

# PAS 200HF CNP

Diesel - Qmax 950 m<sup>3</sup>/h - Hmax 53 m



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 solutions that work 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: - - - (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 or stainless steel (F11) 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

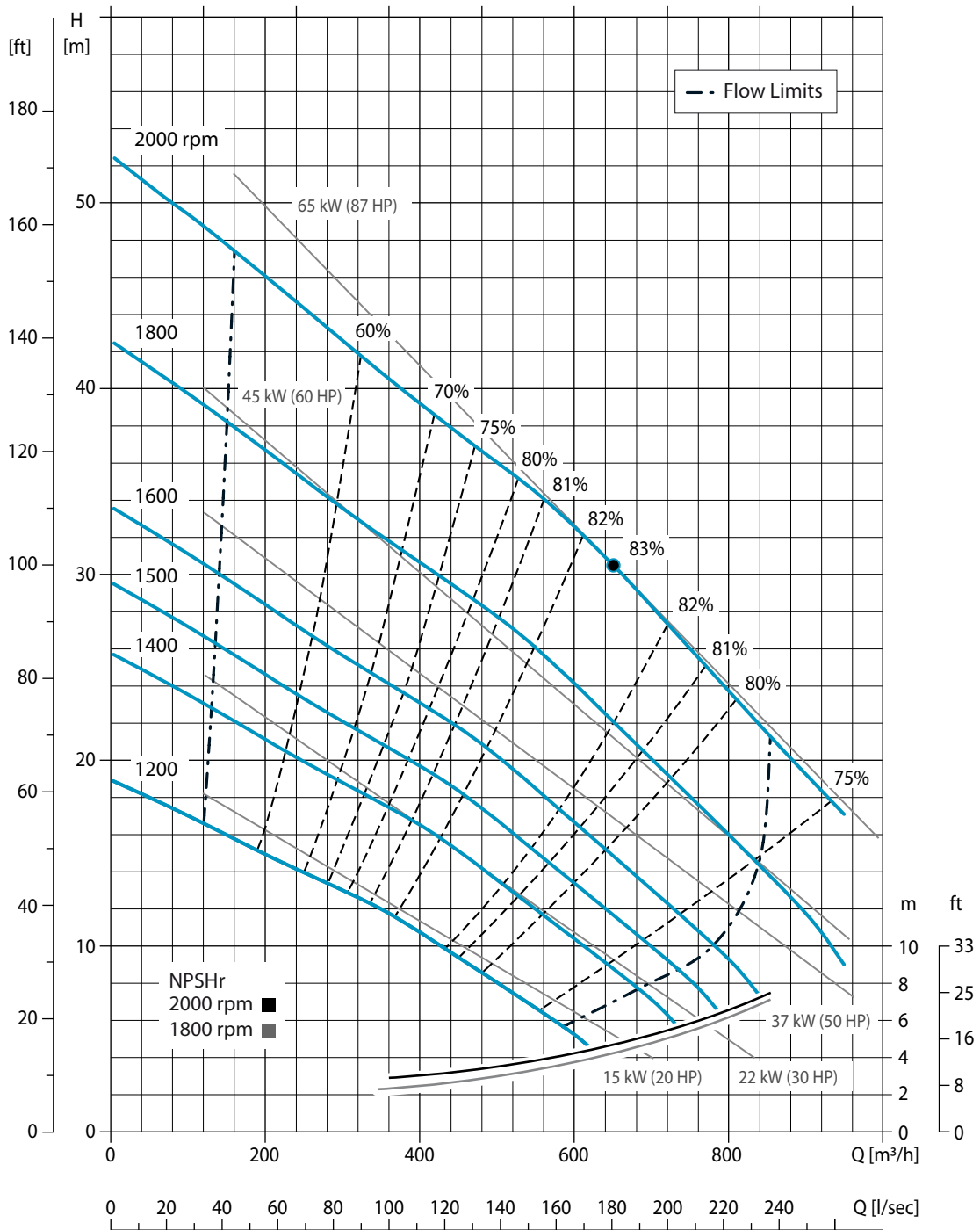
Test according to UNI EN ISO 9906 standard - level 2

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

Losses from priming system and check valve not included

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

Max absorbed power: 65kW - 87 HP (2.000 rpm)



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## Technical data

### Pump

<b>Model</b>	<b>PAS 200HF</b>
<b>Qmax</b>	950 m <sup>3</sup> /h (4180 Usgpm)
<b>Hmax</b>	53 m (174 ft)
<b>Q max eff.</b>	651 m <sup>3</sup> /h (4180 Usgpm)
<b>Eff. max</b>	83%
<b>Suction port</b>	Flanged - DIN 200
<b>Delivery port</b>	Flanged - DIN 200
<b>Impeller type</b>	Semi-Open
<b>Solids handling</b>	76 mm (3.0 ")
<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>Mechanical seal</b>	Tungsten carbide / Tungsten carbide
<b>Elastomers</b>	VITON

### Priming system

<b>Vacuum pump</b>	<b>V22</b>
<b>Vacuum pump type</b>	Diaphragm
<b>Nominal air capacity</b>	85 m <sup>3</sup> /h (50.0 cfm)
<b>Max vacuum</b>	0,9 bar
<b>Separator type</b>	Atlas Copco
<b>Separator material</b>	EN-GJL-200 cast iron
<b>Drives</b>	Link belt

### Engines

<b>Make</b>	<b>Kohler</b>			
<b>Model</b>	KDI 3404TCR			
<b>Type</b>	Diesel turbo common rail			
<b>Displacement</b>	3.359 cm <sup>3</sup> (205 in <sup>3</sup> )			
<b>No. cylinders</b>	4			
<b>Cooling</b>	Liquid with radiator			
<b>Rpm type</b>	Variable			
<b>Standard speed</b>	1.500 rpm			
<b>EU emissions</b>	2002/88/CE Stage IV			
<b>US emissions</b>	EPA Tier 4F			
<b>Starting</b>	Electric			
<b>Starting voltage</b>	12 V			
<b>Oil change interval</b>	500 h			
<b>Speed [rpm]</b>	<b>1400</b>	<b>1600</b>	<b>1800</b>	<b>2000</b>
<b>Consumption [l/h]</b>	8.2	10,9	15.2	19,5
<b>Power [kW]</b>	23.5	35.5	50	67.8
<b>Power [HP]</b>	31.5	47.8	67.1	91

### Control panel

<b>Model</b>	<b>PW600 (PW1)</b>
	Manual operation
	Automatic operation: start-stop with floats
	Digital display with 6 languages (IT,EN, FR, DE, ES, PT) with:
	Hour meter, Rev counter, Liquid temperature, Oil pressure
	Battery voltmeter, Fuel level (%)
	Engine regeneration management
	Automatic engine shutdown in case of:
	- low oil pressure
	- water overheating
	- low battery voltage
	(engine failure alarms with LED lights and display message)
	Emergency stop button
	Push-button accelerator (up/down)
	(PW1 FleetLink control as option)

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## Arrangement

### Technical data

Material	S235JR EN 10025-2 carbon steel
Coatings	Polyester powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Painted steel base. Stackable frame.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	415 l (109.6 USG)
Optional supply	(External fuel connection as option)
Drip pan	457,0 l (120.7 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

### CNP PAS 200HF



Dimensions	1940 x 3220 x 2195 mm 76 x 127 x 86 "
H suction port	0,81 m (2.7 ft)
Dry weight	2000 kg (4,410 lb)
Noise level	70-75 dB(A) @10 m (32 ft)