

PAS 150HF 300

Diesel - Qmax 141 l/s - Hmax 51 m



PAS 150HF 300 Liquid cooled engine

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.

Technical data

Material	S275JR EN 10025-2 carbon steel
Coatings	Epoxy powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Modular and demountable framework, hot dip galvanised steel skid and lifting beam. Mudguards with galvanised steel walkable surface. Tow bar, adjustable support feet. Lockable battery box. Fuel level indicator.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	355 l
Locking keys	Fuel cap

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Benefits

Pump

High efficiency: 70% (B.E.P.)

Rapid "dry" priming

Up to a height of 8.5 m (27.5 ft)

High resistance

To abrasive liquids and turbid sandy waters

Semi-open impeller

Solids handling up to 76 mm (3")

Easy maintenance

Without lifting devices: hinged cover for direct access to the impeller

Diaphragm vacuum pump

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

Wear plate

Cast iron or stainless steel (F11) wear plate, that are easily replaceable



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Performance curves

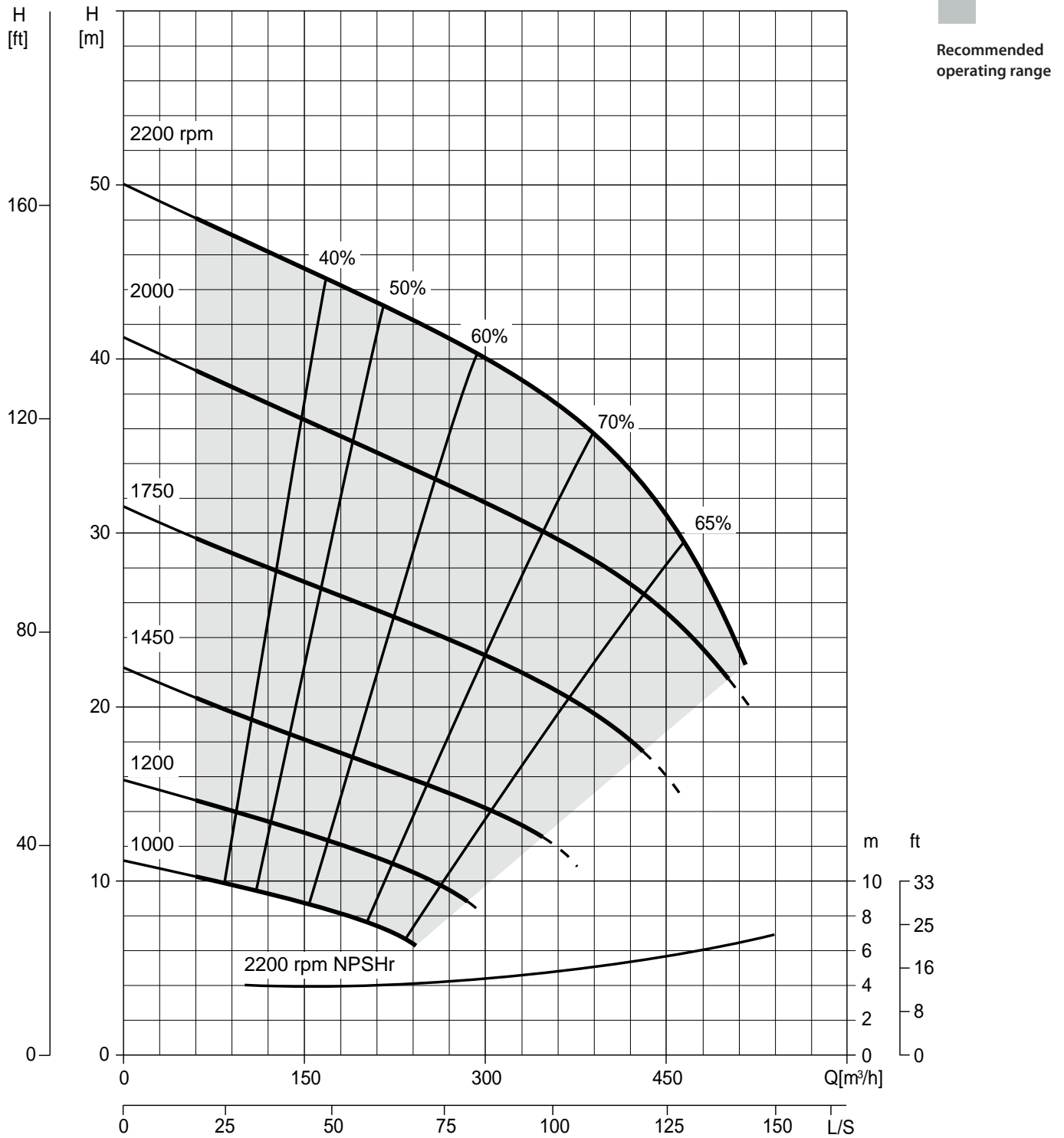
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density 1,000 kg/m³

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

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

Max absorbed power: 0,0 kW - 0.0 HP (2.200 rpm)



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Technical data

Pump

Model		PAS 150HF 300	
Qmax	141 l/s - 8.500 l/min (2,200 USgpm)		
Hmax	51 m (167 ft)		
Q max eff.	108 l/s - 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	G11		F11
Casing	EN-GJL-200 cast iron		EN-GJL-200 cast iron
Impeller	EN-GJS-500 cast iron		CF8M stainless steel
Wear plates	EN-GJL-200 cast iron		CF8M stainless steel
Number of plates	1		2
Shaft	39NiCrMo4 steel		39NiCrMo4 steel
Flushing	Yes		Yes
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		Deutz			
Model	TD 2.9 L4 (ZD54)				
Type	Diesel turbo common rail				
Displacement	2.900 cm ³ (177 in ³)				
No. cylinders	4				
Cooling	Liquid with radiator				
Rpm type	Variable				
Standard speed	2.200 rpm				
EU emissions	2002/88/CE Stage IIIB				
US emissions	EPA Tier 4 final				
Starting	Electric				
Starting voltage	12 V				
Oil change interval	1000 h				
Emissions reduction technology	DOC				
Market	UE				
Speed [rpm]	1600	1800	2000	2200	
Consumption [l/h]	10,1	11,2	12,3	12,8	
Power [kW]	40,5	45,2	49,3	51,2	
Power [HP]	54,3	60,6	66,1	68,7	

Control panel

Model	CP DEUTZ ATS25 TCD
	Manual operation
	Backlighted LCD display
	Protection rating - IP65
	Digital hour meter
	Digital rev counter
	Battery voltmeter
	Automatic engine shutdown in case of:
	- low oil pressure
	- water overheating
	- lack of battery charging
	- low fuel level
	Up/down throttle

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Arrangements

CNP PAS 150HF



Dimensions	1100 x 2560 x 1705 mm (43 x 101 x 67 ")
Material	S235JR EN 10025-2 carbon steel
Coatings	Epoxy powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Hot dip galvanised steel base; stackable frame
Battery	Acid charge Pb-Ca maintenance free, 12 V - 100 Ah - 400 A
Tank	355 l (93.8 USG)
Drip pan	390 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
H suction port	0,7 m (2.3 ft)
Weight (ZD54)	1680 kg (3,700 lb)
Noise level (ZD54)	66-71 dB(A) @10 m (32 ft)

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Consumption [l/h]	10,1	11,2	12,3	12,8
Power [kW]	40,5	45,2	49,3	51,2
Power [HP]	54,3	60,6	66,1	68,7

Control panel

Model	CP CNP 01
	Manual operation, automatic operation (startstop with floats), emergency operation
	Hour meter
	Rev counter
	Battery voltmeter
	Fuel level indicator
	Vacuum gauge
	Emergency stop button
	Display with 6 languages
	Automatic engine shutdown in case of:
	- low oil pressure
	- water overheating
	- lack of battery charging
	(engine failure alarms with LED lights and display message)
	GSM communication module (optional)
	Throttle rod