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



Specifications

| Model | PAS4-KDS3A |
|---|----------------------|
| Suction/Discharge | DN100 (4") |
| Operating flow rate | 50 - 240 m³/h |
| Head max. | 33 m |
| Solids handling | 45 mm Ø |
| Best efficiency point | 182 m3/h @ 24 m |
| Efficiency | 75% |
| 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) | 3.74 x 1.57 x 1.92 m |
| Optional trailer mounted (economy skid) | 3.70 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. | 5.5 l/h |
| Fuel autonomy @ B.E.P. | |
| Standard high skid frame | 55 h |
| Eco skid frame | 19 h |
| Weight, dry | |
| Standard high skid frame | 1070 kg |
| Optional eco skid frame | 987 kg |
| Weight of undercarriage | 285 kg |
| Max. Sound Power Level (LWA)(a,b) | 93 dB(A) |
| Max. Sound Pressure Level (LPA) at full load and 7m | 67 dB(A) |
| | |

Engine

| Model | Kubota V2403-M-DI-E3B |
|-----------------------------|-------------------------|
| Туре | Vertical 4-cycle diesel |
| Cylinders | 4 |
| Governor | Mechanical |
| Combustion system | Direct Injection |
| Cooling system | Watercooled |
| Intake system | Natural aspiration |
| Max. continuous power | 25.7 kW |
| Max. speed | 2200 rpm |
| Exhaust emission compliance | EU Stage IIIA |

Pump set

| Type P4 220G SAE4 V7.5 |
|--|
| 1200 - 2200 rpm |
| 18.2 kW |
| 16.0 kW |
| 2.2 kW |
| |
| Cast iron GG20 |
| Ductile Iron GGG50 |
| Tungsten carbide + double back-up lip seals in oil bath |
| Replaceable ductile iron GGG50 wear plates front & rear impeller side |
| Steel 38 Ni Cr Mo 4 |
| AISI 316 sleeve |
| Steel 38 Ni Cr Mo 4 AISI 316 sleeve |
| SAE 4 - V7.5" |
| Compressed synthetic fibers |
| Viton |
| Oil-free water tolerant 50m³/h coupled to the pump with V-belts |
| Casing in cast iron with S/S float mechanism (installed at suction side) |
| 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



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

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Operating limits

| Max. operating altitude without engine deration | m |
|---|----|
| Max. fluid temperature | |
| Max. fluid density | |
| Max. fluid viscosity | it |
| Fluid pH range | |
| Max. outside temperature | |

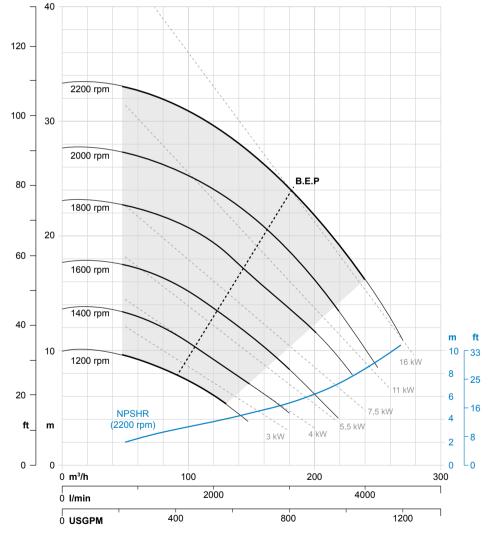
Performance curve

Tested according to EN ISO 9906 Grade 2

Test liquid: water: density 1000 kg/m³ Spherical solids handling: D 45mm Priming time: -s (with suction lift of 1.5m) Impeller diameter: 215 mm

Number of blades: 3

Power requirements do not include priming system



Recommended pump operating range

B.E.P. = Best Efficiency Points

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 under voltage
- Battery over voltage

Key Features

Pump system

- High performance pump with superior BEP's best efficiency points
- 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 oilfree diaphragm vacuum pump that draws significant quantities of air allowing drainage possible even under 'snore' conditions

Engine system

- Durable power with broad range of operating speed to set optimal performance and efficiency
- High capacity cooler guarantees continuous operation even at high ambient conditions enabling longer servicing at 500 hours

Frame and enclosure

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

