

**Pioneer Prime Vacuum Assisted  
Stage V Diesel-Driven Centrifugal Pump  
Sound Attenuated Canopy Package**

# 100SM-EVO



## PUMP SPECIFICATIONS

Model	PP44S10
Size	4 x 4" (100 x 100 mm)
Max Flow	375 m <sup>3</sup> /h
Max Head	39 m
Solids Size	3" (76 mm)

## ENGINE SPECIFICATIONS

Engine Type	Perkins 403J-E17T, Diesel
Displacement	1.7 l
Fuel Consumption at BEP	6.3 l/h @ 2000 rpm
Max Running Hours at BEP	32 h @ 2000 rpm
Continuous Power	48 HP (36 kW) @ 2000 rpm
Aftertreatment Specifics (DEF, DOC, SCR, etc.)	Diesel Particulate Filter, Diesel Oxidation Catalyst
Emmissions Compliance	EU Stage V

## PRIMING SYSTEM

Priming System	Mechanically Driven Vacuum Pump
Air Removal Capacity	24 l/s (50CFM)
Priming Chamber	Air Separation Pioneer Prime w/SS Components
Discharge Check Valve	Ductile Iron Body; Swing Flex Nitrile Rubber Flapper
Run Dry System	Oil Reservoir for Mechanical Seal; Indefinite Run-Dry Capability

## FEATURES

- Indefinite Run-Dry Capability
- Environmentally Safe Priming System with Patented PosiValve™
- Spark Arresting Silencer
- Auxiliary Fuel Tank Connections
- Digital Fuel Level Gauge
- Digital Suction & Discharge Pressure Transducers
- Quick Connect Suction & Discharge Couplings

## OPTIONS AND ACCESSORIES

Telemetry	Full Control & Remote Monitoring with Alerts
Certified Spark Arrestor	ATEX Approved
Trailers	EU Approved, Fast Tow or Plant Trailers & Heavy Duty Non-EU Site Tow Trailer
Safety	Air Intake Shutdown Valve
Battery Standby	Solar Panel Trickle Charger
Materials	Duplex Stainless Steel Available

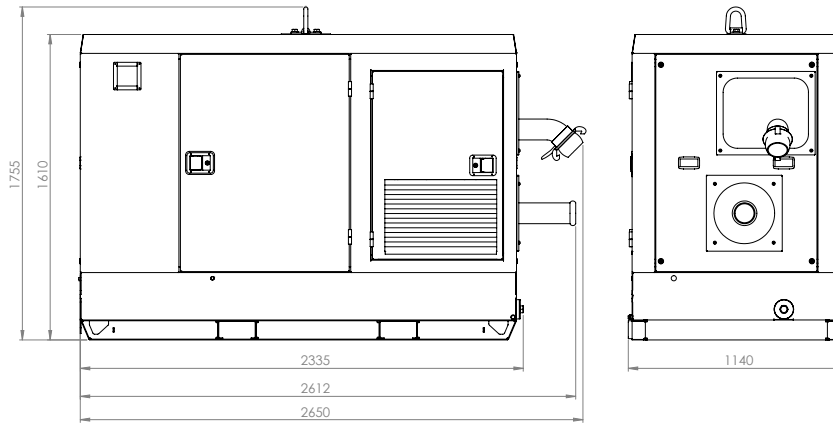
## PACKAGE SPECIFICATIONS

Fuel Tank Capacity	200 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 2000 rpm
Weight (Dry / Wet)	1370 kg / 1600 kg
Dimensions (L x W x H)	2335 x 1140 x 1610 mm
Enclosure dB(A) Rating	60 dB(A) @ 7m
Canopy Material & Finish	Zinc Plated Steel, Painted Green RAL6005
Skid/Bund Material & Finish	Carbon Steel, Hot Dip Galvanised

## MATERIALS OF CONSTRUCTION

Impeller	CA6NM Stainless Steel
Shaft	17-4 PH Stainless Steel
Wear Ring	ASTM A48 Class 40 Gray Iron
Volute	Ductile Iron ASTM A536 65-45-12
Mechanical Seal	Silicon Carbide Rotating vs Tungsten Carbide Stationary, Fluoroelastomers

## MECHANICAL DIMENSIONS & WEIGHTS



Weight (Dry / Wet): 1370 kg / 1600 kg

## PERFORMANCE CURVE

Model: PP44S10

Impeller Diameter: 9.5"

Solids Size: 3"

