Diesel - Qmax 1,230 USgpm - Hmax 164 ft



PAS HF - 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 PAS HF 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 PAS HF (high flow) 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: 70% (B.E.P.)

Rapid "dry" priming

Up to a height of 24.6 ft

High resistance

To abrasive liquids and turbid sandy waters

Semi-open impeller

Solids handling up to 3"

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 (rubber lined) wear plate that is easily replaceable

Easy maintenance

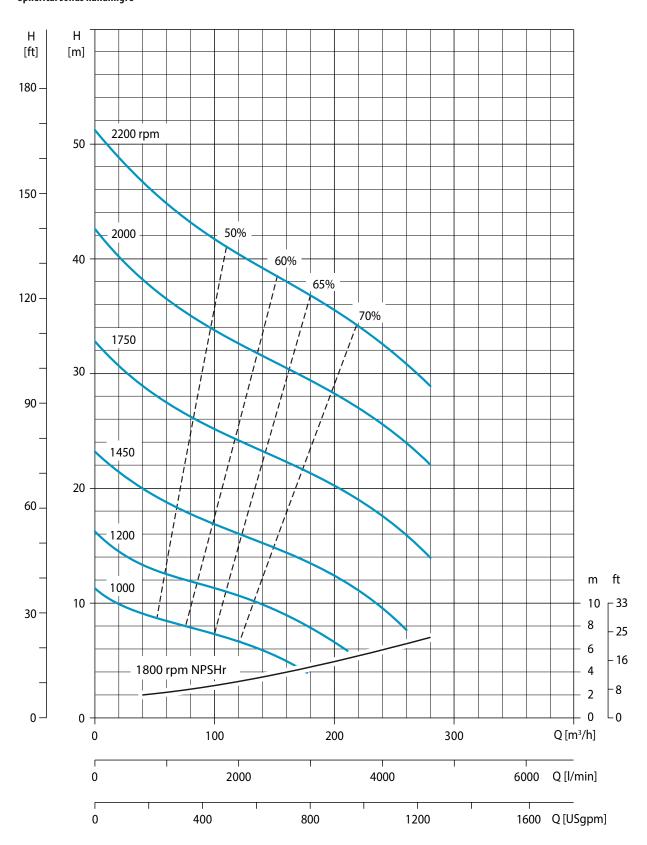
Hinged cover for direct access to the impeller (without lifting devices). Link belt quick to replace on the field.



Performance curves

Test according to UNI EN ISO 9906 standard - level 2 Test liquid: clean water, density 62.42lb/ft³ Spherical solids handling: 3" Priming time: 30 s from 4.9 ft

Max absorbed power: 38.9 HP (2.200 rpm)





Technical data

Pump

Model	PAS 100 HFS T4F	
Qmax	1,230 USgpm	
Hmax	164 ft	
Q max eff.	1,000 USgpm	
Eff. max	70 %	
Suction port	4" ANSI Flange	
Delivery port	4" ANSI Flange	
Impeller type	Semi-Open, 2 vane	
Solids handling	3.0 "	
Material	G11	
Casing	EN-GJL-200 cast iron	
Impeller	EN-GJS-500 ductile iron	
Wear plates	EN-GJL-200 cast iron	
Number of plates	1	
Shaft	39NiCrMo4 steel	
Flushing	Yes	

Priming system

Mechanical seal

Elastomers Lubrication

Vacuum pump	V20
Vacuum pump type	Diaphragm
Nominal air capacity	29.4 cfm
Max vacuum	0,9 bar
Separator type	-
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Tungsten carbide / Tungsten carbide VITON

Oil

Engine

<u> </u>		
Make	Kohler	
Model	KDI 1903TCR	
Туре	Diesel turbo common rail	
Displacement	114 in ³	
No. cylinders	3	
Cooling	Liquid with radiator	
Rpm type	Variable	
Standard speed	2.200 rpm	
US emissions	EPA Tier 4F	
Starting	Electric	
Starting voltage	12 V	
Oil change interval	500 h	
Engine Power Rating	49 hp	

Control panel

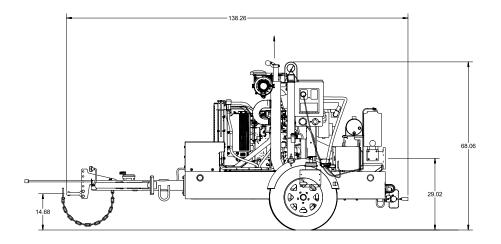
Model	PW 750
	Manual operation
	Automatic operation: start-stop with transducers or floats
	Digital display with 6 languages (EN, SV, FR, DE, ES, IT) with:
	Hour meter, Rev counter, Liquid temperature, Oil pressure and temperature
	Battery voltmeter, Fuel level (%) and consumption (I/h)
	Automatic engine shutdown in case of:
	- low oil pressure
	- engine 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)

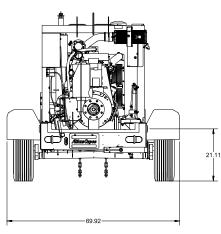


Arrangement

Technical data	
Material	ASTM A36 steel
Coatings	Polyester powder, average thickness of 3 MIL
Features	Lifting beam
Battery	Acid charge Pb-Ca maintenance free, 12 V - 630 CCA
Tank	30 USG Net Volume
Locking keys	Fuel cap
Fuel consumption	1.8 US Gal/hr @2200 rpm @BEP
H suction port	29 in (2.4 ft)
Dry weight	3105 lbs

Dimensional







Diesel - Qmax 1,230 USgpm - Hmax 164 ft



ndicative picture of the product

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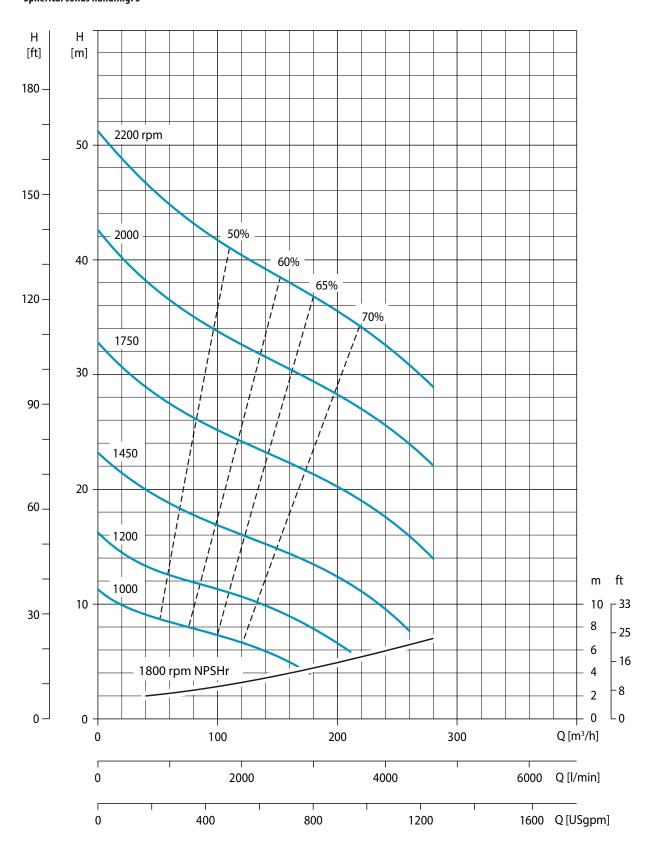
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Atlas Copco

Performance curves

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(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)	



Arrangement

Technical data	
Material	ASTM A36 steel
Coatings	Polyester powder paint, average thickness of 3 MIL
Features	Lifting beam. Lockable doors, soundproof canopy design with 75dB(A) @23ft
Battery	Acid charge Pb-Ca maintenance free, 12 V - 630 CCA
Tank	30 USG Net Volume
Locking keys	Fuel cap
Fuel consumption	1.8 US Gal/hr @2200 rpm @BEP
H suction port	29 in (2.4 ft)
Dry weight	3400 lbs

Dimensional

