

PX PUMPER A/S



**The new PX-line
– Submersible wastewater pumps**

0,55 - 85 kW - 50 Hz

PXPUMPS®

The PX range of wastewater pumps embodies intelligent design, practical features and is extremely user-friendly, a major criteria with end users.

Minimising "Life Cycle Cost" through high hydraulic and electrical motor efficiencies, interchangeability of important components, improved serviceability and reduced downtime are important factors which result in a cost effective PXPUMPS® installation.

Motors

All electrical motor units are rated EFF 1, the highest energy saving norm to date, have Class H insulation, three thermal overload switches, one per phase, internally wound to combat high temperature loads.

Manufactured within the European Union these motors comply fully with the latest manufacturing and environmental standards.

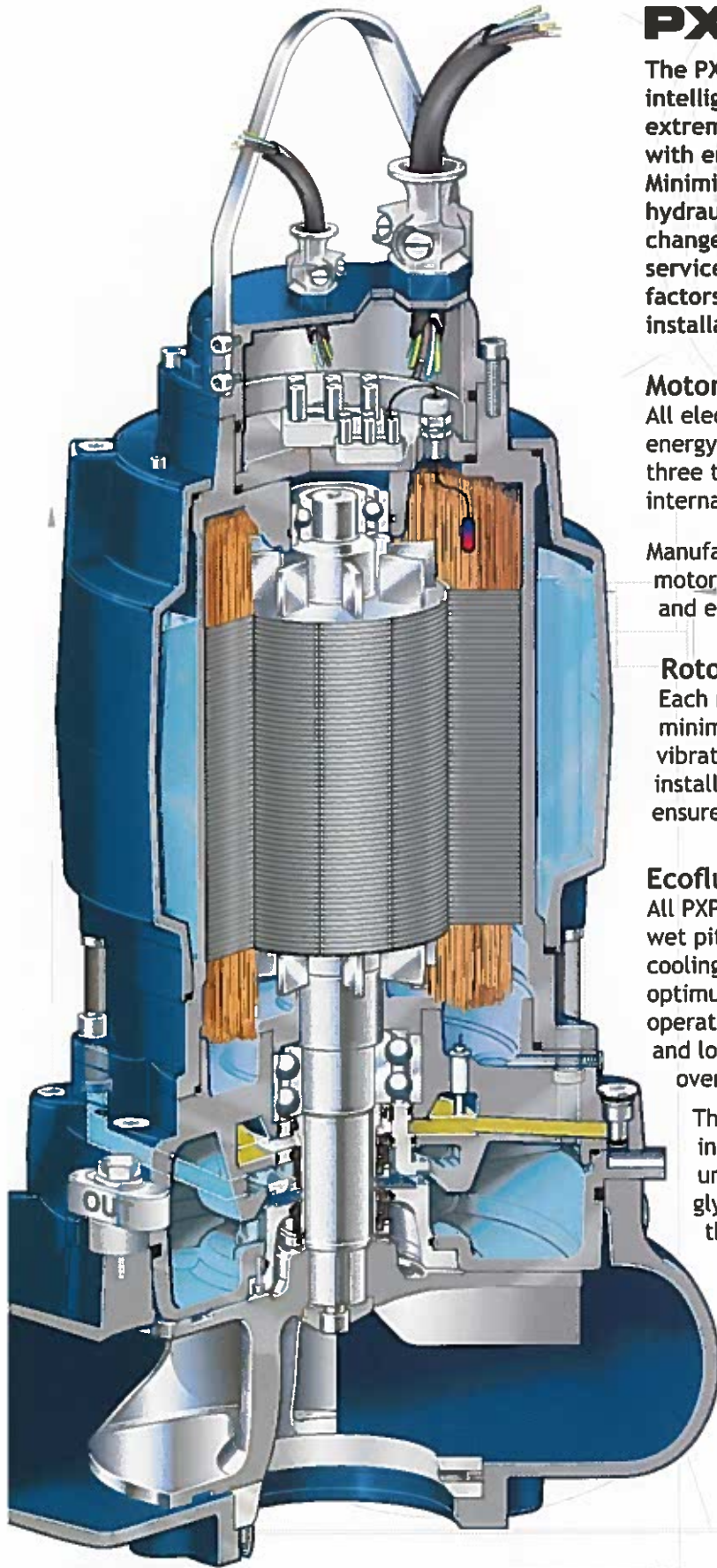
Rotor & Shafts

Each module utilises only one oversized shaft, minimising stock holding and ensuring smooth vibration free running even with maximum powers installed. The material of stainless steel as standard ensures high strength and corrosion resistance.

Ecoflu

All PXPUMPS®, from 2,5-22kW, dry pit, portable and wet pit design versions are supplied with "Ecoflu" cooling jackets. This standard feature ensures optimum cooling of the motor across a wide range of operating conditions including dry pit, inverter drives and low level sumps where conditions conducive to overheating are likely to occur.

The "Ecoflu" cooling system is driven by an internal impeller located in the mechanical seal unit which circulates the coolant, a clean water/glycol mix, through cooling passages surrounding the motor. The coolant absorbs the heat generated by the motor unit and dissipates it either to the liquid being pumped as in a wet sump or to the atmosphere through the pump body if installed in a dry pit installation. Being a closed system, not utilising the liquid pumped the "Ecoflu" remains free of any blockage or silting, a common problem in conventional jacketed pumps.





Conventional pumps utilise a radial ring, which must be replaced when wear occurs as no adjustment is possible with this design. Adjustment with the "Minimizer" is simply re-locking three screws once the desired clearance has been set. Another unique feature is a set of cutting vanes in the design of the ring, which prevents fibrous material building up between impeller and wear ring.

Fast Lock

Quick release stainless steel latch bolts allow easy removal of the motor unit from the pump volute and in dry pit installations the volute remains in the pipe system greatly reducing maintenance downtime.

A controlled temperature environment will extend the "Working Life Cycle" of supporting components such as bearings, oil seals, o-rings, mechanical seals etc. and ultimately that of the pump unit also.

Mechanical Seal

Double mech. seals supplied in a user-friendly cartridge unit facilitate speedy seal changes even on-site with no special tools required. The seal on the media side (impeller side) is made of silicon carbide against silicon carbide. The seal on the cooling side is made of carbon against silicon carbide.

Every cartridge seal whether installed in a pump or sold as a spare part is pressure tested prior to despatch.

Minimizer

To reduce hydraulic losses between the channel type impeller and the wear ring, PXPUMPS® are fitted with an axially adjusted ring which can be re-positioned when wear affects pump efficiency.

Impeller

PXPUMPER A/S offer a wide range of single vane, multi vane and vortex impellers in ductile iron GGG40 or as an option in stainless steel. All are of non clogging design and can be trimmed, at no additional cost, to match client's specific requirements. All impeller types can be accommodated in the same volute, which would allow end users to tailor their pumping plant to changing duties.



Modules



PX0

This range of portable non clogging pumps is fitted with vortex impellers and suitable for light industrial effluents. Units are in cast iron with stainless steel fixing and double mechanical seals. Large PX0 units can handle low volume domestic sewage, single houses, farms etc.

PX0	Impeller types	Outlet	Inlet	kW(P2)	Voltage	Rpm.	Throughlet	Weight in kg	Cable	Version available
PX0-37	Vortex	1½" (37mm)	1½" (37mm)	0.55	1x230 / 3x230 / 3x400	2900	36 mm	13	10 m	Wet, portable
PX0-50	Vortex	2" (50mm)	2" (50mm)	0.8	1x230 / 3x230 / 3x400	2900	45 mm	22	10 m	Wet, portable



PX1

Larger throughlets allow this range to be offered for municipal raw sewage applications characterised by large solid contents and/or fibrous media. Rugged construction, proven reliability and competitive pricing make this a popular range in the PX stable.

PX1	Impeller types	Outlet	Inlet	kW(P2)	Voltage	Rpm.	Throughlet	Weight in kg	Cable	Version available
PX1-65-2	Vortex	2½" (65mm)	2½" (65mm)	1.85	3x230 / 3x400	2900	50 mm	33	10 m	Wet, portable
PX1-65-2	Vortex	2½" (65mm)	2½" (65mm)	2.2	3x230 / 3x400	2900	50 mm	40	10 m	Wet, portable
PX1-65-4	Vortex	2½" (65mm)	2½" (65mm)	1.1	3x230 / 3x400	1450	55 mm	32	10 m	Wet, portable
PX1-70-2	Vortex	3" (80mm)	3" (80mm)	3.5	3x230 / 3x400	2900	70 mm	95	10 m	Wet, dry, portable
PX1-80	Channel/Vortex	3" (80mm)	3" (80mm)	2.5	3x230 / 3x400	1450	80 mm	95	10 m	Wet, dry, portable



PX2 and PX3

All PXPUMPS' unique features including "Fast Lock" bolts, "Minimizer", "Ecoflu" etc. are found in these pumps resulting in a service-friendly reliable pump design.

Over 200 customised combinations, utilising trimmed single vane, multivane and vortex impellers each available in high-medium-low versions. High pressure versions offer customers the widest comprehensive range to satisfy his individual requirements.

PX2	Impeller types	Outlet	Inlet	kW(P2)	Voltage	Rpm.	Throughlet	Weight in kg	Cable	Version available
PX2-80	Vortex	3"4" (80/100mm)	3"4" (80/100mm)	6,5	3x230 / 3x400	2900	70 mm	150	10 m	Wet, dry, portable
PX2-100	Channel/Vortex	4"6" (100/150mm)	4"6" (100/150mm)	2,5-6,0	3x230 / 3x400	960-1450	100 mm	153	10 m	Wet, dry, portable
PX2-150	Channel/Vortex	6" (150mm)	6" (150mm)	2,5-6,0	3x230 / 3x400	960-1450	100 mm	158	10 m	Wet, dry, portable

PX3	Impeller types	Outlet	Inlet	kW(P2)	Voltage	Rpm.	Throughlet	Weight in kg	Cable	Version available
PX3-80	Vortex	3"4" (80/100mm)	3"4" (80/100mm)	6,0-21,0	3x230 / 3x400	2900	70 mm	205-254	10 m	Wet, dry, portable
PX3-100	Channel/Vortex	4"6" (100/150mm)	4"6" (100/150mm)	6,6-17,0	3x230 / 3x400	960-1450	100 mm	201-247	10 m	Wet, dry, portable
PX3-150	Channel/Vortex	6" (150mm)	6" (150mm)	6,6-17,0	3x230 / 3x400	960-1450	100 mm	215-267	10 m	Wet, dry, portable



PX4

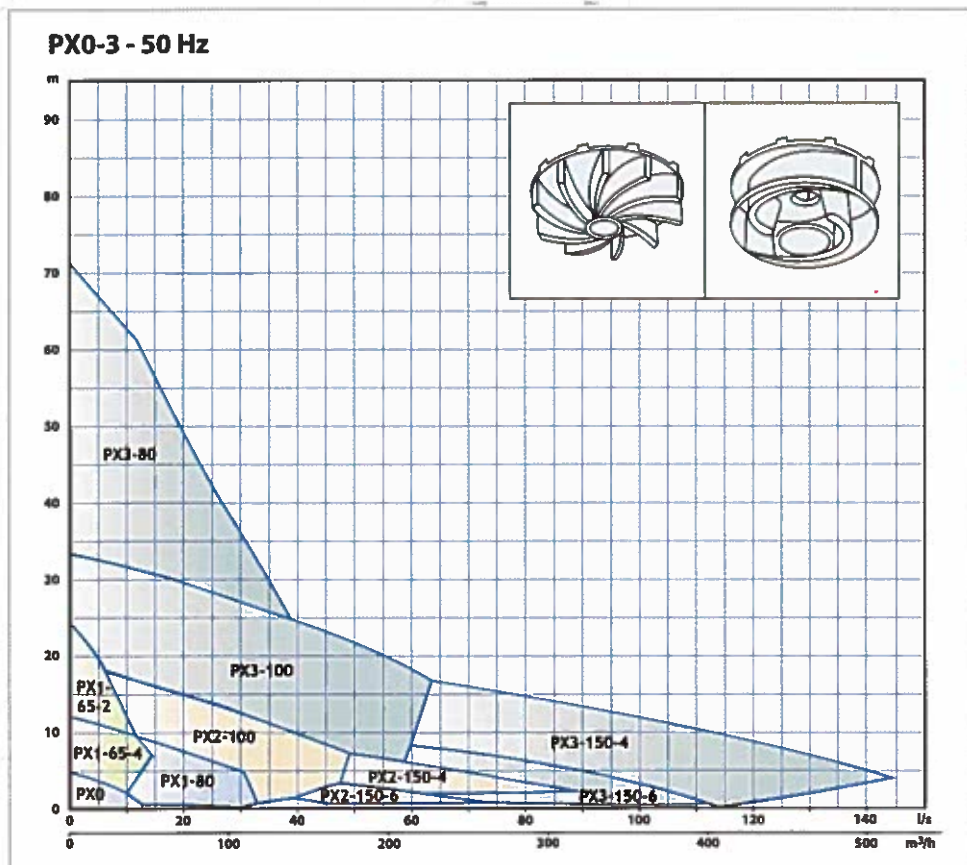
This module is designed specifically to offer high hydraulic efficiencies with installed powers up to 85kW. On request units can be equipped with "Ecoflu", supplied in various material and motor options. Large solid handling capability, up to 140mm ensure clog-free operation.

PX4	Impeller types	Outlet	Inlet	kW(P2)	Voltage	Rpm.	Throughlet	Weight in kg	Cable	Version available
PX4-100	Single channel	4" (100mm)	4" (100mm)	30,0-37,0	3x230 / 3x400	2900	70	360-366	10 m	Wet, dry, portable
PX4-150	Dual channel	6" (150mm)	6" (150mm)	22,0-30,0	3x230 / 3x400	1450	102	328-330	10 m	Wet, dry, portable
PX4-200	Dual channel	8" (200mm)	8" (200mm)	22,0-55,0	3x230 / 3x400	1450	102	584-602	10 m	Wet, dry, portable
PX4-250	Three channel	10"12" (250/300mm)	10" (250mm)	16,0-85,0	3x230 / 3x400	960-1450	140	564-1010	10 m	Wet, dry, portable
PX4-300	Three channel	12" (300mm)	14" (350)	22,0-55,0	3x230 / 3x400	960	140	1170-1215	10 m	Wet, dry, portable

Material specification

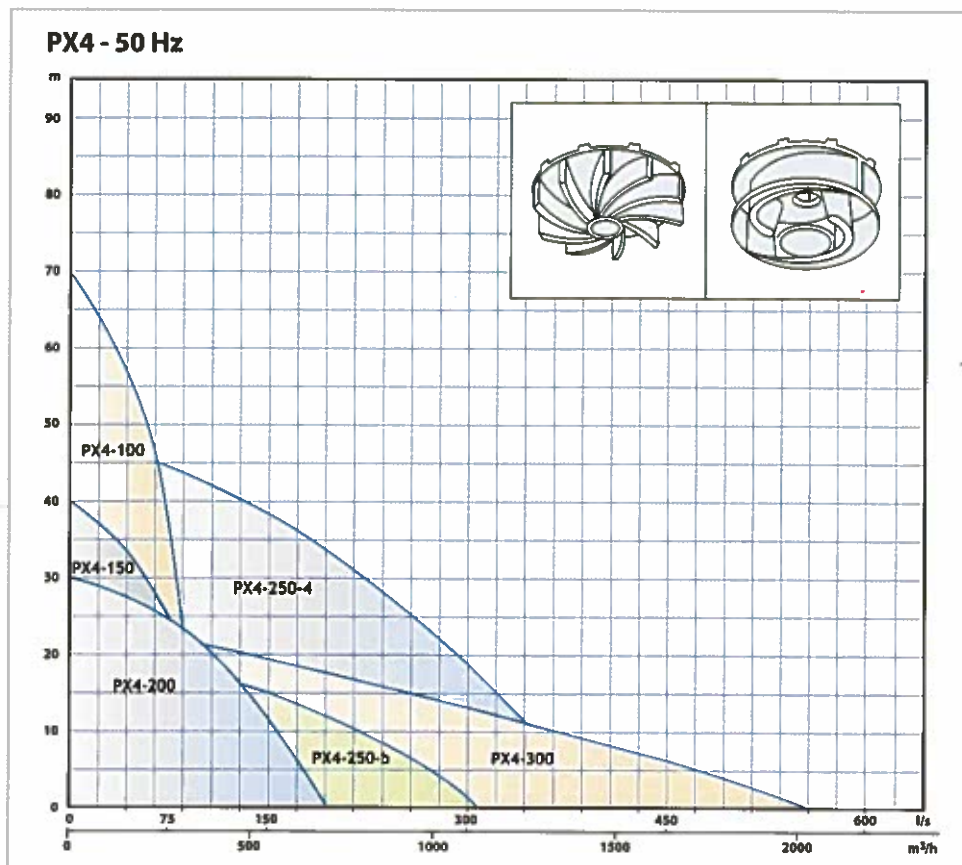
Stator housing, volute, base elbow, wearing, cable lock	Cast iron	GG-25	
Impeller, adapter	Ductile iron	GGG-40	
Option : Stainless steel impeller	Cast stainless steel	AISI316	X2CrNiMo1812
Shaft, shaft sleeve in seal	Stainless steel	AISI420	X20Cr13
Bolts, lift handle	Stainless steel	AISI304	X5CrNi18 9
Mech. seals	Media side : Sic/Sic	Cooling side : Sic/carbon	Upper, motor side : Radial ring
O-rings	Nitrile	Perbunan	
Oil	Hydraulic oil 10 Cst.		
Cooling liquid	Propylene glycol 20 % + 80 H2O (tap water)		
Motors	Siemens	EFF I	Class H insulation

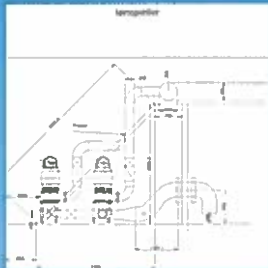
For further info, please contact your local PXPUMPS® dealer



Advantages

- Cartridge seal
- Fast lock latch bolts
- Oil tap drain
- Closed cooling jacket even on wet installations
- Adjustable wear ring
- Channel & vortex impellers in the same volute
- High efficiency motors acc. to EFF I
- Low number of spare parts





PXPUMPER A/S company info

PXPUMPER A/S is based on 25 years of experience and has a proud record of being the premier supplier of submersible wastewater pumps in their country of origin, Denmark and has a world wide distribution network in more than 40 countries.

A modern production facility equipped with state of the art CNC machining centres guarantees high quality products to Scandinavian standards of excellence.

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