Diesel - Omax 150 I/s - Hmax 37 m



liquid cooled engine - Flashing light and spool are available as an extra option

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.

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

Benefits

Pump

High efficiency: 77% (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

SKIDUZ PAS TSUMF 250

Dimensions	1070 x 2220 x 1670 mm
H suction port	0.735 m
Weight (KL10)	990 kg



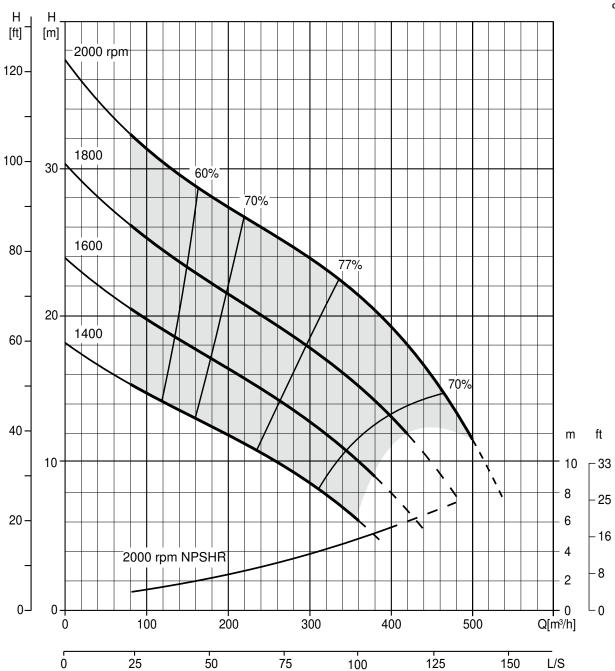
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Performance curves

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: 27,0 kW - 36.2 HP (2.000 rpm)

Recommended operating range





Technical data

Pump

Model		PAS 150MF 250					
Qmax		150 l/s - 9.000 l/min (2,400 USgpm)					
Hmax		37 m (121 ft)					
Q max eff.		94 l/s - 5.670 l/min (1,500 USgpm)					
Eff. max		77 %					
Suction port		Flanged - DIN 150					
Delivery port		Flanged - DIN 150					
Impeller type		Semi-Open, 2 vane					
Solids handling		76 mm (3.0 ")					
Matarial	C11	Г11	D11				

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				De	utz		
Model		KDI 1903	M (KL10)		D2011L03I (ZD51)				
Type]	Diesel direct inje	ection, aspirated	l		Diesel direct injection, aspirated			
Displacement		1.861 cm ³ (114 in ³)				2.330 cm ³ (142 in ³)			
No. cylinders		3				3			
Cooling		Liquid wit	h radiator			Air			
Rpm type		Vari	able		Variable				
Standard speed		1.800 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				Elec	ctric		
Starting voltage		12 V				12	2 V		
Oil change interval		500 h				300 h			
Market		UE				L	IE		
Speed [rpm]	1200	1200 1400 1600 1800			1400	1600	1800	2000	
Consumption [l/h]	3,5	4,4	5,1	5,4	4,2	5	5,6	6,2	
Power [kW]	13,5	17,6	20,3	21,6	16,7	19,8	22,1	24,3	
Power [HP]	18.1	23.6	27.2	29	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	- low oil pressure		
	- water overheating	- engine overheating		
	- lack of battery charging	- lack of battery charging		
	(engine failure alarms with LED lights)			
	Throttle rod	Throttle rod		



Arrangements



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 I (111.0 USG)
Drip pan	462 I (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	0,72 m (2.4 ft)
Weight (KL10)	1490 kg (3,280 lb)
Noise level (KL10)	63-68 dB(A) @10 m (32 ft)
Weight (KL19)	1525 kg (3,360 lb)
Noise level (KL19)	66-71 dB(A) @10 m (32 ft)

Engines

Make	Kohler					Kol	nler		
Model		KDI 1903	M (KL10)		KDI 2504M (KL19)				
Туре		Diesel direct injection, aspirated				Diesel direct injection, aspirated			
Displacement		1.861 cm ³ (114 in ³)				2.482 cm ³ (151 in ³)			
No. cylinders		3	3			4			
Cooling		Liquid wit	h radiator			Liquid with radiator			
Rpm type		Variable			Variable				
Standard speed		1.800 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				Elec	ctric		
Starting voltage		12 V				12	2 V		
Oil change interval		500 h				500 h			
Market		UE				L	ΙE		
Speed [rpm]	1200	1400	1600	1800	1400	1600	1800	2000	
Consumption [l/h]	3,5	4,4	5,1	5,4	5,5	6,4	6,7	7,1	
Power [kW]	13,5	17,6	20,3	21,6	22,5	26,1	27	28,4	
Power [HP]	18.1					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



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