



SONDEX

Sondex-WP Pumps

Wet, dry and portable wastewater pumps
50 Hz





Sondex-WN



Sondex-WP0



Sondex-WP4

Sondex Pumps for Wastewater Applications

The Sondex Wastewater Programme

The Sondex-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 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

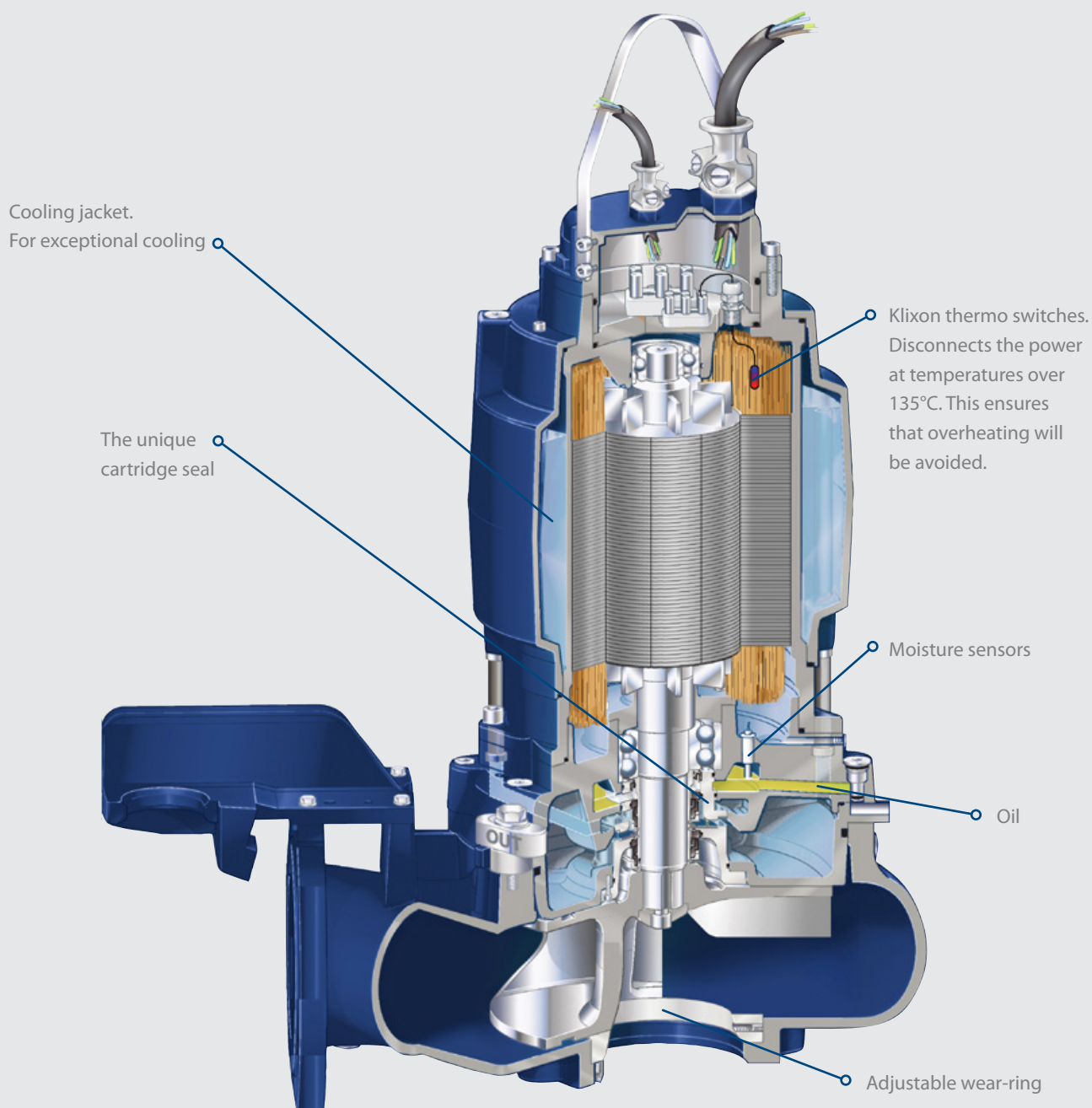
The Sondex WP product programme is delivered for dry, wet or portable installations and with the choice of a vortex, a B-tween or a channel impeller. As an option all Sondex dry pit wastewater pumps can be delivered with IEC standard motors S-WN type.

High-efficiency Motors with Unique Heating and Moisture Protection

The motors are classified according to IE2. All Sondex-WP motors also have 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 Sondex 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. Sondex dry and portable wastewater pumps are delivered with a cooling jacket as standard. For the Sondex 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



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 makes 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 for the Sondex-WP-line 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 to maintenance downtime considerably. The locks are made in stainless steel. The pumps are equipped with oil tap drain making service and oil change very easy.

Higher Efficiency with Adjustable Wear-ring

Sondex 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.

Sondex-WP0



Applications:
Wastewater Industry
Chemical Industry

Model:
S-WP0-37
S-WP0-50
S-WP0-65*

The Sondex-WP0 is the smallest wastewater pump - very efficient for low volume domestic sewage, single houses and farms. The Sondex-WP0 is made of cast iron and has a double mechanical seal. This range of pumps is fitted with vortex impeller and suitable for light industrial effluents.

*Also available as Grinder Pump



Sondex-WP1



Applications:
Wastewater Industry
Chemical Industry

Model:
S-WP1-70
S-WP1-80

Large throughlets allow this range to be offered for municipal raw sewage applications characterized by large solid contents or fibrous media. The Sondex-WP1 is one of the most popular products and is well-known for its rugged construction and proven reliability.

Sondex-WP2



Applications:
Wastewater Industry
Chemical Industry

Model:
S-WP2-80
S-WP2-100
S-WP2-150

Sondex-WP2 is a medium sized high-capacity pump - also well-known for its rugged construction and proven reliability. Both Sondex-WP2 and Sondex-WP3 are available in a wide variety and customer-designed combinations to reach precisely the requested duty points.

Sondex-WP3



Applications:
Wastewater Industry
Chemical Industry

Models:
S-WP3-80
S-WP3-100
S-WP3-150*

Sondex-WP3 is a bigger and stronger pump compared to the Sondex-WP2 - otherwise they are very similar to each other and they are the most sold pumps. They are available as wet, dry or portable installation. The cooling system ensures an optimal cooling of the motor in many different operating conditions such as frequency inverter drives, dry installations and low level sump where overheating is otherwise likely to occur.

* All wetted parts as optional in stainless steel.

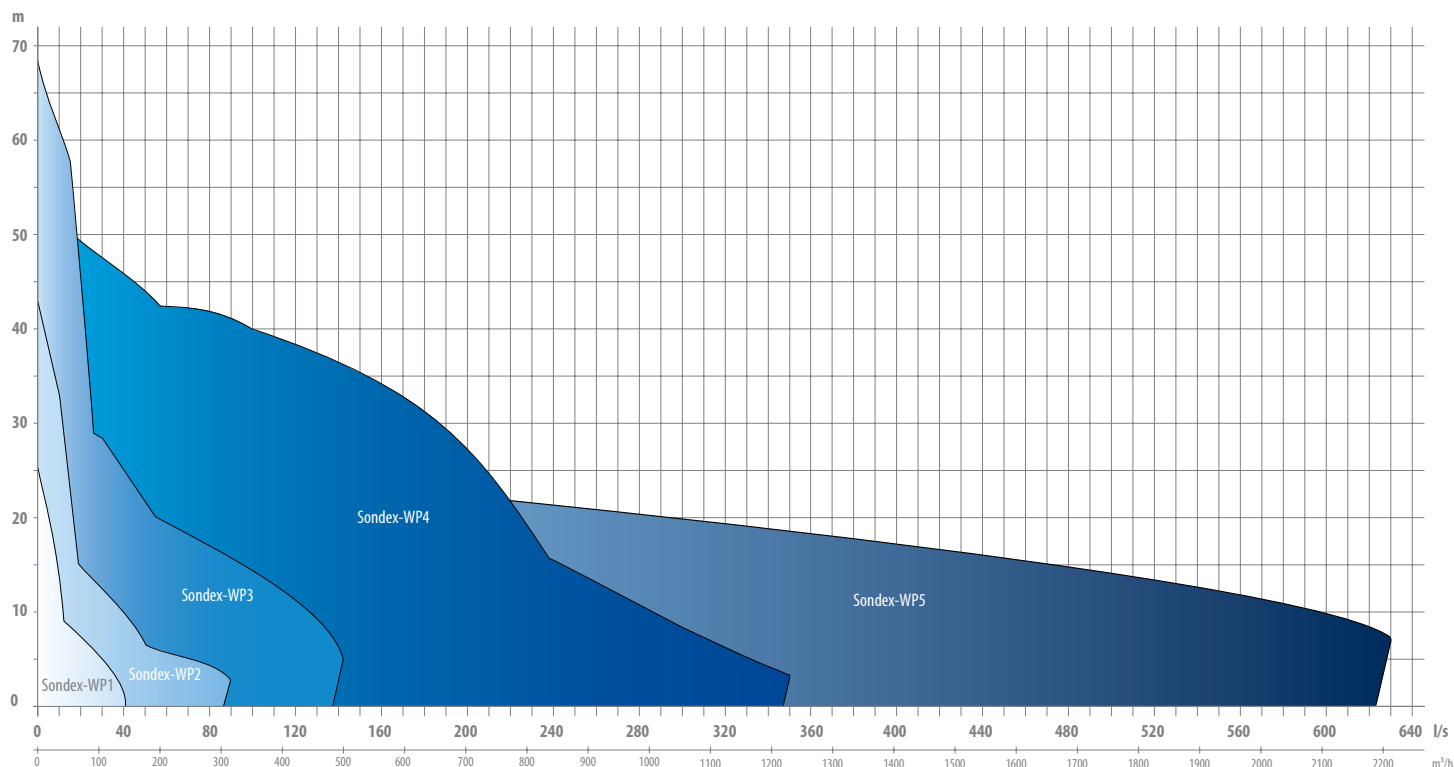
Sondex-WP4



Applications:
Wastewater Industry
Chemical Industry

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

Sondex-WP4 is our high-capacity pump and the biggest pump in our range. This pump is designed especially to offer high hydraulic efficiencies from 18,5 to 95 kW. The throughlet in the Sondex-WP4 with the Channel 2 and the B-tween impeller is 100-130 mm which allow them to treat unscreened wastewater from sewage plants and industries.



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

20% Propylene glycol
80% Water

O-rings

Nitrile / NBR

Oil

Mobil DTE 24 / Premium Hydraulic

Mechanical seal

Media side: SIC/SIC
Cooling side: SIC (Carbon)

Motor

Siemens / EFF I / Class H

Customized Impellers

Sondex Pumps have a wide variety of Channel 1, Channel 2, Vortex and B-tween impellers. 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

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	14	5	36	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	3,5	2890	95	102	104	35	60	DN80
S-WP1-80-4	2,5	1420	92	100	102	35	70	DN100
S-WP2-80-2	6,5	2900	148	150	150	35	70	DN80
S-WP2-80-2	9	2900	151	153	154	35	70	DN80
S-WP2-100-4	4	1440	143	145	145	36	100	DN100
S-WP2-100-4	6	1440	151	153	153	36	100	DN100
S-WP2-100-4	7	1440	151	153	153	36	100	DN100
S-WP2-100-6	2,5	940	142	144	144	36	100	DN100
S-WP2-150-4	4	1440	148	150	150	65	100	DN150
S-WP2-150-4	6	1440	159	161	161	65	100	DN150
S-WP2-150-4	7	1440	159	161	161	65	100	DN150
S-WP2-150-6	2,5	940	156	158	158	65	100	DN150
S-WP3-80-2	8	2930	205	207	207	36	70	DN100
S-WP3-80-2	12,5	2940	219	221	221	36	70	DN100
S-WP3-80-2	21	2940	252	254	254	36	70	DN100
S-WP3-100-4	7,5	1455	201	203	207	36	100	DN100
S-WP3-100-4	9	1455	204	206	211	36	100	DN100
S-WP3-100-4	12,5	1460	225	227	232	36	100	DN100
S-WP3-100-4	17	1460	241	243	247	36	100	DN100
S-WP3-100-4	22	1455	246	247	250	36	100	DN100
S-WP3-150-4	7,5	1455	215	217	227	65	100	DN150
S-WP3-150-4	9	1455	217	219	229	65	100	DN150
S-WP3-150-4	12,5	1460	238	240	250	65	100	DN150
S-WP3-150-4	17	1460	255	257	267	65	100	DN150
S-WP3-150-4	22	1455	259	262	270	65	100	DN150
S-WP3-150-6	6,6	950	223	225	235	65	100	DN150
S-WP3-150-6	13,5	960	270	272	282	65	100	DN150
S-WP4-100-4	18,5	1465	443	593	474	36	80	DN100
S-WP4-100-4	22	1465	453	603	484	36	80	DN100
S-WP4-100-4	30	1465	499	626	510	36	80	DN100
S-WP4-100-4	37	1465	549	674	560	36	80	DN100
S-WP4-100-4	45	1465	592	717	603	36	80	DN100
S-WP4-100-4	55	1465	604	729	615	36	80	DN100
S-WP4-100-4	65	1475	604	729	615	36	80	DN100
S-WP4-150-4	18,5	1465	466	573	475	65	100	DN150
S-WP4-150-4	22	1465	476	583	485	65	100	DN150
S-WP4-150-4	30	1465	502	609	510	65	100	DN150
S-WP4-150-4	37	1465	553	654	560	65	100	DN150
S-WP4-150-4	45	1465	596	697	603	65	100	DN150
S-WP4-150-4	55	1465	608	709	615	65	100	DN150
S-WP4-150-4	65	1475	608	709	615	65	100	DN150
S-WP4-150-6	18,5	970	486	593	495	65	100	DN150
S-WP4-150-6	22	975	496	603	505	65	100	DN150
S-WP4-150-6	30	975	522	629	530	65	100	DN150
S-WP4-150-6	37	975	573	674	580	65	100	DN150
S-WP4-150-6	45	975	616	717	623	65	100	DN150
S-WP4-200-4	18,5	1465	515	615	547	76	100	DN200
S-WP4-200-4	22	1465	525	625	557	76	100	DN200
S-WP4-200-4	30	1465	533	638	570	76	100	DN200
S-WP4-200-4	37	1465	583	683	620	76	100	DN200
S-WP4-200-4	45	1465	626	726	663	76	100	DN200
S-WP4-200-4	55	1465	638	738	675	76	100	DN200
S-WP4-200-4	65	1475	638	738	675	76	100	DN200
S-WP4-200-6	18,5	970	533	638	570	76	100	DN200
S-WP4-200-6	22	975	566	666	603	76	100	DN200
S-WP4-200-6	30	975	616	716	653	76	100	DN200
S-WP4-200-6	37	975	625	725	662	76	100	DN200
S-WP4-200-6	45	975	645	745	682	235	100	DN200
S-WP4-250-4	18,5	1465	533	638	570	235	100	DN250
S-WP4-250-4	22	1465	513	618	550	235	100	DN250
S-WP4-250-4	30	1465	533	638	570	235	100	DN250
S-WP4-250-4	37	1465	583	683	620	235	100	DN250
S-WP4-250-4	45	1465	626	726	663	235	100	DN250
S-WP4-250-4	55	1465	974	978	974	235	100	DN250
S-WP4-250-4	65	1475	974	978	974	235	100	DN250
S-WP4-250-6	18,5	970	533	638	570	235	100	DN250
S-WP4-250-6	22	975	566	666	603	235	100	DN250
S-WP4-250-6	30	975	616	716	653	235	100	DN250
S-WP4-250-6	37	975	625	725	662	235	100	DN250
S-WP4-250-6	45	975	645	745	682	235	100	DN250
S-WP4-300-6	18,5	970	700	763	784	235	100	DN300
S-WP4-300-6	22	975	733	791	817	235	100	DN300
S-WP4-300-6	30	975	783	841	867	235	100	DN300
S-WP4-300-6	37	975	792	850	876	235	100	DN300
S-WP4-300-6	45	975	1200	1210	1200	235	100	DN300
S-WP4-300-8	15	725	710	774	794	235	100	DN300
S-WP4-300-8	18,5	725	710	774	794	235	100	DN300

NA = Not available

About Sondex

Sondex is a Danish company specialized in development, production of pumps, plate heat exchangers, units and freshwater distillers.

Since the very start in 1984 Sondex has grown into one of the leading companies on the world market and has one of the biggest range of plate heat exchangers known on the market today.

The complete pump programme from Sondex is in constant development and the option of supplying the market with customized solutions makes Sondex one of the most flexible suppliers.

Subsidiaries and a global net of highly educated suppliers take care of sale and marketing of our products. Sondex has daughter companies and agents throughout the world making assembling and service for our customers.

Additional Products from Sondex

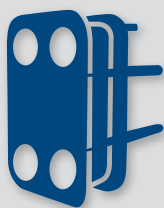


Plate Heat Exchangers

Standard	Brazed
Semi-Welded	Plate & Shell
All-Welded	Spiral Heat Exchanger
Sonder Safe	Evaporator
Free Flow	Condenser



Unit Solutions

District Heating Solutions
Sondex Steam Units
Sondex Solar Units
Customized Solutions
Aqua Hygia



Freshwater Distiller

Single Stage
Multi Stage



SONDEX

Sondex A/S - Head Office

Jernet 9
DK-6000 Kolding
Denmark
Tel.: +45 76 306 100
Fax: +45 75 538 968
Fax: +45 75 505 019
info@sondex.dk
www.sondex.net

