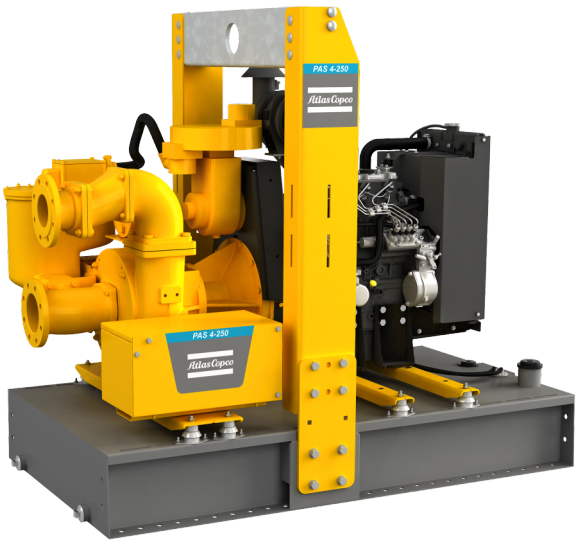
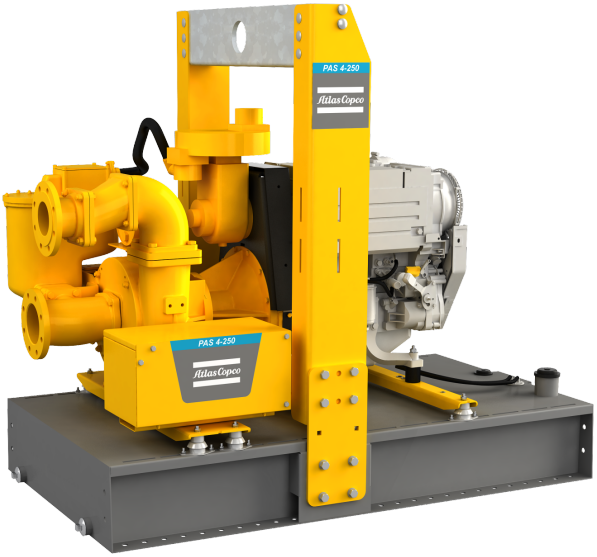
PAS 100MF 260

Diesel - Qmax 325 m³/h (1,430 USgpm) - Hmax 42 m (138 ft)



PAS 100MF 260 Liquid cooled engine



PAS 100MF 260 Air cooled engine

PAS MF - Vacuum prime centrifugal pumps

The pump system consists of a centrifugal pump and a SuperDuo 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 MF 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 MF (medium 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

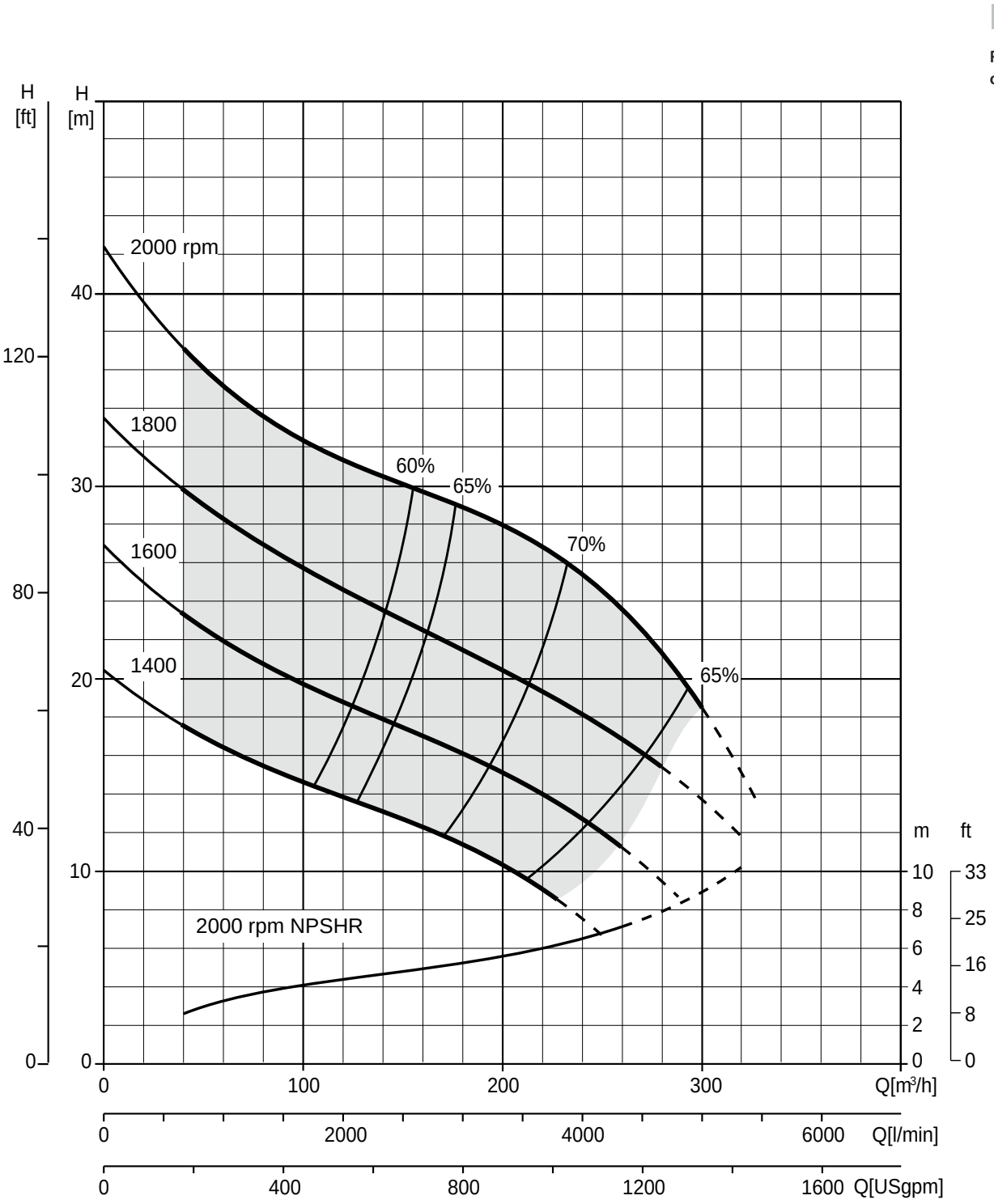
Wear plates
Cast iron (G11 rubber lined) or stainless steel wear plates, that are easily replaceable

PAS 100MF 260

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: 22 s from 1,5 m (4.9 ft)
Max absorbed power: 24,0 kW - 32.2 HP (2.000 rpm)



PAS 100MF 260

Technical data

Pump

Model	PAS 100MF 260		
Qmax	325 m^3/h - 5.420 l/min (1,400 USgpm)		
Hmax	42 m (138 ft)		
Q max eff.	240 m^3/h - 4.000 l/min (1,100 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**	**P11**
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron	EN-GJL-200 cast iron
Impeller	EN-GJS-400 cast iron	CF8M stainless steel	EN-GJS-400 cast iron
Wear plates	EN-GJL-200 rubber lined cast iron	CF8M stainless steel	EN-GJL-200 cast iron
Number of plates	2	2	2
Shaft	39NiCrMo3 steel	SAF 2205 stainless steel	39NiCrMo3 steel
Flushing	Yes	Yes	Yes
Mechanical seal	Tungsten carbide / Tungsten carbide	Tungsten carbide / Tungsten carbide	Tungsten carbide / Tungsten carbide
Elastomers	VITON	VITON	VITON

Priming system

Vacuum pump	V20
Vacuum pump type	Diaphragm
Nominal air capacity	50 m^3/h (29.4 cfm)
Max vacuum	0,9 bar
Separator type	Superduo
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Engines

Make	Kohler				Deutz			
Model	KDI 2504M (KL19)				D2011L03I (ZD51)			
Type	Diesel direct injection, aspirated				Diesel direct injection, aspirated			
Displacement	2.482 cm^3 (151 in^3)				2.330 cm^3 (142 in^3)			
No. cylinders	4				3			
Cooling	Liquid with radiator				Air			
Rpm type	Variable				Variable			
Standard speed	2.000 rpm				2.000 rpm			
EU emissions	2002/88/CE Stage 3A				2002/88/CE Stage 3A			
US emissions	EPA Tier III				EPA Tier III			
Starting	Electric				Electric			
Starting voltage	12 V				12 V			
Oil change interval	500 h				300 h			
Market	UE				UE			
Speed [rpm]	**1400**	**1600**	**1800**	**2000**	**1400**	**1600**	**1800**	**2000**
Consumption [l/h]	5,5	6,4	6,7	7,1	4,2	5	5,6	6,2
Power [kW]	22,5	26,1	27	28,4	16,7	19,8	22,1	24,3
Power [HP]	30.2	35	36.2	38.1	22.4	26.6	29.6	32.6

Control panel

Model	CP KDI 1903M-2504M	CP KL DEUTZ 01
	Manual operation	Manual operation
	Digital hour meter	Hour meter
	Automatic engine shutdown in case of:	Engine failure alarms with LED lights in case of:
	- low oil pressure - water overheating - lack of battery charging (engine failure alarms with LED lights)	- low oil pressure - engine overheating - lack of battery charging
	Throttle rod	Throttle rod

PAS 100MF 260

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 support bases, bullbars 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	300 l (79.3 USG)
Locking keys	Fuel cap

BLOCK PAS 100MF

Dimensions	995 x 2020 x 1520 mm 39 x 80 x 60 "
H suction port	0,585 m (1.9 ft)
Weight (KL19)	830 kg (1,830 lb)
Weight (ZD51)	805 kg (1,770 lb)

SKID01 PAS 100MF

Dimensions	995 x 2200 x 1630 mm 39 x 87 x 64 "
H suction port	0,695 m (2.3 ft)
Weight (KL19)	940 kg (2,070 lb)
Weight (ZD51)	915 kg (2,020 lb)

SKID02 PAS 100MF

Dimensions	1070 x 2220 x 1670 mm 42 x 87 x 66 "
H suction port	0,735 m (2.4 ft)
Weight (KL19)	955 kg (2,110 lb)
Weight (ZD51)	930 kg (2,050 lb)

STACK PAS 100MF

Dimensions	995 x 2020 x 1565 mm 39 x 80 x 62 "
H suction port	0,59 m (1.9 ft)
Weight (KL19)	880 kg (1,940 lb)
Weight (ZD51)	855 kg (1,880 lb)

TRAILER PAS 100MF

Dimensions	1410 x 2350 x 1880 mm 56 x 93 x 74 "
H suction port	0,945 m (3.1 ft)
Weight (KL19)	930 kg (2,050 lb)
Weight (ZD51)	905 kg (2,000 lb)

PAS 100MF 260

Arrangements

CNP PAS 100MF 260	
	
Dimensions	1110 x 2560 x 1705 mm (44 x 101 x 67 ")
Material	S275JR 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; modular frame, stackable
Battery	Acid charge Pb-Ca maintenance free, 12 V - 100 Ah - 400 A
Tank	420 l (111.0 USG)
Drip pan	462 l (122.0 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	0,71 m (2.3 ft)
Weight (KL19)	1300 kg (2,870 lb)
Noise level (KL19)	66-71 dB(A) @10 m (32 ft)

Engines

Make		Kohler		
Model		KDI 2504M (KL19)		
Type		Diesel direct injection, aspirated		
Displacement		2.482 cm^3 (151 in^3)		
No. cylinders		4		
Cooling		Liquid with radiator		
Rpm type		Variable		
Standard speed		2.000 rpm		
EU emissions		2002/88/CE Stage 3A		
US emissions		EPA Tier III		
Starting		Electric		
Starting voltage		12 V		
Oil change interval		500 h		
Market		UE		
Speed [rpm]	**1400**	**1600**	**1800**	**2000**
Consumption [l/h]	5,5	6,4	6,7	7,1
Power [kW]	22,5	26,1	27	28,4
Power [HP]	30.2	35	36.2	38.1

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