PAC H108 FSC01 SKID

Diesel - Qmax 408 l/s 1,470 m³/h - Hmax 109 m

Indicative picture of the product

PAC H - 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. The PAC H 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 expertize into providing a solutions portfolio that works across multiple applications. The PAC H (high head) 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: 82% (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

Closed impeller
Solids handling up to 89 mm (3.5")

Diaphragm vacuum pump
Suitable for dry running: no contamination of the environment

Mechanical shaft seal in oil bath
It allows the "dry running" operation of the pump

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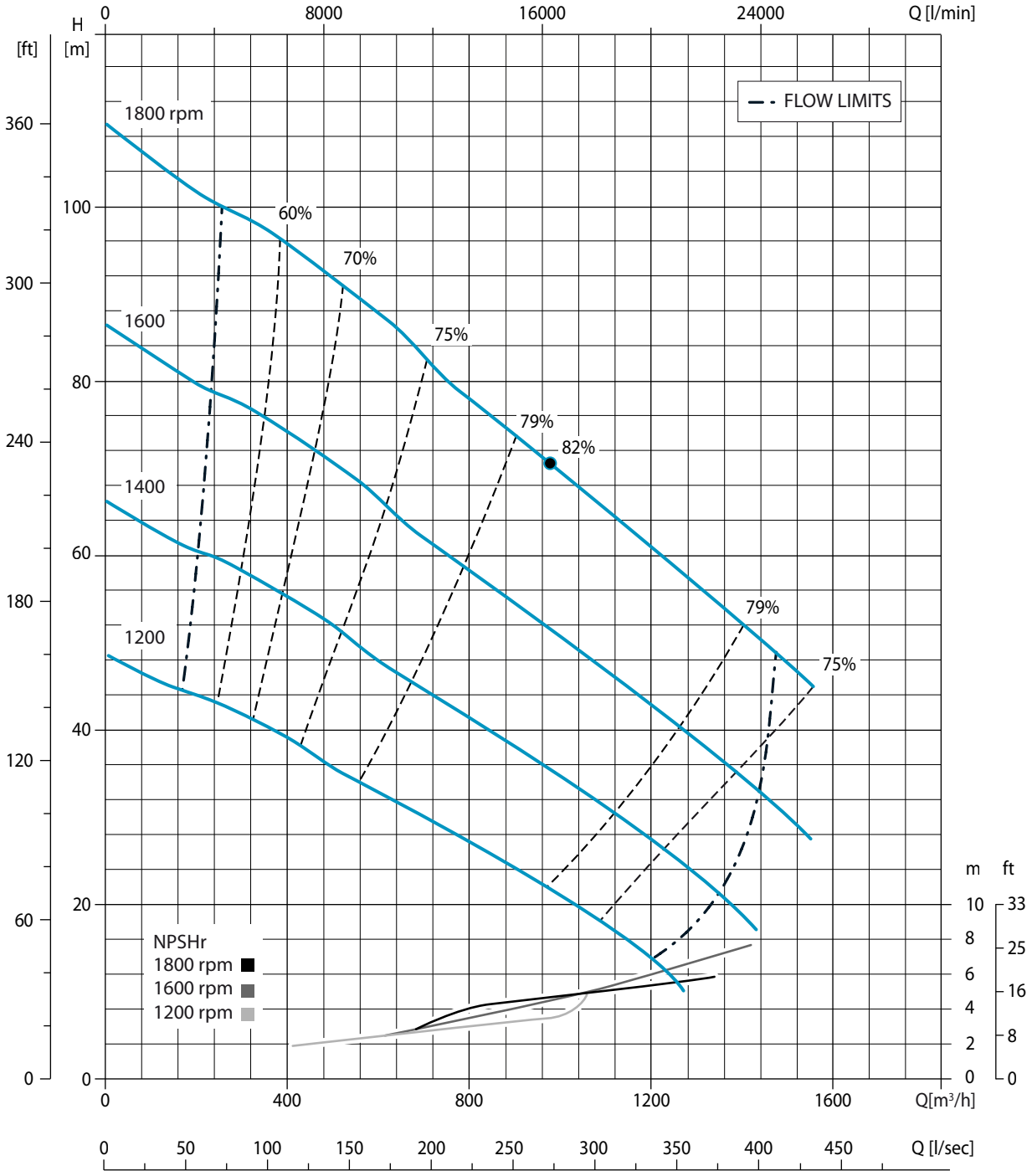
Performance curves

Test according to UNI EN ISO 9906 standard - level 2B
Test liquid: clean water, density 1,000 kg/m³
Losses from priming system and check valve not included

Spherical solids handling: D.89 mm (3.5")
Max absorbed power: 257 kW - 345 HP (1.800 rpm)



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Technical data

Pump

Model	PAC H108
Qmax	408 l/s – 1.470 m3/h – 24.500 l/min
Hmax	109 m (358 ft)
Q max eff.	272 l/s - 980 m3/h – 16.300 l/min
Eff. max	82 %
Suction port	10" Flange
Delivery port	8" Flange
Impeller type	Enclosed, 2 vane
Impeller diameter	17"
Solids handling	3.5"
Material	**G10**
Casing	ASTM A536 80-55-06 ductile iron
Impeller	ASTM A743 CA6NM
Wear ring	ASTM A48 Class 20 grey iron
Wear plate	ASTM A48 Class 20 grey iron + NBR
Shaft	AISI 630 stainless steel
Mechanical seal	Silicon carbide / Silicon carbide / VITON
Elastomers	NBR + VITON
Lubrication	Grease (bearings)
Check valve	ASTM A536 ductile iron + NBR rubber flap
Separator	Fabricated steel

Priming system

Vacuum pump	V22
Vacuum pump type	Diaphragm
Nominal air capacity	85 m^3/h (50.0 cfm)
Max vacuum	0,9 bar
Drive	Link belt

Engine

Make	Scania			
Model	DC09 074A (SC01)			
Type	Diesel turbo			
Displacement	9.300 cm^3 (568 in^3)			
No. cylinders	5			
Cooling	Liquid with radiator			
Rpm type	Variable			
Standard speed	1.800 rpm			
EU emissions	2002/88/CE Stage II			
US emissions	EPA Tier 2			
Starting	Electric			
Starting voltage	24 V			
Speed [rpm]	**1.200**	**1.400**	**1.600**	**1.800**
Consumption [l/h]	53,9	64,2	66,3	66,9
Power [kW]	230	270	276	276
Power [HP]	308.4	362.1	370.1	370.1

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 (%), Urea 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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Arrangement

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 skid. Hot dip galvanised steel lifting beam. Lockable battery box. Fuel level indicator.
Battery	Acid charge Pb-Ca maintenance free 2x(12 V - 160 Ah - 680 A)
Tank	420 l (111.0 USG)
Locking keys	Fuel cap

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Dimensions	1940 x 3250 x 2155 mm
H suction port	0,81 m
Dry weight	3.900 kg