

PAC H43C 305 FKL70 CNP

Diesel - Qmax 150 m³/h (660 USgpm) - Hmax 92 m (302 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. Additionally, thanks to the semi-open impeller, 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: 62% (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 20 mm (3/4")

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

Wear plate

Cast iron wear plate, that is easily replaceable

Easy maintenance

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

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Performance curves

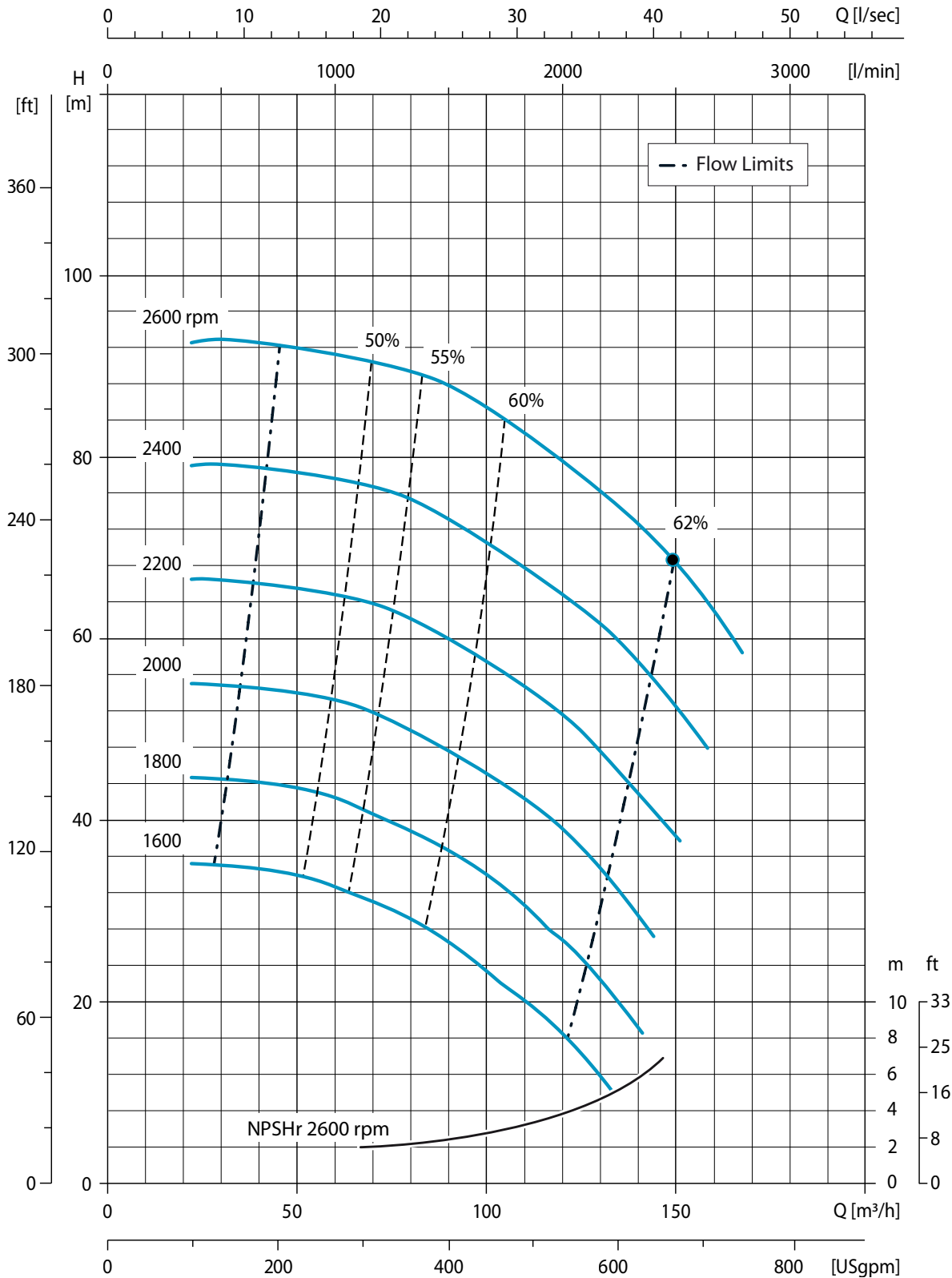
Test according to UNI EN ISO 9906 standard - level 2B

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

Losses from priming system and check valve not included

Spherical solids handling: D.20 mm (3/4")

Max absorbed power: 44,0 kW – 59.0 HP (2.600 rpm)



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Technical data

Pump

Model	PAC H43C
Qmax	42 l/s - 150 m ³ /h – 2.500 l/min (660 USgpm)
Hmax	92 m (302 ft)
Q max eff.	41 l/s - 148 m ³ /h – 2.470 l/min (650 USgpm)
Eff. max	62 %
Suction port	Flanged - DIN 100
Delivery port	Flanged - DIN 80
Impeller type	Semi-Open, 4 vane
Solids handling	20 mm (3/4")
Material	G10
Casing	EN-GJS-500 ductile iron
Impeller	EN-GJS-500 ductile iron
Wear plates	EN-GJL-200 cast iron
Number of plates	1
Shaft	SAF 2205 stainless steel
Mechanical seal	Silicon carbide / Silicon carbide
Elastomers	NBR

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	Atlas Copco
Separator material	Aluminium alloy
Drives	Link belt

Engine

Make	Kohler				
Model	KDI 2504TCR				
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	2.600 rpm				
EU emissions	2002/88/CE Stage V				
Starting	Electric				
Starting voltage	12 V				
Speed [rpm]	1800	2000	2200	2400	2600
Consumption [l/h]	11,7	11,9	12	12,2	12,6
Power [kW]	49	50	50	50	50
Power [HP]	65.2	66	66.7	66.8	66.9

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. Stackable frame.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	300 l (79 USG)
Drip pan	330 l (87 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors
Noise level	65-70 dB(A) @10 m (32 ft)

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Dimensions	1100 x 2560 x 1705 mm
	43 x 101 x 67"
H suction port	0,72 m (2.4 ft)
Dry weight	1530 kg (3375 lb)