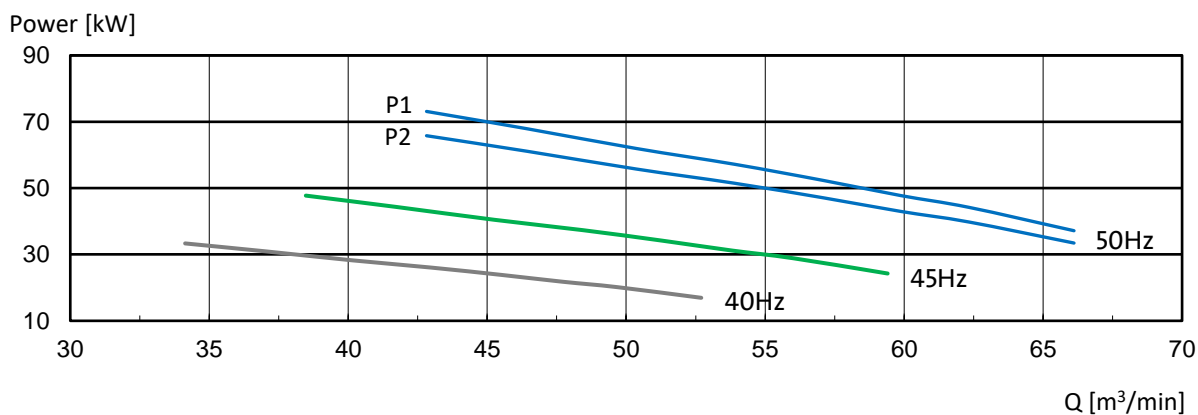
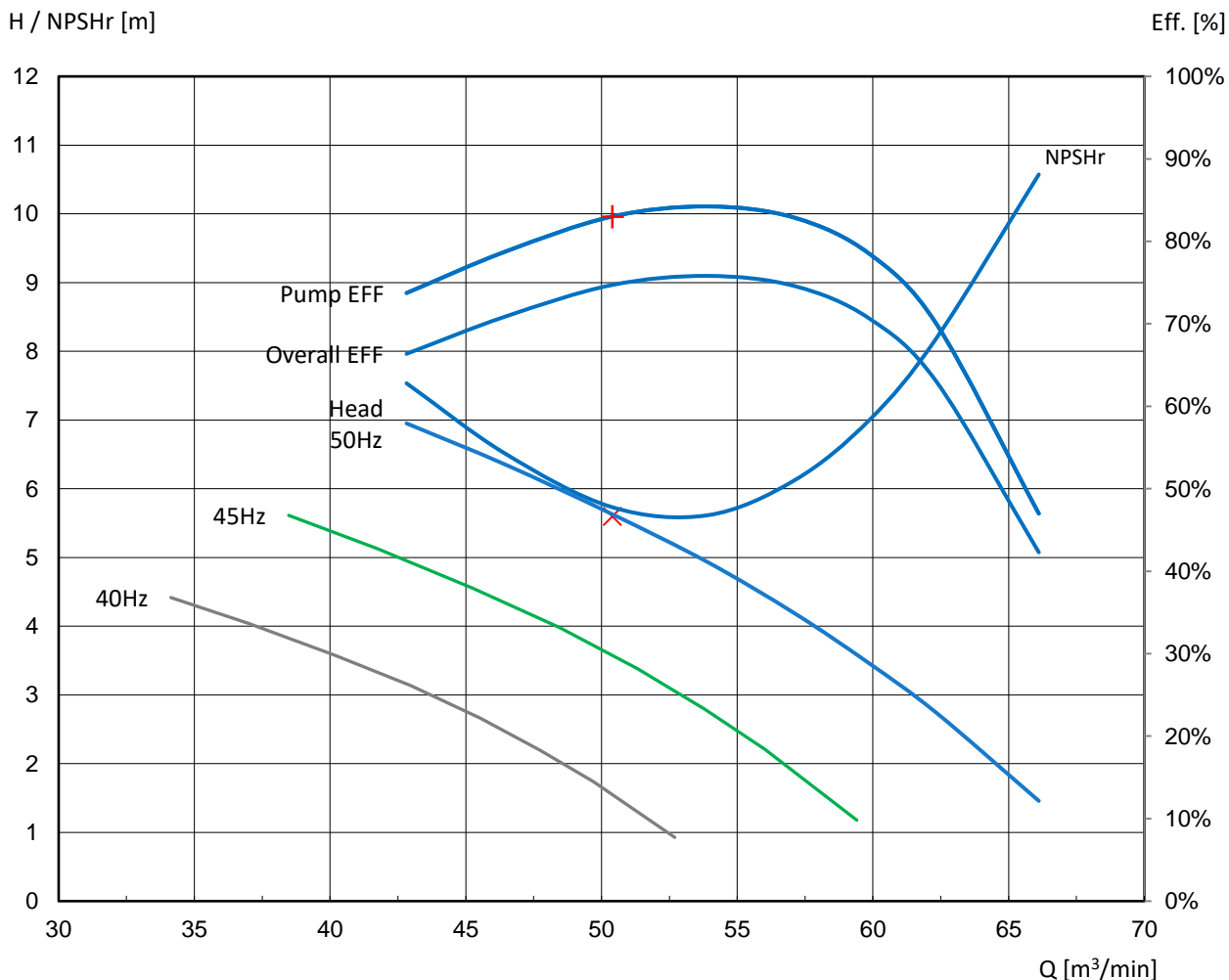


KPL.800.75.8.T.50.L.40.Z

Characteristic curves to ISO 9906 2B

Duty point : Flow(Q) 50.4 m³/min, Head(H) 5.6 m, Pump Eff. 83 %, Overall Eff. 74.7 %, P1. 83.3 kW, P2. 75 kW



Technical specification

KPL.800.75.8.T.50.L.40.Z

Pump

Pump type	Submersible axial flow
Number of pumps	3 set
Application	Flood control
Duty flow (Q)	50.4 m ³ /min
Duty head (H)	5.6 m
Min. water level(M.W.L) at duty point	2.5 m
Bearing life time(L10a at BEP)	60000 hr
Paint specification	Epoxy
Paint thickness	150 µm
Max. particle size	95 mm
Column tube dia.	800 mm
Pump efficiency	83.0%
Overall efficiency	74.7%
Curve tolerance	ISO 9906 2B
Net weight	1100 kg

Material

Propeller	Stainless Casting SSC 13 [G-X6CrNi189-1.4308]
Cable entry	Stainless Casting SSC 13 [G-X6CrNi189-1.4308]
Lifting bracket & Cable clamp	Stainless Casting SSC 13 [G-X6CrNi189-1.4308]
Motor shaft	Stainless Steel STS 410 [X10Cr13]
Stator housing	Cast Iron GC 250 [EN-GJL-250]
Wear ring	Stainless Steel STS 304 [X5CrNi189-1.4301]
Suction & Discharge casing	Cast Iron GC 250 [EN-GJL-250]
Cable type & length	PNCT-S , 10 M
Mechanical seal	SIC / SIC
Other casting parts	Cast Iron GC 250 [EN-GJL-250]

Sensor

Stator thermal protection (each phase)	Bi-metal
Stator thermal protection (1 phase)	PT-100Ω
Bearing thermal protection (lower)	PT-100Ω
Bearing thermal protection (upper)	PT-100Ω
Terminal box moisture sensor	Switch type
Motor housing moisture sensor	Switch type
Water in oil sensor (Analog)	Yes
Vibration sensor (Analog)	No
SM113 Inside Pump	

Electrical data

Motor type	Squirrel cage induction motor
Design standard	NEMA - Design B
Frequency	50 Hz
Rated voltage	3Φ x 400 V
Power input - P1	83.3 kW
Rated power - P2	75.0 kW
No. of pole	8 P
Rated speed	720 rpm
Rating	Continuous
Rotor type	Squirrel cage
Starting method	VFD(Inverter)
Enclosure class (IEC 34-5)	IP68
Insulation class (IEC 85)	F
Temp. rise class	F
Rated current	152.3 A
Starting current	776 A
Motor efficiency at full load	90.0 %
Motor efficiency at 3/4 load	89.8 %
Motor efficiency at 1/2 load	88.0 %
Cos phi at full load	0.790
Cos phi at 3/4 load	0.740
Cos phi at 1/2 load	0.625
Full load torque	101.5 kg·m
Breakdown torque	200 %
Service factor	1.1
No. of starts per hour	10
Voltage tolerance	± 10 %
Frequency tolerance	± 5 %
Explosion proof	No

Installation

Max. ambient temperature	40 °C
Flange standard	-
Pump inlet dia.	-
Column pipe Dia.	DN 800
Pump installation	Vertical
Maximum installation depth	20 m
Installation type	Tube Installation

Liquid

Pumped liquid	Any Newtonian liquid
Liquid temperature range	0 ~ 40 °C
Density at selected liquid temperature	999.2 kg/m ³

Accessories

KPL.800.75.8.T.50.L.40.Z



The KPL (submersible axialflow propeller pumps) and KWM (submersible mixedflow pumps), are a pump range specifically designed for column installation from DN500 to DN1800.

The KPL and KWM pumps are designed for applications such as:

- flood and stormwater control
- drainage/irrigation of large quantities of water
- raw-water intake
- transfer and circulation of liquids in large-scale municipal sewage treatment plants
- circulation of large quantities of water in water theme parks etc.
- aqua culture

Note! Product picture may differ from actual product

The KPL and KWM pumps are suitable for permanent installation.

The lifting bracket facilitates easy transportation and installation on site as well as cable fixation above the cable inlet.

The pumps are made of resistant materials, such as cast iron and stainless steel. These materials ensure a proper operation.

The pumps are very service friendly with features like double shaft seal in the unique cartridge design and cable entry connector.

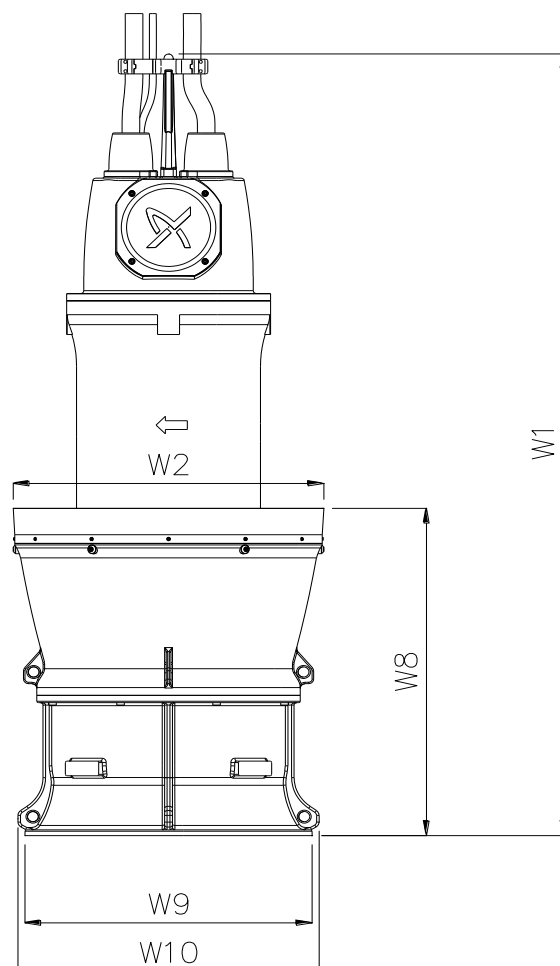
The cartridge shaft seal allows change of shaft seal very quickly in the field without any special tools whereas the cable entry connector allow the cable to be dismantled without removing the motor top.

These smartdesign features eliminates the risk of faulty installation.

To increase the efficiency the pumps are fitted with a innovative patented turbulence optimizer which reduce the turbulence between the pump casing and the column pipe.

KPL.800.75.8.T.50.L.40.Z

Pump net weight : 1100 kg



Dimension [mm]

W1	W8	W2	W9	W10
2135	925	790	720	775

Note! All units are in [mm] unless others are stated.

Disclaimer: This simplified dimensional drawing does not show all details.