

# PAS 100 HF T4F YD

Diesel - Qmax 280 m<sup>3</sup>/h (1,230 USgpm) - Hmax 33,5 m (110 ft)



Indicative picture of the product

## PAS HF - Vacuum prime centrifugal pumps

The pump system consists of a centrifugal pump and a separator, which enables air to be separated from the liquid and be sucked by a vacuum pump - making automatic priming possible. Even with suction heights of several meters the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, thanks to the semi-open impeller, the PAS HF range is also suitable for pumping liquids with solids in suspension.

## Applications

Both Atlas Copco and Varisco have decades of experience in designing and producing pumps. We have put those years of expertise into providing a solutions portfolio that works across multiple applications. The PAS HF (high flow) range is packed with features that not only meet, but exceed the needs of the market. We are focused on an efficient, extremely versatile pump that is suitable for many industries, including construction, general dewatering and emergency applications, such as flood clean up.

## Benefits

### Pump

High efficiency: 75% (B.E.P)

### Rapid "dry" priming

Up to a height of 7,5 m (24.6 ft)

### High resistance

To abrasive liquids and turbid sandy waters

### Semi-open impeller

Solids handling up to 45 mm (1.8")

### Diaphragm vacuum pump

Oil free suitable for dry running: no contamination of the environment

### Mechanical shaft seal in oil bath

It allows the "dry running" operation of the pump

### Wear plate

Cast iron (rubber lined) wear plate that is easily replaceable

### Easy maintenance

Hinged cover for direct access to the impeller (without lifting devices). Link belt quick to replace on the field.

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## Performance curves

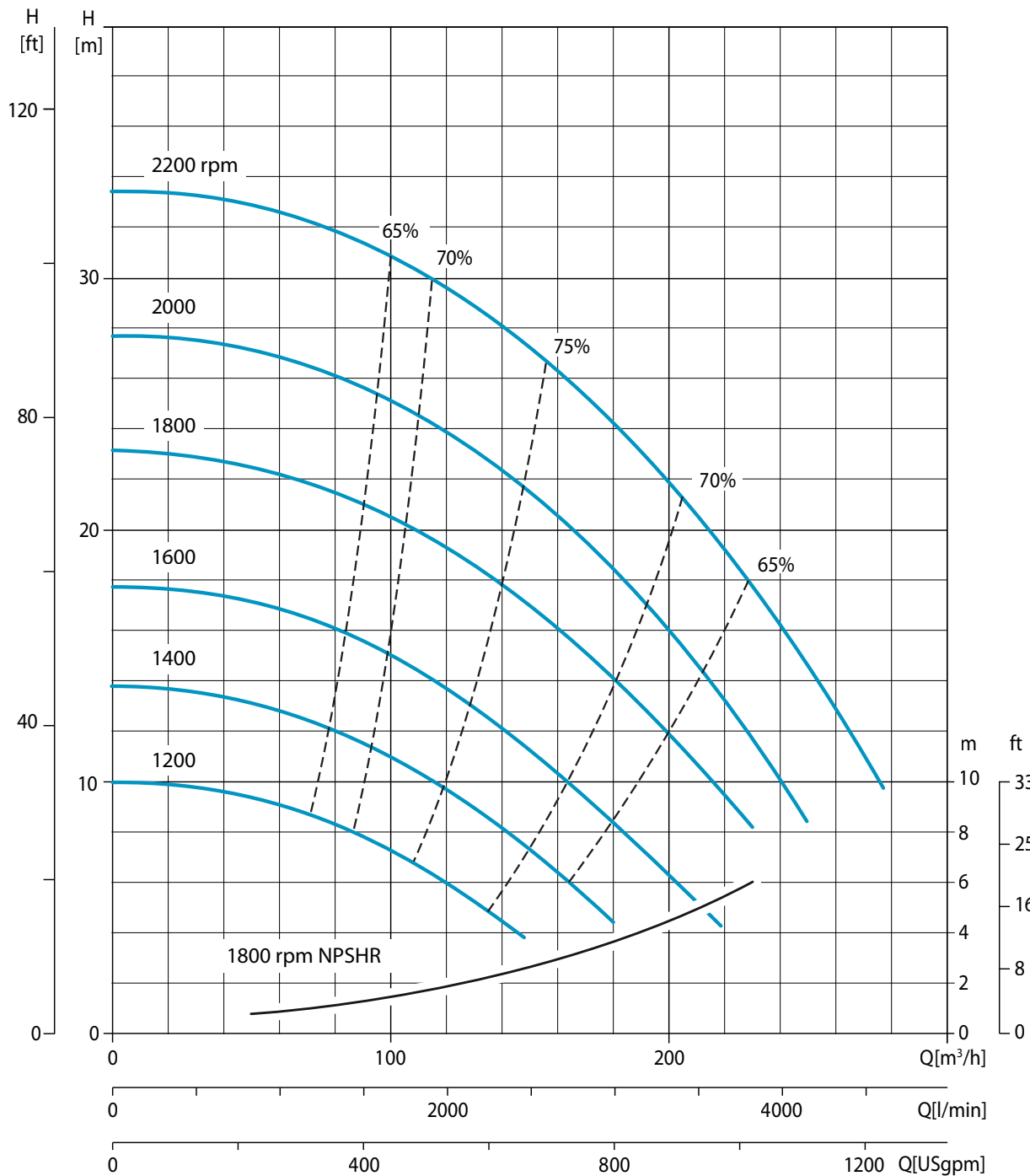
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density 1,000 kg/m<sup>3</sup>

Spherical solids handling: D.45 mm (1.8")

Priming time: 30 s from 1,5 m (4.9 ft)

Max absorbed power: 16,5 kW – 22.1 HP (2.200 rpm)



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## Technical data

### Pump

<b>Model</b>	<b>PAS 100 HF T4F YD</b>
<b>Qmax</b>	280 m <sup>3</sup> /h - 4.670 l/min (1,230 USgpm)
<b>Hmax</b>	33.5 m (110 ft)
<b>Q max eff.</b>	155 m <sup>3</sup> /h - 2.580 l/min (680 USgpm)
<b>Eff. max</b>	75%
<b>Suction port</b>	Flanged - ANSI 100
<b>Delivery port</b>	Flanged - ANSI 100
<b>Impeller type</b>	Semi-Open, 2 vane
<b>Solids handling</b>	45 mm (1.8 ")
<b>Material</b>	<b>G11</b>
<b>Casing</b>	EN-GJL-200 cast iron
<b>Impeller</b>	EN-GJS-500 ductile iron
<b>Wear plates</b>	EN-GJL-200 cast iron
<b>Number of plates</b>	1
<b>Shaft</b>	39NiCrMo4 steel
<b>Flushing</b>	Yes
<b>Mechanical seal</b>	Tungsten carbide / Tungsten carbide
<b>Elastomers</b>	VITON
<b>Lubrication</b>	Oil

### Priming system

<b>Vacuum pump</b>	<b>V20</b>
<b>Vacuum pump type</b>	Diaphragm
<b>Nominal air capacity</b>	50 m <sup>3</sup> /h (29.4 cfm)
<b>Max vacuum</b>	0,9 bar (13.1 psi - 26.6 inHg)
<b>Separator type</b>	-
<b>Separator material</b>	EN-GJL-200 cast iron
<b>Drives</b>	Link belt

### Engine

<b>Make</b>	<b>Yanmar</b>					
<b>Model</b>	3TNV88					
<b>Type</b>	Common Rail					
<b>Displacement</b>	1,642 cm <sup>3</sup> (100 in <sup>3</sup> )					
<b>No. cylinders</b>	3					
<b>Cooling</b>	Water cooled					
<b>Rpm type</b>	Variable					
<b>Standard speed</b>	2.200 rpm					
<b>US emissions</b>	EPA Tier 4F					
<b>Starting</b>	Electric					
<b>Starting voltage</b>	12 V					
<b>Oil change interval</b>	250 h					
<b>Speed [rpm]</b>	<b>1200</b>	<b>1400</b>	<b>1600</b>	<b>1800</b>	<b>2000</b>	<b>2200</b>
<b>Power [kW]*</b>	11.3	13	14,6	16	17,2	18
<b>Power [HP]</b>	15.2	17.2	19.6	21.5	23.1	24.1

\* continuous power ISO 3046 ICXN

### Control panel

<b>Model</b>	<b>PW 750</b>
	Manual operation
	Automatic operation: start-stop with transducers or floats
	Digital display with 6 languages (EN, SV, FR, DE, ES, IT) with:
	Hour meter, Rev counter, Liquid temperature, Oil pressure and temperature
	Battery voltmeter, Fuel level (%) and consumption (l/h)
	Automatic engine shutdown in case of:
	- low oil pressure
	- engine overheating
	- low battery voltage
	(engine failure alarms with LED lights and display message)
	Service time (hours)
	Emergency stop button
	Push-button accelerator (up/down)
	(PW1 FleetLink control as option)

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## Arrangement

### Technical data

Material	ASTM A36 steel
Coatings	Polyester powder, average thickness of 3 MIL
Features	Lifting beam
Battery	Acid charge Pb-Ca maintenance free, 12 V - 630 CCA
Tank	54 USG
Locking keys	Fuel cap
Fuel consumption	1 US Gal / hr @2200 rpm @BEP
H suction port	45.5 in (3.8 ft)
Dry weight	2700 lbs

### Dimensional

(in)

