

Dewatering solutions

Centrifugal open frame diesel pumps

Sustainable Productivity



PAS dewatering solutions

The PAS range was developed as a result of our over 140 years' experience working with construction customers across the world. Our strategy fits perfectly with pumps. The first focus, of course, is providing efficient products. We strive to develop products that are better for you and better for the environment. Secondly, the products should be easy to take to your point of work. Therefore we put a huge amount of focus on making products that are smaller and lighter, with features that make them easy to move.

The PAS open frame pump systems consist of a highly efficient diaphragm pump with a semi-open impeller and a large separator. Air is separated from the liquid and sucked by the vacuum pump, making automatic and efficient priming possible. We offer both wet prime and dry prime options.

Even with suction heights of several metres, both ranges rapidly evacuate the air from the suction pipe and start to pump. The semi-open impeller makes both ranges suitable for pumping liquids with solids in the suspension.



Has your pump got Pumpwatch?

Sustainable Productivity

Atlas Copco



Creating customer value



HIGH CAPACITY DIAPHRAGM PUMP

For automatic and fast priming.



MECHANICAL SHAFT SEALS IN OIL BATH

Dry running capability without damaging the shaft seals.



SERVICE FRIENDLY

Hinged access to the pump housing for easy service access.



TIER 4 FINAL ENGINE

All PAS units come with the latest engine emission standard.



NEED A TRAILER?

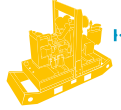
We can supply the PAS unit with different skid configurations.

Atlas Copco



LIFTING BEAM

Comes as standard with all configurations.



HIGH EFFICIENCY HYDRAULIC END

Low fuel consumption.



WHEN IT COMES TO PUMPS, WE FOCUS ON FIVE KEY CRITERIA:



COMPACT

Made to go where you need to go. With features that make it easy to transport.



VERSATILE

One pump should cover multiple applications. Focus on modular designs.



DURABLE

Tested, performed and verified in the toughest working conditions.



EFFICIENCY

Focused on reducing fuel consumption. Made to suit any environment.



SIMPLE SERVICE

Easy access to all parts and consumables.

Dry prime data tables

TECHNICAL DATA

Specifications		PAS 100 HF	PAS 4 DDM - W 260	PAS 150 HF	PAS 6 DDM - W 250	PAS 200 HF
Suction / discharge size		ANSI 4"	ANSI 4"	ANSI 6"	ANSI 6"	ANSI 8"
Max capacity	US gpm	1232	1430	2290	2380	3655
Max. head	ft	167	137.5	167	121	164
Solids handling	in	3"	3"	3"	3"	3"
Best efficiency point (B.E.P.)	ft	131	85	115	72	88.6
Best efficiency	%	70	70	70	77	75
Engine						
Model		Deutz D 2.9 L4, 50HP	Kohler KDI 1903TCR	Deutz TD 2.9 L4, 74 HP	Kohler KDI 1903TCR	Deutz TCD 3.6 L4
Type		Diesel	Diesel	Diesel	Diesel	Diesel
Displacement	cu in	177	113.5	177	113.5	209
Number of cylinders		4	3	4	3	4
Governor		Electric , Variable speed	Electric , Variable speed	Electric , Variable speed	Electric , Variable speed	Electric , Variable speed
Emissions reduction technology		DOC	DOC	DOC	DOC	DOC + SCR
Combustion system		Normally aspirated	Turbo common rail	Turbo common rail	Turbo common rail	Turbo common rail
Cooling system		Water cooled	Water cooled	Water Cooled	Water cooled	Water Cooled
Max. continuous power	kW - hp	31.0-42	34.0-45.6	51.0-68,4	34.0-45.6	85-114
Max. speed	rpm	2200	2000	2200	2000	2200
Exhaust emission compliance		Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final
Fuel capacity and consumption						
Fuel tank capacity	US gal	94	79	94	79	119
Fuel consumption @ B.E.P	gal/hr	2.06	1.77	3.22	1.98	4.7
Fuel autonomy @ B.E.P.	h	45	44	29	40	25
Pump Data						
Operating speed	rpm	1400-2200	1400-2200	1400-2200	1400-2200	1400-2200
Maximum absorbed power	kW	29.0	24.0	51.0	27.0	65.6
Pump casing		Cast iron GG20, AISI CLASS30	Cast iron GG20, AISI CLASS30	Cast iron GG20, AISI CLASS30	Cast iron GG20, AISI CLASS30	Cast iron GG20, AISI CLASS30
Impeller		Ductile GGG50, AISI 80-55-06	Ductile GGG50, AISI 80-55-06	Ductile GGG50, AISI 80-55-06	Ductile GGG50, AISI 80-55-06	Ductile GGG50, AISI 80-55-06
Shaft seals		Tungsten carbide + double back -up lip seals in oil bath	Tungsten carbide + double back -up lip seals in oil bath	Tungsten carbide + double back -up lip seals in oil bath	Tungsten carbide + double back -up lip seals in oil bath	Tungsten carbide + double back -up lip seals in oil bath
Pump shaft material		Steel 38 Ni Cr Mo 4	Steel 38 Ni Cr Mo 4	Steel 38 Ni Cr Mo 4	Steel 38 Ni Cr Mo 4	Steel 38 Ni Cr Mo 4
Gaskets		N/A	Compressed synthetic fibers	N/A	Compressed synthetic fibers	N/A
O-Rings		Viton	Viton	Viton	Viton	Viton
Non return check calve		Ball type	Flapper type	Ball type	Flapper type	Flapper type
Dimensions and weight (without trailer, skid)						
Length	in	89,8	68,11	91,5	68,11	90,5
Width	in	39,2	39,17	39,2	39,17	56,3
Height	in	70,9	58,84	70,9	58,84	80,7
Weight	lb	3300	2083	3640	2160	4190

Wet prime data tables

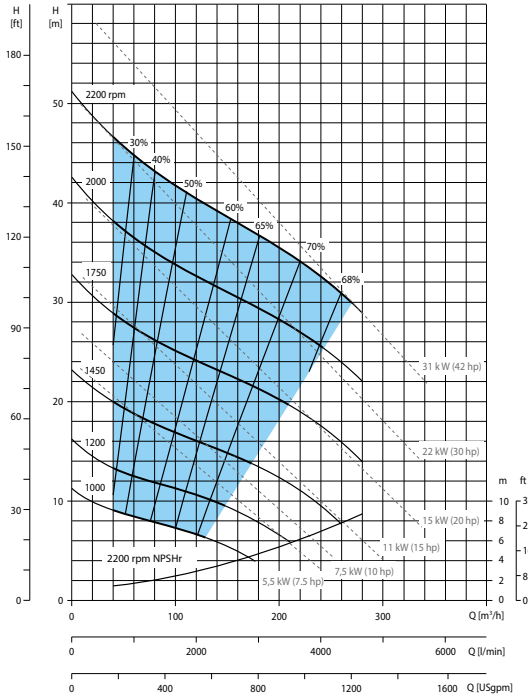


TECHNICAL DATA

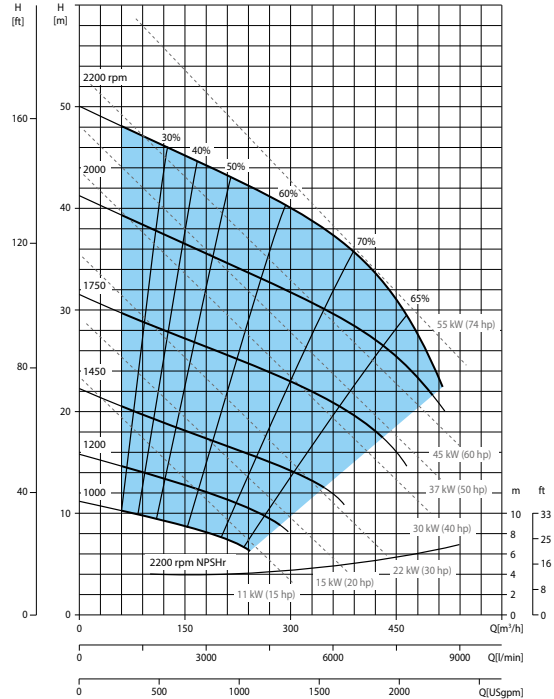
Specifications		PAS 4 WDM - W 250	PAS 6 WDM - W 250	PAS 8 WDM - W 305
Suction / discharge size		ANSI 4"	ANSI 6"	ANSI 8"
Max capacity	US gpm	790	1500	2380
Max. head	ft	105	90	114.5
Solids handling	in	2"	3"	3"
Best efficiency point (B.E.P.)	ft	75	56	59
Best efficiency	%	63	60	53
Engine				
Model		Kohler KDI 1903TCR	Kohler KDI 1903TCR	Kohler KDI 1903TCR
Type		Diesel	Diesel	Diesel
Displacement	cu in	113.5	113.5	113.5
Number of cylinders		3	3	3
Governor		Electric , Variable speed	Electric , Variable speed	Electric , Variable speed
Emissions reduction technology		DOC	DOC	DOC
Combustion system		Turbo common rail	Turbo common rail	Turbo common rail
Cooling system		Water cooled	Water cooled	Water cooled
Max. continuous power	kW - hp	34.0 - 45.6	34.0 - 45.6	34.0 - 45.6
Max. speed	rpm	1800	1800	1800
Exhaust emission compliance		Tier 4 Final	Tier 4 Final	Tier 4 Final
Fuel capacity and consumption				
Fuel tank capacity	US gal	79	79	111
Fuel consumption @ B.E.P	gal/hr	0.87	1.29	2.0
Fuel autonomy @ B.E.P.	h	90	61	55
Pump Data				
Operating speed	rpm	1400-1800	1400-1800	1200-1800
Maximum absorbed power	kW	13.2	20	31
Pump casing		Cast iron GG20, AISI CLASS30	Cast iron GG20, AISI CLASS30	Cast iron GG20, AISI CLASS30
Impeller		Ductile GGG50, AISI 80-55-06	Ductile GGG50, AISI 80-55-06	Ductile GGG50, AISI 80-55-06
Shaft seals		Mechanical Silicon carbide	Mechanical Silicon carbide	Mechanical Silicon carbide
Pump shaft material		39NiCrMo3 steel	39NiCrMo3 steel	39NiCrMo3 steel
Gaskets		Compressed synthetic fibers	Compressed synthetic fibers	Compressed synthetic fibers
O-Rings		Nitrile rubber	Nitrile rubber	Nitrile rubber
Non return check valve		check-valve, Nitrile rubber	check-valve, Nitrile rubber	check-valve, Nitrile rubber
Dimensions and weight (without trailer, skid)				
Length	in	68,11	68,11	88,11
Width	in	39,17	39,17	39,17
Height	in	58,84	58,84	70,87
Weight (without trailer, skid)	lb	1430	1584	1915

Performance curves

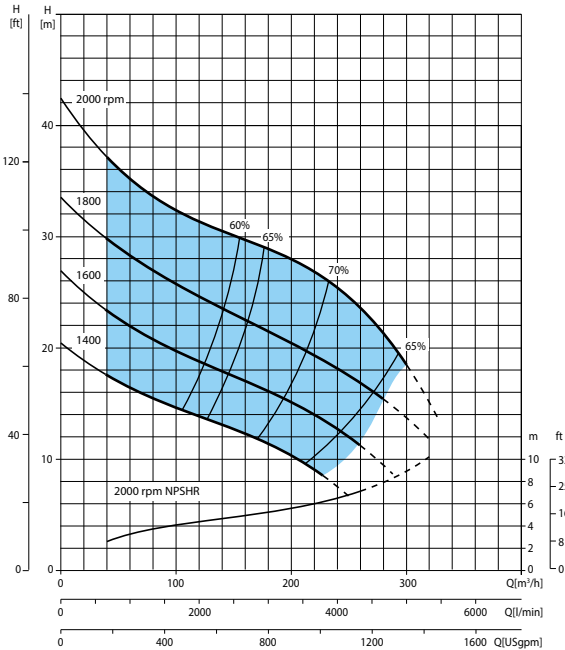
PAS 100 HF



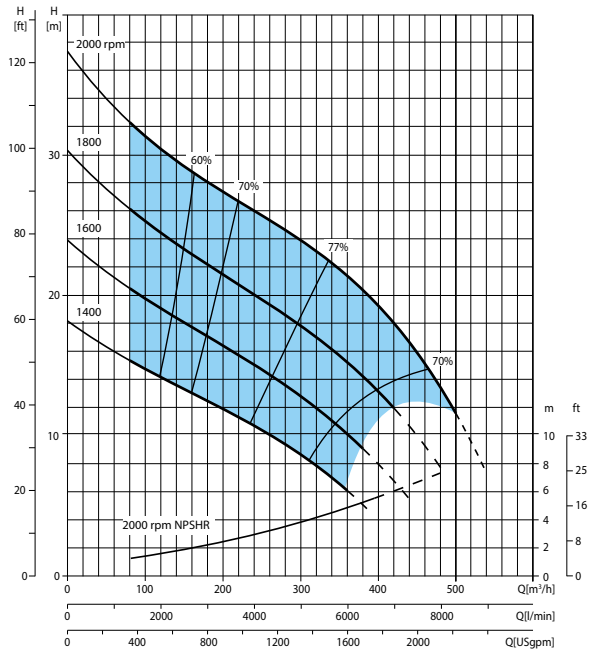
PAS 150 HF



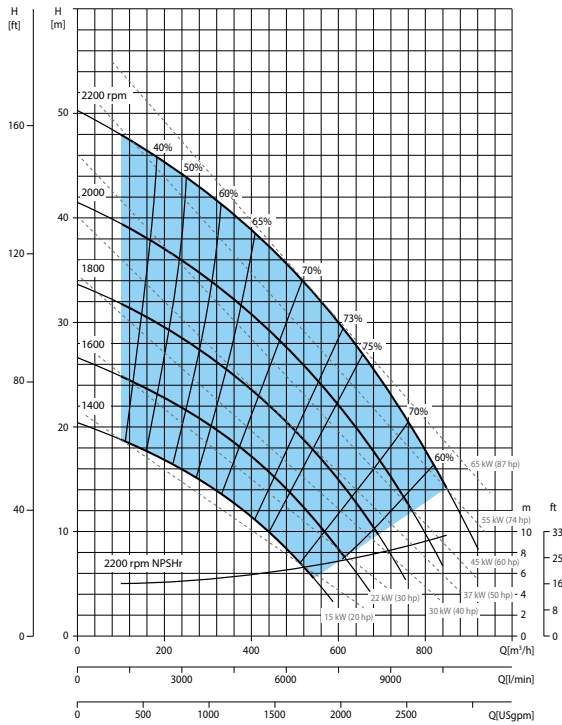
PAS4 DDM 260



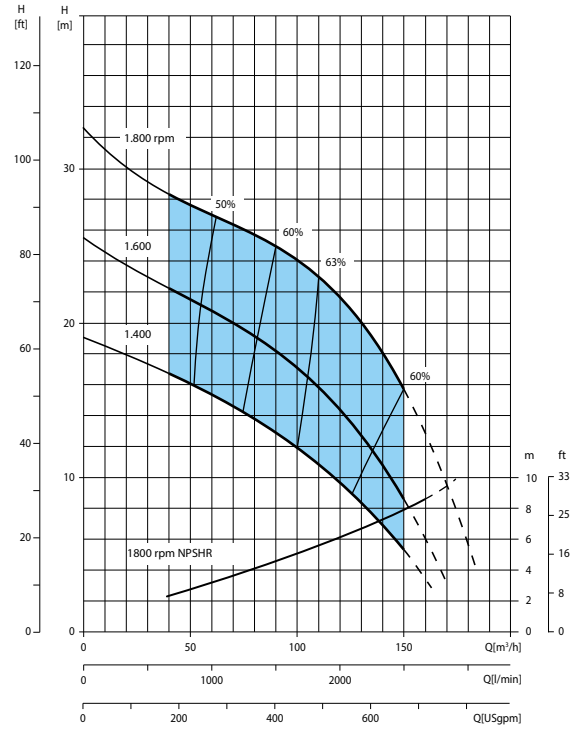
PAS6 DDM 250



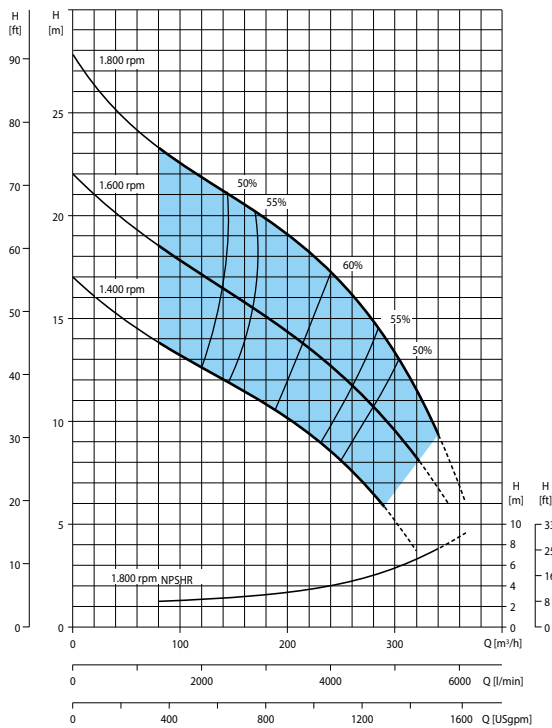
PAS 200 HF



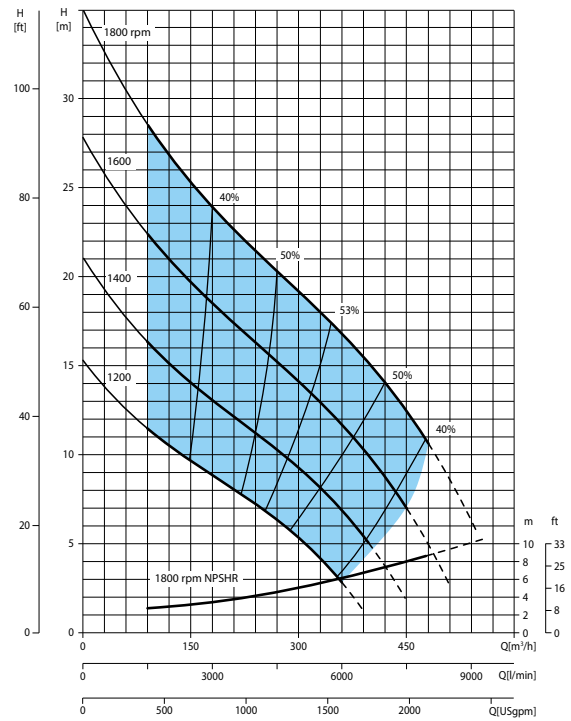
PAS4 WDM 250



PAS6 WDM 250



PAS8 WDM 305





TYPICAL APPLICATIONS



Ground water dewatering



Drainage of reservoirs, canals and ponds



Sewage by-pass



Naval platforms ballasting



Removing water after floods/heavy rain



The PumpWatch controller system

The PW750 and PW1000 overcome regional language barriers and varying network systems. The standard software supports display menus in 13 different languages in addition to the industry standard J1939 and RS485 protocols. Both models feature proprietary designs to deliver unmatched durability and dependability in the harshest of environments.

The robust switches and rockers allow for easy operation. Critical engine and pump information is clearly communicated via the high-contrast display, ultra-bright LEDs and high-decibel audible alarms.



PW750

PW1000

Hardware Inputs & Outputs / Event Handling

	Analog/Digital Inputs	Mag Pick-Up Speed Input	Pulse Frequency Inputs (Flow Meter)	4-20 mA Inputs (Transducer)	Resistive Sender Inputs (Temp, Pressure, Fuel, etc.)	Conditional Engine State Monitoring	Shutdown Management (Immediate/Controlled/Derate)	Warning and Shutdown on Fault	Service Interval Timers and Event History	Data Logging and Reporting	Instantaneous Flow	Totalized Flow
PW750 (standard)	12		0	1	3			✓	✓		✓	
PW1000 (option)	32	✓	2	6	6	✓	✓	✓	✓	✓	✓	✓

System and Network Compatibility

	J1939 CANbus Network	RS485 Modbus Interface	Wi-Fi Ready	Telemetry Ready	PC-Based Configuration Tool	External Programming Port	External Configuration Connection	Configurable Settings Via Display	Multi-Language Support	Multi-Level Password Protection
PW750 (standard)	1	✓		✓	✓		✓	Some	✓	
PW1000 (option)	2	✓	✓	✓	✓	✓	✓	All	✓	✓

Indicators & Switches

	High-Contrast Display	Green LED - Auto/Standby	Amber LED - SAE Icon Glowplug Preheat	Red LED - SAE Engine Stop/Shutdown	Amber LED - SAE Diagnostic/Warning	Red LED - User Definable	Blue LED - SCR/DEF Indication	Audible Alarm	Visual Alarm Ready	IP64 Keyswitch	2.5" Vacuum Gauge
PW750	✓	✓	✓	✓	✓	✓			✓	✓	✓
PW1000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Portable energy solutions portfolio

AIR COMPRESSORS

READY TO GO

- 110-185 cfm
- 58-125 psi



VERSATILITY

- 400-850 cfm
- 58-200 psi



PRODUCTIVITY PARTNER

- 950-18,000 cfm
- 100-508 psi



Diesel and electric options available.

GENERATORS

PORTABLE

- 1.6-13.9 kVA



MOBILE

- 25-1200* kVA



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

DEWATERING PUMPS

ELECTRIC SUBMERSIBLE

- up to 4,340 g/min



CENTRIFUGAL DIESEL DRIVEN

- up to 3,655 g/min



LIGHT TOWERS

METAL HALIDE



LED



Portfolio and options available can change depending on the market.

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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