

PAC H64 FVL12 CNP

Diesel - Qmax 420 m³/h (1,850 USgpm) - Hmax 101 m (331 ft)



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 expertise 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: 69% (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 76 mm (3")

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

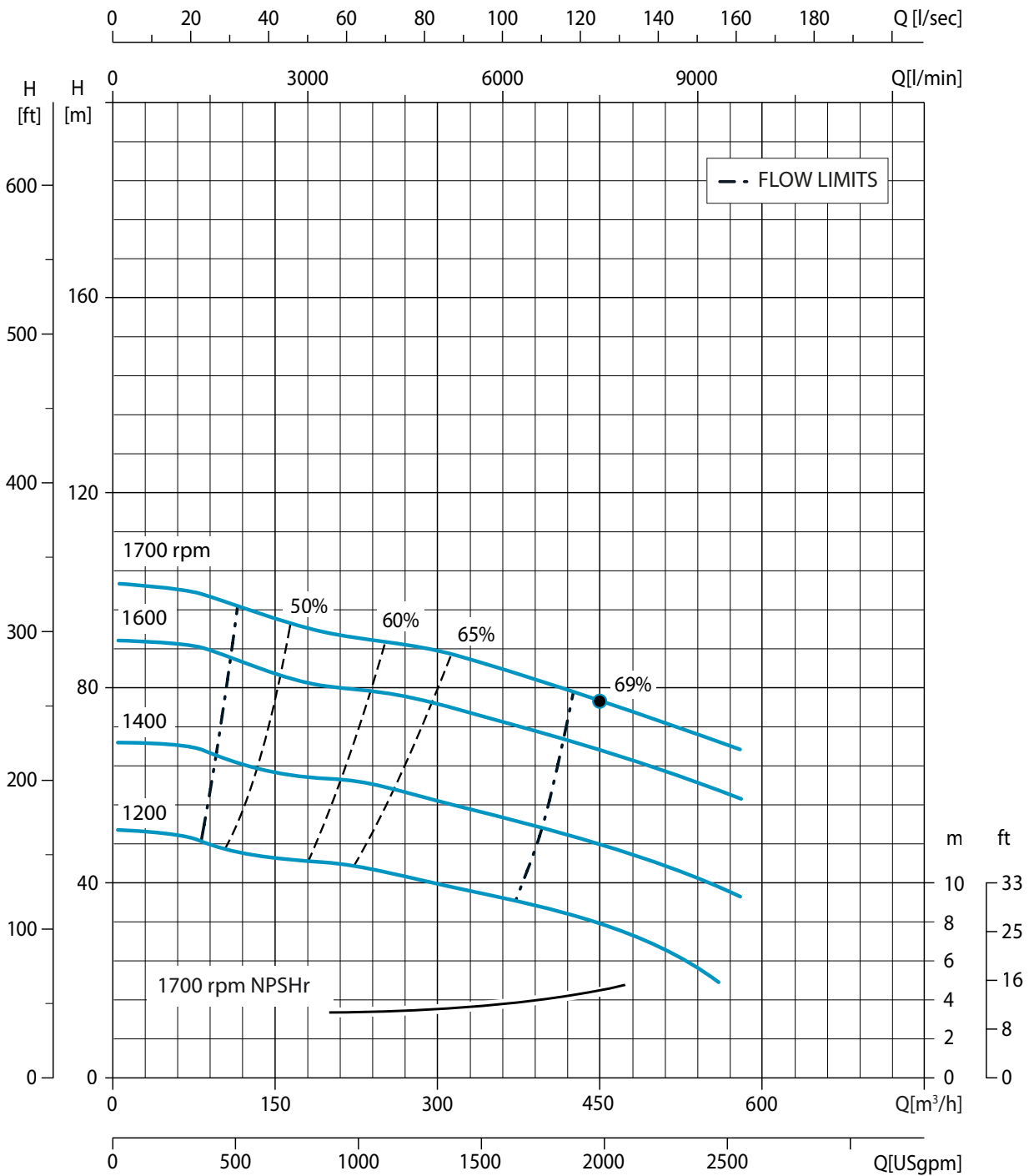
Test according to UNI EN ISO 9906 standard - level 2B

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

Losses from priming system and check valve not included

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

Max absorbed power: 160 kW - 215 HP (1.700 rpm)



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Technical data

Pump

Model	PAC H64
Qmax	117 l/s - 420 m ³ /h - 7.000 l/min (1,850 USgpm)
Hmax	101 m (331 ft)
Q max eff.	125 l/s - 450 m ³ /h - 7.500 l/min (1,980 USgpm)
Eff. max	69%
Suction port	6" Flange
Delivery port	4" Flange
Impeller type	Closed, 2 vane
Impeller diameter	17"
Solids handling	3"
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	Volvo
Model	TAD552VE
Type	Diesel turbo common rail
Displacement	5.130 cm ³ (313 in ³)
No. cylinders	4
Cooling	Liquid with radiator
Rpm type	Variable
Standard speed	1.700 rpm
EU emissions	2002/88/CE Stage IIIA
US emissions	EPA Tier 3
Starting	Electric
Starting voltage	24 V
Speed [rpm]	1.700
Consumption [l/h]	41
Power [kW]	160
Power [HP]	215

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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Arrangement

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	Painted steel base
Battery	Acid charge Pb-Ca maintenance free 2 x (12 V - 50 Ah - 815 A - provisional)
Tank	530 l (140 USG)
Optional supply	(External fuel connection as option)
Drip pan	583 l (154 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

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Dimensions	1685 x 3215 x 2035 mm 67 x 127 x 81 "
H suction port	0,83 m (2.7 ft)
Dry weight	3.300 kg (7,280 lb)