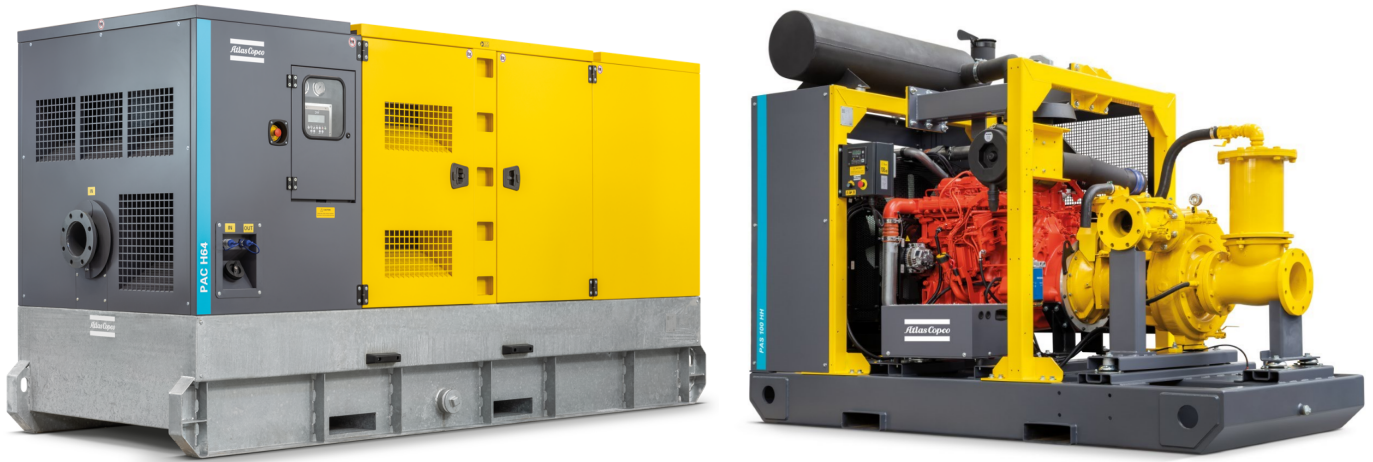


# PAC H86C FSC02

Diesel - Qmax 125 l/s - Hmax 139 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

**High efficiency pump:** 69% (B.E.P)

**Rapid "dry" priming**

**Closed impeller:** solids handling up to 76 mm (3")

**Diaphragm vacuum pump:** no contamination of the environment

**Oil lubricated mechanical seal**

# PAC H86C FSC02

## Performance curves

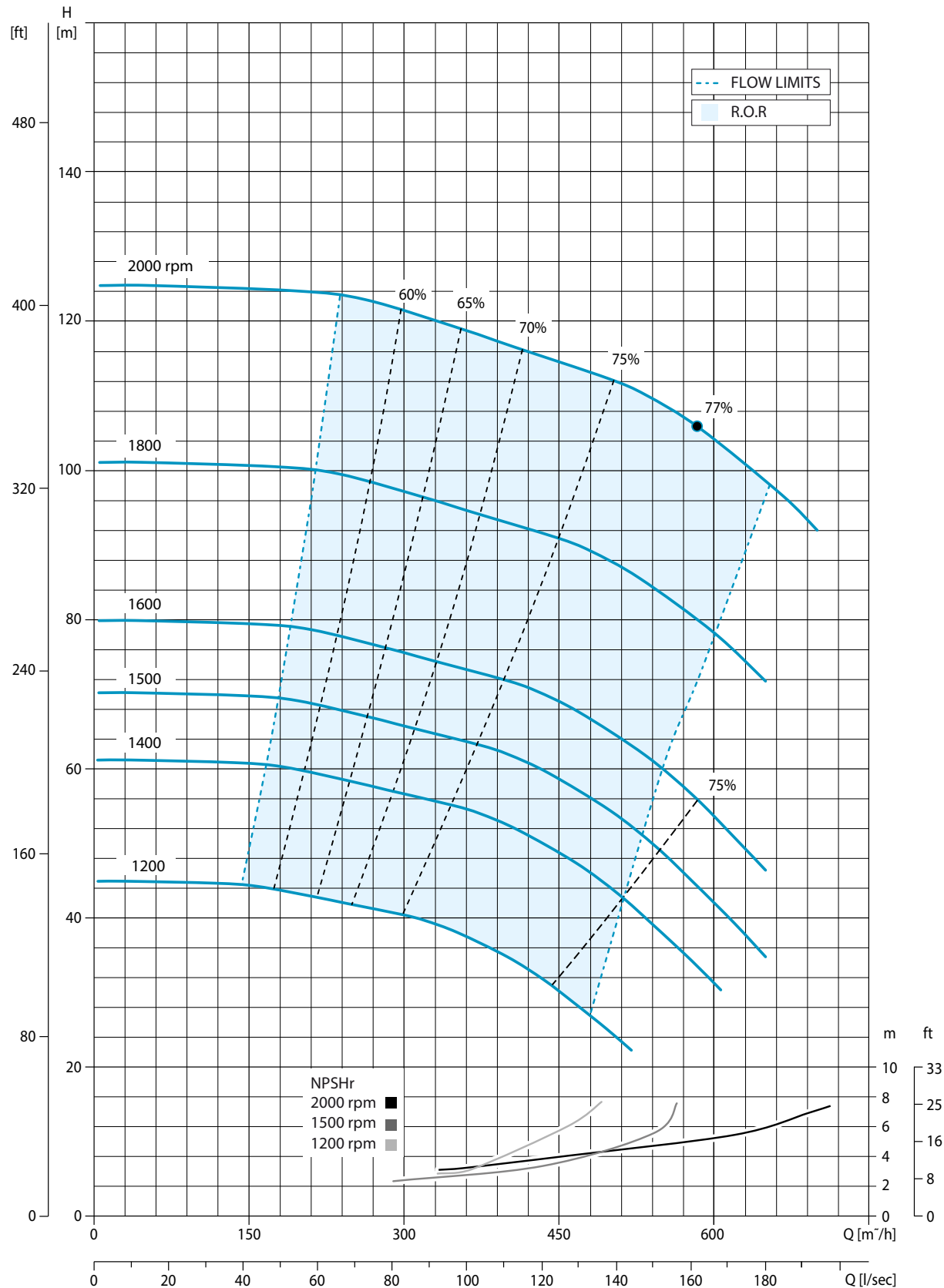
Test according to UNI EN ISO 9906 standard - level 2B

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.76 mm (3")

Max absorbed power: 237 kW - 318 HP (2.000 rpm)



# PAC H86C FSC02

## Technical data

### Pump

Model	PAC H86C
Qmax	180 l/s - 650 m <sup>3</sup> /h - 10.830 l/min (2,860 USgpm)
Hmax	125 m (410 ft)
Q max eff.	164 l/s - 590m <sup>3</sup> /h – 9.830 l/min (2,600 USgpm)
Eff. max	77%
Suction port	8" Flange
Delivery port	6" Flange
Impeller type	Closed, 5 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	Scania				
Model	DC09 074A (SC02)				
Type	Diesel turbo				
Displacement	9.300 cm <sup>3</sup> (568 in <sup>3</sup> )				
No. cylinders	5				
Cooling	Liquid with radiator				
Rpm type	Variable				
Standard speed	2.000 rpm				
EU emissions	2002/88/CE Stage II				
US emissions	EPA Tier 2				
Starting	Electric				
Starting voltage	24 V				
Speed [rpm]	1.200	1.400	1.600	1.800	2.000
Consumption [l/h]	14,1	21,6	31,8	44,7	68,9
Power [kW]	58,8	89,5	130,5	181	245
Power [HP]	78,9	120	175	243	329

### Control panel

Model	PW 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)

# PAC H86C FSC02

## 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	650l

### CNP PAC H



Dimensions	1500 x 4000 x 2100 mm 87 x 154 x 79 "
H suction port	0,81 m (2.7 ft)
Dry weight	4500 kg
Noise level	69-74 dB(A) @10 m (32 ft)

### SKID PAC H



Dimensions	1970 x 3250 x 2150 mm 87 x 154 x 79 "
H suction port	0,81 m (2.7 ft)
Dry weight	4000 kg
Noise level	69-74 dB(A) @10 m (32 ft)