

SOUND-ATTENUATED DIESEL-DRIVEN PACKAGES



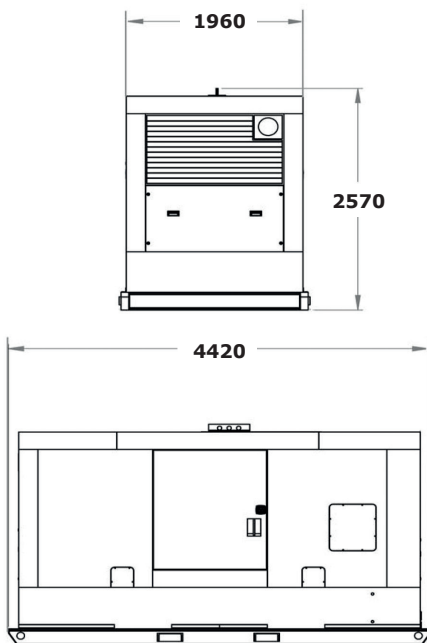
# 150CX

## PUMP MODEL PP86C21 PIONEER PRIME VACUUM ASSISTED DIESEL-DRIVEN PACKAGE SOUND ATTENUATED CANOPY PACKAGE



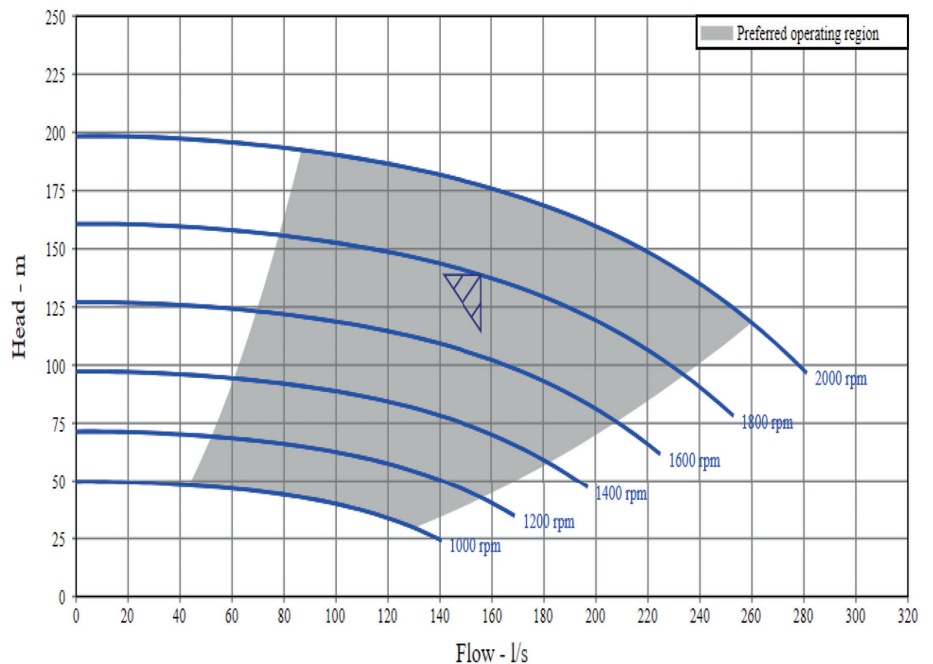
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### MECHANICAL DRAWING



**WEIGHT FULLY FUELED**  
7250 KG

### PERFORMANCE CURVE



**MODEL:** PP86C21  
**IMPELLER DIAMETER:** 533 MM | **SOLIDS SIZE:** 38 mm

## SOUND-ATTENUATED DIESEL-DRIVEN PACKAGES

# PUMP MODEL PP86C21

## PIONEER PRIME VACUUM ASSISTED DIESEL-DRIVEN PACKAGE

### SOUND ATTENUATED CANOPY PACKAGE



#### SPECIFICATIONS

Suction Connection	200 mm
Delivery Connection	150 mm
Max Flow	920 m <sup>3</sup> /h
Max Head	205 m
Solids Size	38 mm
Max Speed	2000 rpm
Rated Power BEP	448 kW
Fuel Tank Size	800 l
Sound Rating	70 dB 7 metres
L x W x H (mm)	4420 x 1960 x 2570

#### 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	Volvo/CAT
Displacement	16 litres
Max Continuous Horsepower	550 kW
Safety Shutdown Switches	Low Oil Pressure, High Temperature, and V-Belt Failure

#### APPLICATIONS

Cooling Pumps	Sewage Bypass	Mine Dewatering	Silt Returns
Flood Pumps	Flushing		

#### 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

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