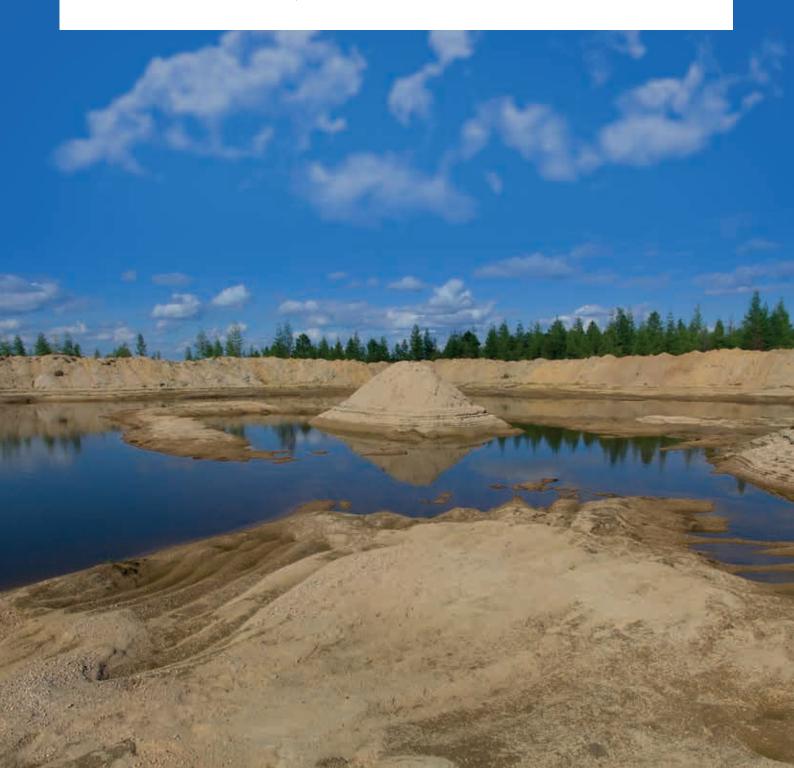
PAS 100HF 250 DATA SHEET

Sustainable Productivity





Diesel - Qmax 280 m³/h (1,230 USqpm) - Hmax 50 m (164 ft)



PAS 100HF 250 Liquid cooled engine

PAS MF - 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 8.5 m (27.5 ft)

High resistance

To abrasive liquids and turbid sandy waters

Semi-open impeller

Solids handling up to 76 mm (3")

Easy maintenance

Without lifting devices: hinged cover for direct access to the impeller

Diaphragm vacuum pump

Oil free suitable for dry running: no contamination of the environment

Wear plate

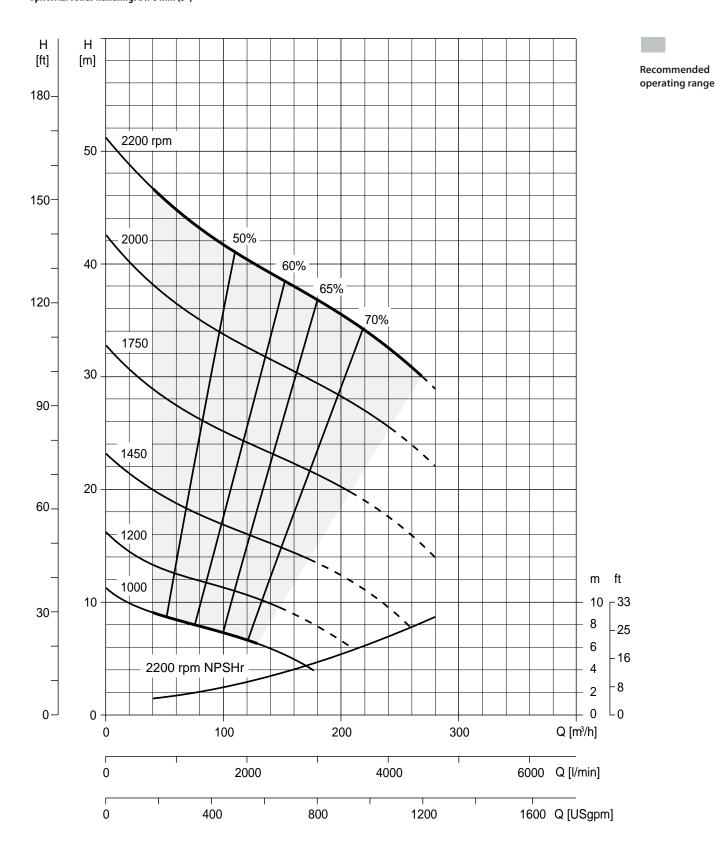
Cast iron or stainless steel (F11) wear plate, that are easily replaceable



Performance curves

Test according to UNI EN ISO 9906 standard - level 2 Test liquid: clean water, density 1,000 kg/m³ Spherical solids handling: D.76 mm (3") Priming time: 30 s from 1,5 m (4.9 ft)

Max absorbed power: 29,0 kW - 38.9 HP (2.200 rpm)





Technical data

Pump

Model	PAS 100HF 250
Qmax	280 m³/h - 4.670 l/min (1,200 USgpm)
Hmax	50 m (164 ft)
Q max eff.	220 m³/h - 3.670 l/min (1,000 USgpm)
Eff. max	70 %
Suction port	Flanged - DIN 100
Delivery port	Flanged - DIN 100
Impeller type	Semi-Open, 2 vane
Solids handling	76 mm (3.0 ")

Material	G11	F11	
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron	
Impeller	EN-GJS-500 cast iron	CF8M stainless steel	
Wear plates	EN-GJL-200 cast iron	CF8M stainless steel	
Number of plates	1	2	
Shaft	39NiCrMo4 steel	39NiCrMo4 steel	
Flushing	Yes	Yes	
Mechanical seal	Tungsten carbide / Tungsten carbide	Tungsten carbide / Tungsten carbide	
Elastomers	VITON	VITON	

Priming system

Vacuum pump	V20
Vacuum pump type	Diaphragm
Nominal air capacity	50 m³/h (29.4 cfm)
Max vacuum	0,9 bar
Separator type	Valmatic
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Engines

Make		De	eutz	
Model	D 2.9 L4 (ZD53)			
Type			jection, aspirated	
Displacement		2.900 cm	n³ (177 in³)	
No. cylinders			4	
Cooling		Liquid wi	ith radiator	
Rpm type		Var	riable	
Standard speed		2.20	0 rpm	
EU emissions	2002/88/CE Stage IIIB			
US emissions	EPA Tier 4 final			
Starting	Electric			
Starting voltage	12 V			
Oil change interval	1000 h			
Emissions reduction	DOC			
technology				
Speed [rpm]	1600	1800	2000	2200
Consumption [l/h]	5,8	6,4	7	7,8
Power [kW]	23,3 25,6 27,9 31			
Power [HP]	31.2 34.3 37.4 41.6			

Control panel

Model	CP DEUTZ ATS25 TCD
	Manual operation
	Backlighted LCD display
	Protection rating - IP65
	Digital hour meter
	Digital rev counter
	Battery voltmeter
	Automatic engine shutdown in case of:
	- low oil pressure
	- water overheating
	- lack of battery charging
	- low fuel level
	Up/down throttle



Arrangements

Technical data			
Material	S275JR EN 10025-2 carbon steel		
Coatings	Epoxy powder, average thickness of 80 μm		
Color	Yellow and grey Atlas Copco (standard)		
Features	Modular and demountable framework, hot dip galvanised steel skid and and lifting beam. Mudguards with galvanised steel walkable surface. Tow bar, adjustable support feet. Lockable battery box. Fuel level indicator.		
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A		
Tank	355 I (93.8 USG)		
Locking keys	Fuel cap		



Dimensions	995 x 2080 x 1800 mm
5	39 x 82 x 71 "
H suction port	0,58 m (1.9 ft)
Weight (ZD53)	1180 kg (2,600 lb)



Dimensions	1410 x 3150 x 2150 mm
	56 x 124 x 85 "
H suction port	1 m (3.3 ft)
Weight (ZD53)	1330 kg (2,930 lb)



Dimensions	1070 x 2730 x 1960 mm
2	42 x 107 x 77 "
H suction port	0,73 m (2.4 ft)
Weight (ZD53)	1330 kg (2,930 lb)



Arrangements



Dimensions	1100 x 2560 x 1705 mm (43 x 101 x 67 ")		
Material	S235JR EN 10025-2 carbon steel		
Coatings	Epoxy powder, average thickness of 80 μm		
Color	Yellow and grey Atlas Copco (standard)		
Features	Hot dip galvanised steel base; stackable frame		
Battery	Acid charge Pb-Ca maintenance free, 12 V - 100 Ah - 400 A		
Tank	355 I (93.8 USG)		
Drip pan	390 I (103.0 USG) (110% of the total volume of the tank)		
Emergency stop	Outside the canopy		
Locking keys	Control panel door and canopy doors		
H suction port	0,72 m (2.4 ft)		
Weight (ZD53)	1380 kg (3,040 lb)		
Noise level (ZD53)	65-70 dB(A) @10 m (32 ft)		

Engines

Make	Deutz			
Model		D 2.9 L	4 (ZD53)	
Туре		Diesel direct inj	ection, aspirated	
Displacement		2.900 cm	n³ (177 in³)	
No. cylinders			4	
Cooling		Liquid wi	th radiator	
Rpm type		Vari	iable	
Standard speed		2.200	0 rpm	
EU emissions	2002/88/CE Stage IIIB			
US emissions	EPA Tier 4 final			
Starting	Electric			
Starting voltage	12 V			
Oil change interval	1000 h			
Emissions reduction	200			
technology	DOC			
Speed [rpm]	1600	1800	2000	2200
Consumption [l/h]	5,8	6,4	7	7,8
Power [kW]	23,3	25,6	27,9	31
Power [HP]	31.2	34.3	37.4	41.6

Control panel

Model	CP CNP 01
	Manual operation, automatic operation (startstop with floats), emergency operation
	Hour meter
	Rev counter
	Battery voltmeter
	Fuel level indicator
	Vacuum gauge
	Emergency stop button
	Display with 6 languages
	Automatic engine shutdown in case of:
	- low oil pressure
	- water overheating
	- lack of battery charging
	(engine failure alarms with LED lights and display message)
	GSM communication module (optional)
	Throttle rod



NOTES

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Portable Energy Solutions Portfolio

AIR COMPRESSORS







Diesel and electric options available.

GENERATORS







*Multiple configurations available to produce power for any size application.

DEWATERING PUMPS







LIGHT TOWERS







Committed to sustainable productivity

Atlas Copco's Portable Energy division has a forward-thinking philosophy. For us, creating customer value is all about anticipating and exceeding your future needs – while never compromising our environmental principles. Looking ahead and staying ahead is the only way we can ensure we are your long term partner.

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