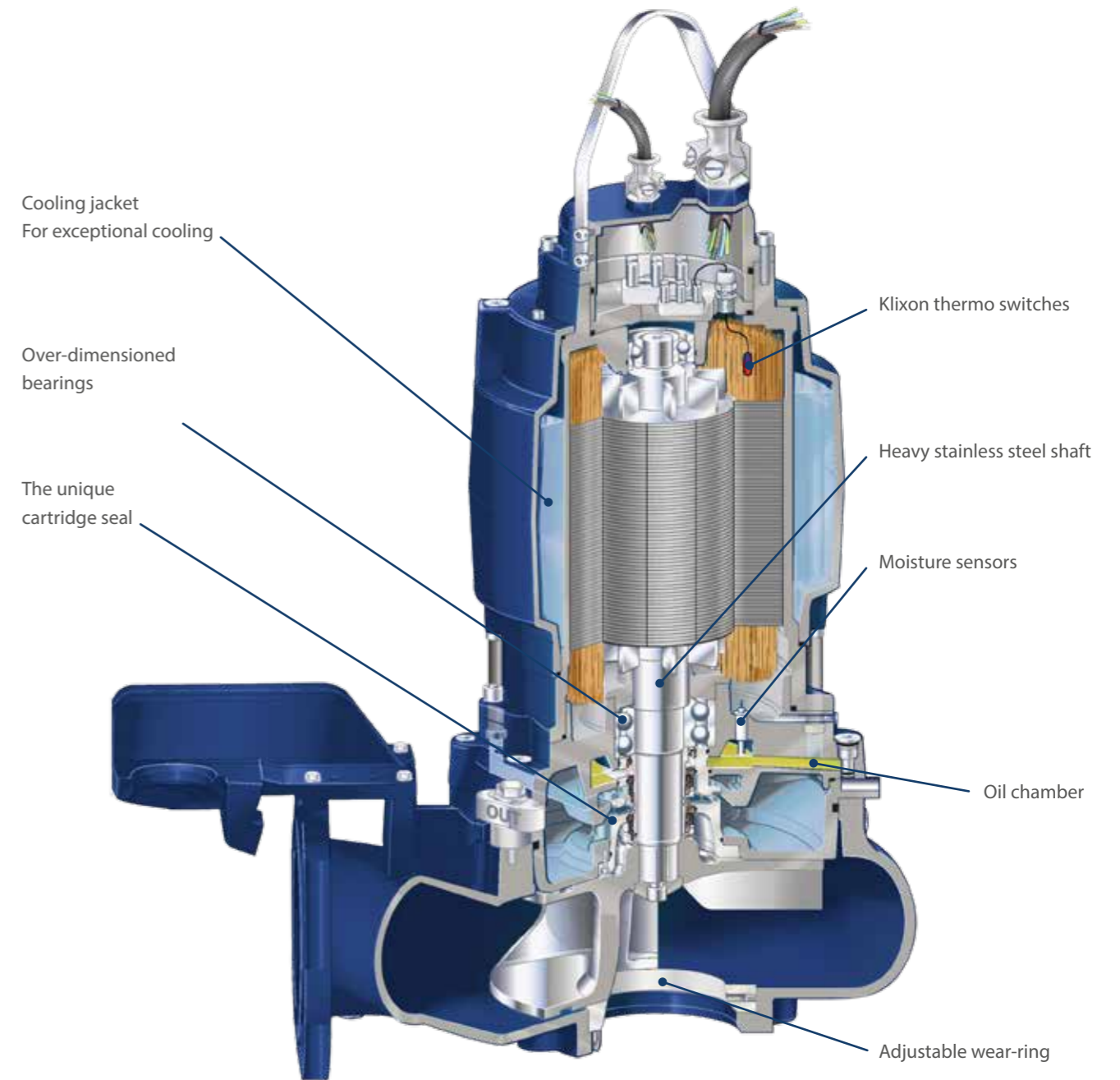


# DanPumps S-WP Pumps

Wet, dry and portable wastewater pumps





## DanPumps Pumps for Wastewater Applications

### The DanPumps Wastewater Programme

The DanPumps S-WP-range is a 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 large 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 a 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 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.



Double mechanical cartridge seal



Stainless steel impeller

### Unique Cartridge Seals and Easy Maintenance

Our unique double-mechanical seals are installed in a user-friendly cartridge. This makes it possible to change the seal without using any special tools and eliminates any risk of improper installation. Also, the fast lock latch bolts make it easy to separate the pump from the motor. This in combination with the easy service of the oil tap drain reduces maintenance downtime considerably without any use of special tools.

### Fast Lock Latch Bolt and Oil Tap Drain

Another unique feature of the DanPumps S-WP range is the fast lock latch bolts that make it easy to separate the pump from the motor.

This feature is very popular with the service staff, as it reduces maintenance downtime considerably. The locks are made of 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 is all designed for the 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

The smallest wastewater pumps - very efficient for low volume.

- Connection up to DN80
- Flow rate up to 68 m<sup>3</sup>/h
- Double mechanical seal
- Insulation class H motor

#### Model:

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



### DanPumps S-WP1

Our small range pumps, designed for a high flow rate combined with medium pressure.

- Connection up to DN100
- Flow rate up to 180 m<sup>3</sup>/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 70 mm

#### Model:

- S-WP1-70
- S-WP1-80
- S-WP1-100



### DanPumps S-WP2

Our middle range pumps, designed for a high flow rate combined with low pressure.

- Connection up to DN150
- Flow rate up to 380 m<sup>3</sup>/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 100 mm

#### Model:

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



### DanPumps S-WP3

Also a middle range pump, designed for a high flow rate combined with high pressure.

- Connection up to DN150
- Flow rate up to 600 m<sup>3</sup>/h
- IE3 motor class F, optional as class H, up to 22 kW 50 Hz and 23,5 kW 60 Hz
- Through let up to 100 mm

#### Model:

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



### DanPumps S-WP4

A large range of pumps, designed for a high flow rate combined with high pressure.

- Connection up to DN300
- Flow rate up to 1600 m<sup>3</sup>/h
- IE3 motor class F, optional as class H, up to 65 kW 50 Hz and 75 kW 60 Hz
- Through let up to 130 mm

#### Model:

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



### DanPumps S-WP5

The large range pumps, designed for a high flow rate combined with low pressure.

- Connection up to DN600
- Flow rate up to 4000 m<sup>3</sup>/h
- IE3 motor class F, optional as class H, up to 200 kW 50 Hz and 230 kW 60 Hz
- Through let up to 100 mm

#### Model:

- S-WP5-100
- S-WP5-150
- S-WP5-200
- S-WP5-250
- S-WP5-300
- S-WP5-350
- S-WP5-400

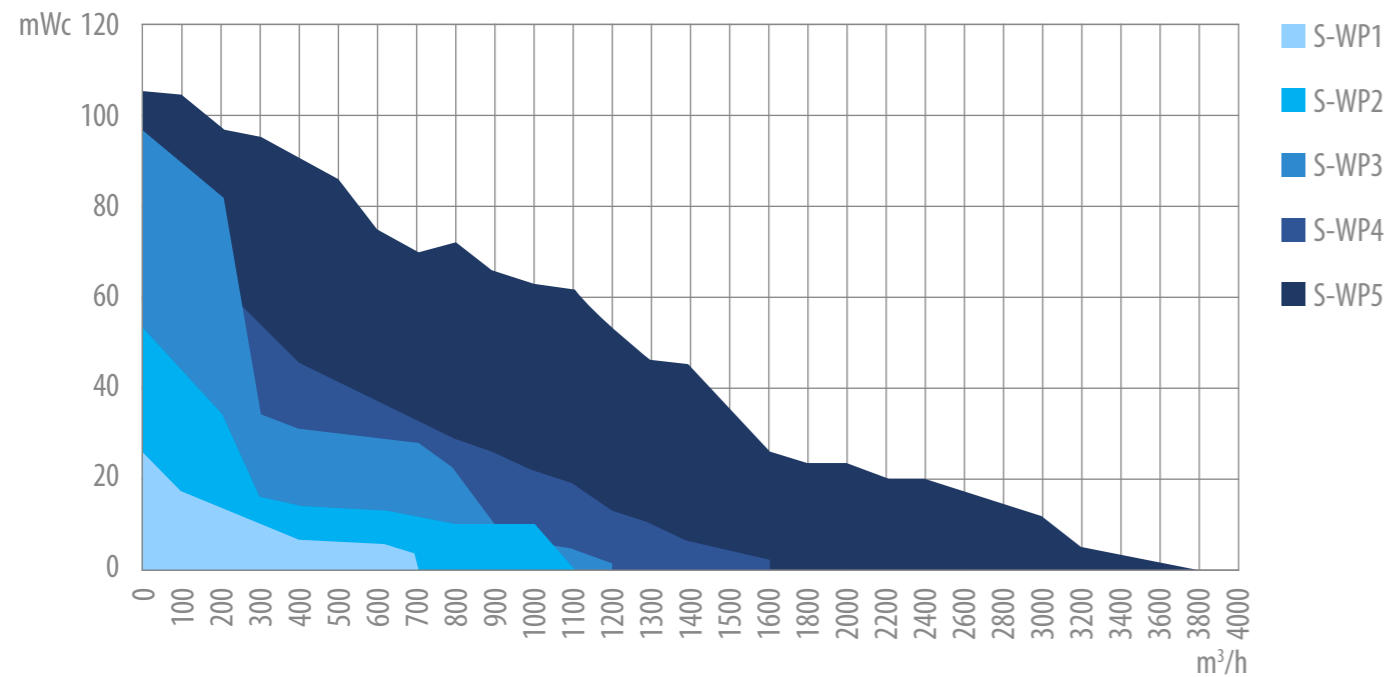


### Features for all pumps:

- Channel, vortex and B-tween impeller
- 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 Pump Curves



Materials	
<b>Pump Housing, Base Elbow, Sealing Housing</b>	Grey Cast Iron GJL-250 (GG25) A-48 Class35
<b>Impeller (cast iron), adapter</b>	Ductile Cast Iron GJS-400-15 (GGG-40) A536 GR 65-45-15
<b>Stainless Impeller (option)</b>	Stainless Cast Steel W.Nr.1.4401 / AISI 316
<b>Shaft</b>	Stainless Steel W.Nr.1.4057 / AISI 431
<b>Seal Sleeve, Screws</b>	Stainless Steel W.Nr.1.4301 / AISI 304
<b>Coolant</b>	30% Propylene glycol 70% Water
<b>O-rings</b>	Nitrile/ NBR
<b>Oil</b>	Mobil DTE 24 Premium Hydraulic
<b>Mechanical Seal</b>	Media Side: SIC/SIC Cooling Side: SIC (Carbon)
<b>Motor</b>	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 B-tween impellers.

They are delivered standard in ductile cast iron GJS-400-15 (GGG40) or 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

Type	kW P2	Rpm	Weight in kg Wet install	Weight in kg Dry install	Weight in kg Portable install	Weight in kg Base elbow	Throughlet in mm	Outlet flange
S-WP0-30-2 - 1.ph	0,35	2850	NA	NA	6	NA	5	R1"
S-WP0-37-2	0,55	2850	14	NA	5	NA	5	R1½"
S-WP0-50-2 - 1.ph	0,8	2850	22	NA	22	5	45	R2"
S-WP0-50-2	0,8	2850	22	NA	22	5	45	R2"
S-WP0-65-2	1,85	2850	33	NA	34	13	55	R2½"
S-WP0-65-2	2,2	2850	40	NA	41	13	55	R2½"
S-WP0-65-4	1,1	1430	32	NA	33	13	55	R2½"
S-WP1-70-2	1,5/1,8	2930/3500	90	102	104	35	60	DN80
S-WP1-70-2	2,2/2,7	2930/3500	92	100	102	35	60	DN80
S-WP1-70-2	3,0/3,5	2930/3500	92	100	102	35	60	DN80
S-WP1-70-2	3,5/4,4	2930/3500	95	102	105	35	60	DN80
S-WP1-80-4	1,1/1,3	1460/1700	95	102	105	35	60	DN100
S-WP1-80-4	1,5/1,8	1460/1700	92	100	102	35	60	DN100
S-WP1-80-4	2,0/2,3	1460/1700	92	100	102	35	70	DN100
S-WP1-80-4	2,5/2,7	1460/1700	92	100	102	35	70	DN100
S-WP1-80-4	3,0/3,5	1460/1700	92	100	102	35	70	DN100
S-WP2-80-2	6,5/7,3	2930/3500	148	150	150	35	70	DN80
S-WP2-80-2	9,0/11,0	2930/3500	151	153	154	35	70	DN80
S-WP2-80-2	11,0/12,6	2930/3500	151	153	154	35	70	DN80
S-WP2-100-4	4,0/5,6	1460/1700	143	145	145	36	100	DN100
S-WP2-100-4	6,0/7,3	1460/1700	151	153	153	36	100	DN100
S-WP2-100-4	7,5/8,6	1460/1700	151	153	153	36	100	DN100
S-WP2-100-4	9,0/11,0	1460/1700	157	161	161	36	100	DN100
S-WP2-100-6	2,5/3,3	970/1000	142	144	144	36	100	DN100
S-WP2-100-6	5,5/6,3	970/1000	156	160	160	36	100	DN100
S-WP2-150-4	4,0/5,6	1460/1700	148	150	150	65	100	DN150
S-WP2-150-4	6,0/7,3	1460/1700	159	161	161	65	100	DN150
S-WP2-150-4	7,5/8,6	1460/1700	159	161	161	65	100	DN150
S-WP2-150-4	9,0/11,0	1460/1700	164	170	170	65	100	DN150
S-WP2-150-6	2,5/3,3	970/1000	156	158	158	65	100	DN150
S-WP2-150-6	5,5/6,3	970/1000	160	163	163	65	100	DN150
S-WP3-80-2	7,5/8,6	2930/3500	205	207	207	36	70	DN100
S-WP3-80-2	9,0/11,0	2930/3500	205	207	207	36	70	DN100
S-WP3-80-2	12,5/14,0	2930/3500	219	221	221	36	70	DN100
S-WP3-80-2	18,5/21,3	2930/3500	219	221	221	36	70	DN100
S-WP3-80-2	22,0/25,3	2930/3500	219	221	221	36	70	DN100
S-WP3-80-2	25,0/28,0	2960/3500	219	221	221	36	70	DN100
S-WP3-100-4	7,5/8,6	1460/1700	201	203	207	36	100	DN100
S-WP3-100-4	9,0/11,0	1460/1700	204	206	211	36	100	DN100
S-WP3-100-4	12,5/14,0	1460/1700	225	227	232	36	100	DN100
S-WP3-100-4	17,0/20,1	1460/1700	241	243	247	36	100	DN100
S-WP3-100-4	18,5/21,3	1460/1700	201	203	207	36	100	DN100
S-WP3-100-4	22,0/25,3	1460/1700	246	247	250	36	100	DN100
S-WP3-100-6	6,6/7,5	970/1000	223	225	225	36	100	DN100
S-WP3-100-6	11,5/12,6	970/1000	270	272	272	36	100	DN100
S-WP3-150-4	7,5/8,6	1460/1700	215	217	227	65	100	DN150
S-WP3-150-4	9,0/11,0	1460/1700	217	219	229	65	100	DN150
S-WP3-150-4	12,5/14,0	1460/1700	238	240	250	65	100	DN150
S-WP3-150-4	15,0/17,5	1460/1700	238	240	250	65	100	DN150
S-WP3-150-4	18,5/21,3	1460/1700	215	217	227	65	100	DN150
S-WP3-150-4	22,0/25,3	1460/1700	259	262	270	65	100	DN150
S-WP3-150-6	6,6/7,5	970/1000	223	225	235	65	100	DN150
S-WP3-150-6	11,0/12,6	970/1000	270	272	282	65	100	DN150
S-WP4-100-4	18,5/21,3	1460/1700	443	593	474	36	80	DN100
S-WP4-100-4	22,0/25,3	1460/1700	453	603	484	36	80	DN100
S-WP4-100-4	30,0/33,5	1460/1700	499	626	510	36	80	DN100
S-WP4-100-4	37,0/42,5	1460/1700	549	674	560	36	80	DN100
S-WP4-100-4	45,0/52,0	1460/1700	592	717	603	36	80	DN100
S-WP4-100-4	55,0/62,0	1460/1700	604	729	615	36	80	DN100
S-WP4-100-4	65,0/78,0	1460/1700	604	729	615	36	80	DN100
S-WP4-150-4	18,5/21,3	1460/1700	466	573	475	65	100	DN150
S-WP4-150-4	22,0/25,3	1460/1700	476	583	485	65	100	DN150
S-WP4-150-4	30,0/33,5	1460/1700	502	609	510	65	100	DN150
S-WP4-150-4	37,0/42,5	1460/1700	553	654	560	65	100	DN150
S-WP4-150-4	45,0/52,0	1460/1700	596	697	603	65	100	DN150
S-WP4-150-4	55,0/62,0	1460/1700	608	709	615	65	100	DN150
S-WP4-150-4	65,0/78,0	1460/1700	608	709	615	65	100	DN150
S-WP4-200-4	18,5/21,3	1460/1700	515	615	547	76	100	DN200
S-WP4-200-4	22,0/25,3	1460/1700	525	625	557	76	100	DN200
S-WP4-200-4	30,0/33,5	1460/1700	533	638	570	76	100	DN200
S-WP4-200-4	37,0/42,5	1460/1700	583	683	620	76	100	DN200
S-WP4-200-4	45,0/52,0	1460/1700	626	726	663	76	100	DN200
S-WP4-200-4	55,0/62,0	1460/1700	638	738	675	76	100	DN200
S-WP4-200-4	65,0/78,0	1460/1700	638	738	675	76	100	DN200
S-WP4-200-6	18,5/22,0	970/1000	533	638	570	76	100	DN200
S-WP4-200-6	22,0/26,0	970/1000	566	666	603	76	100	DN200
S-WP4-200-6	30,0/36,0	970/1000	616	716	653	76	100	DN200
S-WP4-200-6	37,0/44,5	970/1000	625	725	662	76	100	DN200
S-WP4-250-4	18,5/21,3	1460/1700	533	638	570	235	100	DN250
S-WP4-250-4	22,0/25,3	1460/1700	513	618	550	235	100	DN250
S-WP4-250-4	30,0/33,5	1460/1700	533	638	570	235	100	DN250
S-WP4-250-4	37,0/42,5	1460/1700	583	683	620	235	100	DN250
S-WP4-250-4	45,0/42,0	1460/1700	626	726	663	235	100	DN250
S-WP4-250-4	55,0/62,0	1460/1700	974	978	974	235	100	DN250
S-WP4-250-4	65,0/78,0	1460/1700	974	978	974	235	100	DN250
S-WP4-250-6	18,5/22,0	970/1000	533	638	570	235	100	DN250
S-WP4-250-6	22,0/26,0	970/1000	566	666	603	235	100	DN250
S-WP4-300-6	37,0/44,5	970/1000	700	763	784	235	100	DN300
S-WP4-300-6	45,0/54,0	970/1000	733	791	817	235	100	DN300
S-WP4-300-6	55,0/62,0	970/1000	783	841	867	235	100	DN300
S-WP4-300-6	65,0/78,0	970/1000	792	850	876	235	100	DN300
S-WP4-300-6	85,0/94,0	970/1000	1200	1210	1200	235	100	DN300
S-WP4-300-8	18,0/22,0	730/900	710	774	794	235	100	DN300

NA = Not available

## About SonFlow A/S

DanPumps A/S changed its company name to SonFlow A/S in 2019 and started manufacturing plate heat exchangers - it signalizes new investments and new missions as we want to focus on process technology, energy and the environment. SonFlow A/S works hard to ensure the philosophy of innovation and advancement by delivering best in quality products and good service.

We strive our best to safeguard the environmental processes and adapt modern friendly approaches in product design and production processes. DanPumps centrifugal pumps will still be marketed under the brand name DanPumps.



## Plate heat exchangers as a complementary product

SonFlow A/S offers plate heat exchangers as a complementary product to DanPumps centrifugal pumps, which will open new markets. The engineering team of SonFlow is working on developing new designs and customized process equipment's based on many years of experience.

We are ISO 9001 certified and provide heat exchangers and pumps to all industries - we are continually expanding and diversify the business responding with innovative high-quality products and services.

## Manufacture of plate heat exchangers and pumps

SonFlow A/S has specialized itself in manufacturing centrifugal pumps within all industries and plate heat exchangers to be used in thermal processes.

SonFlow offers a broad range of products for different applications - you can rely on SonFlow specialists to take a professional approach to your specific challenge and solve difficult pumping and plate heat exchanger applications.



Aage Søndergaard Nielsen  
Founder & CEO