

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

80CL-EVO



PUMP SPECIFICATIONS

Model	PP53C14
Size	5 x 3" (125 x 80 mm)
Max Flow	154 m ³ /h
Max Head	56 m
Solids Size	0.75" (19 mm)

ENGINE SPECIFICATIONS

Engine Type	Perkins 403J-E17T, Diesel
Displacement	1.7 l
Fuel Consumption at BEP	4.6 l/h @ 1600 rpm
Max Running Hours at BEP	43 h @ 1600 rpm
Continuous Power	48 HP (36 kW) @ 1600 rpm
Aftertreatment Specifics (DEF, DOC, SCR, etc.)	Diesel Particulate Filter, Diesel Oxidation Catalyst
Emmission 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

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

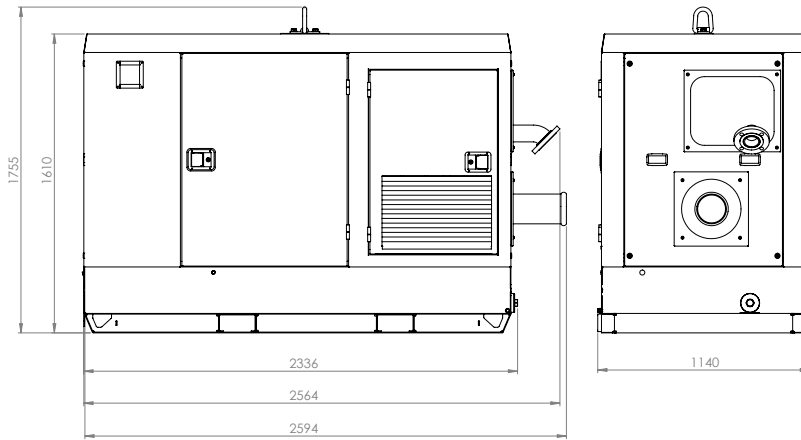
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	200 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1600 rpm
Weight (Dry / Wet)	1420 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



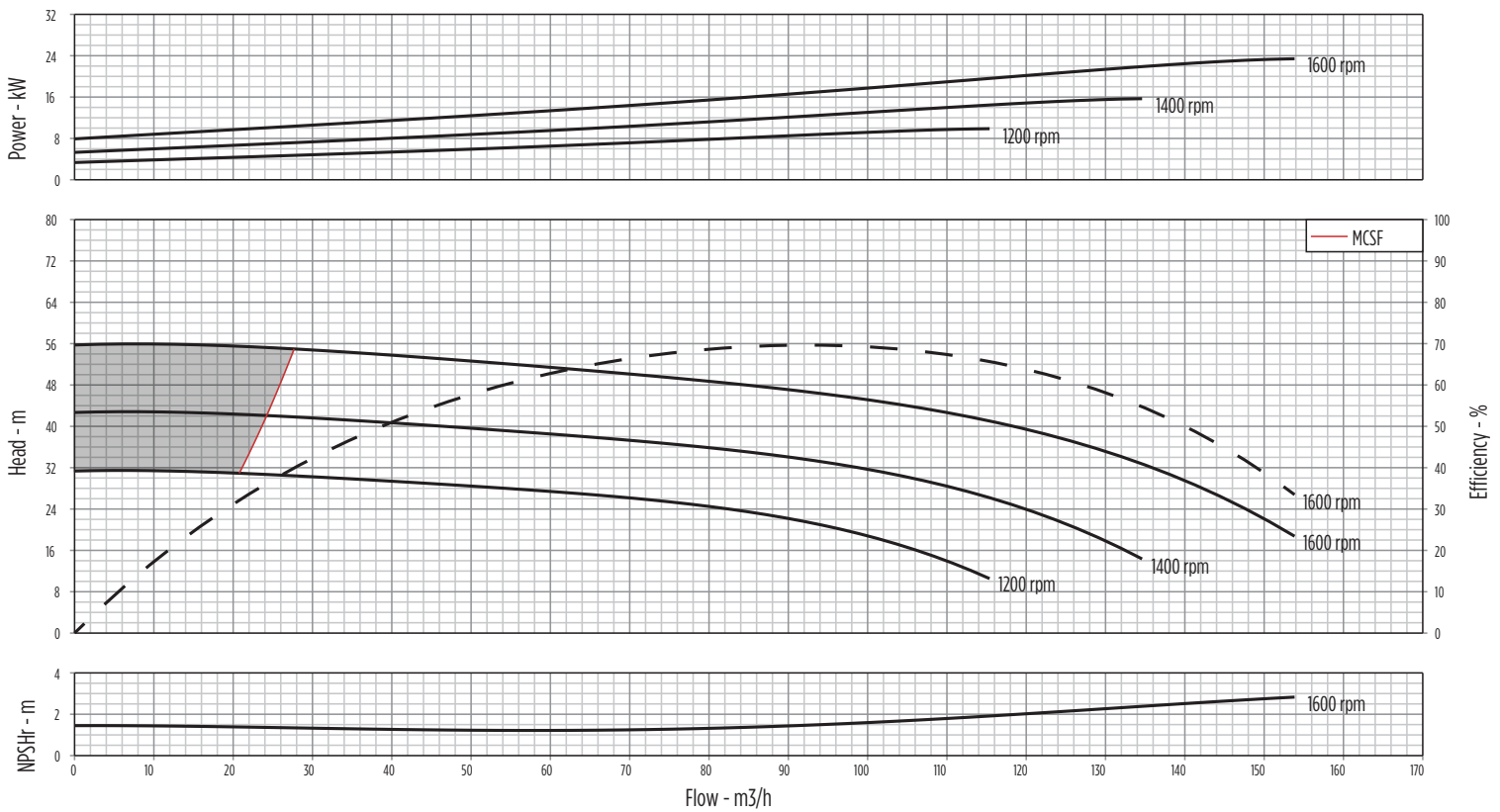
Weight (Dry / Wet): 1420 kg / 1600 kg

PERFORMANCE CURVE

Model: PP53C14

Impeller Diameter: 14"

Solids Size: 0.75"



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

80CM-EVO



PUMP SPECIFICATIONS

Model	PP53C14
Size	5 x 3" (125 x 80 mm)
Max Flow	190 m ³ /h
Max Head	88 m
Solids Size	0.75" (19 mm)

ENGINE SPECIFICATIONS

Engine Type	Perkins 404J-E22TA, Diesel
Displacement	2.2 l
Fuel Consumption at BEP	8.9 l/h @ 2000 rpm
Max Running Hours at BEP	48 h @ 2000 rpm
Continuous Power	74 HP (55 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

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

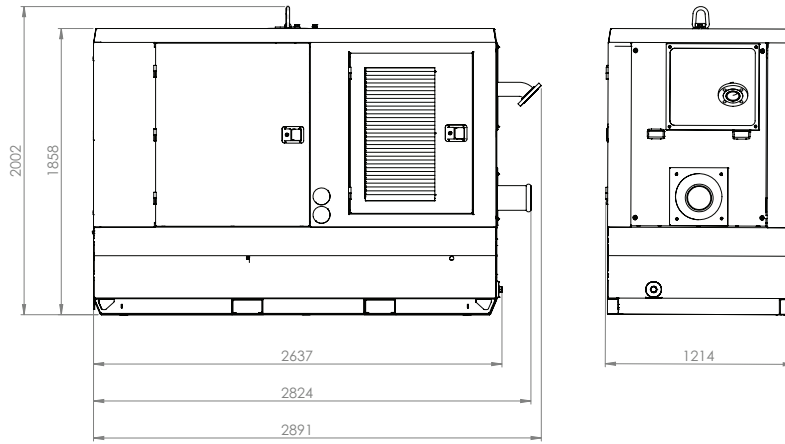
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	430 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 2000 rpm
Weight (Dry / Wet)	2050 kg / 2210 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



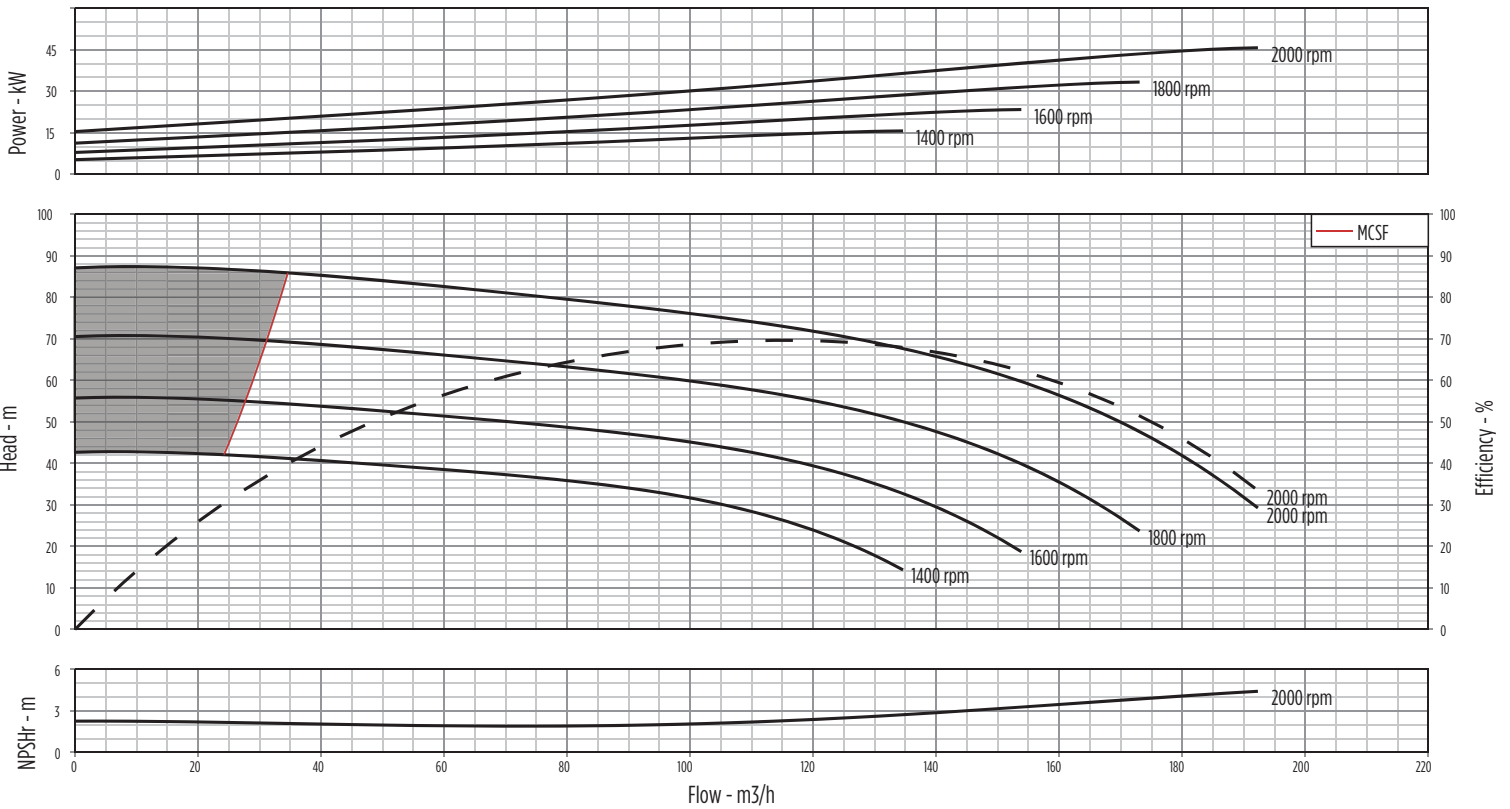
Weight (Dry / Wet): 2050 kg / 2210 kg

PERFORMANCE CURVE

Model: PP53C14

Impeller Diameter: 14"

Solids Size: 0.75"



**Pioneer Prime Vacuum Assisted
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80CH-EVO



PUMP SPECIFICATIONS

Model	PP63C17
Size	6 x 3" (150 x 80 mm)
Max Flow	245 m ³ /h
Max Head	116 m
Solids Size	0.75" (19 mm)

ENGINE SPECIFICATIONS

Engine Type	Perkins 904J-E36TA, Diesel
Displacement	3.6 l
Fuel Consumption at BEP	17.5 l/h @ 1900 rpm
Max Running Hours at BEP	40 h @ 1900 rpm
Continuous Power	121 HP (90 kW) @ 1900 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; 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

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

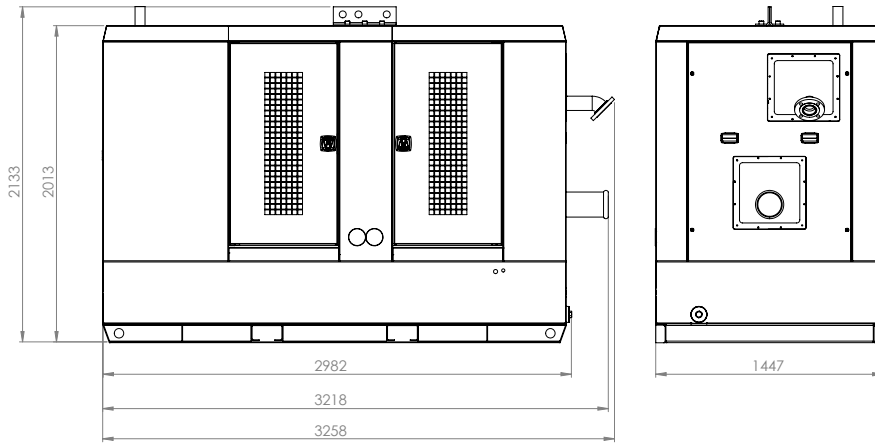
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	695 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1900 rpm
Weight (Dry / Wet)	2555 kg / 3100 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



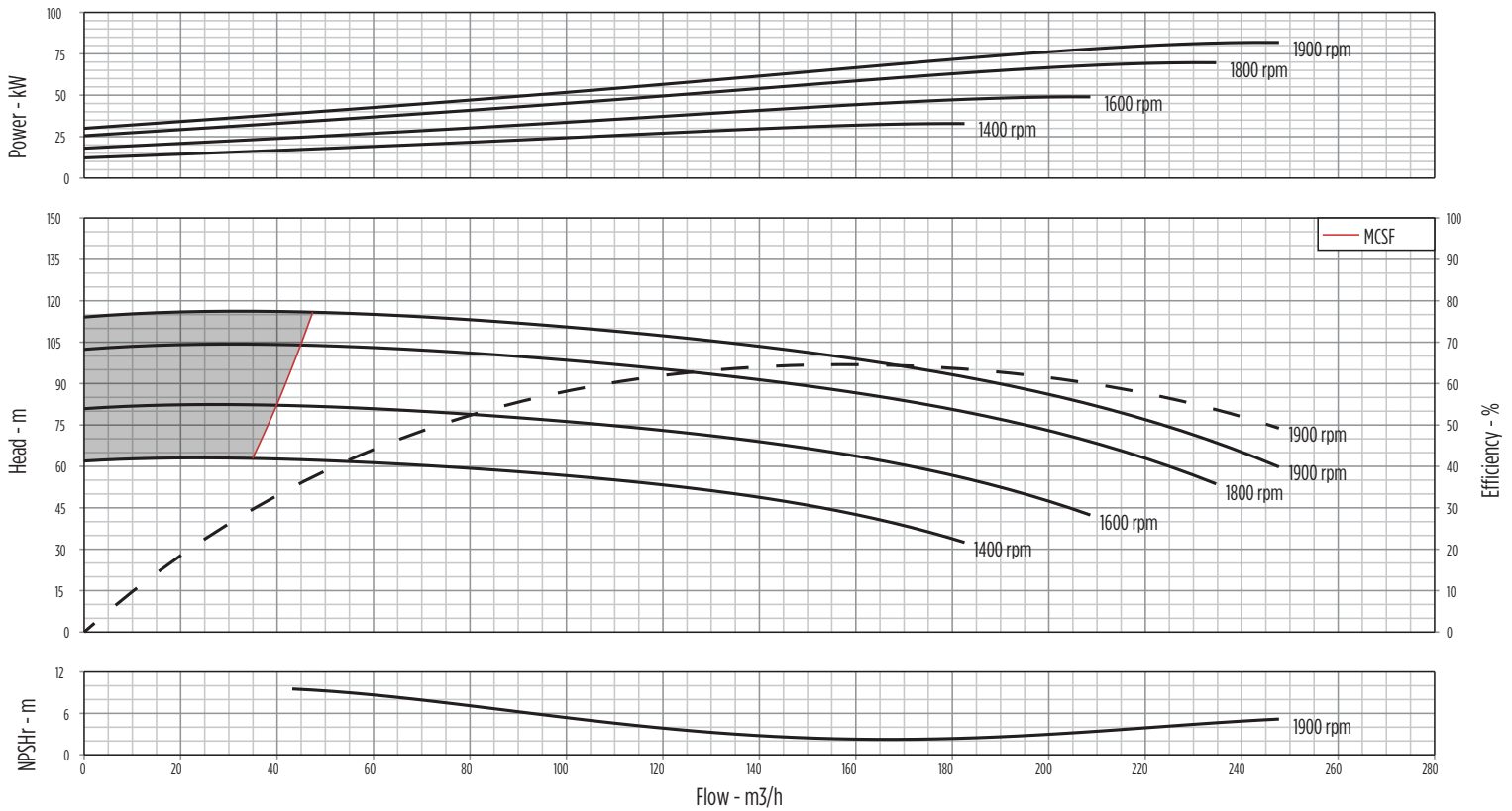
Weight (Dry / Wet): 2555 kg / 3100 kg

PERFORMANCE CURVE

Model: PP63C17

Impeller Diameter: 17"

Solids Size: 0.75"



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

80CX-EVO



PUMP SPECIFICATIONS

Model	PP43C21
Size	4 x 3" (100 x 80 mm)
Max Flow	142 m ³ /h
Max Head	185 m
Solids Size	0.8" (20 mm)

ENGINE SPECIFICATIONS

Engine Type	Perkins 1204J-E44TTA, Diesel
Displacement	4.4 l
Fuel Consumption at BEP	27.5 l/h @ 1900 rpm
Max Running Hours at BEP	25 h @ 1900 rpm
Continuous Power	173 HP (129 kW) @ 1900 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; 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

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

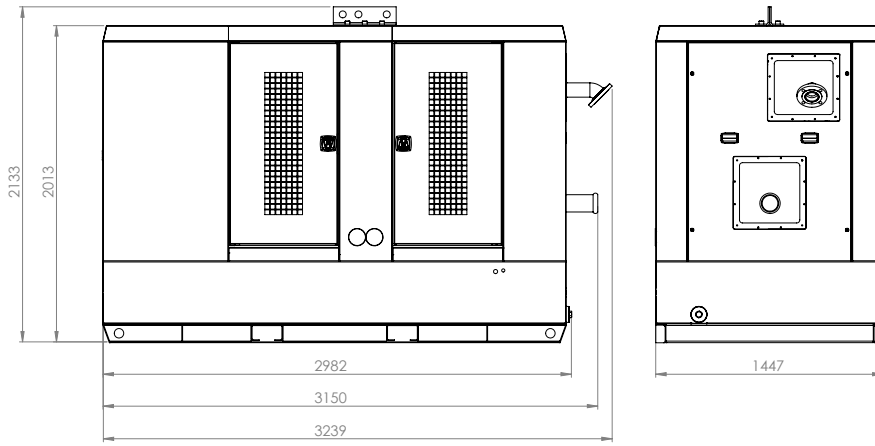
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	695 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1900 rpm
Weight (Dry / Wet)	2950 kg / 3550 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



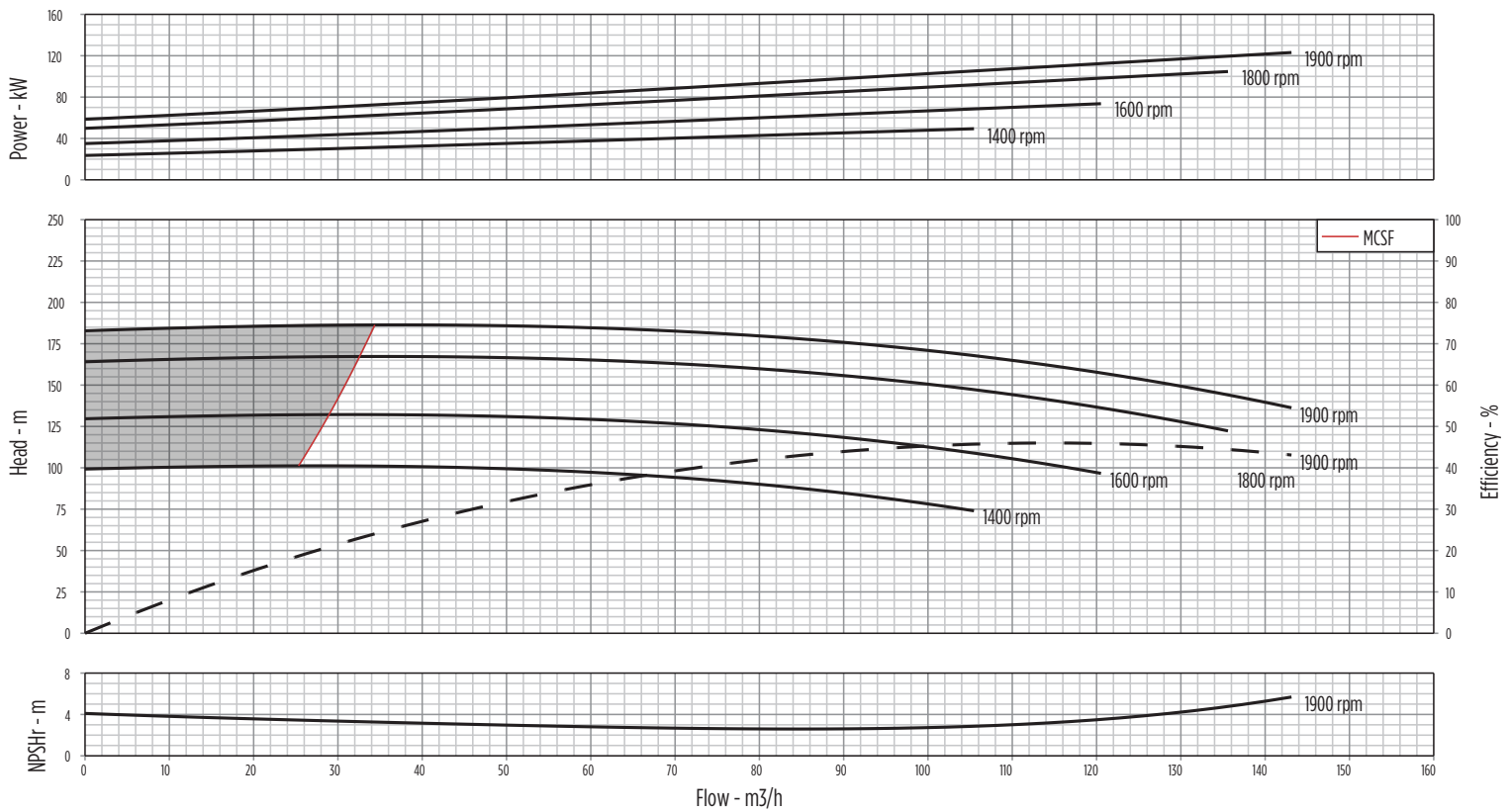
Weight (Dry / Wet): 2950 kg / 3550 kg

PERFORMANCE CURVE

Model: PP43C21

Impeller Diameter: 21"

Solids Size: 0.8"



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

100CH-EVO



PUMP SPECIFICATIONS

Model	PP64C17
Size	6 x 4" (150 x 100 mm)
Max Flow	360 m ³ /h
Max Head	126 m
Solids Size	0.75" (19 mm)

ENGINE SPECIFICATIONS

Engine Type	Perkins 1204J-E44TTA, Diesel
Displacement	4.4 l
Fuel Consumption at BEP	25.1 l/h @ 2000 rpm
Max Running Hours at BEP	28 h @ 2000 rpm
Continuous Power	173 HP (129 kW) @ 2000 rpm
Aftertreatment Specifics (DPF, 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; 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

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

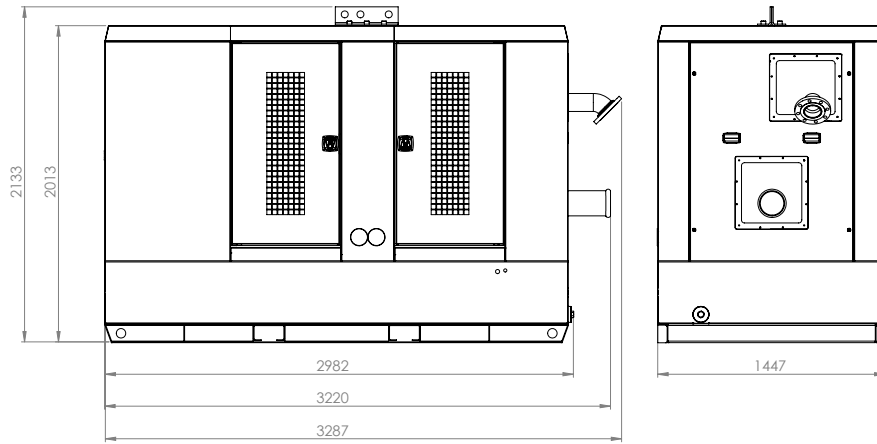
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	695 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 2000 rpm
Weight (Dry / Wet)	2940 kg / 3530 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



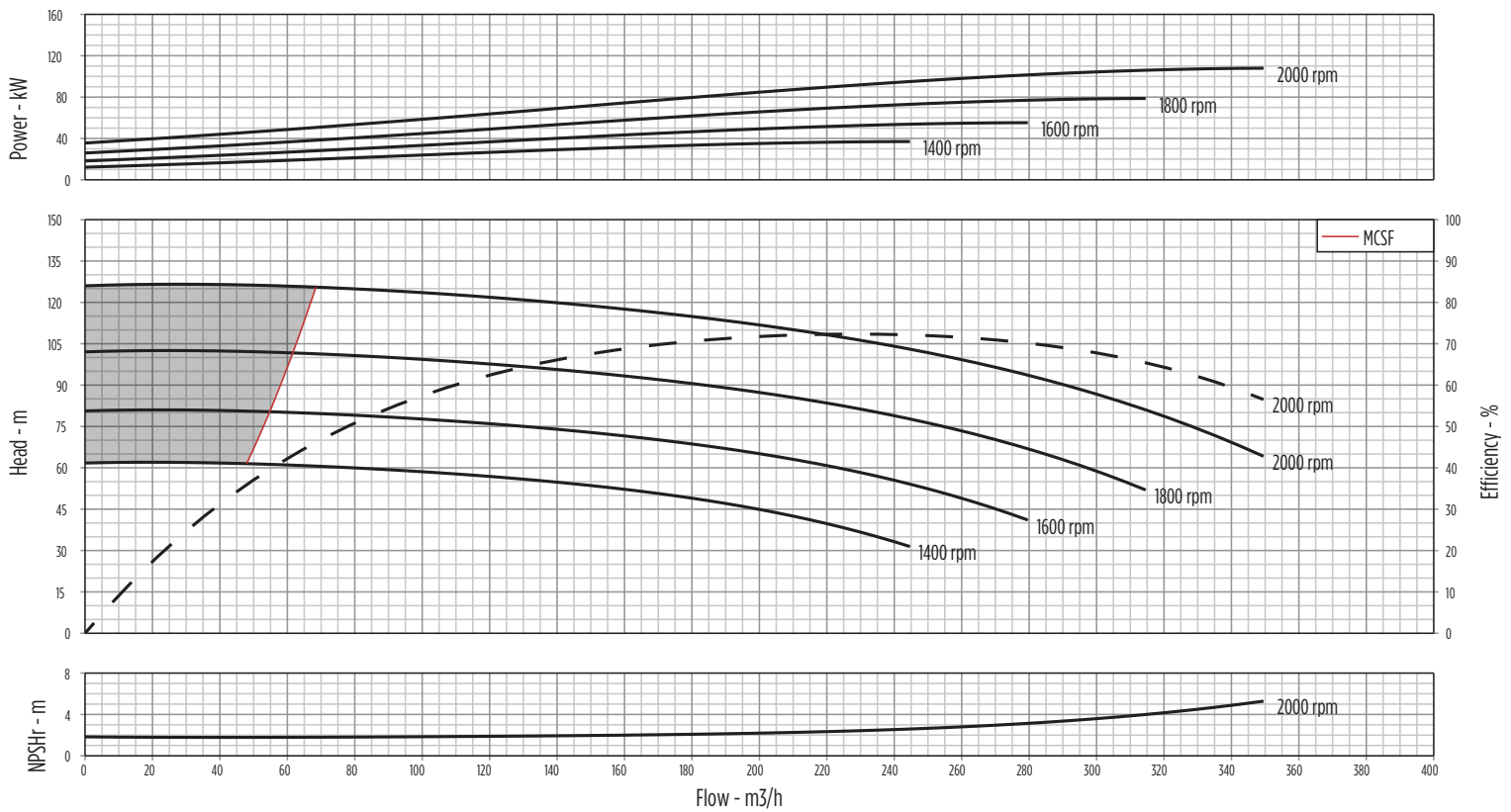
Weight (Dry / Wet): 2940 kg / 3530 kg

PERFORMANCE CURVE

Model: PP64C17

Impeller Diameter: 17"

Solids Size: 0.75"



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

100CX-EVO



PUMP SPECIFICATIONS

Model	PP64C21
Size	6 x 4" (150 x 100 mm)
Max Flow	325 m ³ /h
Max Head	182 m
Solids Size	0.87" (22 mm)

ENGINE SPECIFICATIONS

Engine Type	Scania DC09, Diesel
Displacement	9.3 l
Fuel Consumption at BEP	46.6 l/h @ 1900 rpm
Max Running Hours at BEP	16 h @ 1900 rpm
Continuous Power	311 HP (232 kW) @ 1900 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; 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

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

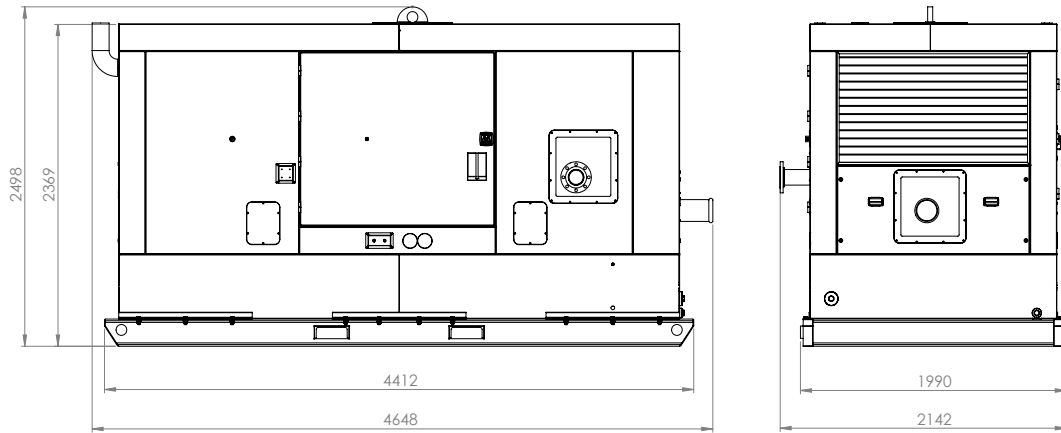
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	765 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1900 rpm
Weight (Dry / Wet)	6325 kg / 6940 kg
Dimensions (L x W x H)	4412 x 1990 x 2369 mm
Enclosure dB(A) Rating	80 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



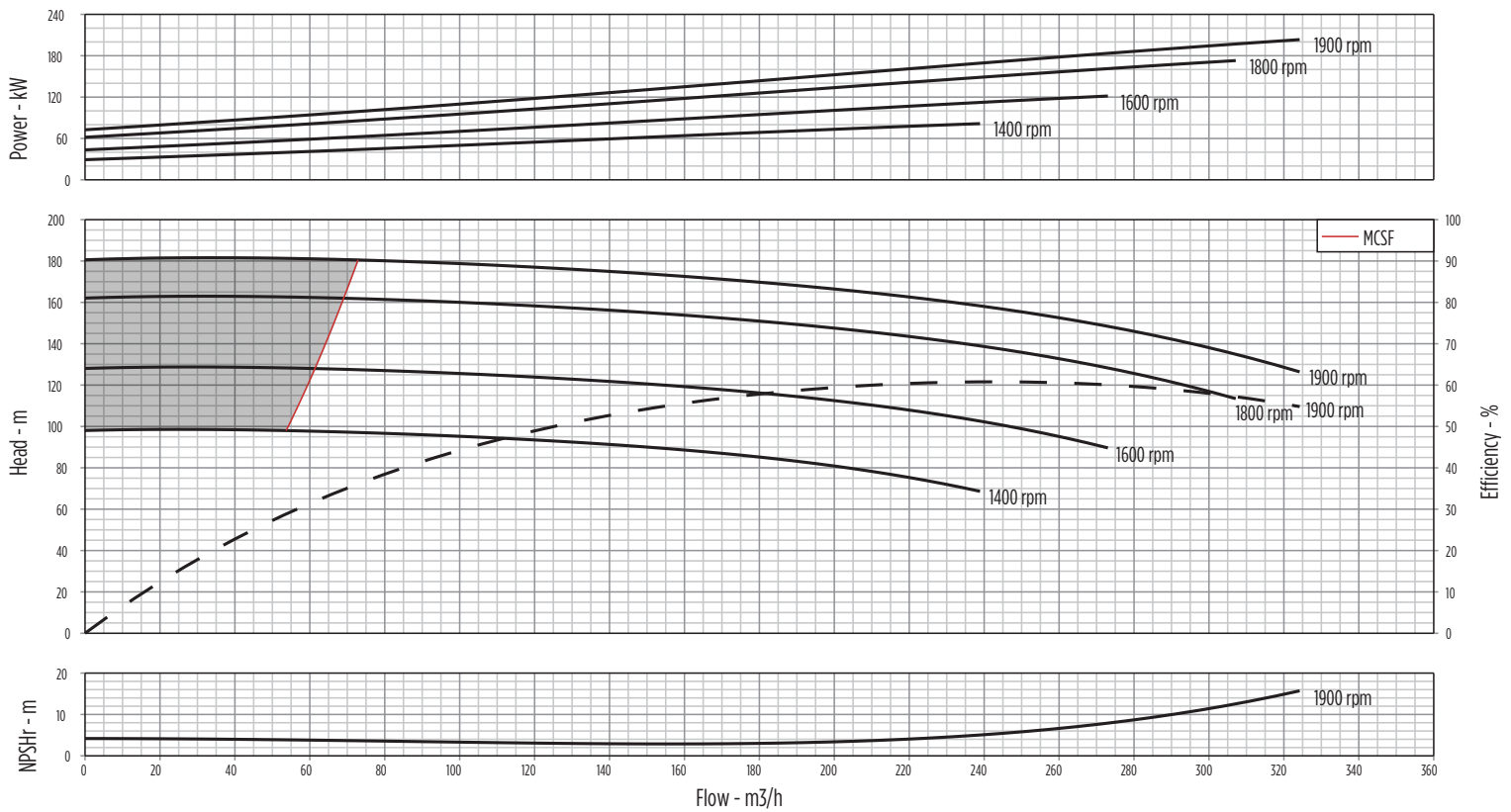
Weight (Dry / Wet): 6325 kg / 6940 kg

PERFORMANCE CURVE

Model: PP64C21

Impeller Diameter: 21"

Solids Size: 0.87"



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

150CM-EVO



PUMP SPECIFICATIONS

Model	PP86C17B
Size	8 x 6" (200 x 150 mm)
Max Flow	570 m ³ /h
Max Head	127 m
Solids Size	1" (25 mm)

ENGINE SPECIFICATIONS

Engine Type	Scania DC09, Diesel
Displacement	9.3 l
Fuel Consumption at BEP	48.1 l/h @ 2000 rpm
Max Running Hours at BEP	16 h @ 2000 rpm
Continuous Power	311 HP (232 kW) @ 2000 rpm
Aftertreatment Specifics (DDF, 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; Swing Flex Nitrile Rubber Flapper
Run Dry System	Oil Reservoir for Mechanical Seal; Indefinite Run-Dry Capability

FEATURES

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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

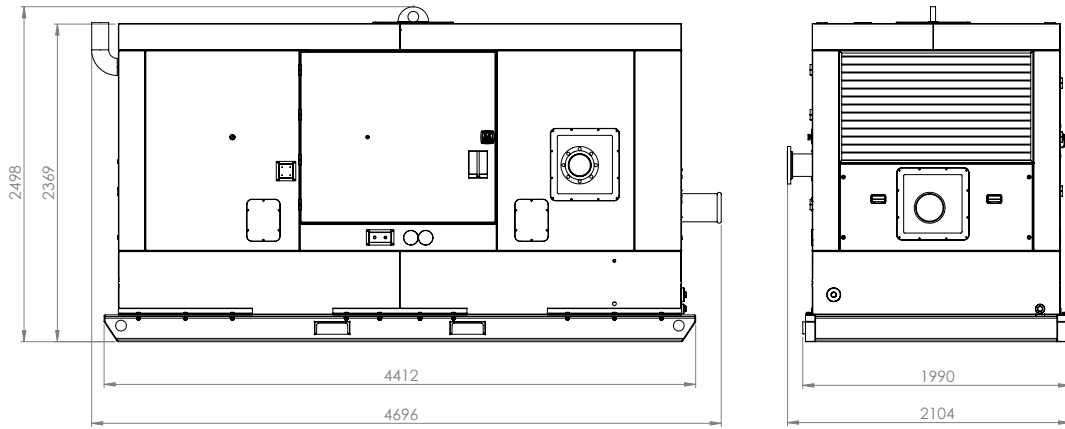
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	765 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 2000 rpm
Weight (Dry / Wet)	6325 kg / 6940 kg
Dimensions (L x W x H)	4412 x 1990 x 2369 mm
Enclosure dB(A) Rating	80 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



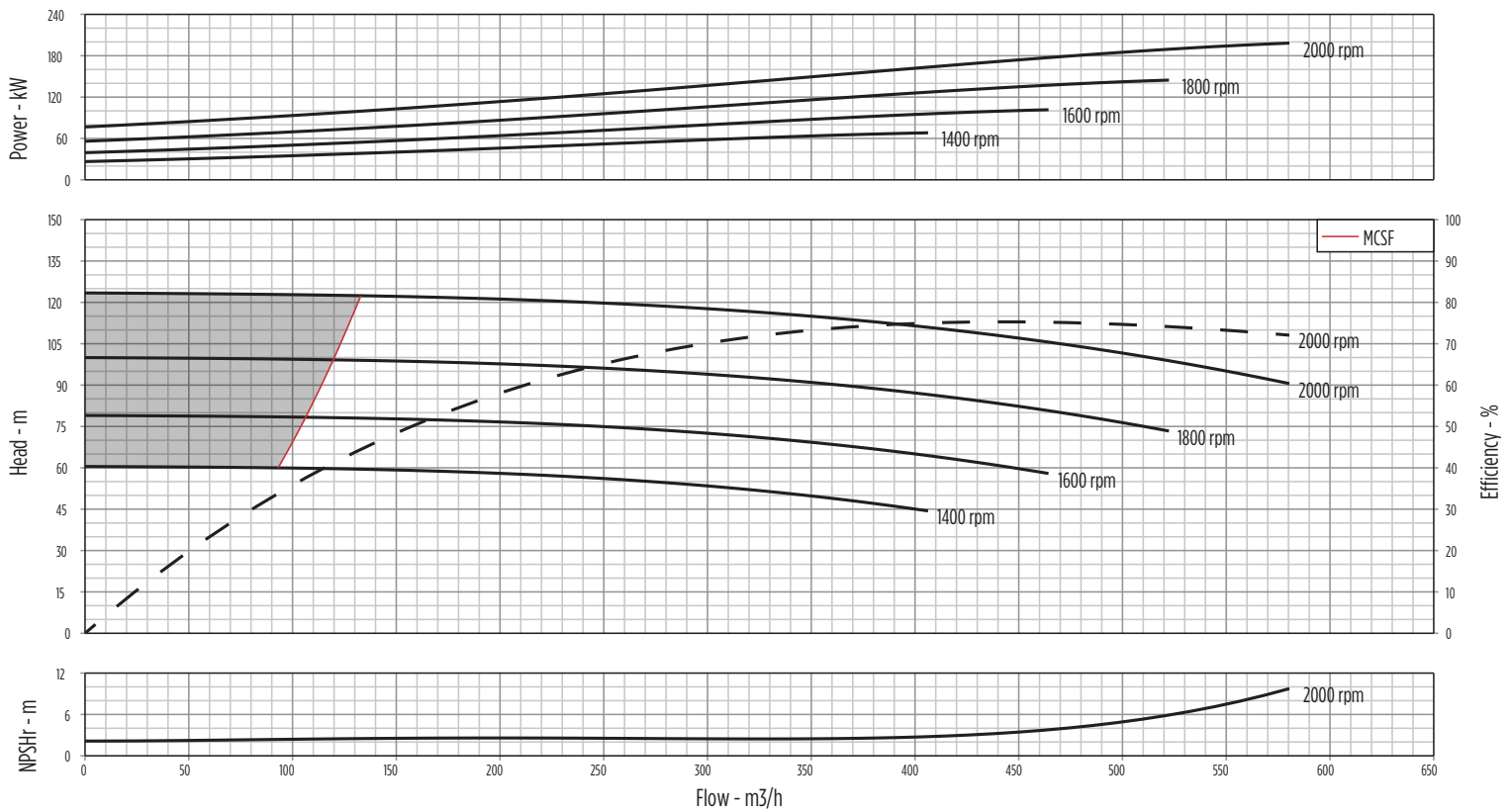
Weight (Dry / Wet): 6325 kg / 6940 kg

PERFORMANCE CURVE

Model: PP86C17B

Impeller Diameter: 17"

Solids Size: 1"



**Pioneer Prime Vacuum Assisted
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150CMC-EVO



PUMP SPECIFICATIONS

Model	PP86C17B
Size	8 x 6" (200 x 150 mm)
Max Flow	460 m ³ /h
Max Head	83 m
Solids Size	1" (25 mm)

ENGINE SPECIFICATIONS

Engine Type	Perkis 1204J-E44TTA, Diesel
Displacement	4.4 l
Fuel Consumption at BEP	25.7 l/h @ 1600 rpm
Max Running Hours at BEP	27 h @ 1600 rpm
Continuous Power	123 HP (129 kW) @ 1600 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; Swing Flex Nitrile Rubber Flapper
Run Dry System	Oil Reservoir for Mechanical Seal; Indefinite Run-Dry Capability

FEATURES

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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

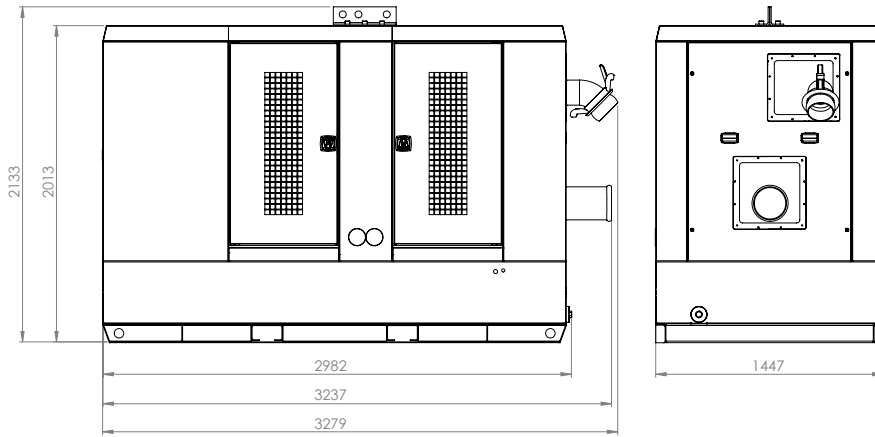
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	695 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1600 rpm
Weight (Dry / Wet)	3050 kg / 3650 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



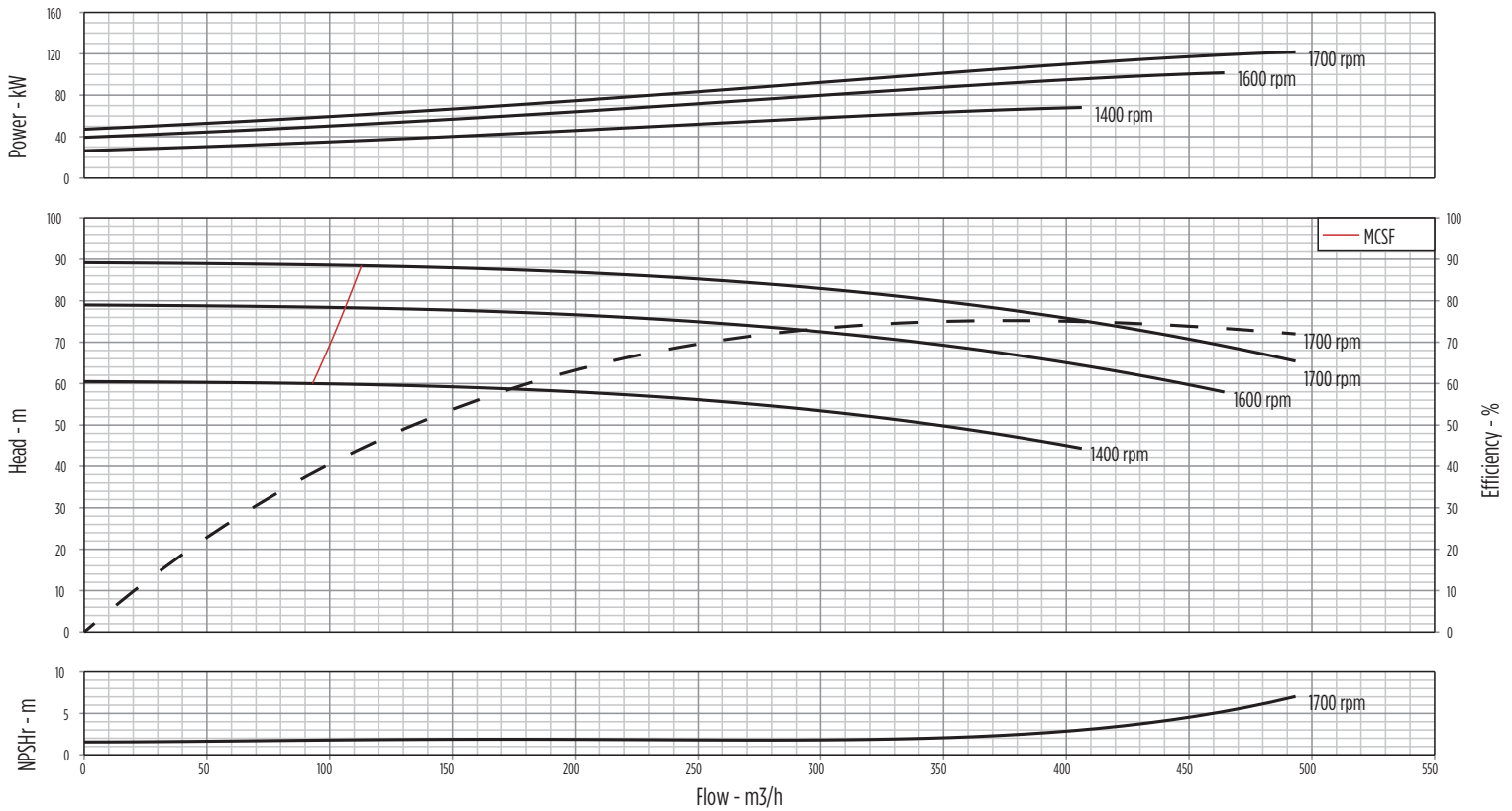
Weight (Dry / Wet): 3050 kg / 3650 kg

PERFORMANCE CURVE

Model: PP86C17B

Impeller Diameter: 17"

Solids Size: 1"



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

150CH-EVO



PUMP SPECIFICATIONS

Model	PP86C17
Size	8 x 6" (200 x 150 mm)
Max Flow	800 m ³ /h
Max Head	110 m
Solids Size	1.5" (38 mm)

ENGINE SPECIFICATIONS

Engine Type	Scania DC09, Diesel
Displacement	9.3 l
Fuel Consumption at BEP	475 l/h @ 1900 rpm
Max Running Hours at BEP	16 h @ 1900 rpm
Continuous Power	311 HP (232 kW) @ 1900 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; 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

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

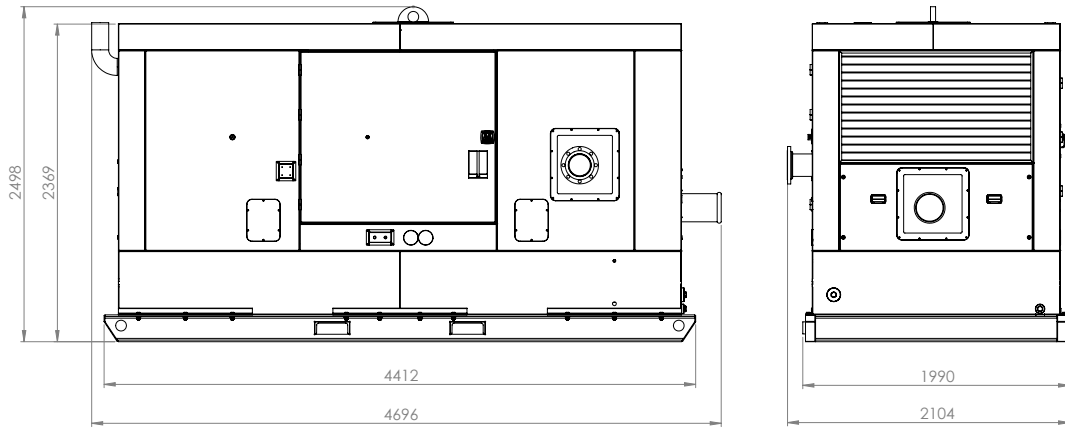
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	765 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1900 rpm
Weight (Dry / Wet)	6325 kg / 6940 kg
Dimensions (L x W x H)	4412 x 1990 x 2369 mm
Enclosure dB(A) Rating	80 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



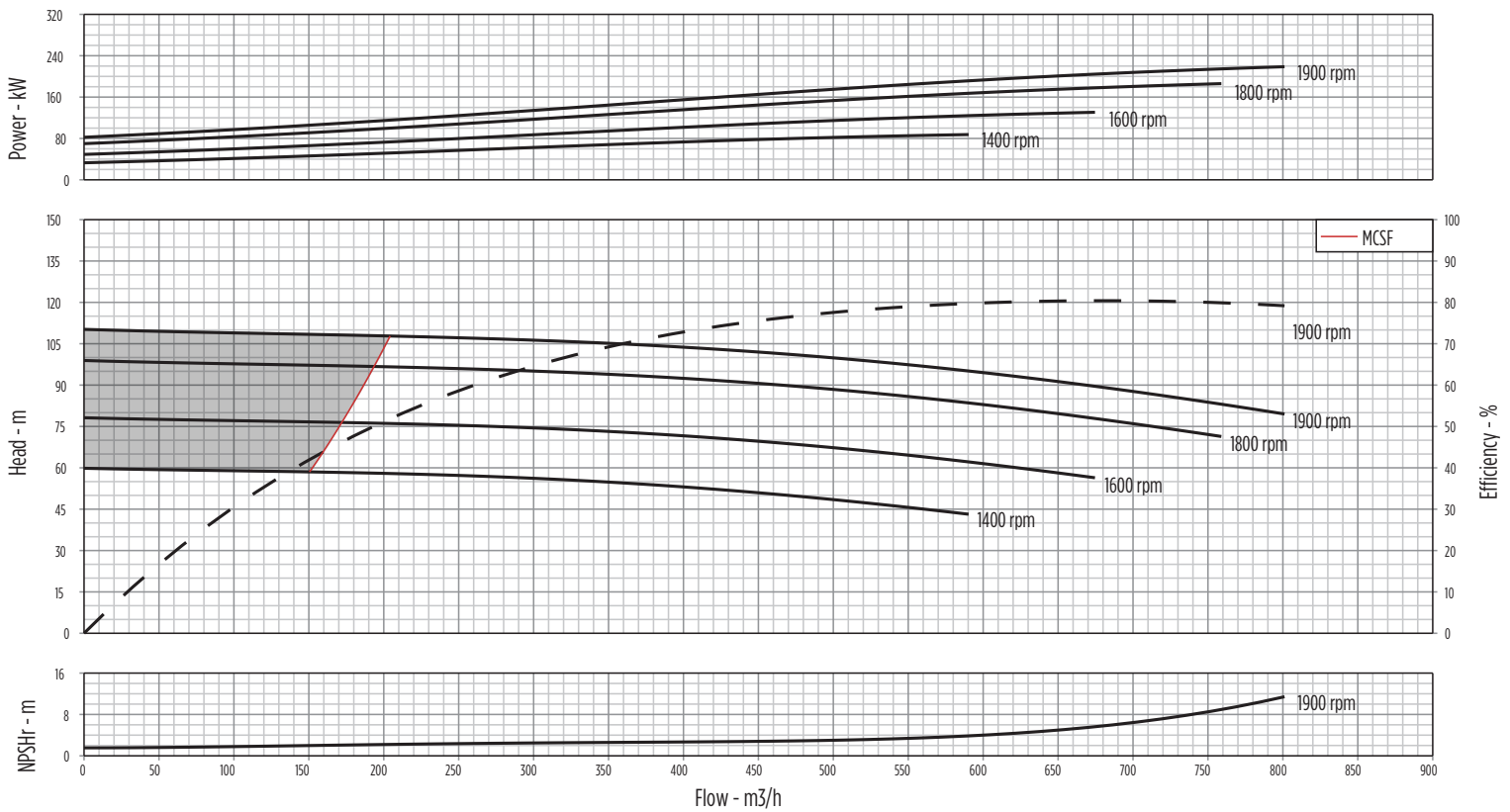
Weight (Dry / Wet): 6325 kg / 6940 kg

PERFORMANCE CURVE

Model: PP86C17

Impeller Diameter: 17"

Solids Size: 1.5"



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

150CX-EVO



PUMP SPECIFICATIONS

Model	PP86C21
Size	8 x 6" (200 x 150 mm)
Max Flow	910 m ³ /h
Max Head	160 m
Solids Size	1.5" (38 mm)

ENGINE SPECIFICATIONS

Engine Type	Scania DC13, Diesel
Displacement	12.7 l
Fuel Consumption at BEP	71 l/h @ 1800 rpm
Max Running Hours at BEP	11 h @ 1800 rpm
Continuous Power	543 HP (405 kW) @ 1800 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; 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

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

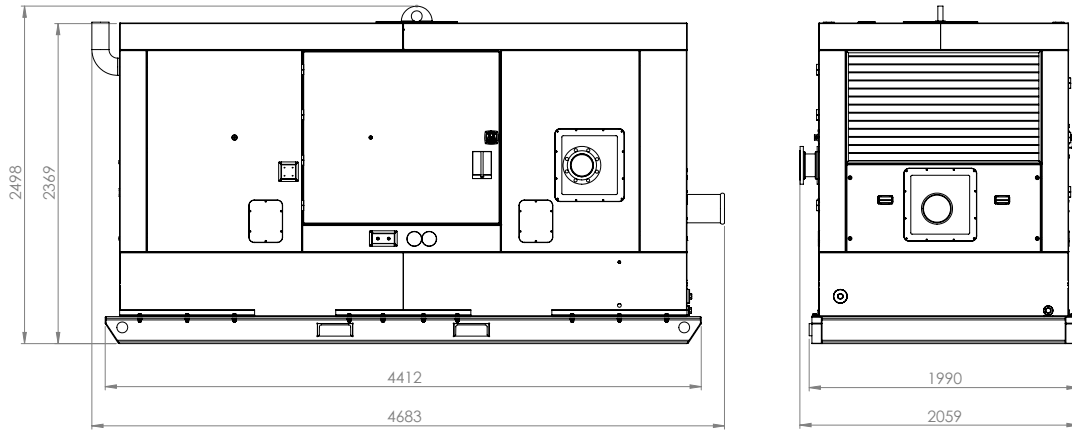
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	765 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1800 rpm
Weight (Dry / Wet)	6765 kg / 7400 kg
Dimensions (L x W x H)	4412 x 1990 x 2369 mm
Enclosure dB(A) Rating	80 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



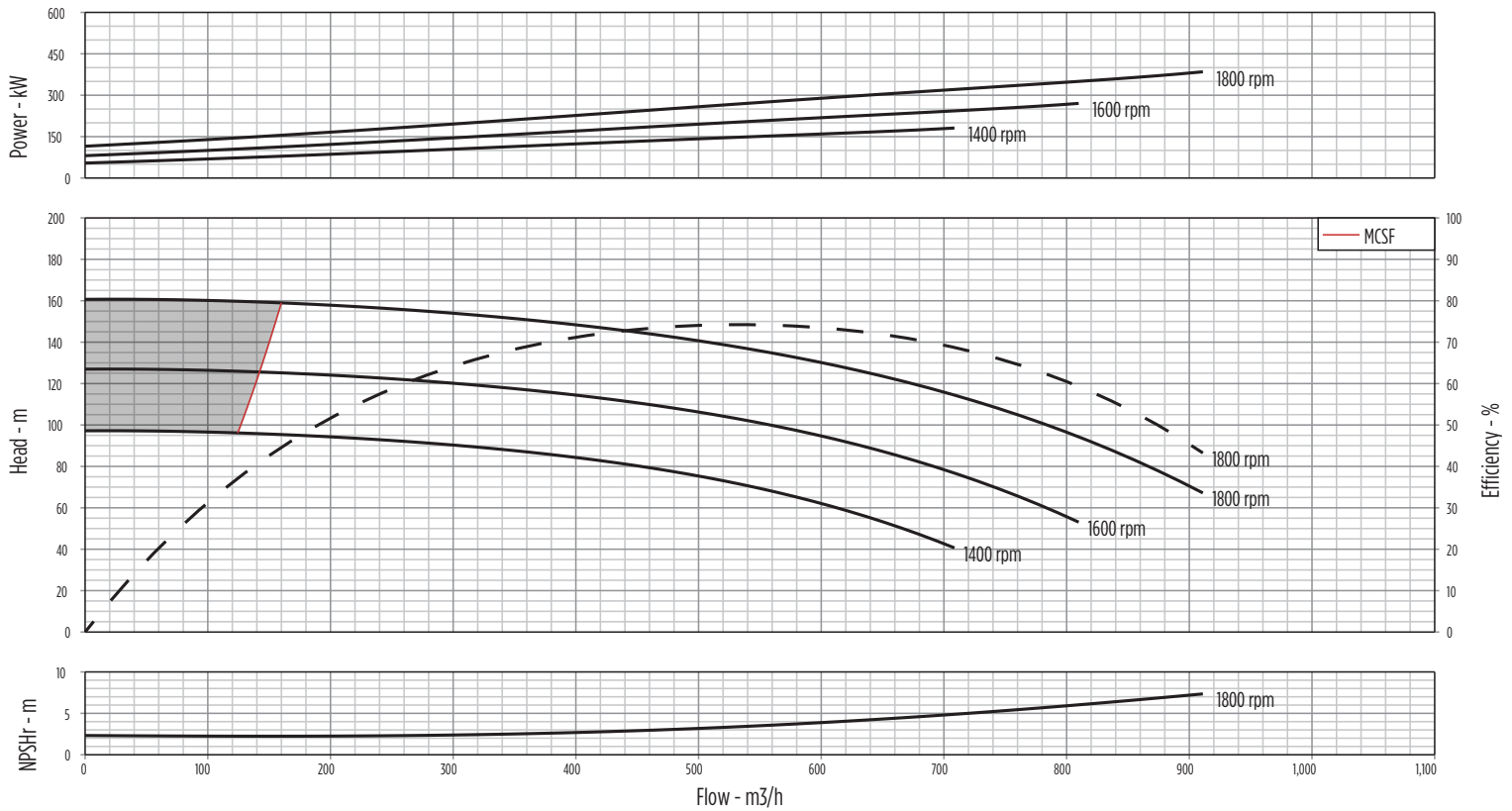
Weight (Dry / Wet): 6765 kg / 7400 kg

PERFORMANCE CURVE

Model: PP86C21

Impeller Diameter: 21"

Solids Size: 1.5"



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

200CH-EVO



PUMP SPECIFICATIONS

Model	PP108C18
Size	10 x 8" (250 x 200 mm)
Max Flow	1300 m ³ /h
Max Head	145 m
Solids Size	1.3" (33 mm)

ENGINE SPECIFICATIONS

Engine Type	Scania DC13, Diesel
Displacement	12.7 l
Fuel Consumption at BEP	98 l/h @ 2000 rpm
Max Running Hours at BEP	8 h @ 2000 rpm
Continuous Power	543 HP (405 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; 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

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

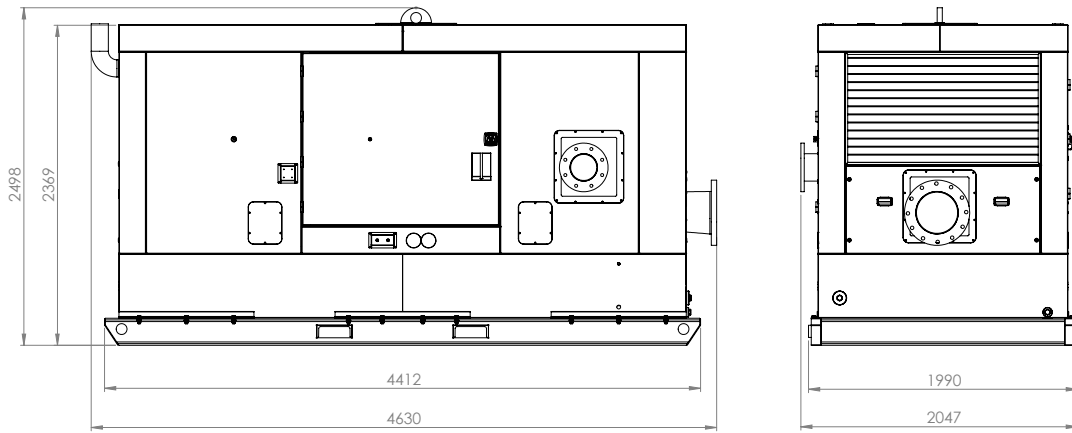
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	765 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 2000 rpm
Weight (Dry / Wet)	6620 kg / 7250 kg
Dimensions (L x W x H)	4412 x 1990 x 2369 mm
Enclosure dB(A) Rating	80 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



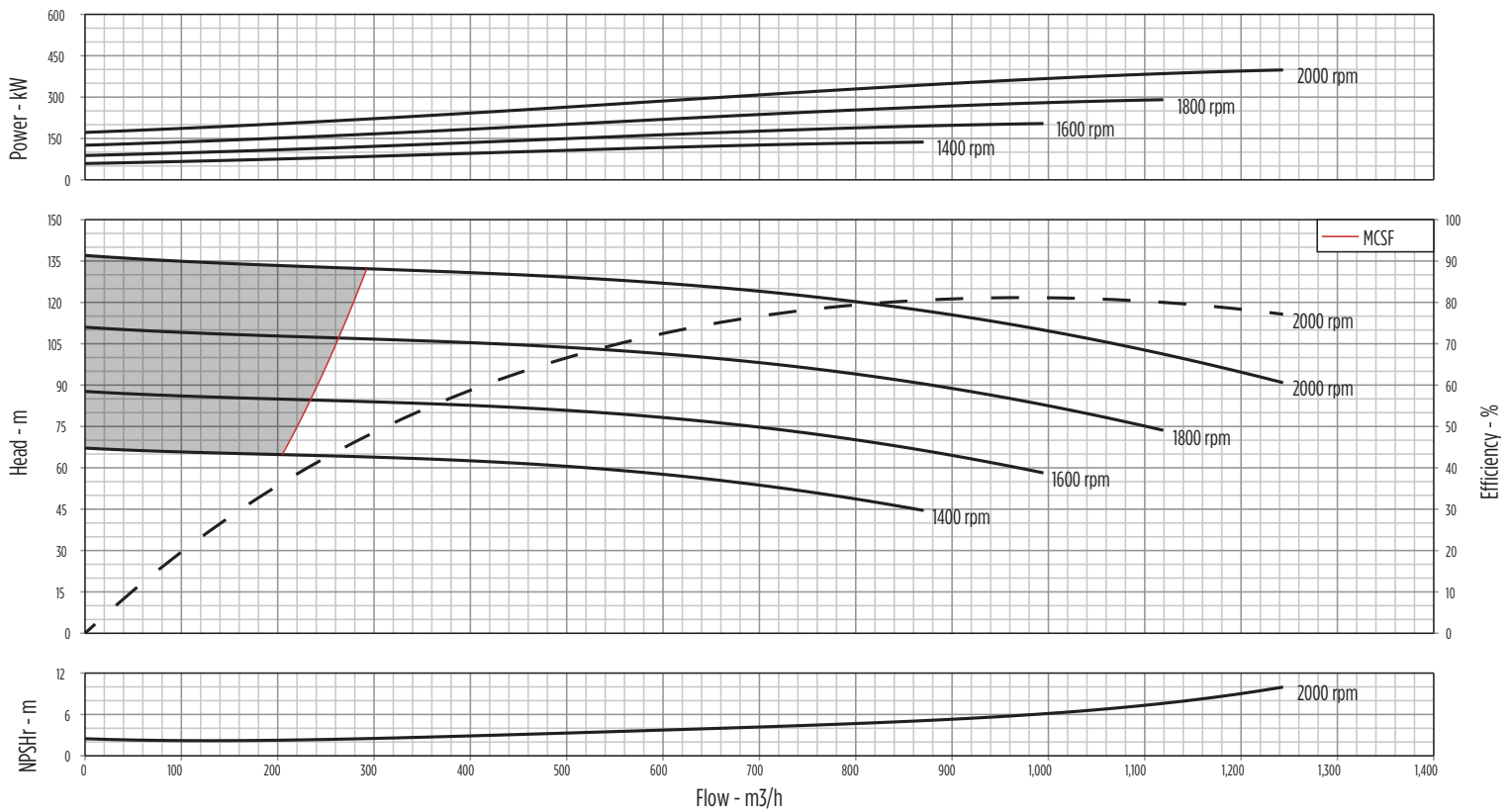
Weight (Dry / Wet): 6600kg / 7250 kg

PERFORMANCE CURVE

Model: PP108C18

Impeller Diameter: 18.25"

Solids Size: 1.3"



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

200CX-EVO



PUMP SPECIFICATIONS

Model	PP108C24
Size	10 x 8" (250 x 200 mm)
Max Flow	910 m ³ /h
Max Head	145 m
Solids Size	1.1" (28 mm)

ENGINE SPECIFICATIONS

Engine Type	Scania DC13, Diesel
Displacement	12.7 l
Fuel Consumption at BEP	69 l/h @ 1500 rpm
Max Running Hours at BEP	11 h @ 1500 rpm
Continuous Power	543 HP (405 kW) @ 1500 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; 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

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

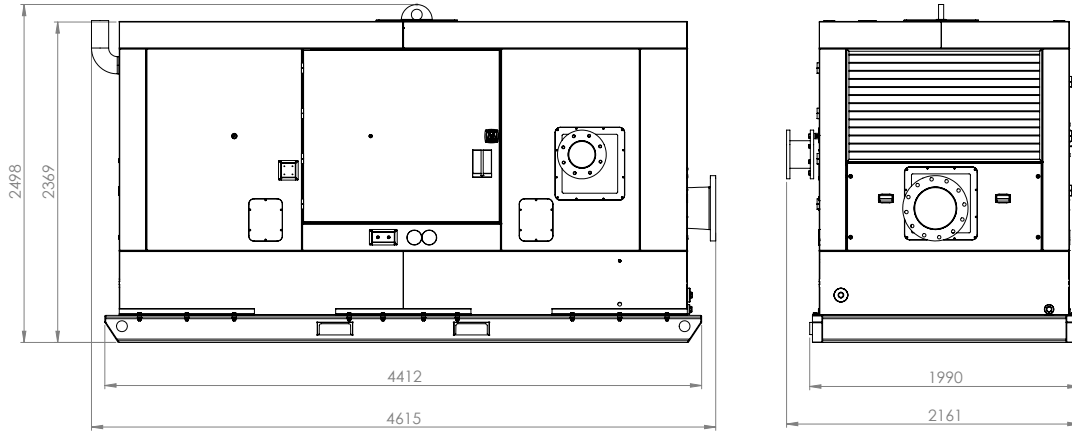
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	765 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1500 rpm
Weight (Dry / Wet)	6900 kg / 7500 kg
Dimensions (L x W x H)	4412 x 1990 x 2369 mm
Enclosure dB(A) Rating	80 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



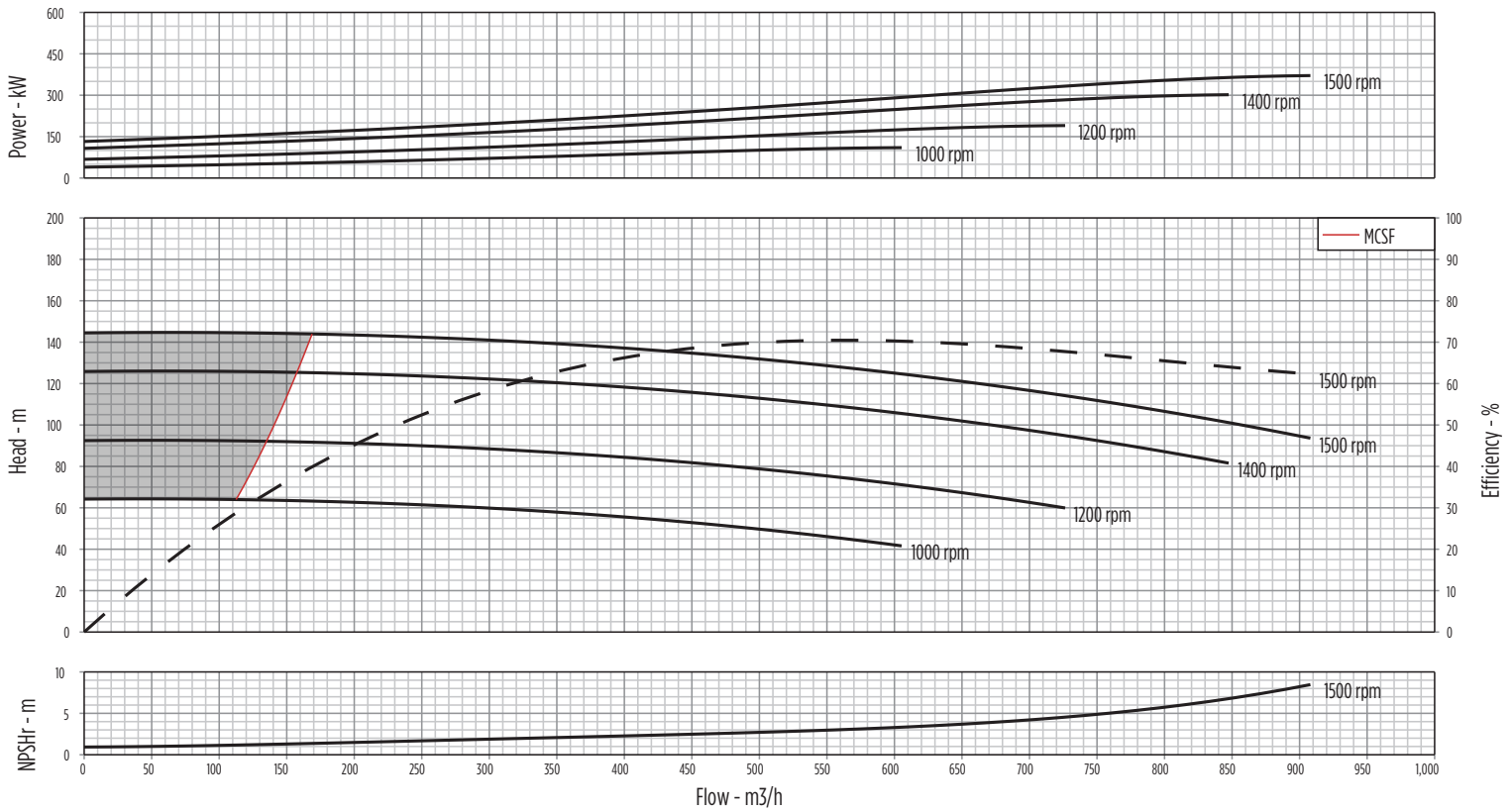
Weight (Dry / Wet): 6900 kg / 7500 kg

PERFORMANCE CURVE

Model: PP108C24

Impeller Diameter: 24"

Solids Size: 1.1"



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

200CXX-EVO



PUMP SPECIFICATIONS

Model	PP108C24
Size	10 x 8" (250 x 200 mm)
Max Flow	1025 m ³ /h
Max Head	185 m
Solids Size	1.1" (28 mm)

ENGINE SPECIFICATIONS

Engine Type	Scania DC16, Diesel
Displacement	16.4 l
Fuel Consumption at BEP	105 l/h @ 1700 rpm
Max Running Hours at BEP	8 h @ 1700 rpm
Continuous Power	759 HP (566 kW) @ 1700 rpm
Aftertreatment Specifics (DEF, DOC, SCR, etc.)	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; 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

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

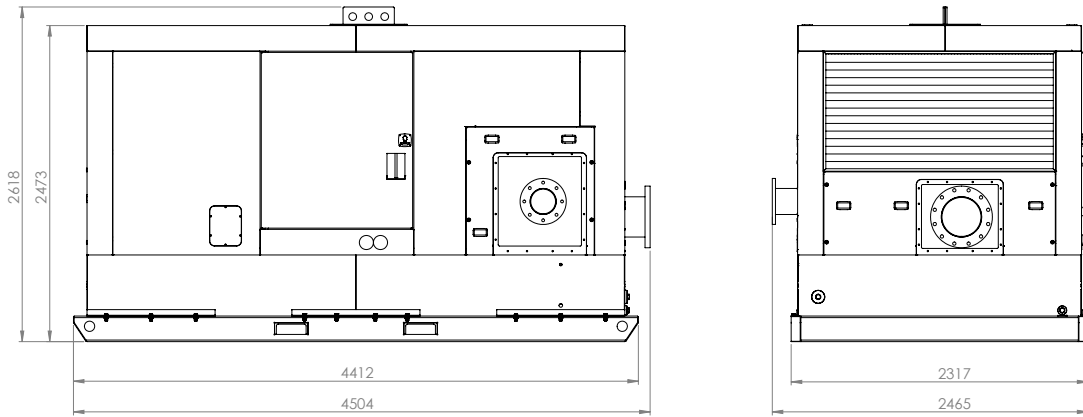
PACKAGE SPECIFICATIONS

Fuel Tank Capacity	830 l
Control Panel	E400 Auto Stop/Start
Operating Speed (Min. / Max.)	1400 - 1600 rpm
Weight (Dry / Wet)	7500 kg / 8165 kg
Dimensions (L x W x H)	4412 x 2317 x 2473 mm
Enclosure dB(A) Rating	85 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): 7500 kg / 8165 kg

PERFORMANCE CURVE

Model: PP108C24

Impeller Diameter: 24"

Solids Size: 1.1"

