PAS 200HF 303 FZD67 CNP

Diesel - Qmax 264 l/s - 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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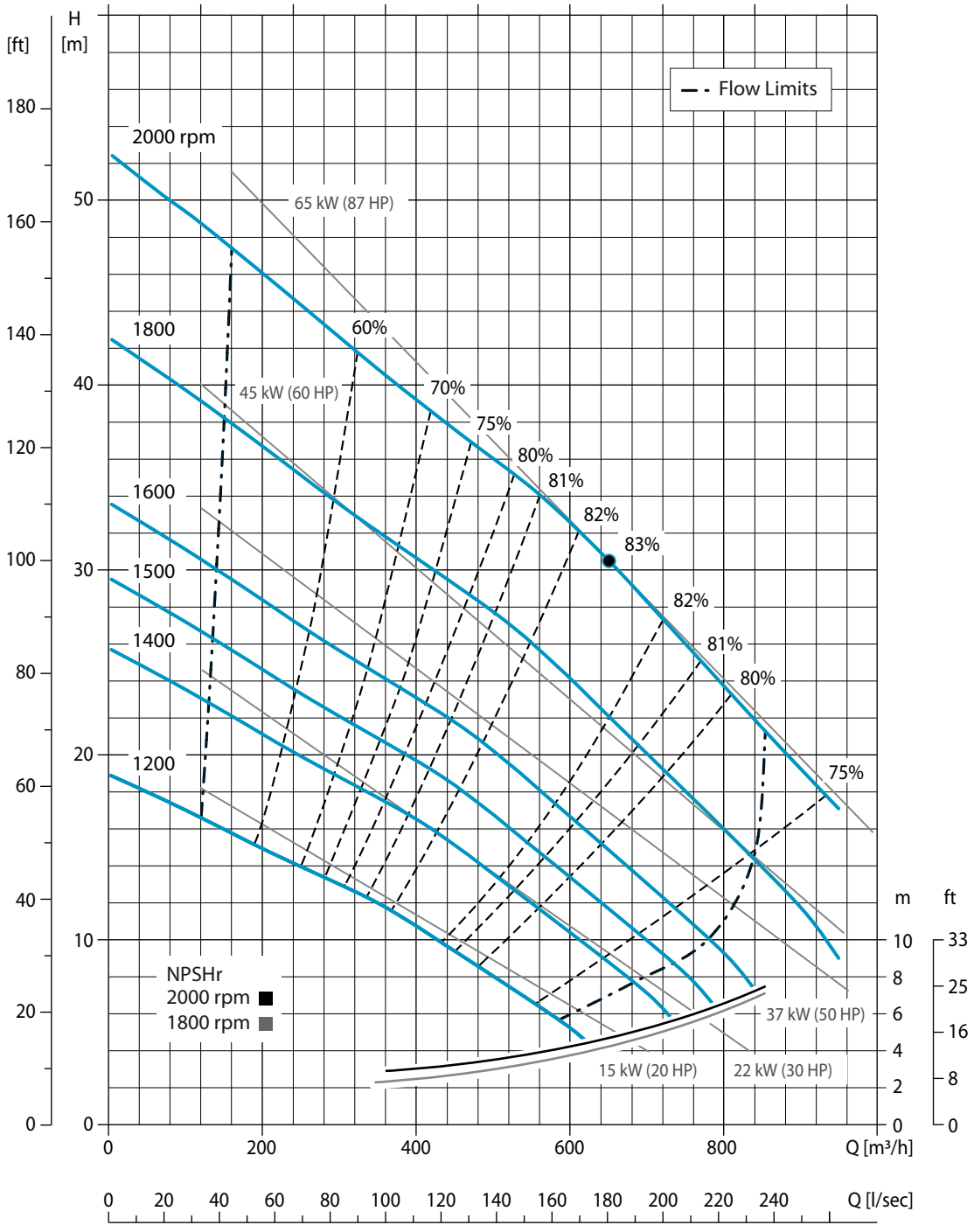
Performance curves

Test according to UNI EN ISO 9906 standard - level 2
Test liquid: clean water, density 1,000 kg/m³
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

Model	PAS 200HF	
Qmax	264 l/s - 950 m3/h (4180 Usgpm)	
Hmax	53 m (174 ft)	
Q max eff.	181 l/s - 651 m3/h (4180 Usgpm)	
Eff. max	83%	
Suction port	Flanged - 200 TABLE E (AS 2129)	
Delivery port	Flanged - 200 TABLE E (AS 2129)	
Impeller type	Semi-Open, 2 vane	
Solids handling	76 mm (3.0 ")	
Material	**G11**	**F11**
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron
Impeller	EN-GJS-500 ductile iron	CF8M stainless steel
Wear plates	EN-GJL-200 cast iron	CF8M stainless steel
Number of plates	1	1
Shaft	39NiCrMo4 steel	39NiCrMo4 steel
Mechanical seal	Tungsten carbide / Tungsten carbide	Tungsten carbide / Tungsten carbide
Elastomers	VITON	VITON

Priming system

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

Engine

Make	Deutz			
Model	TCD 3.6 L4 (ZD67)			
Type	Diesel turbo common rail			
Displacement	3.600 cm^3 (220 in^3)			
No. cylinders	4			
Cooling	Liquid with radiator			
Rpm type	Variable			
Standard speed	2.000 rpm			
US emissions	EPA Tier 3			
Starting	Electric			
Starting voltage	24 V			
Speed [rpm]	**1400**	**1600**	**1800**	**2000**
Consumption [l/h]	8.2	10,9	15.2	19,5
Power [kW]	23.5	35.5	50	67.8
Power [HP]	31.5	47.8	67.1	91

Control panel

Model	PWK37
	Manual operation: start, stop
	Automatic operation: start-stop with floats
	Digital display with 2 languages (EN, CN) with:
	Hour meter, Rev counter, Liquid temperature, Oil pressure
	Battery voltmeter, Fuel level (%)
	Engine control unit (ECU) commands shutdown, derating or running depending on operating anomalies
	Automatic engine shutdown in case of:
	- low oil pressure
	- water 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	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
Optional supply	(External fuel connection as option)
Drip pan	457 L (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	1230 W x 2610 L x 1800 H mm
H suction port	0,81 m
Dry weight	2000 kg
Noise level	70-75 dB(A) @10 m