

# PAC H86C FVL14 CNP

Diesel - Qmax 167 l/s 600 m<sup>3</sup>/h - Hmax 101 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 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

### Closed impeller

Solids handling up to 25 mm (1")

### 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

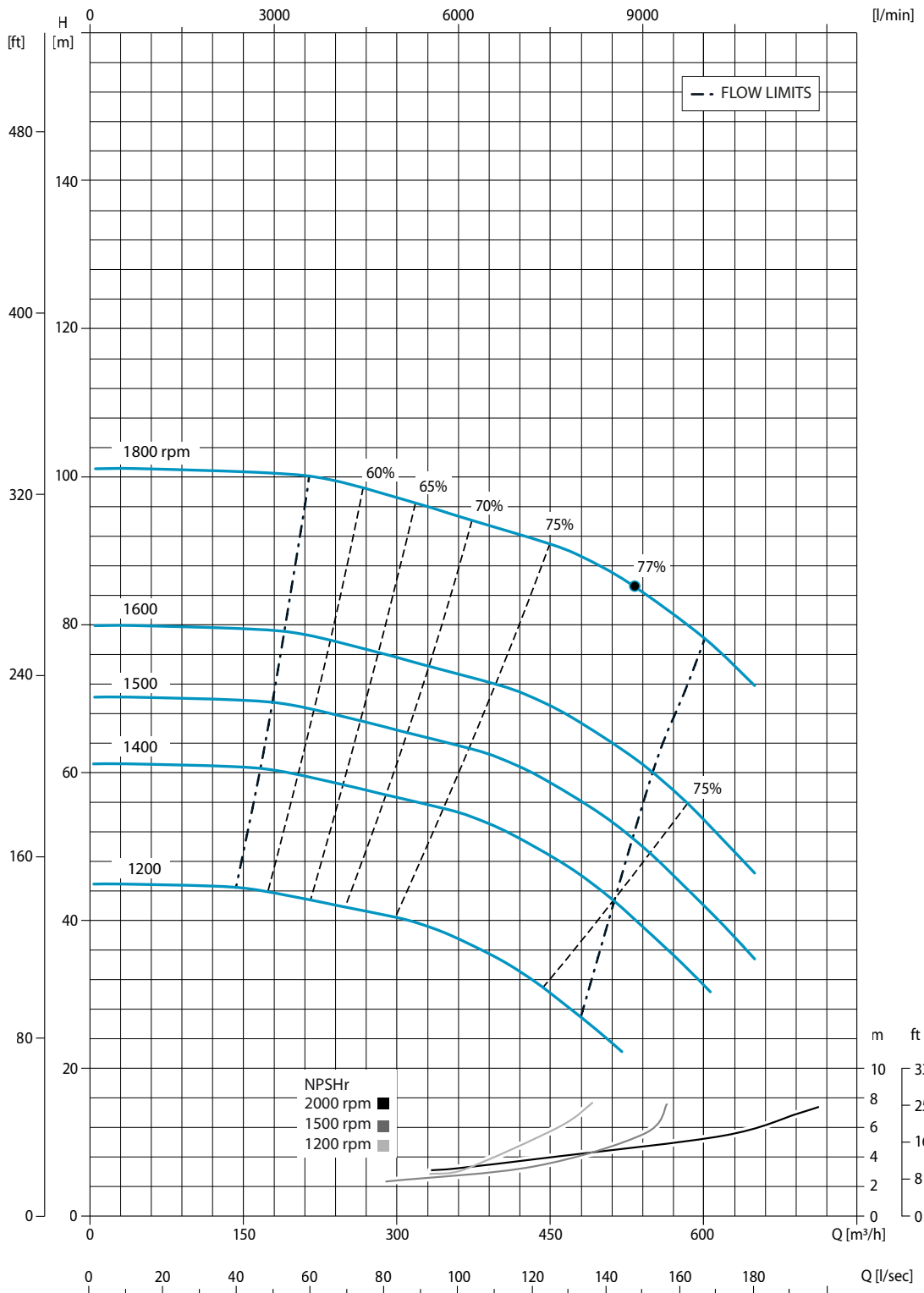
Test according to UNI EN ISO 9906 standard - level 2B

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

Losses from priming system and check valve not included

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

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
Hmax	101 m (331 ft)
Q max eff.	147 l/s - 530m <sup>3</sup> /h – 8.830 l/min
Eff. max	77%
Suction port	8" Flange
Delivery port	6" Flange
Impeller type	Closed, 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	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 <sup>3</sup> /h (50.0 cfm)
Max vacuum	0,9 bar
Drives	Link belt

### Engine

Make	Volvo			
Model	TAD852VE			
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 IIIA			
US emissions	EPA Tier 3			
Starting	Electric			
Starting voltage	24 V			
Speed [rpm]	1200	1400	1600	1800
Consumption [l/h]	34,6	42,1	49	50,9
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 FVL14 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
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 CNP



Dimensions	2200 x 3900 x 2000 mm
H suction port	0,81 m
Dry weight	4.300 kg
Noise level	69-74 dB(A) @10 m