

# PAC H86C FVL15 CNP

Diesel - Qmax 600 m<sup>3</sup>/h (2,640USgpm) - 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. 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: 77% (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 25 mm (1")

### 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

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## Performance curves

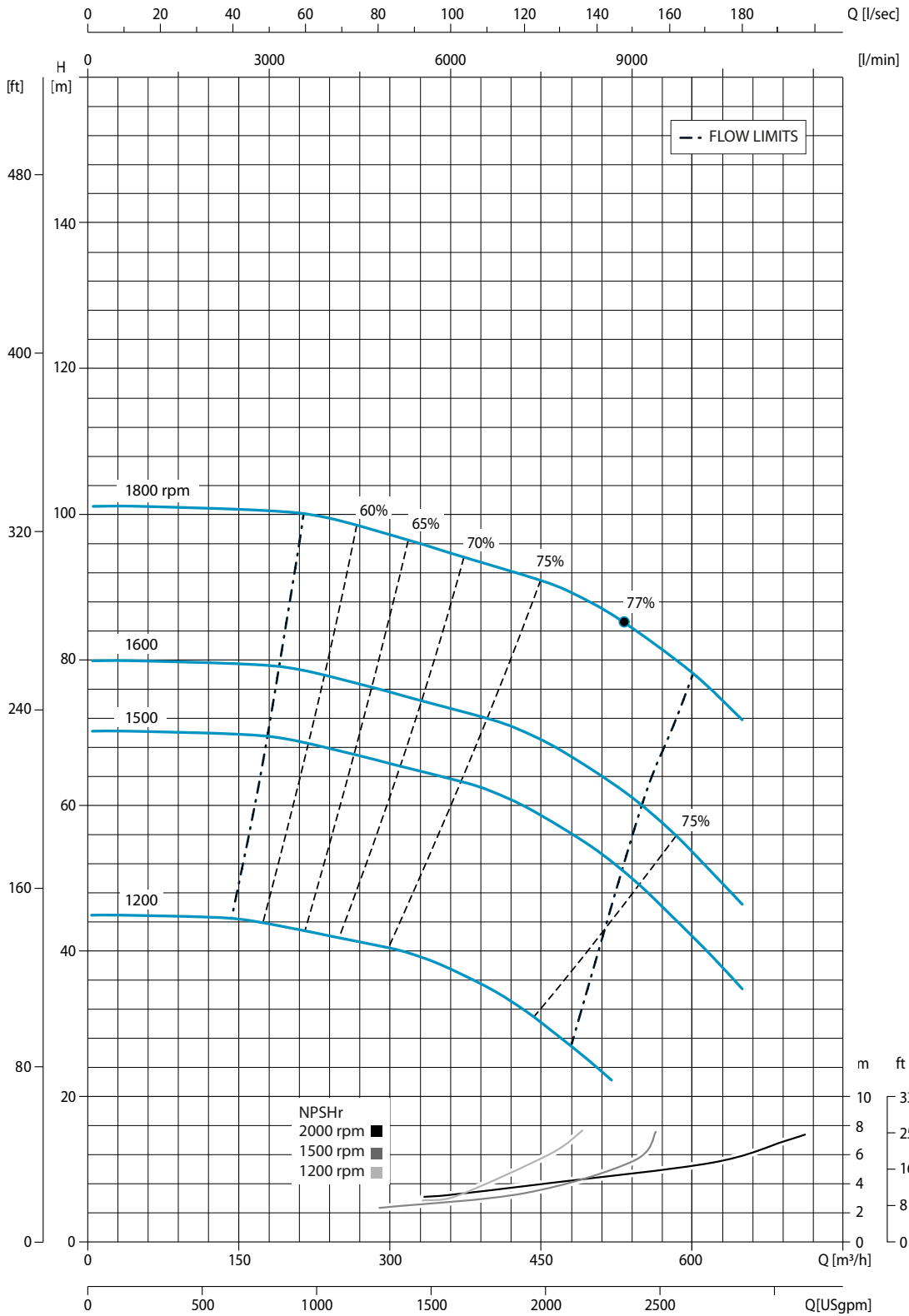
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density 1,000 kg/m<sup>3</sup>

Spherical solids handling: D.25 mm (1")

Priming time: 30 s from 1,5 m (4.9 ft)

Max absorbed power: 170 kW - 228 HP (1.800 rpm)



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## Technical data

### Pump

Model	PAC H86C
Qmax	167 l/s - 600 m <sup>3</sup> /h – 10.000 l/min (2,640 USgpm)
Hmax	101 m (331 ft)
Q max eff.	147 l/s - 530m <sup>3</sup> /h – 8.830 l/min (2,330 USgpm)
Eff. max	77%
Suction port	8" Flange
Delivery port	6" Flange
Impeller type	Enclosed, 2 vane
Impeller diameter	17"
Solids handling	25 mm - 1"
Material	G10
Casing	ASTM A536 80-55-06 / EN-GJS-500-7 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 faces	Silicon carbide Vs Silicon carbide
Elastomers	VITON
Lubrication	Oil
Check Valve	ASTM A536 ductile iron + NBR rubber flap
Separator	Aluminium alloy

### Priming system

Vacuum pump	V22
Vacuum pump type	Diaphragm
Nominal air capacity	85 m <sup>3</sup> /h (50.0 cfm)
Max vacuum	0,9 bar
Separator type	-
Separator material	EN-GJL-200 cast iron
Drives	Link belt

### Engine

Make	Volvo			
Model	TAD872VE			
Type	Diesel turbo common rail			
Displacement	7.700 cm <sup>3</sup> (470 in <sup>3</sup> )			
No. cylinders	6			
Cooling	Liquid with radiator			
Rpm type	Variable			
Standard speed	1.800 rpm			
EU emissions	2002/88/CE Stage IV			
US emissions	EPA Tier 4F			
Starting	Electric			
Starting voltage	24 V			
Emissions reduction technology	SCR, DPF+DOC			
Speed [rpm]	1200	1400	1600	1800
Consumption [l/h]	32,8	38,1	43,6	45,3
Power [kW]	149	173	197	202
Power [HP]	200	232	264	271

### 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)

# PAC H86C FVL15 CNP

## 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	450 l (118.9 USG)
Drip pan	495,0 l (130.8 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

### PAC H86C



Dimensions	2200 x 3900 x 2000 mm 87 x 154 x 79 "
H suction port	0,81 m (2.7 ft)
Dry weight	4300 kg (9,480 lb)
Noise level	69-74 dB(A) @10 m (32 ft)