

100VM-EVO

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

Pump Specifications

Model	PP44V10
Size	4 x 4" (100 x 100 mm)
Max Flow	310 m ³ /h
Max Head	45m
Solids Size	3.3" (85 mm)

Engine Specifications

Engine Type	Perkins 403J-E17T, Diesel
Displacement	1.7 l
Fuel Consumption at BEP	6.4 l/h @ 2000 rpm
Max Running Hours at BEP	31 h @ 2000rpm
Continuous Power	48 HP (36 kW) @ 2000 rpm
Aftertreatment Specifics (DEF, DOC, SCR, etc.)	Diesel Particulate Filter, Diesel Oxidation Catalyst
Emissions 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; Nitrile Rubber Ball
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
- Suction & Discharge Pressure Gauges
- Quick Connect Suction & Discharge Couplings
- Vortex Impeller & Extreme Solids Handling Capability

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

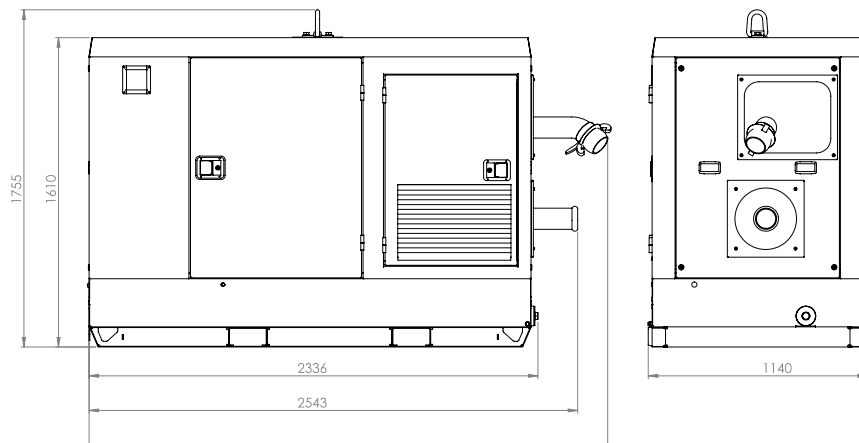
Package Specifications

Fuel Tank Capacity	200 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. /Max.)	1400 - 1800 rpm
Weight (Dry / Wet)	1415 kg / 1650 kg
Dimensions (L × W × H)	2335 x 1140 x 1610 mm
Enclosure dB(A) Rating	60 dB(A) @ 7m
Canopy Material & Finish	Steel, Painted, 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): 1415 kg / 1650 kg

Performance Curve

Model: PP44V10

Impeller Diameter: 10"

Solids Size: 3.3"

