PAC H43C 305 FZD75

Diesel - Qmax 42 l/s - Hmax 92 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. 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 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: 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
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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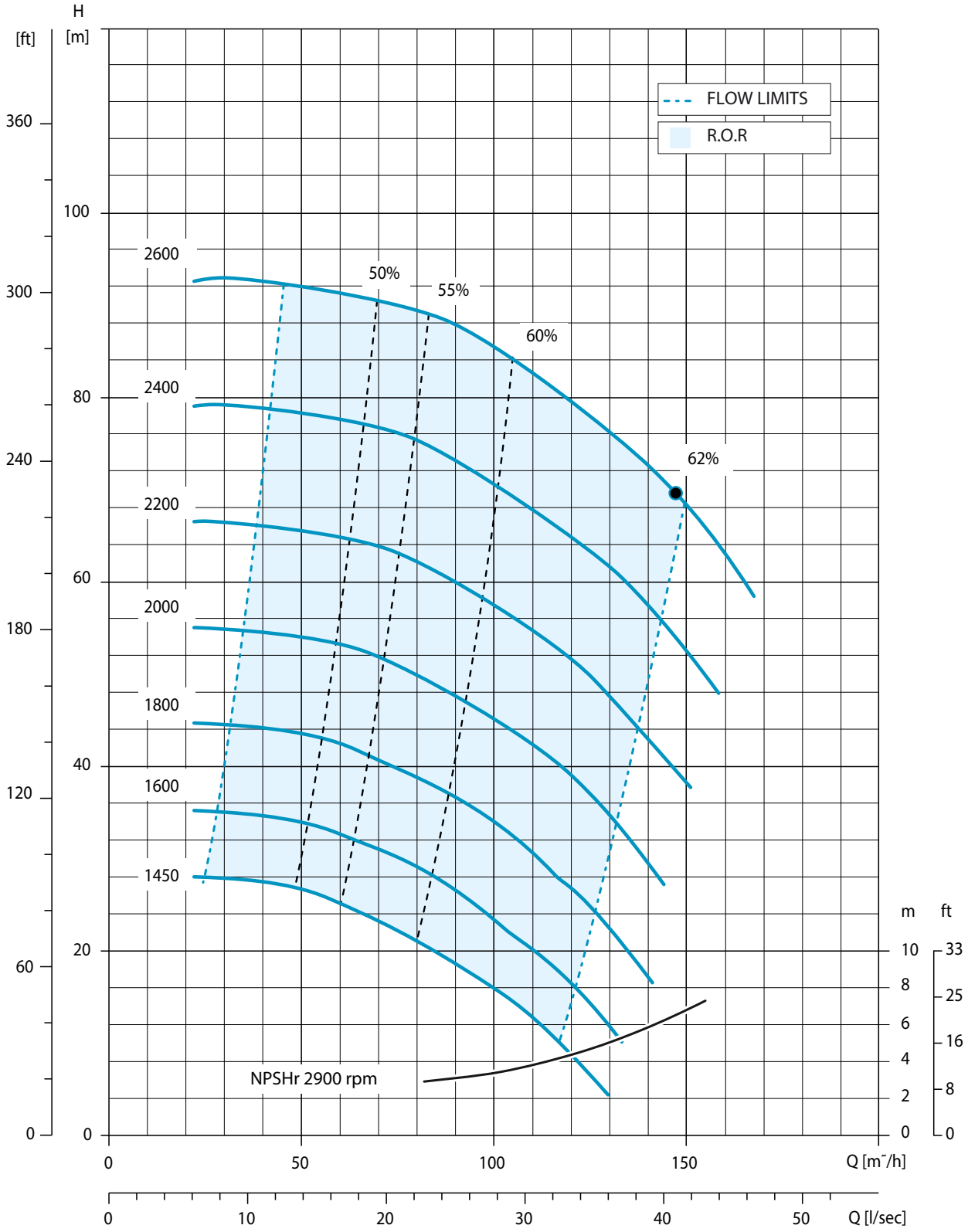
Performance curves

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)



PAC H43C 305 FZD75

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 / VITON
Elastomers	NBR
Lubrication	Grease (bearings)
Check valve	ASTM A536 ductile iron + NBR rubber flap
Separator	Aluminium alloy

Priming system

Vacuum pump	V20
Vacuum pump type	Diaphragm
Nominal air capacity	50 m^3/h (29.4 cfm)
Max vacuum	0,9 bar
Drives	Link belt

Engine

Make	Deutz				
Model	TD 2.9 L4 (ZD71)				
Type	Diesel turbo common rail				
Displacement	2.900 cm^3 (177 in^3)				
No. cylinders	4				
Cooling	Liquid with radiator				
Rpm type	Variable				
Standard speed	2.600 rpm				
EU emissions	2002/88/CE Stage IIIA				
US emissions	EPA Tier 3				
Starting	Electric				
Starting voltage	12 V				
Speed [rpm]	**1800**	**2000**	**2200**	**2400**	**2600**
Consumption [l/h]	11,4	11,8	12	12,1	12,2
Power [kW]	47,7	49,1	49,4	49,6	49,9
Power [HP]	63.9	65.8	66.2	66.5	66.9

Control panel

Model	Kensho K37
	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	S235JR EN 10025-2 carbon steel
Coatings	Polyester powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	320 l (84.5 USG)

PAC H43C CNP

Dimensions	1220 x 2600 x 1800 mm
Dry weight (KL38)	1680 kg
Noise level	63-68 dB(A) @10 m

PAC H43C SKID

Dimensions	1070 x 2730x 1960 mm
Dry weight (KL38)	1510 kg
Noise level	75-80 dB(A) @10 m

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Performance curves

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Spherical solids handling: D.20 mm (3/4")
Max absorbed power: 44,0 kW – 59.0 HP (2.600 rpm)