

PAS 150HF 300 FKL66 CNP

Diesel - Qmax 510 m³/h (2,250 USgpm) - Hmax 51 m (167 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 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: 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

Easy maintenance

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

Wear plate

Cast iron or stainless steel (F10) wear plate, that is easily replaceable

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Performance curves

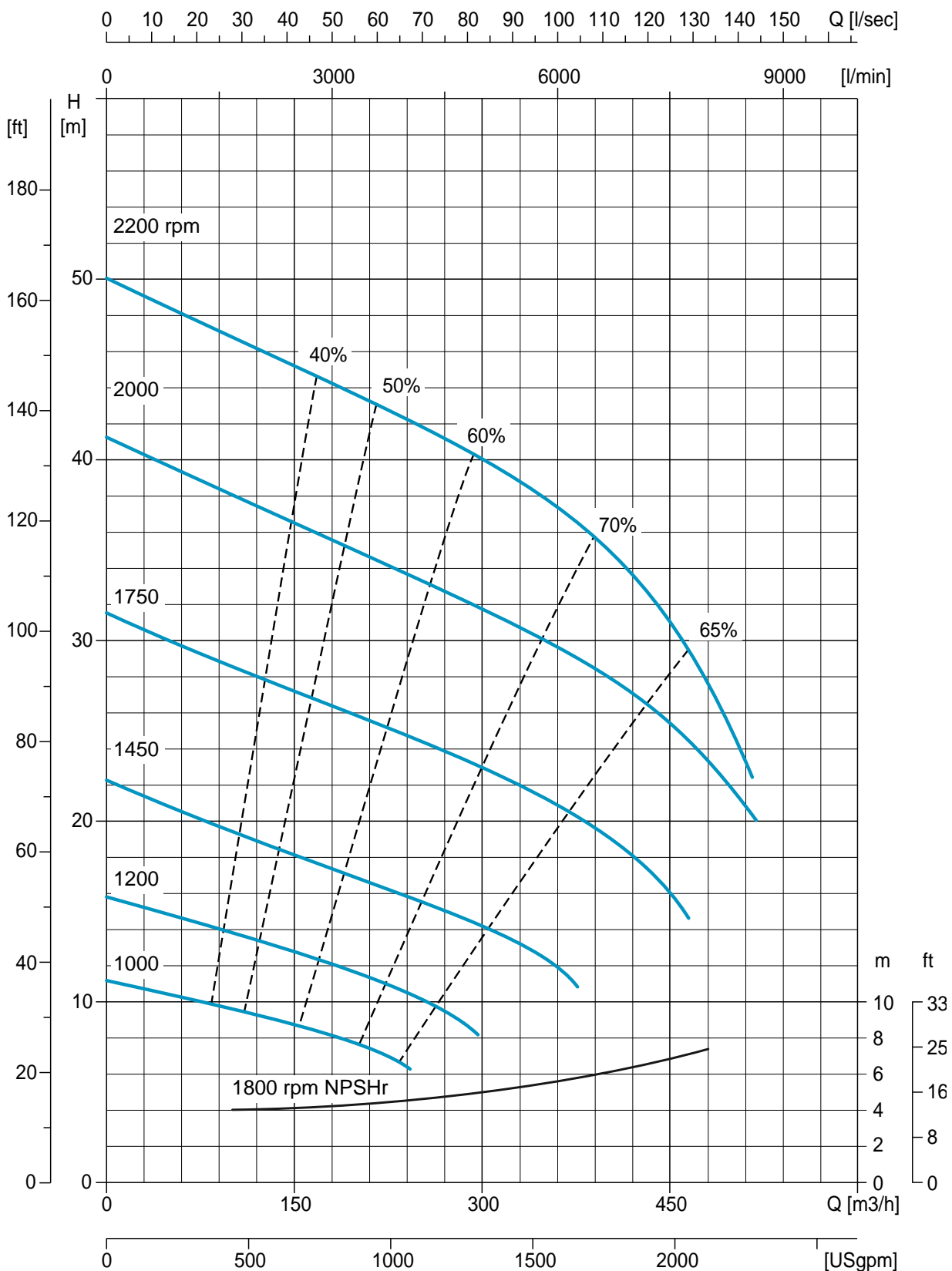
Test according to UNI EN ISO 9906 standard - level 2

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: 51,0 kW - 68.4 HP (2.200 rpm)



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Technical data

Pump

Model	PAS 150HF	
Qmax	510 m ³ /h - 8.500 l/min (2,200 USgpm)	
Hmax	51 m (167 ft)	
Q max eff.	390 m ³ /h - 6.500 l/min (1,700 USgpm)	
Eff. max	70 %	
Suction port	Flanged - DIN 150	
Delivery port	Flanged - DIN 150	
Impeller type	Semi-Open, 2 vane	
Solids handling	76 mm (3.0 ")	
Material	G10	F10
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	Valmatic
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Engines

Make	Kohler					
Model	KDI 2504TCR (KL66)					
Type	Diesel turbo common rail					
Displacement	2.482 cm ³ (151 in ³)					
No. cylinders	4					
Cooling	Liquid with radiator					
Rpm type	Variable					
Standard speed	2.200 rpm					
EU emissions	2002/88/CE Stage V					
US emissions	EPA Tier 4F					
Starting	Electric					
Starting voltage	12 V					
Oil change interval	500 h					
Speed [rpm]	1200	1400	1600	1800	2000	2200
Consumption [l/h]	7,6	9,5	10,9	11,7	11,9	12
Power [kW]	32,4	40,5	45,9	48,6	49,5	49,7
Power [HP]	43.4	54.3	61.6	65.2	66.4	66.6

Control panel

Model	PW750 (PW1)
	Manual operation
	Automatic operation: start-stop with transducers or floats
	Digital display with 8 languages (EN, SV, FR, DE, ES, IT, PT, NL) with:
	Hour meter, Rev counter, Liquid temperature, Oil pressure
	Battery voltmeter, Fuel level (%), Urea 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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Arrangements

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	355 l (93.8 USG)
Optional supply	(External fuel coupling as option)
Drip pan	390,0 l (103.0 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

CNP PAS 150HF



Dimensions	1100 x 2560 x 1705 mm 43 x 101 x 67 "
H suction port	0,7 m (2.3 ft)
Dry weight (KL66)	1680 kg (3,700 lb)
Noise level	65-70 dB(A) @10 m (32 ft)