

# PAS 100 HFS T4F KD

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 feet 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

The PAS 100 HF Atlas Copco pump is designed to withstand toughest applications and delivers best in class pumping efficiency. One of the most common area of utilization is the Construction dewatering and municipal market segment where reliability, serviceability and versatility is the key to provide a customized solution. Other suitable applications can be found within the Industry, Mining or Oil & Gas segment. Atlas Copco pumps are packed with features that not only meet, but exceed the needs of our customers.

## Benefits

### Efficiency

The 10" impeller with 70% efficiency at B.E.P. provides best pumping result with minimal efforts

### Solids handling

Semi-open impeller type with solids handling capability of 3" for trouble free operation

### Easy maintenance

Hinged cover for direct access to the impeller and pump volute

### Polyethylene Fuel tank

Corrosion-free PE tank provides longer lifetime and avoids tank cleaning due to oxidation

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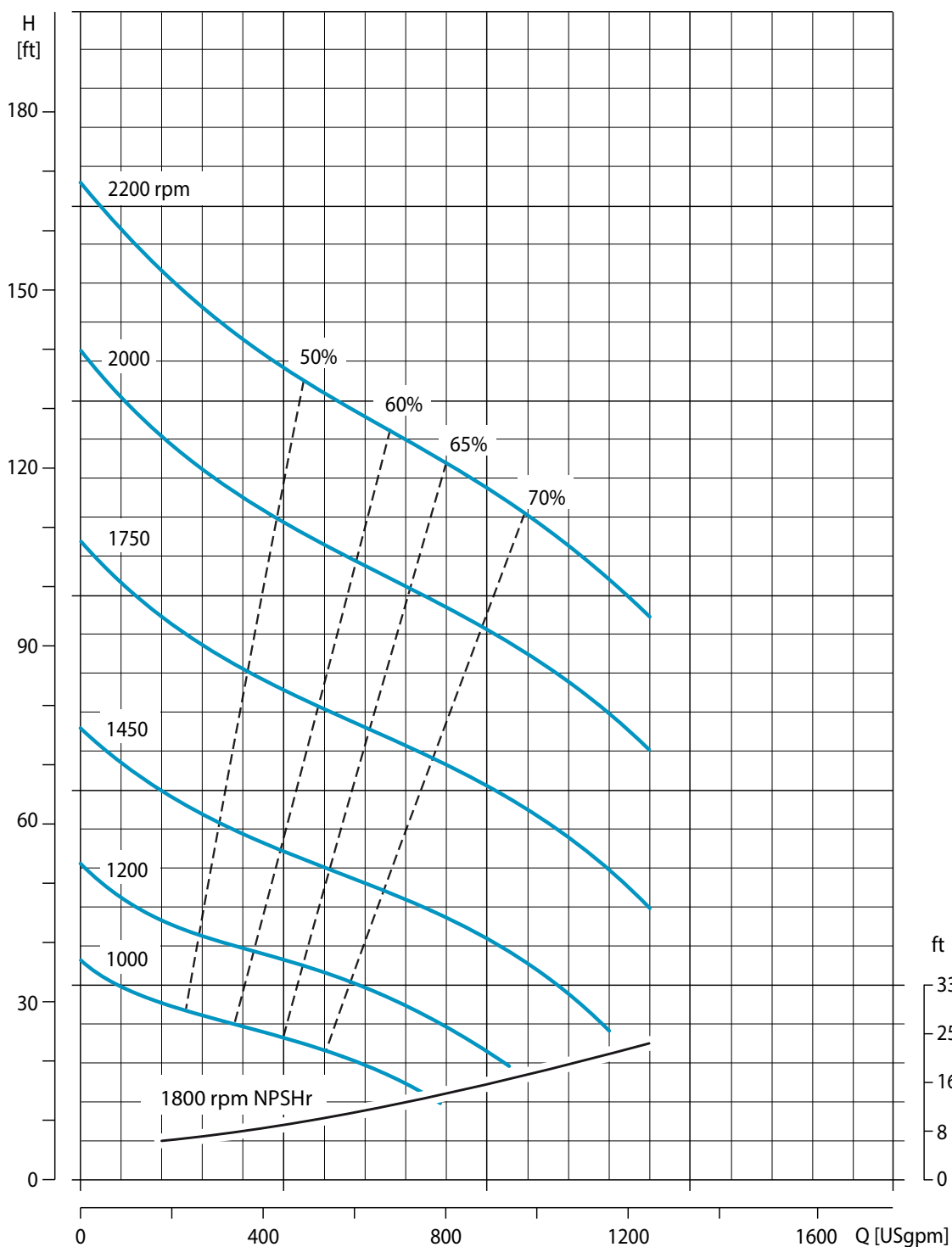
## Performance curve

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

Losses from priming system and check valve not included

Test liquid: clean water, density 62.43 lb/ft<sup>3</sup> (8.345 lb/gal)

Speed	Impeller Dia.	Style	Solids Dia.	Ns	Suction	Discharge	No. Vanes
Various	10" / 250 mm	Semi-open	3" / 76 mm	2200 rpm	4" / 100 mm	4" / 100 mm	2



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## Technical data

### Pump

Model	PAS 100HFS T4F
Qmax	1230 USgpm
Hmax	164 ft
Q max eff.	1000 USgpm
Eff. max	70 %
Suction port	4" Flange - 150# ANSI
Delivery port	4" Flange - 150# ANSI
Impeller type	Semi-open, 2 vane
Impeller diameter	10"
Solids handling	3"
Material	
Casing	EN-GJL-200 cast iron
Impeller	EN-GJS-500 ductile iron
Wear Plates	EN-GJL-200 cast iron
Shaft	39NiCrMo4 steel
Mechanical Seal faces	Tungsten carbide / Tungsten carbide
Elastomers	VITON
Check Valve	ASTM A536 ductile iron + NBR rubber flap
Separator	EN AC-42100 (AlSi7Mg0.3)- Aluminum

### Priming system

Vacuum pump	
Vacuum pump type	Diaphragm
Nominal air capacity	29.6 cfm
Max vacuum	- 26.6 inHg
Drives	Link belt

### Engine

Make	Kohler
Model	KDI 1903TCR
Type	Diesel turbo common rail
Displacement	1.9 Liter (114in <sup>3</sup> )
No. cylinders	3
Cooling	Liquid with radiator
Rpm type	Variable
Max operating speed	2.200 rpm
US emissions	EPA Tier 4F
Starting	Electric
Engine system voltage	12 V
Engine Power rating	49 HP

### Control panel

Model	PW 1000
	Manual operation
	Automatic operation: start-stop with transducers or floats
	FleetLink Optional

### Arrangement

Technical data	
Material	ASTM A36 steel
Coatings	Polyester powder, average thickness of 3 MIL
Features	Lifting beam, PE-Fuel tank and Fender, Sound attenuation
Battery	Acid charge Pb-Ca maintenance free, 12 V - 1150 CCA
Fuel tank capacity	30 USG Net Volume
Fuel consumption	1.8 US Gal/hr @2200 rpm @BEP
Dry weight	3145 lbs
Wet weight	3400 lbs

### Dimensional drawing

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