

# PAS 100HF 250 FKL69 CNP

Diesel - Qmax 280 m<sup>3</sup>/h (1,230 USgpm) - Hmax 42 m (138 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 plates

Cast iron (G11 rubber lined) or stainless steel wear plates, that are easily replaceable

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## Performance curves

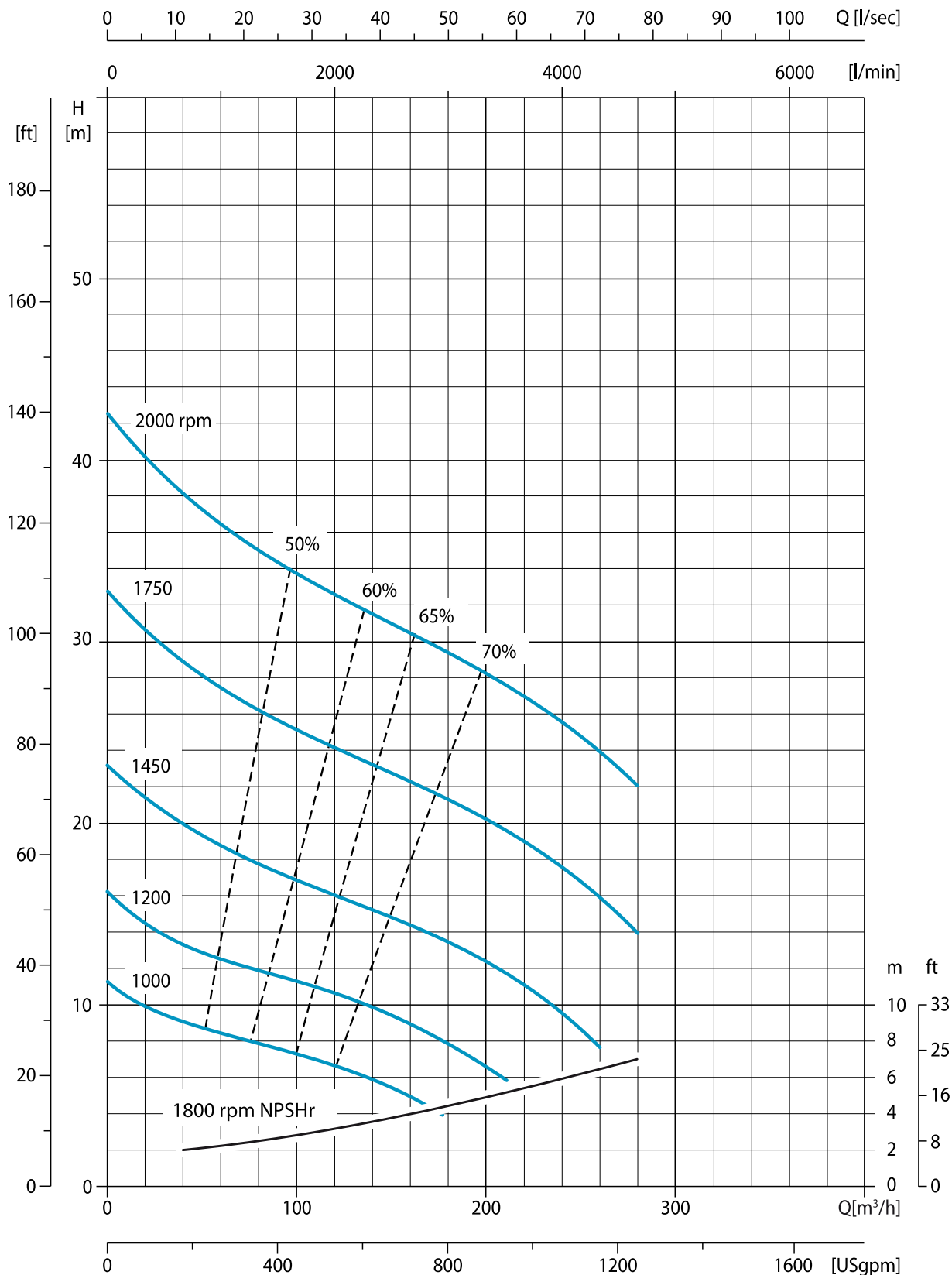
Test according to UNI EN ISO 9906 standard - level 2

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

Losses from priming system and check valve not included

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

Max absorbed power: 24,0 kW - 32.2 HP (2.000 rpm)



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## Technical data

### Pump

Model		PAS 100HF	
Qmax	280 m <sup>3</sup> /h - 4.670 l/min (1,200 USgpm)		
Hmax	42 m (138 ft)		
Q max eff.	200 m <sup>3</sup> /h - 3.330 l/min (900 USgpm)		
Eff. max	70 %		
Suction port	Flanged - DIN 100		
Delivery port	Flanged - DIN 100		
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 rubber lined cast iron	CF8M stainless steel	
Number of plates	2	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 <sup>3</sup> /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 1903TCR (KL69)				
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	2.000 rpm				
EU emissions	2002/88/CE Stage V				
Starting	Electric				
Starting voltage	12 V				
Emissions reduction technology	EGR+DOC+DPF				
Speed [rpm]	1400	1600	1800	2000	
Consumption [l/h]	6,7	7,7	8,3	8,4	
Power [kW]	27,7	31,7	33,6	34	
Power [HP]	37.1	42.5	45.1	45.6	

### 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	Hot dip galvanised steel base; stackable frame
Battery	Acid charge Pb-Ca maintenance free 12 V - 50 Ah - 815 A
Tank	320 l (84.5 USG)
Optional supply	(External fuel coupling as option)
Drip pan	352,0 l (93.0 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

CNP PAS 100HF SV



Dimensions	1110 x 2280 x 1560 mm 44 x 90 x 61 "
H suction port	0,71 m (2.3 ft)
Dry weight (KL69)	1525 kg (3,360 lb)
Noise level	63-68 dB(A) @10 m (32 ft)