

PAS 100MF 250 FYMO2 TRAILER

Diesel - Qmax 270 m³/h (1,190 USgpm) - Hmax 30 m (98 ft)



* Indicative 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 50 mm (2")

Diaphragm vacuum pump

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

Wear plates

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

Mechanical shaft seal in oil bath

It allows the "dry running" operation of the pump

Easy maintenance

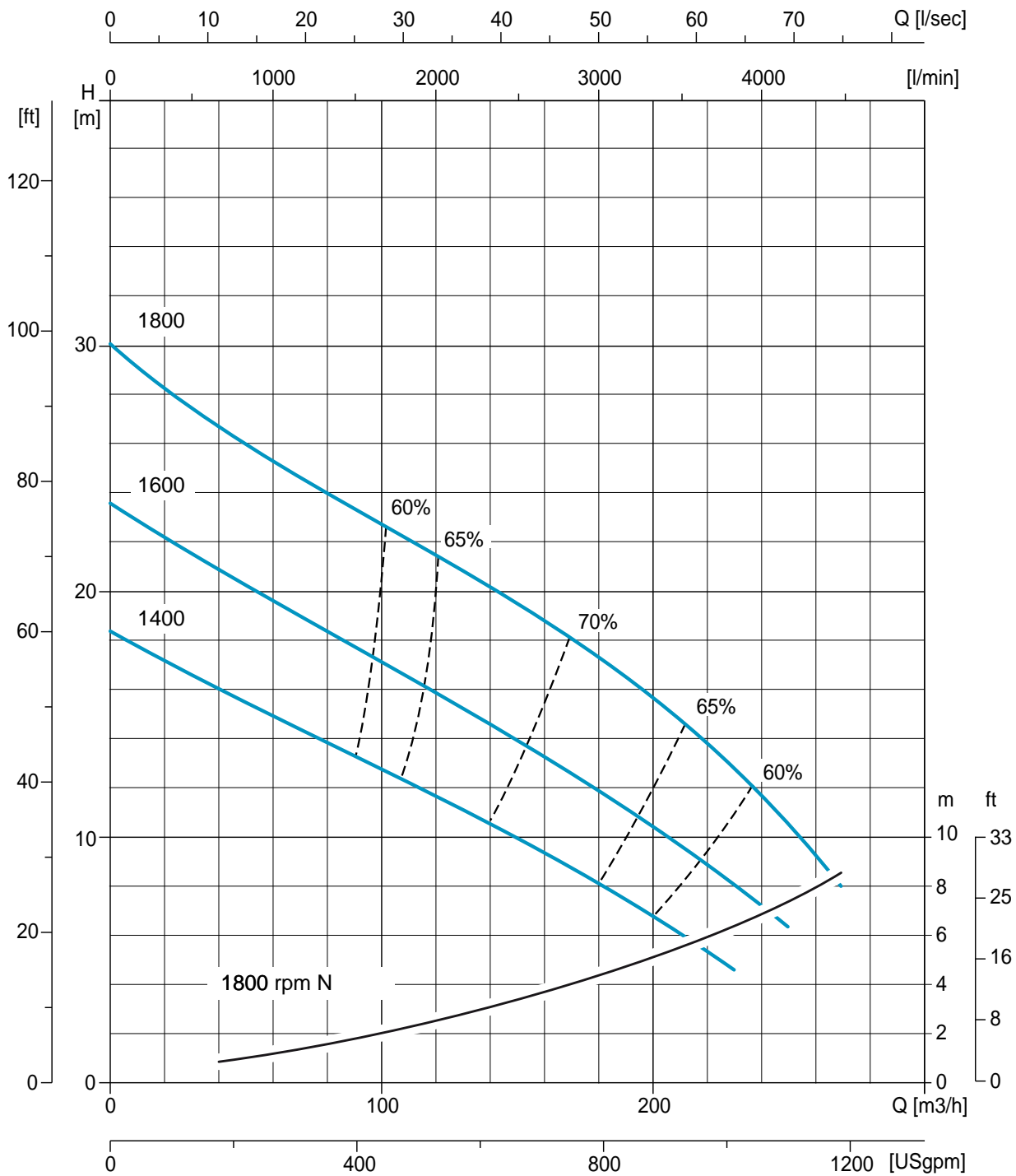
Hinged cover for direct access to the impeller (without lifting devices). Link belt quick to replace on the field.

PAS 100MF 250 FKL17 TRAILER

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.50 mm (2")
 Max absorbed power: 12,5 kW - 16.8 HP (1800 rpm)



PAS 100MF 250 FKL17 TRAILER

Technical data

Pump

Model	PAS 100MF	
Qmax	280 m ³ /h - 4.670 l/min (1,200 USgpm)	
Hmax	36 m (118 ft)	
Q max eff.	180 m ³ /h - 3.000 l/min (800 USgpm)	
Eff. max	70 %	
Suction port	Flanged - DIN 100	
Delivery port	Flanged - DIN 100	
Impeller type	Semi-Open, 2 vane	
Solids handling	50 mm (2.0 ")	
Material	G11	F11
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	2	2
Shaft	39NiCrMo3 steel	SAF 2205 stainless 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	Superduo
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Engines

Make	Yanmar			
Model	3TNV88F (FYM02)			
Type	Diesel direct injection, aspirated			
Displacement	1.642 cm ³ (100 in ³)			
No. cylinders	3			
Cooling	Liquid with radiator			
Rpm type	Variable			
Standard speed	1.800 rpm			
EU emissions	2002/88/CE Stage V			
Starting	Electric			
Starting voltage	12 V			
	12 V			
Speed [rpm]	1200	1400	1600	1800
Consumption [l/h]	2,6	3,1	3,4	3,8
Power [kW]	9,9	11,7	13,1	14,4
Power [HP]	13.3	15.7	17.6	19.3

Control panel

Model	PW500 (PW1)
	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 (%)
	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)
	(PW1 FleetLink control as option)

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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 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	325 l (85.9 USG)
Locking keys	Fuel cap

TRAILER PAS 100MF



Dimensions	1410 x 2350 x 1880 mm
	56 x 93 x 74 "
H suction port	0,95 m (3.1 ft)
Dry weight (KL17)	1150 kg (2,310 lb)