

PAS 200MF 310 FKL65 SKID02

Diesel - Qmax 660 m³/h (2,910 USgpm) - Hmax 36 m (118 ft)



Provisional product picture

PAS MF - 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 MF 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 MF (medium 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

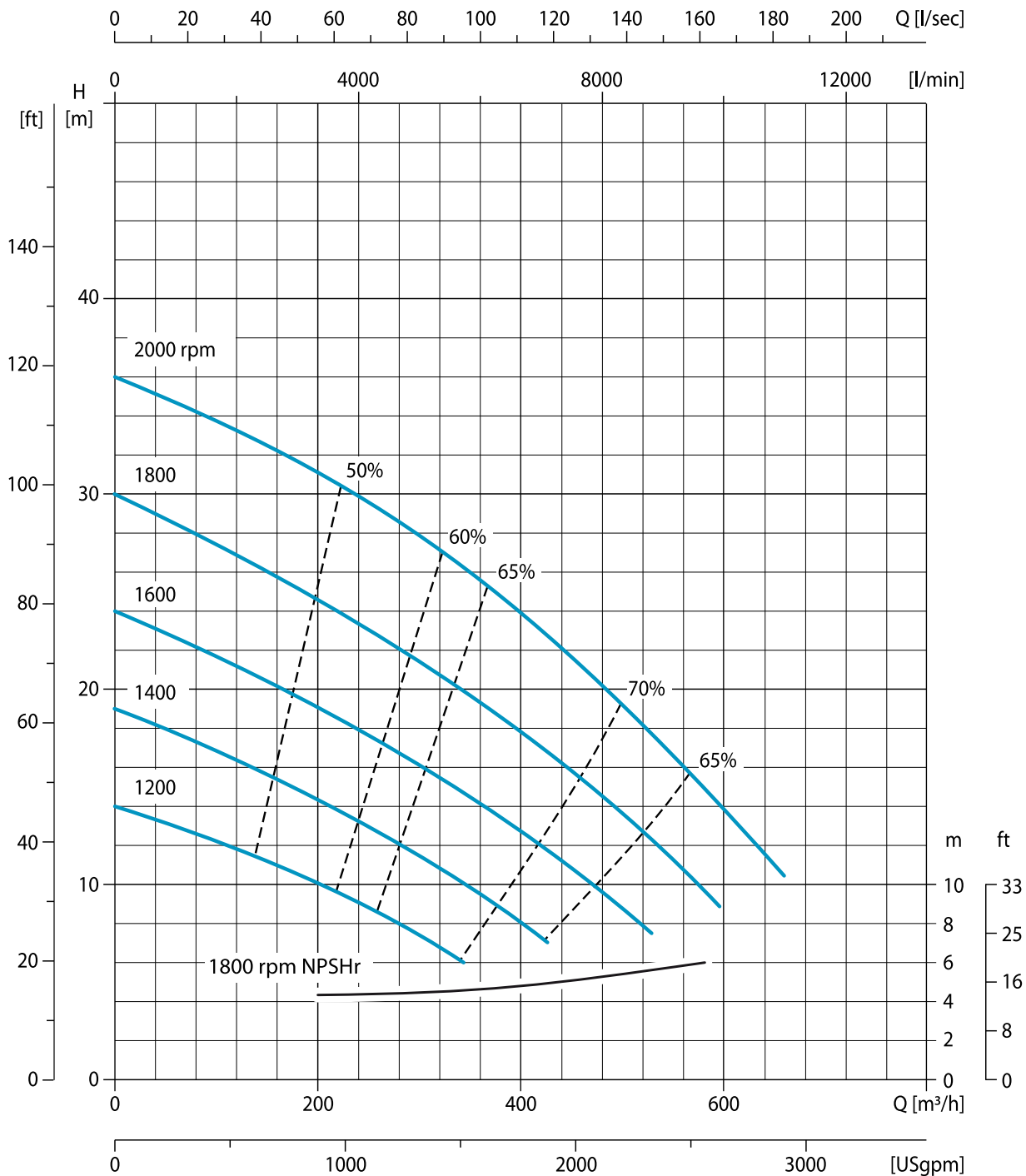
Test according to UNI EN ISO 9906 standard - level 2

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: 40,0 kW - 53.6 HP (2.000 rpm)



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Technical data

Pump

Model		PAS 200MF	
Qmax	660 m ³ /h - 11.000 l/min (2,900 USgpm)		
Hmax	36 m (118 ft)		
Q max eff.	490 m ³ /h - 8.170 l/min (2,200 USgpm)		
Eff. max	70 %		
Suction port	Flanged - DIN 200		
Delivery port	Flanged - DIN 200		
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-400 ductile iron	CF8M stainless steel	
Wear plates	EN-GJL-200 rubber lined cast iron	CF8M stainless steel	
Number of plates	1	1	
Shaft	39NiCrMo3 steel	AISI 329 stainless 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	Superduo	
Separator material	EN-GJL-200 cast iron	
Drives	Link belt	

Engines

Make		Kohler			
Model	KDI 2504TCR (KL65)				
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	2.000 rpm				
EU emissions	2002/88/CE Stage V				
US emissions	EPA Tier 4F				
Starting	Electric				
Starting voltage	12 V				
Speed [rpm]	1200	1400	1600	1800	2000
Consumption [l/h]	7,6	9,5	10,9	11,7	11,9
Power [kW]	32,4	40,5	45,9	48,6	49,5
Power [HP]	43.4	54.3	61.6	65.2	66.4

Control panel

Model	PW600
	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)

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Arrangements

Technical data	
Material	S275JR EN 10025-2 carbon steel
Coatings	Polyester powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Painted steel base. Hot dip galvanised steel skid and lifting beam. Lockable battery box. Fuel level indicator.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	420 l (111.0 USG)
Locking keys	Fuel cap

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Dimensions	1070 x 3310 x 1850 mm 42 x 130 x 73 "
H suction port	0,81 m (2.7 ft)
Dry weight (KL65)	1350 kg (2,980 lb)