

# PAS 100 HF T4F

Diesel - Qmax 280 m<sup>3</sup>/h (1,230 USgpm) - Hmax 50 m (164 ft)



## 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: 70% (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 76 mm (3")

### 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

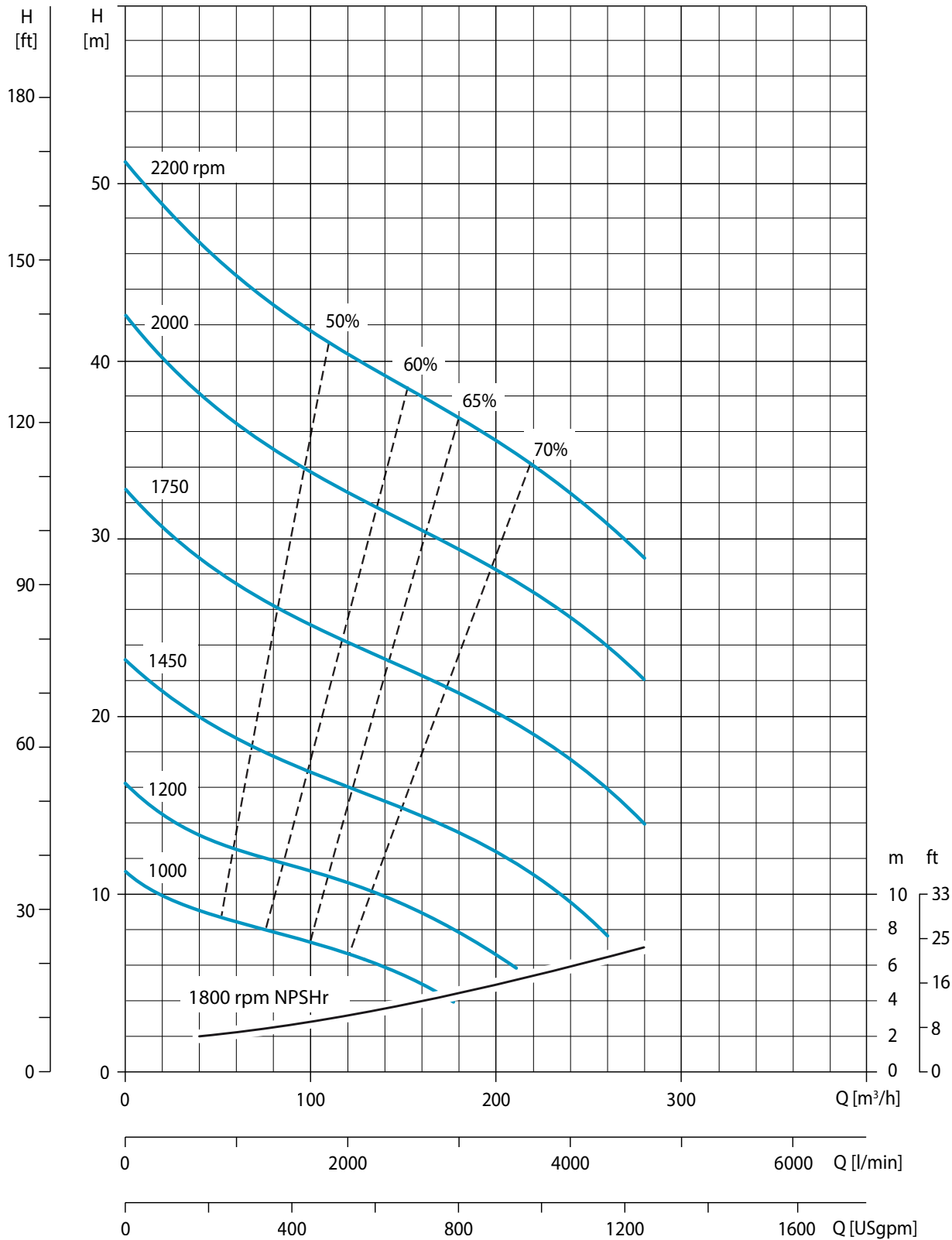
Test according to UNI EN ISO 9906 standard - level 2

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

Spherical solids handling: D.76 mm (3")

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

Max absorbed power: 29,0 kW - 38.9 HP (2.200 rpm)



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## Technical data

### Pump

Model	PAS 100 HFS T4F
Q <sub>max</sub>	280 m <sup>3</sup> /h - 4.670 l/min (1,230 USgpm)
H <sub>max</sub>	50 m (164 ft)
Q max eff.	220 m <sup>3</sup> /h - 3.670 l/min (1,000 USgpm)
Eff. max	70 %
Suction port	Flanged - ANSI 100
Delivery port	Flanged - ANSI 100
Impeller type	Semi-Open, 2 vane
Solids handling	76 mm (3.0 ")
Material	G11
Casing	EN-GJL-200 cast iron
Impeller	EN-GJS-500 ductile iron
Wear plates	EN-GJL-200 cast iron
Number of plates	1
Shaft	39NiCrMo4 steel
Flushing	Yes
Mechanical seal	Tungsten carbide / Tungsten carbide
Elastomers	VITON
Lubrication	Oil

### Priming system

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

### Engine

Make	Kohler					
Model	KDI 1903TCR					
Type	Diesel turbo common rail					
Displacement	1,861 cm <sup>3</sup> (114 in <sup>3</sup> )					
No. cylinders	3					
Cooling	Liquid with radiator					
Rpm type	Variable					
Standard speed	2.200 rpm					
US emissions	EPA Tier 4F					
Starting	Electric					
Starting voltage	12 V					
Oil change interval	500 h					
Speed [rpm]	1200	1400	1600	1800	2000	2200
Power [kW]*	22	27,7	31,7	33,6	34	34,9
Power [HP]	29.0	37.2	42.5	45.1	45.6	46.8

\* continuous power ISO 3046 ICXN

### Control panel

Model	PW 750
	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	27 USG
Locking keys	Fuel cap
Fuel consumption	1.8 US Gal/hr @2200 rpm @BEP
H suction port	29 in (2.4 ft)
Dry weight	3105 lbs

## Dimensional

