

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

100VMB-EVO



PUMP SPECIFICATIONS

| | |
|-------------|-----------------------|
| Model | PP44V10 |
| Size | 4 x 4" (100 x 100 mm) |
| Max Flow | 310 m ³ /h |
| Max Head | 45 m |
| 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 |
| 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; 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
- Digital Suction & Discharge Pressure Transducers
- Quick Connect Suction & Discharge Couplings
- Vortex Impeller & Extreme Solids Handling Capability

OPTIONS AND ACCESSORIES

| | |
|-----------------------------------|---|
| Telemetry | Full Control & Remote Monitoring with Alerts |
| Certified Spark Arrestor Trailers | ATEX Approved 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 |

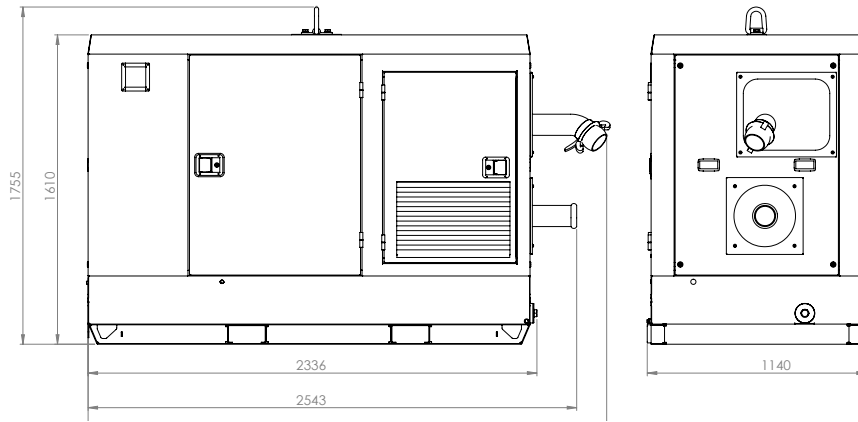
PACKAGE SPECIFICATIONS

| | |
|-------------------------------|--|
| 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 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



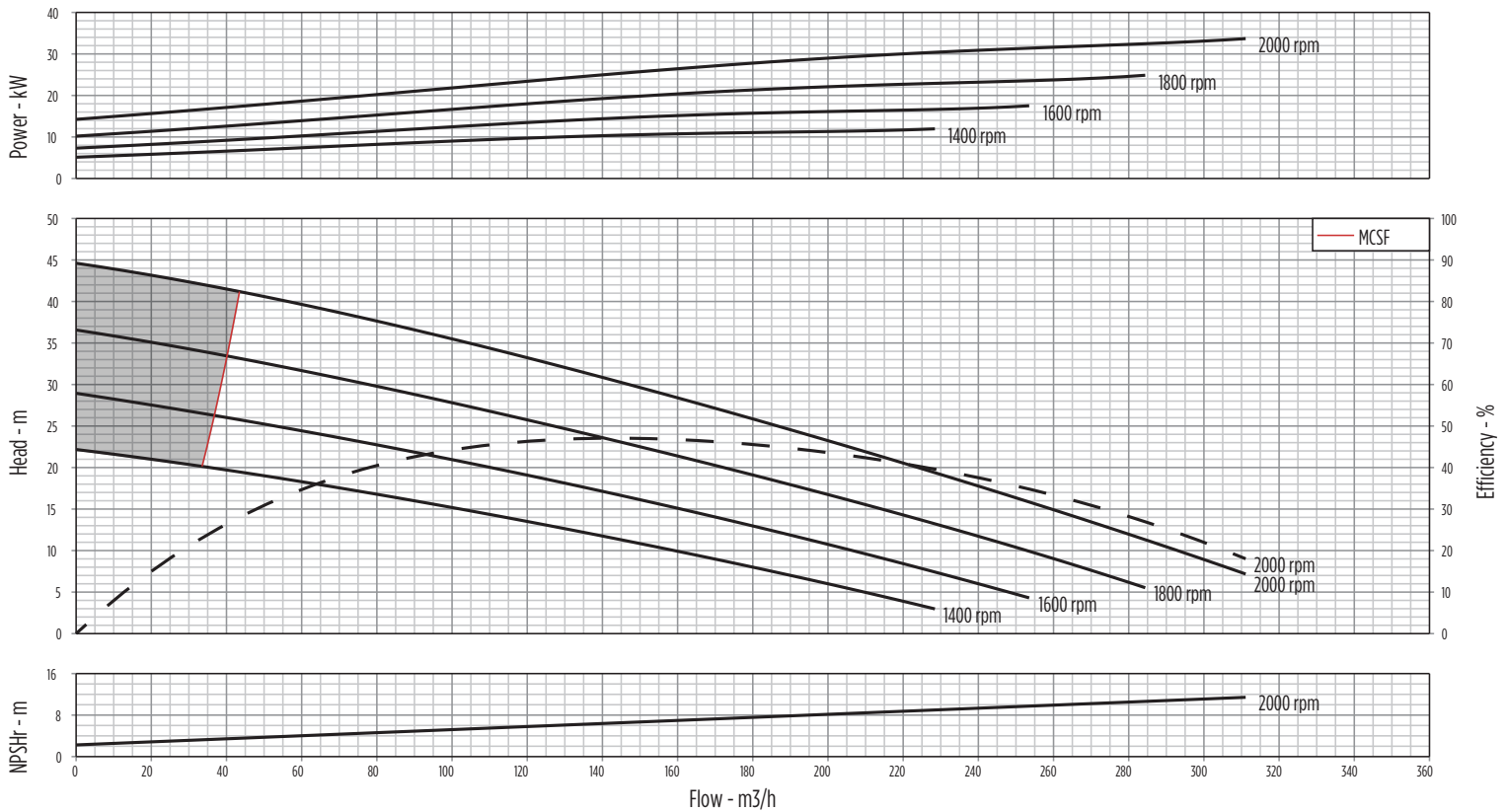
Weight (Dry / Wet): 1415 kg / 1650 kg

PERFORMANCE CURVE

Model: PP44V10

Impeller Diameter: 10"

Solids Size: 3.3"



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

150VL-EVO



PUMP SPECIFICATIONS

| | |
|-------------|-----------------------|
| Model | PP66V10 |
| Size | 6 x 6" (150 x 150 mm) |
| Max Flow | 355 m ³ /h |
| Max Head | 28 m |
| Solids Size | 5.1" (130 mm) |

ENGINE SPECIFICATIONS

| | |
|--|--|
| Engine Type | Perkins 403J-E17T, Diesel |
| Displacement | 1.7 l |
| Fuel Consumption at BEP | 4.1 l/h @ 1800 rpm |
| Max Running Hours at BEP | 48 h @ 1800 rpm |
| Continuous Power | 48 HP (36 kW) @ 1800 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; 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
- Digital Suction & Discharge Pressure Transducers
- Quick Connect Suction & Discharge Couplings
- Vortex Impeller & Extreme Solids Handling Capability

OPTIONS AND ACCESSORIES

| | |
|-----------------------------------|---|
| Telemetry | Full Control & Remote Monitoring with Alerts |
| Certified Spark Arrestor Trailers | ATEX Approved 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 |

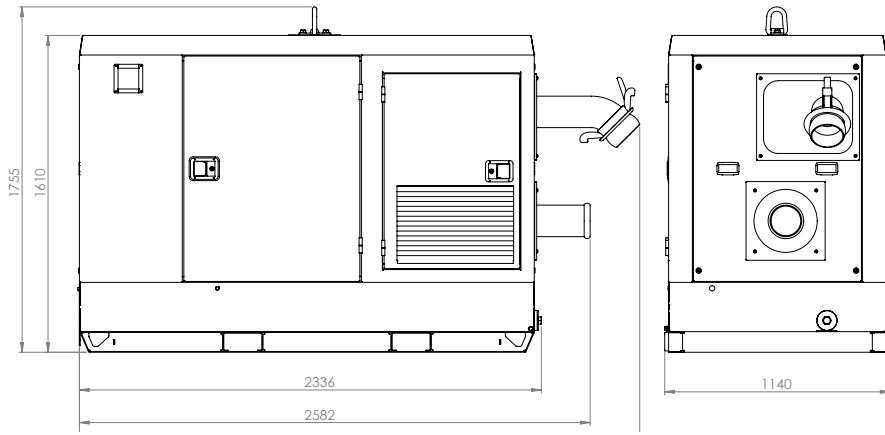
PACKAGE SPECIFICATIONS

| | |
|-------------------------------|--|
| Fuel Tank Capacity | 200 l |
| Control Panel | E400 Auto Stop/Start |
| Operating Speed (Min. / Max.) | 1400 - 1800 rpm |
| Weight (Dry / Wet) | 1455 kg / 1675 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



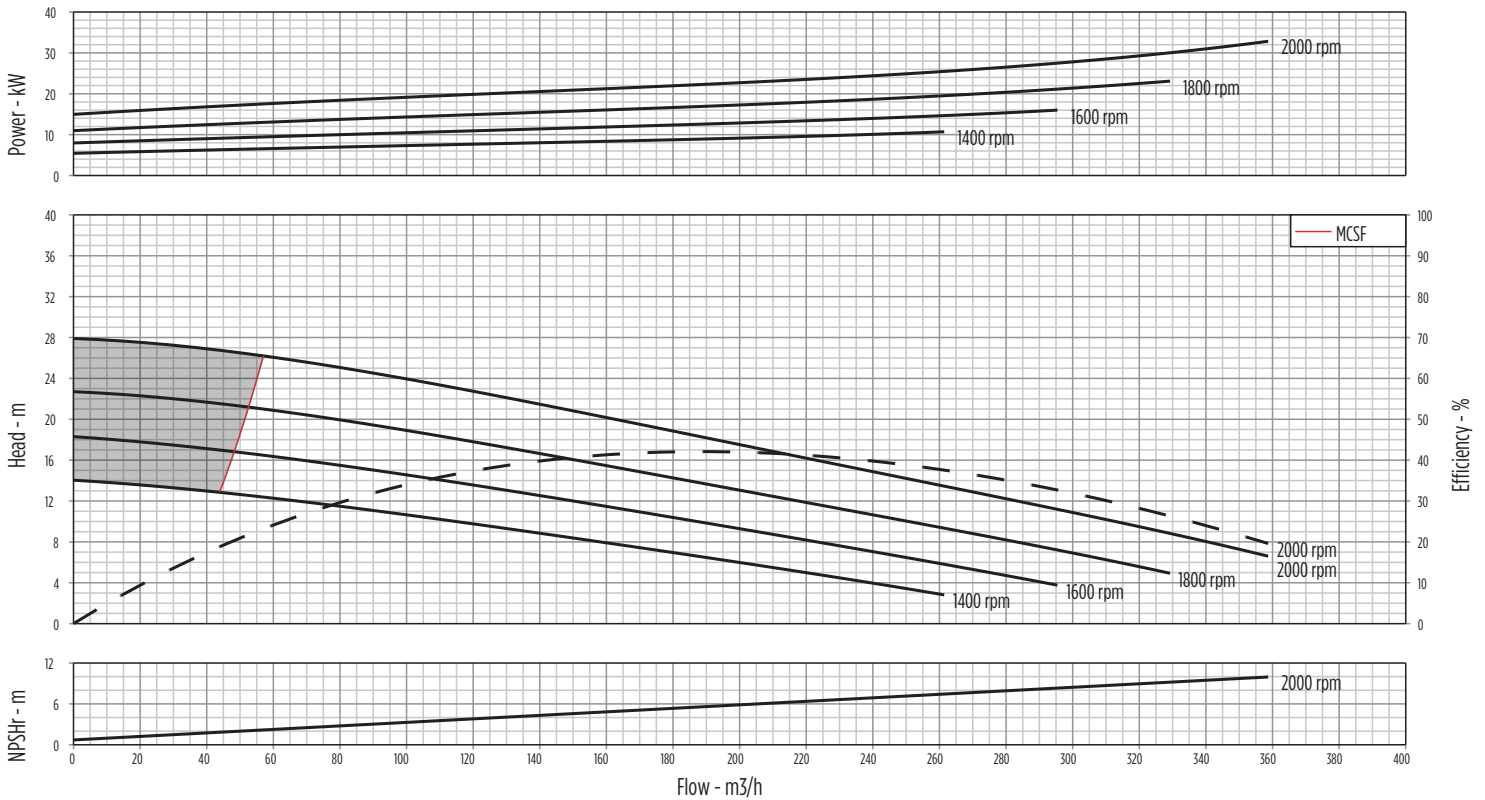
Weight (Dry / Wet): 1455 kg / 1675 kg

PERFORMANCE CURVE

Model: PP66V10

Impeller Diameter: 10"

Solids Size: 5.1"



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

150VM-EVO



PUMP SPECIFICATIONS

| | |
|-------------|-----------------------|
| Model | PP66V12 |
| Size | 6 x 6" (150 x 150 mm) |
| Max Flow | 500 m ³ /h |
| Max Head | 28 m |
| Solids Size | 5" (125 mm) |

ENGINE SPECIFICATIONS

| | |
|--|--|
| Engine Type | Perkins 404J-E22TA, Diesel |
| Displacement | 2.2 l |
| Fuel Consumption at BEP | 6.5 l/h @ 1700 rpm |
| Max Running Hours at BEP | 66 h @ 1700 rpm |
| Continuous Power | 74 HP (55 kW) @ 1700 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; 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
- Digital Suction & Discharge Pressure Transducers
- Quick Connect Suction & Discharge Couplings
- Vortex Impeller & Extreme Solids Handling Capability

OPTIONS AND ACCESSORIES

| | |
|-----------------------------------|---|
| Telemetry | Full Control & Remote Monitoring with Alerts |
| Certified Spark Arrestor Trailers | ATEX Approved 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 |

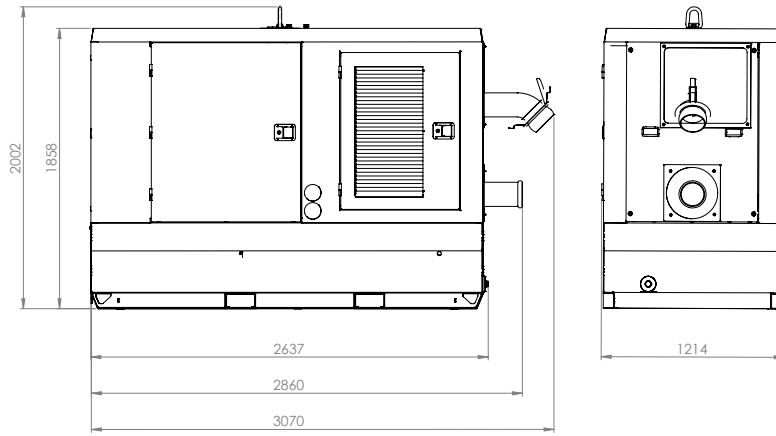
PACKAGE SPECIFICATIONS

| | |
|-------------------------------|--|
| Fuel Tank Capacity | 430 l |
| Control Panel | E400 Auto Stop/Start |
| Operating Speed (Min. / Max.) | 1400 - 1700 rpm |
| Weight (Dry / Wet) | 2005 kg / 2350 kg |
| Dimensions (L x W x H) | 2637 x 1214 x 1858 mm |
| Enclosure dB(A) Rating | 64 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



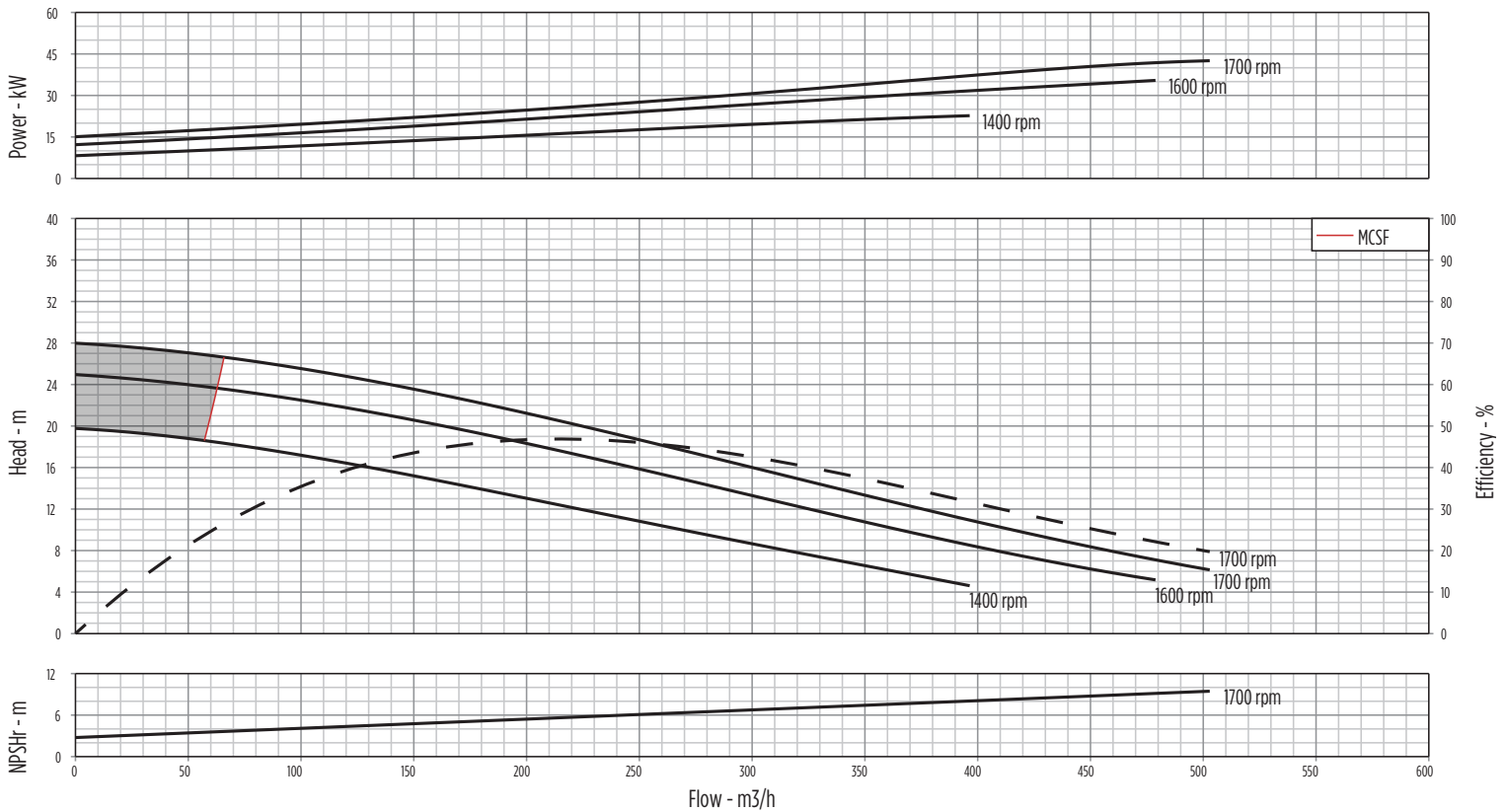
Weight (Dry / Wet): 2005 kg / 2350 kg

PERFORMANCE CURVE

Model: PP66V12

Impeller Diameter: 12"

Solids Size: 5"



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

200VL-EVO



PUMP SPECIFICATIONS

| | |
|-------------|-----------------------|
| Model | PP88V12 |
| Size | 8 x 8" (200 x 200 mm) |
| Max Flow | 565 m ³ /h |
| Max Head | 19 m |
| Solids Size | 4.3" (110 mm) |

ENGINE SPECIFICATIONS

| | |
|--|--|
| Engine Type | Perkins 404J-E22TA, Diesel |
| Displacement | 2.2 l |
| Fuel Consumption at BEP | 7.1 l/h @ 1400 rpm |
| Max Running Hours at BEP | 60 h @ 1400 rpm |
| Continuous Power | 74 HP (55 kW) @ 1400 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; 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
- Digital Suction & Discharge Pressure Transducers
- Quick Connect Suction & Discharge Couplings
- Vortex Impeller & Extreme Solids Handling Capability

OPTIONS AND ACCESSORIES

| | |
|-----------------------------------|---|
| Telemetry | Full Control & Remote Monitoring with Alerts |
| Certified Spark Arrestor Trailers | ATEX Approved 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 |

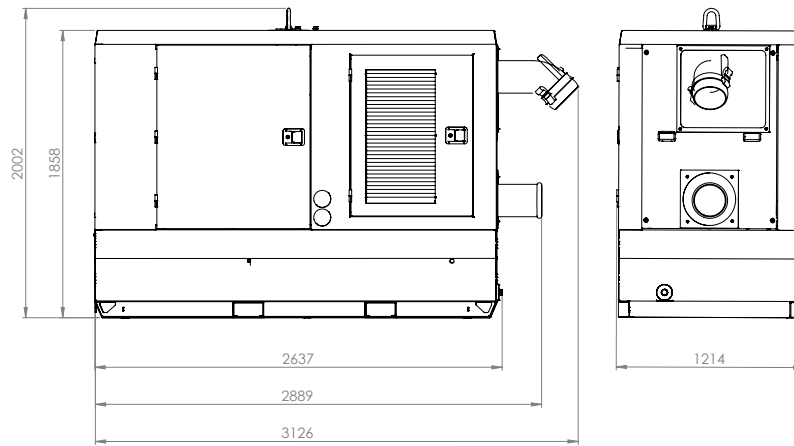
PACKAGE SPECIFICATIONS

| | |
|-------------------------------|--|
| Fuel Tank Capacity | 430 l |
| Control Panel | E400 Auto Stop/Start |
| Operating Speed (Min. / Max.) | 1200 - 1400 rpm |
| Weight (Dry / Wet) | 2150 kg / 2500 kg |
| Dimensions (L x W x H) | 2600 x 1180 x 1860 mm |
| Enclosure dB(A) Rating | 64 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



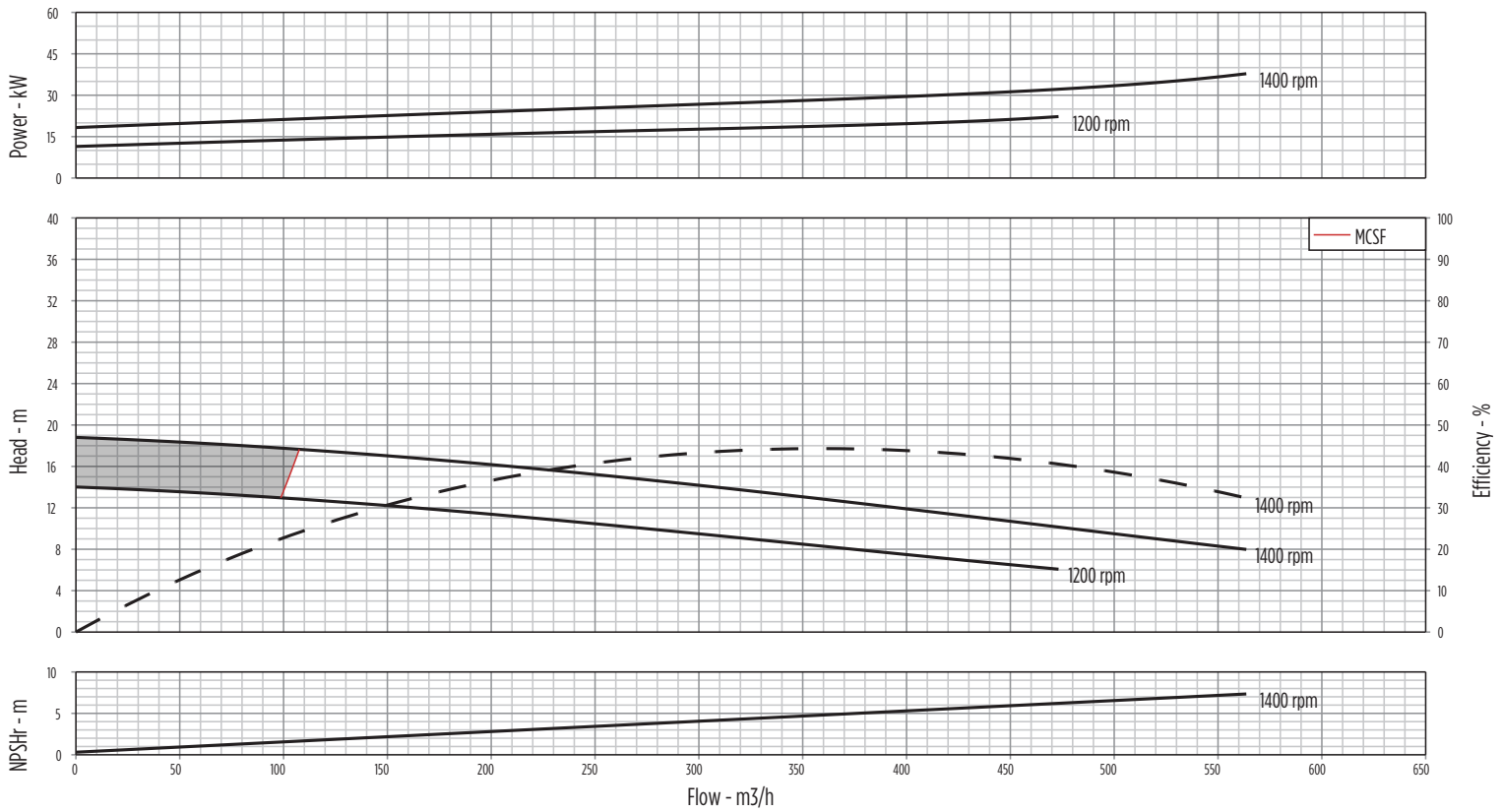
Weight (Dry / Wet): 2150 kg / 2500 kg

PERFORMANCE CURVE

Model: PP88V12

Impeller Diameter: 12"

Solids Size: 4.3"



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

200VM-EVO



PUMP SPECIFICATIONS

| | |
|-------------|-----------------------|
| Model | PP88V12 |
| Size | 8 x 8" (200 x 200 mm) |
| Max Flow | 740 m ³ /h |
| Max Head | 32 m |
| Solids Size | 4.3" (110 mm) |

ENGINE SPECIFICATIONS

| | |
|--|---|
| Engine Type | Perkins 1204J-E44TTA, Diesel |
| Displacement | 4.4 l |
| Fuel Consumption at BEP | 20.5 l/h @ 1800 rpm |
| Max Running Hours at BEP | 34 h @ 1800 rpm |
| Continuous Power | 173 HP (129 kW) @ 2000 rpm |
| Aftertreatment Specifics (DEF, DOC, SCR, etc.) | Diesel Particulate Filter, Diesel Oxidation Catalyst, Selective Catalytic Reduction |
| 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; 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
- Digital Suction & Discharge Pressure Transducers
- Quick Connect Suction & Discharge Couplings
- Vortex Impeller & Extreme Solids Handling Capability

OPTIONS AND ACCESSORIES

| | |
|-----------------------------------|---|
| Telemetry | Full Control & Remote Monitoring with Alerts |
| Certified Spark Arrestor Trailers | ATEX Approved 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 |

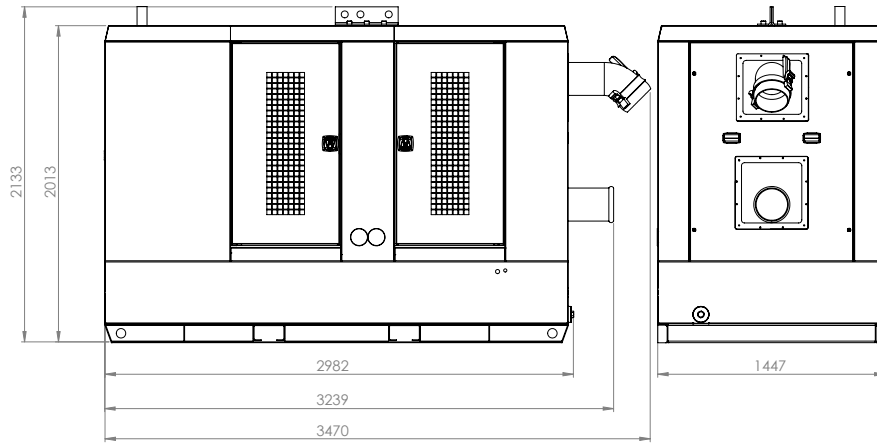
PACKAGE SPECIFICATIONS

| | |
|-------------------------------|--|
| Fuel Tank Capacity | 695 l |
| Control Panel | E400 Auto Stop/Start |
| Operating Speed (Min. / Max.) | 1400 - 1800 rpm |
| Weight (Dry / Wet) | 3020 kg / 3600 kg |
| Dimensions (L x W x H) | 2982 x 1447 x 2103 mm |
| Enclosure dB(A) Rating | 70 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): 3020 kg / 3600 kg

PERFORMANCE CURVE

Model: PP88V12

Impeller Diameter: 12"

Solids Size: 4.3"

