

# Product Reference PAS6-KDS3A

## Atlas Copco portable automatic dry-prime diesel engine-driven pump



### Specifications

Model	PAS6-KDS3A
Suction/Discharge	DN150 (6")
Operating flow rate	80 - 500 m <sup>3</sup> /h
Head max.	37 m
Solids handling	76 mm Ø
Best efficiency point - BEP	342 m <sup>3</sup> /h @ 22 m
Efficiency	80%
Dimensions L x W x H	
Standard high skid frame	2.15 x 0.95 x 1.37 m
Optional eco skid frame	2.15 x 0.95 x 1.17 m
Optional trailer mounted (standard skid)	3.78 x 1.57 x 1.97 m
Optional trailer mounted (economy skid)	3.78 x 1.57 x 1.77 m
Fuel tank capacity	
Standard high skid frame	300 liters
Eco skid frame	105 liters
Fuel consumption @ B.E.P.	7.8 l/h
Fuel autonomy @ B.E.P.	
Standard high skid frame	38 h
Eco skid frame	14 h
Weight, dry	
Standard high skid frame	1135 kg
Optional eco skid frame	1053 kg
Weight of undercarriage	305 kg
Max. sound power level (LWA) <sup>(a,b)</sup>	93 dB(A)
Max. sound pressure level (LPA) at full load and 7m	67 dB(A)

<sup>a</sup> According to 2000/14/EC/OND

<sup>b</sup> Test references:  
ISO 3744 : 2010 Acoustics - determination of sound power levels and sound energy levels using sound pressure  
ISO 4871 : 1996 Acoustics - declaration and verification of noise emission values of machinery and equipment  
Measured on unit running at maximum rpm

### Engine

Model	Kubota V2607-DI-T-E3B
Type	Vertical 4-cycle diesel
Cylinders	4
Governor	Mechanical
Combustion system	Direct Injection
Cooling system	Liquid cooled
Intake system	Turbocharged
Max. continuous power	30.5 kW
Max. speed	2000 rpm
Exhaust emission compliance	EU Stage IIIA

### Pump set

Endurance Series	Type P6-250G-SAE4-V10
Operating speed	1200 - 2000 rpm
Maximum absorbed power	28.6 kW
- centrifugal pump	26.4 kW
- priming system	2.2 kW
Construction features	
Pump casing	Cast iron GG20
Impeller	Ductile Iron GGG50
Shaft seals	Tungsten carbide + double back-up lip seals in oil bath
Wear plates	Replaceable ductile iron GGG50 wear plates front & rear impeller side
Pump shaft material	Steel 38 Ni Cr Mo 4
Shaft sleeve	AISI 316 sleeve
Bearings	Double bearings - single and double raw balls life grease lubricate
Coupling	SAE 4 - V10"
Gaskets	Compressed synthetic fibers
O-Rings	Viton
Diaphragm vacuum pump	Oil-free water tolerant 50m <sup>3</sup> /h coupled to the pump with V-belts
Air-separation chamber	Casing in cast iron with S/S float mechanism (installed at suction side)
Non return check valve	Flapper type, made in neoprene, installed on discharge port

### Options and Accessories

- Trailer with adjustable towbar & road signalization
- External fuel tank connection
- Quick couplings for external fuel tank connection
- Towing eye (DIN, AC, NATO, Ball)
- Spark arrester
- Synthetic oil supply first filling

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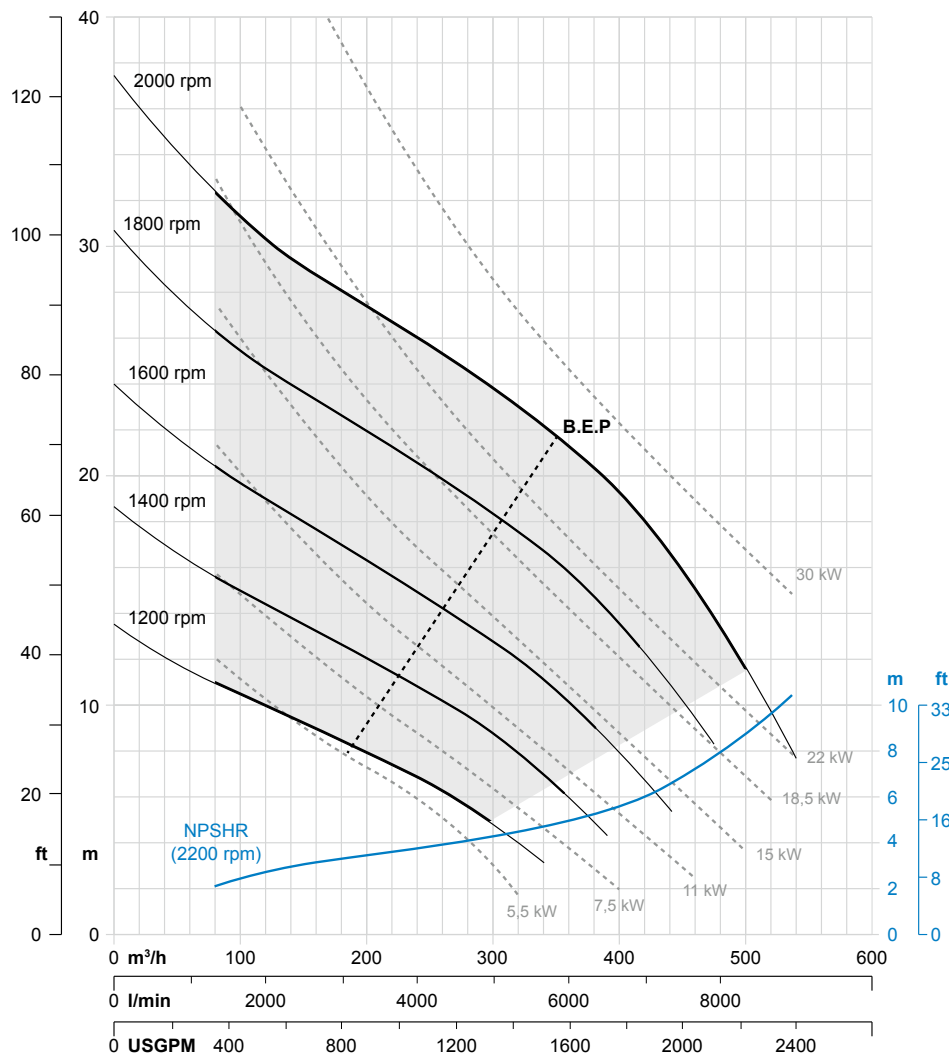
### Operating limits

Max. operating altitude without engine deration .....	4000 m
Max. fluid temperature .....	50°C
Max. fluid density .....	1100 kg/m <sup>3</sup>
Max. fluid viscosity .....	50 cSt
Fluid pH range.....	5 - 8
Max. outside temperature.....	50°C

### Performance curve

#### Tested according to EN ISO 9906 Grade 2

Test liquid: water: density 1000 kg/m<sup>3</sup>  
 Spherical solids handling: D 76mm  
 Priming time: -s (with suction lift of 2 m)  
 Impeller diameter: 247 mm  
 Number of blades: 2  
 Power requirements do not include priming system



Recommended pump operating range  
 B.E.P. = Best Efficiency Point

### Control System

#### Control functions

- Start/stop
- Auto mode (float switch regulation)
- Emergency stop
- Manual speed regulation

#### Indications

- Running hours
- Engine speed
- Battery charge voltage
- Fault icons (warnings & shutdowns)
- Vacuum pressure gauge
- Fuel level gauge

#### Warnings and shutdown

- Fail to start
- Fail to stop
- Low engine oil pressure
- Engine high temperature
- Charge failure
- Low fuel level
- Battery voltage

### Key Features

#### Pump system

- High performance pump with superior efficiency
- High abrasion-resistant ductile cast iron impeller – excellent compromise between impact resistance and surface hardness
- Semi-open impeller allowing free passage of large diameter solids
- Removable front cover for direct access to the wear plates and impeller for easy servicing
- Mechanical seal with oil bath reservoir for dry running capabilities
- Automatic priming with oil-free diaphragm vacuum pump that draws significant quantities of air, allowing drainage even under 'snore' conditions

#### Engine systems

- Durable power with a broad range of operating speeds to set optimal performance and efficiency
- High capacity cooler guarantees continuous operation even at high ambient conditions enabling longer service intervals (500 hours)

#### Frame and enclosure

- Sound-attenuated & rugged galvasteel enclosure, with large doors for easy service
- Spillage free frame (integrated forklift pockets, 110% containment)
- Rigid lifting beam with eye in the center of gravity