

SOUND-ATTENUATED DIESEL-DRIVEN PACKAGES

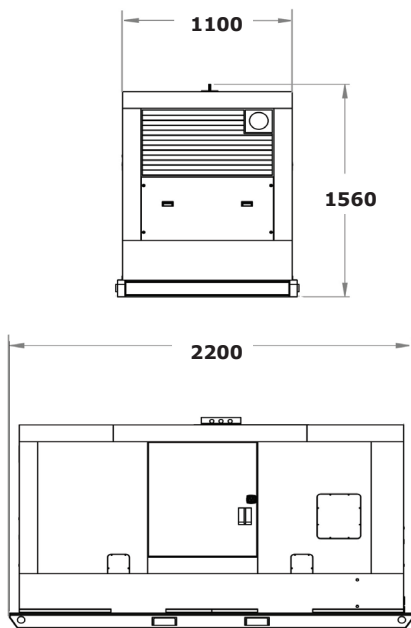


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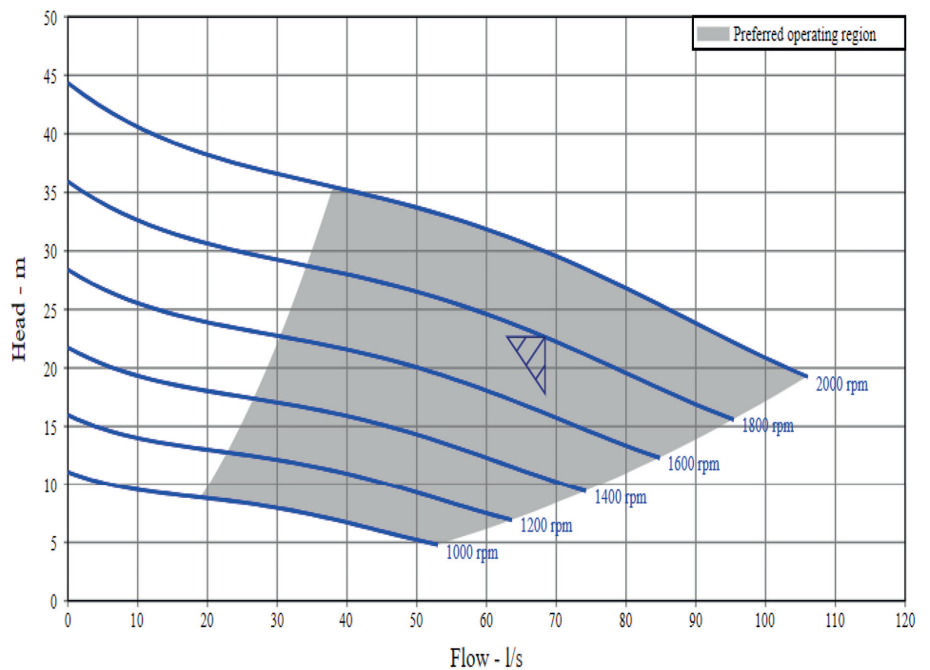
# 100SM

## PUMP MODEL PP44S10 PIONEER PRIME VACUUM ASSISTED DIESEL-DRIVEN PACKAGE SOUND ATTENUATED CANOPY PACKAGE

### MECHANICAL DRAWING



### PERFORMANCE CURVE



**WEIGHT FULLY FUELED:**  
1700 KG

**MODEL:** PP44S10  
**IMPELLER DIAMETER:** 254 mm | **SOLIDS SIZE:** 76 mm

## SOUND-ATTENUATED DIESEL-DRIVEN PACKAGES

# PUMP MODEL PP44S10

## PIONEER PRIME VACUUM ASSISTED DIESEL-DRIVEN PACKAGE

### SOUND ATTENUATED CANOPY PACKAGE



#### SPECIFICATIONS

Suction Connection	100 mm
Delivery Connection	100 mm
Max Flow	320 m <sup>3</sup> /h
Max Head	40 m
Solids Size	76 mm
Max Speed	2000 rpm
Rated Power BEP	30 kW
Fuel Tank Size	300 l
Sound Raiting	64 dB 7 metres
L x W x H (mm)	2200 x 1100 x 1560

#### PIONEER PRIME SYSTEM

##### Priming System

Mechanically Driven Diaphragm Style Vacuum Pump

##### Air Removal Capacity

50CFM

##### Priming Chamber

Single chamber with positive sealing air separation

PosiValve™ with stainless steel float ball & linkage.

##### Discharge Check Valve

Swing Style - ductile iron with Buna-n Disc completely drywithout damage

#### FEATURES

- Indefinite Run-Dry Capability
- Efficient Design for Reduced Operating Costs
- Auto Stop/Start w/telemetry and remote monitoring
- Sound Attenuated, Fully Bunded Packages
- Spark Arresting Mufflers
- Chalwyn Valve
- Environmentally Safe Priming System with Patented PosiValve™ – No Blow By

#### ENGINE SPECIFICATIONS

Engine Type	JCB
Displacement	2,2 litres
Max Continuous Horsepower	45 kW
Safety Shutdown Switches	Low Oil Pressure, High Temperature, and V-Belt Failure

#### APPLICATIONS

Raw Water Pumps	Cooling Pumps	Sewage Bypass	Mine Dewatering
Dirty Water	Flood Pumps	Flushing	Silt Returns

#### OTHER SPECIFICATIONS

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
Pump End Bearing	Enclosed Type Impeller – CA6NM Stainless Steel
Drive End Bearing	Double Row Angular Contact
Shaft	17-4 PH Stainless Steel
SAE	SAE engine-mount bracket options available

#### CONSTRUCTION MATERIALS

#### STANDARD

#### OPTION

Impeller	CA6NM-316 SS	CD4MCu
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu
Wear Ring	CD4MCu-316 SS	CD4MCu-316 SS
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu

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HEAVY DUTY PUMPS

ISO 14001, ISO 45001 og Sellihca Qualified