heavy duty wastewater jobs from cities and industries.

Dry, Wet and Portable Wastewater Pumps

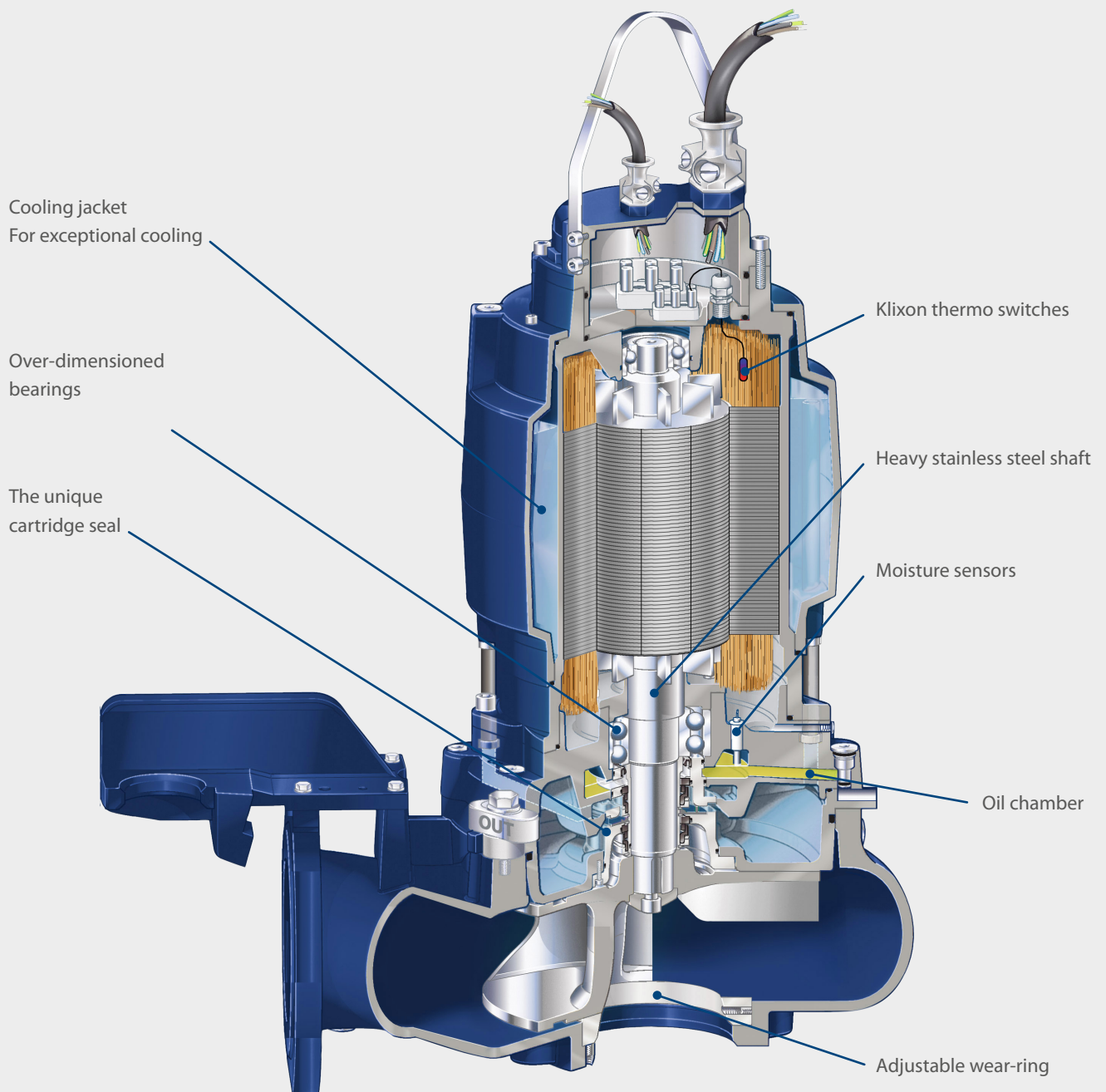
The DanPumps S-WP product programme is delivered for dry, wet or portable installations and with the choice of a vortex, a B-tween or a channel impeller. As an option all DanPumps dry pit wastewater pumps can be delivered with IEC standard motors S-WN type.

High-efficiency Motors with Unique Heating and Moisture Protection

The motors are classified according to IE3. All DanPumps S-WP motors also have class F insulation, option as class H insulation, three thermal overload switches and a moisture sensor to alert the owner of moisture intrusion before damage is caused to the motor.

Oversized shafts

Each pump has its own oversized shaft - oversized to ensure a smooth running pump without vibrations even at maximum power. This ensures many hours of reliable service both for the parts and for the pump as a whole. This guarantees a controlled temperature within the pump, which also protects the shaft and the motor windings.



Exceptional Cooling

The cooling jacket from DanPumps ensures optimal cooling of the motor in most operating conditions such as converter drive, dry installations and low level sump where overheating is otherwise likely to occur. DanPumps dry and portable wastewater pumps are delivered with a cooling jacket as a standard. For the DanPumps wet pit pumps the cooling jacket is an optional choice.

The cooling system is driven by an internal impeller placed in the mechanical cartridge seal that circulates the cooling liquid through the passages around the motor. The cooling liquid absorbs the high temperature from the motor and passes it on to the media being pumped through the pump.

As the system is a closed cooling system it does not use the media for cooling and the system does not clog due to the sludge.

As the temperature is controlled throughout the complete pumping process the parts of the pump are protected from too much starting and stopping, heating and cooling. The bearings, o-rings and mechanical seals all benefit from this reliable service, which again contributes to a long life for the pump.



Fast lock latch bolt



Double mechanical cartridge seal



B-tween impeller

Unique Cartridge Seals and Easy Maintenance

Our unique double mechanical seals are installed in a user-friendly cartridge, which makes it possible to change the seal without using any special tools – it eliminates any risk of improper installation.

Fast Lock Latch Bolt and Oil Tap Drain

Another unique feature for the DanPumps S-WP-line is the fast lock latch bolts that make it easy to separate the pump from the motor. This feature is very popular within the service staff, as it reduces maintenance downtime considerably as no special tools are needed.

The locks are made in stainless steel. The pumps are equipped with an oil tap drain making service and oil change very easy.

Higher Efficiency with Adjustable Wear-ring

DanPumps Pumps use an axially adjustable wear-ring to reduce the hydraulic loss between the impeller and the wear-ring. With this feature the wear-ring can be regularly adjusted to optimize the pump efficiency when the pump starts to be affected by wear.

The range of DanPumps Wastewater Pumps

This range of pumps are all designed for wastewater industry and general industry. They are designed for practical's to pass through without any problem – ideal for raw sewage applications with large solid content or for general industries that are pumping fibrous medias.

DanPumps S-WP0



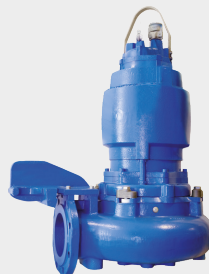
This is the smallest wastewater pump – very efficient for low volume.

- Connection up to DN80
- Flowrate up to 68 m³/h
- Double mechanical seal
- Insulation class H motor

Model:

- S-WP0-37
- S-WP0-50
- S-WP0-65*

DanPumps S-WP3



This type of pump is also a middle range pump, designed for high flowrate combined with high pressure.

- Connection up to DN150
- Flowrate up to 600 m³/h
- IE3 motor class F, optional as class H, up to 22 KW 50 Hz and 25,3 KW 60 Hz
- Through let up to 100mm

Model:

- S-WP3-80
- S-WP3-100
- S-WP3-150*

DanPumps S-WP1



This type of pump is our small range pump, designed for high flow combined with medium pressure.

- Connection up to DN80
- Flowrate up to 180 m³/h
- IE3 motor class F, optional as class H, up to 3 KW 50 Hz and 4,4 KW 60 Hz
- Through let up to 70mm

Model:

- S-WP1-70
- S-WP1-80

DanPumps S-WP4



This type of pump is a large range pump, designed for high flowrate combined with high pressure.

- Connection up to DN300
- Flowrate up to 1600 m³/h
- IE3 motor class F, optional as class H, up to 65 KW 50 Hz and 75 KW 60 Hz
- Through let up to 130mm

Model:

- S-WP4-100 • S-WP4-150
- S-WP4-200 • S-WP4-250
- S-WP4-300

DanPumps S-WP2



This type of pump is our middle range pump, designed for high flowrate combined with low pressure.

- Connection up to DN150
- Flowrate up to 380 m³/h
- IE3 motor class F, optional as class H, up to 11 KW 50 Hz and 12,6 KW 60 Hz
- Through let up to 100mm

Model:

- S-WP2-80
- S-WP2-100
- S-WP2-150

DanPumps S-WP5



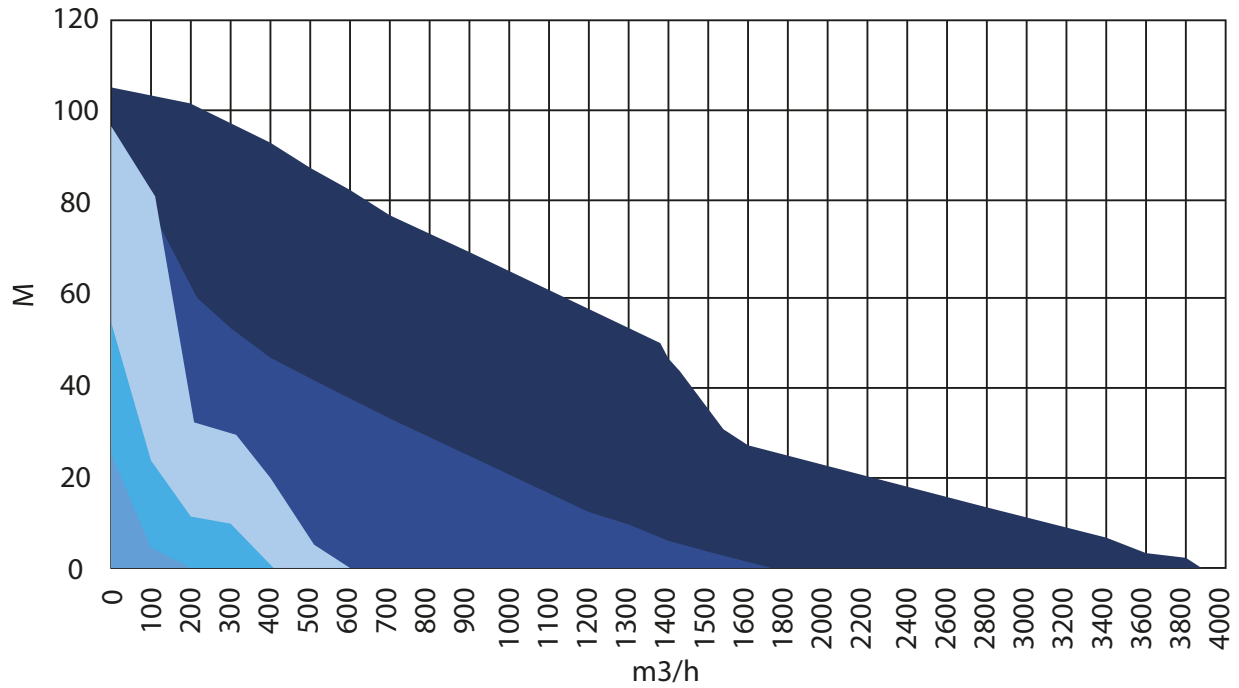
This type of pump is the large range pump, designed for high flowrate combined with low pressure.

- Connection up to DN600
- Flowrate up to 4000 m³/h
- IE3 motor class F, optional as class H and 200 kW 50 Hz up to 230 kW 60 Hz

Features for all pumps:

- Channel, vortex and B-tween impellers
- Overheating and moisture protection
- Double mechanical cartridge seal*
- For dry installation closed cooling jacket is a standard option*
- Adjustable wear ring*
- *Does not include S-WP0

S-WP Pumps Curves



■ S-WP5 ■ S-WP4 ■ S-WP3 ■ S-WP2 ■ S-WP1



Pump housing, base elbow, sealing housing	Grey cast iron GJL-250 (GG25) A48 Class 35
Impeller (cast iron), adapter	Ductile cast iron GJS-400-15 (GGG-40) A536 GR 65-45-15
Stainless impeller (option)	Stainless cast steel W. Nr. 1.4401 / AISI 316
Shaft	Stainless steel W. Nr. 1.4057 / AISI 431
Seal sleeve, screws	Stainless steel W. Nr. 1.4301 / AISI 304
Coolant	30% Propylene glycol 70% Water
O-rings	Nitrile / NBR
Oil	Mobil DTE 24 / Premium Hydraulic
Mechanical seal	Media side: SIC/SIC Cooling side: SIC (Carbon)
Motor	Siemens / IE3 / Class F, optional as class H

Customized Impellers

DanPumps have a wide variety of impellers. Channel 1, Channel 2, Vortex and open or half- open channel impellers called the B-tween impeller.

They are delivered standard in ductile cast iron GJS-400-15 (GGG40) or in stainless steel (AISI 316) as an option. All the impellers are designed for non-clogging and all the impellers fit in the same volute and will be trimmed according to customer demands.

Advantages:

- Cartridge seal
- Fast lock latch bolts
- Oil tap drain
- Closed cooling jacket
- Adjustable wear ring
- Channel and vortex impellers in the same volute
- High-efficiency motors
- Few spare parts
- Easy maintenance and dismantling