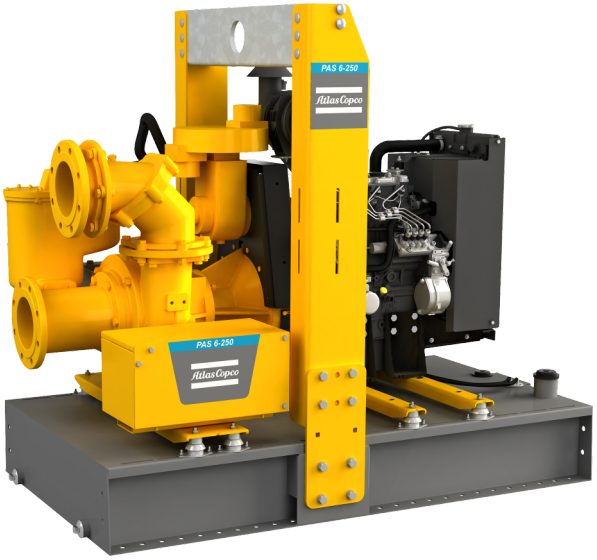
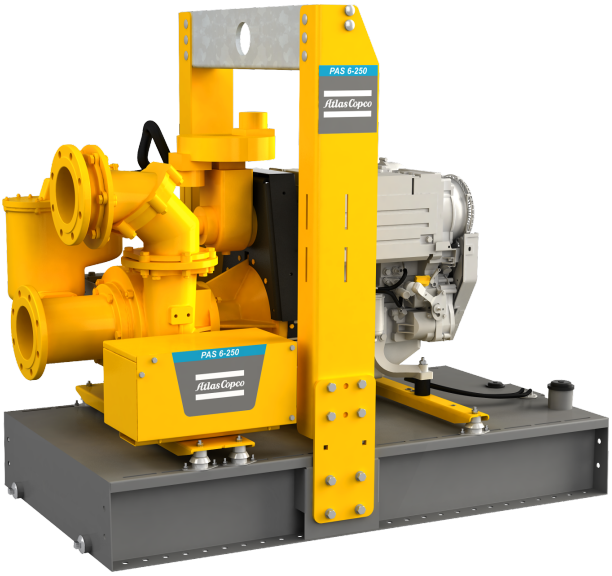
PAS 200MF 300

Diesel - Qmax 720 m^3/h (3,170 USgpm) - Hmax 31 m (102 ft)



PAS 200MF 300 Liquid cooled engine



PAS 200MF 300 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: 73% (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 60 mm (2.4")

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

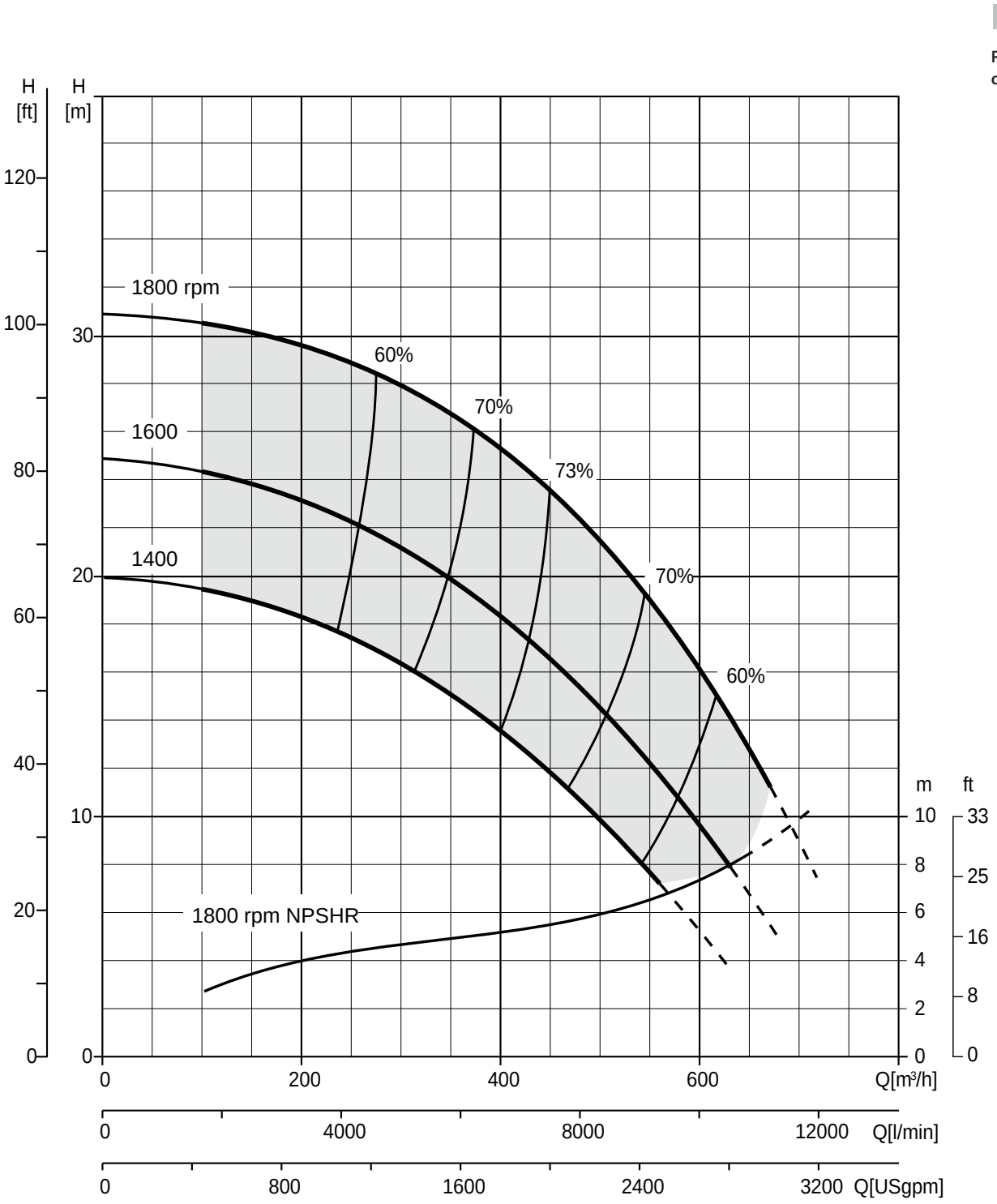
Wear plate
Cast iron (G10 rubber lined) or stainless steel wear plate, that are easily replaceable

PAS 200MF 300

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.60 mm (2.4")

Priming time: 30 s from 1,5 m (4.9 ft)
Max absorbed power: 41,0 kW - 55.0 HP (1.800 rpm)



PAS 200MF 300

Technical data

Pump

Model	PAS 200MF 300	
Qmax	720 m^3/h - 12.000 l/min (3,200 USgpm)	
Hmax	31 m (102 ft)	
Q max eff.	450 m^3/h - 7.500 l/min (2,000 USgpm)	
Eff. max	73 %	
Suction port	Flanged - DIN 200	
Delivery port	Flanged - DIN 200	
Impeller type	Semi-Open, 4 vane	
Solids handling	60 mm (2.4 ")	
Material	**G10**	**F10**
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron
Impeller	EN-GJS-400 cast iron	CF8M stainless steel
Wear plates	EN-GJL-200 rubber lined cast iron	CF8M stainless steel
Number of plates	1	1
Shaft	39NiCrMo3 steel	AISI 329 stainless steel
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 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 2504TCR (KL28)				F4L914 (ZD52)			
Type	Diesel turbo common rail				Diesel direct injection, aspirated			
Displacement	2.482 cm^3 (151 in^3)				2.630 cm^3 (160 in^3)			
No. cylinders	4				4			
Cooling	Liquid with radiator				Air			
Rpm type	Variable				Variable			
Standard speed	1.800 rpm				1.800 rpm			
EU emissions	2002/88/CE Stage 3B				2002/88/CE Stage 2			
US emissions	EPA Tier IV Final				EPA Tier II			
Starting	Electric				Electric			
Starting voltage	12 V				12 V			
Oil change interval	500 h				300 h			
Market	UE				Extra UE			
Speed [rpm]	**1200**	**1400**	**1600**	**1800**	**1200**	**1400**	**1600**	**1800**
Consumption [l/h]	7,5	9,3	10,7	11,4	4,2	5	5,6	11,1
Power [kW]	32	39,6	45	47,7	28,8	35,1	40,5	45
Power [HP]	42.9	53.1	60.3	64	38.6	47.1	54.3	60.3

Control panel

Model	CP KDI 1903TCR-2504TCR	CP KL DEUTZ 01
	Manual operation	Manual operation
	High contrast LCD display (ENG-DEU)	Hour meter
	Hour meter	Engine failure alarms with LED lights in case of:
	Rev counter	- low oil pressure - engine overheating - lack of battery charging
	Oil pressure	Throttle rod
	Oil temperature	
	Oil level	
	Automatic engine shutdown in case of:	
	- low oil pressure - water overheating - lack of battery charging	
	Engine failure alarms with LED light and display message in case of:	
	Electronic speed regulator	
	Protection rating - IP67	

PAS 200MF 300

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	420 l (111.0 USG)
Locking keys	Fuel cap

BLOCK PAS 200MF

Dimensions	995 x 2450 x 1700 mm 39 x 96 x 67 "
H suction port	2752 m (9029 ft)
Weight (KL28)	1210 kg (2,670 lb)
Weight (ZD52)	1250 kg (2,760 lb)

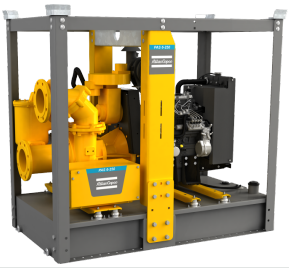
SKID01 PAS 200MF

Dimensions	995 x 2750 x 1810 mm 39 x 108 x 71 "
H suction port	0,77 m (2.5 ft)
Weight (KL28)	1390 kg (3,060 lb)
Weight (ZD52)	1430 kg (3,150 lb)

SKID02 PAS 200MF

Dimensions	1070 x 3310 x 1850 mm 42 x 130 x 73 "
H suction port	0,81 m (2.7 ft)
Weight (KL28)	1320 kg (2,910 lb)
Weight (ZD52)	1360 kg (3,000 lb)

STACK PAS 200MF



Dimensions	995 x 2450 x 1745 mm 39 x 96 x 69 "
H suction port	0,66 m (2.2 ft)
Weight (KL28)	1335 kg (2,940 lb)
Weight (ZD52)	1375 kg (3,030 lb)

TRAILER PAS 200MF

Dimensions	1610 x 2850 x 2110 mm 63 x 112 x 83 "
H suction port	1,07 m (3.5 ft)
Weight (KL28)	1330 kg (2,930 lb)
Weight (ZD52)	1370 kg (3,020 lb)

PAS 200MF 300

Arrangements

CNP PAS 200MF 300

Dimensions	1400 x 2950 x 1950 mm (55 x 116 x 77 ")
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	470 l (124.2 USG)
Drip pan	517 l (136.6 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	0,73 m (2.4 ft)
Weight (KL14)	2000 kg (4,410 lb)
Noise level ()	- @10 m (32 ft)

Engines

Make	**Kohler**			
Model	KDI 2504TCR (KL14)			
Type	Diesel turbo common rail			
Displacement	2.482 cm^3 (151 in^3)			
No. cylinders	4			
Cooling	Liquid with radiator			
Rpm type	Variable			
Standard speed	1.800 rpm			
EU emissions	2002/88/CE Stage 3B			
US emissions	EPA Tier IV Final			
Starting	Electric			
Starting voltage	12 V			
Oil change interval	500 h			
Market	UE			
Speed [rpm]	**1200**	**1400**	**1600**	**1800**
Consumption [l/h]	7,5	9,3	10,7	11,4
Power [kW]	32	39,6	45	47,7
Power [HP]	42.9	53.1	60.3	64

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