

PORTABLE SCREW COMPRESSOR

PDSF750S



**HIGH PRESSURE:150PSIG
FAD:750CFM**

Main Improvements:

◆ **Highly Recognized Screw Compressor**

Screw rotor profile developed by AIRMAN own technology(patented in eight countries as well as in Japan) has enabled us to make such high pressure screw compressor.

◆ **Clean Engine Mounted**

On the compressor is mounted such engine which emits less NOx exhaust gas and also is tender to the earth enviroment.

◆ **Easy Starting in Cold Weather**

This compressor is superior in cold weather starting.

◆ **Meters with Luminous Lights**

Meters on operation panel are equipped with luminous light.

◆ **Reliable Warning Signal**

Warning signals have luminiscent diode and so become more reliable.

◆ **Double Element Air Cleaner**

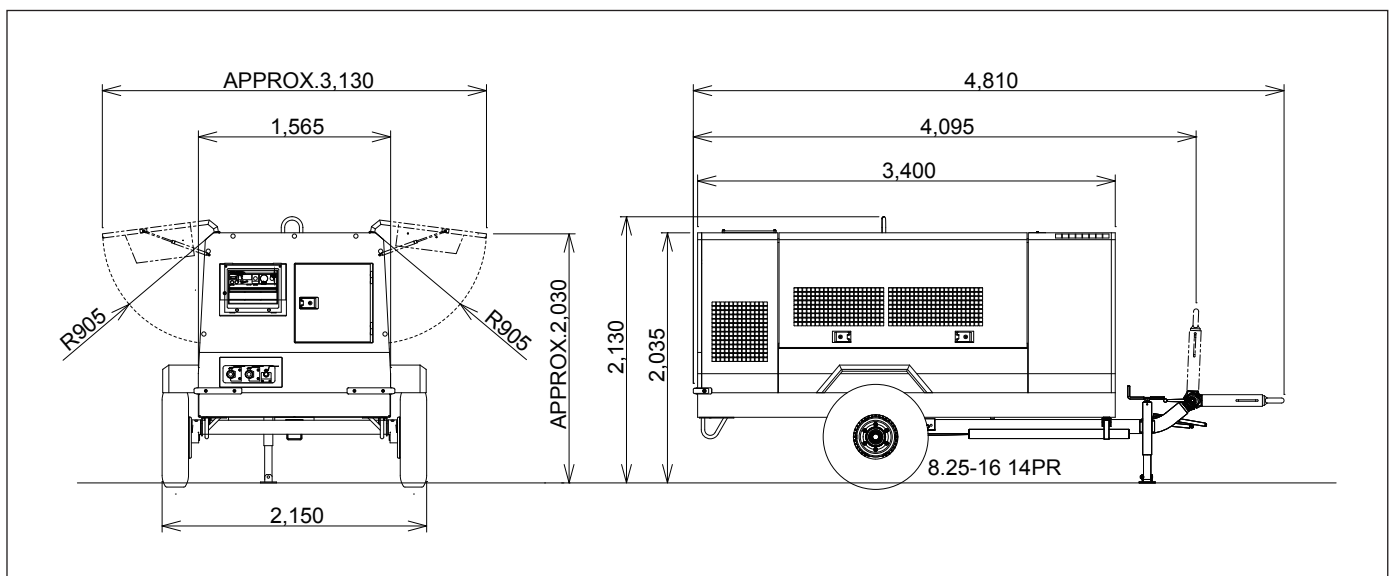
Double element air cleaner prevents dust from entering when replacing element.

◆ **Easy Cleaning of Cooling System**

This compressor is so designed that the interiors of radiator and oil cooler and also intercooler can be easily and quickly cleaned.

◆ **Check Valve in Service Air Line**

As a check valve is built-in service air line, it enables parallel operation.



SPECIFICATIONS PDSF750S-4B3

COMPRESSOR

| | |
|--------------------|--|
| Type | Rotary twin screw, single stage, oil-cooled |
| Free air delivery | 21.2 m ³ /min(750 cfm) |
| Working pressure | 1.03 MPa(10.5 kgf/cm ² G)(150 psi) |
| Unloader | Suction port closing in connection with stepless speed regulator |
| Lubrication system | Forced lubrication by compression pressure |
| Driving system | Direct coupling with rubber |
| Oil cooling | Air-cooled |
| Air cleaner | Dry paper filter type |

DIESEL ENGINE

| | |
|---|---|
| Model | Isuzu 6HK1X |
| Type | Water-cooled, 4-cycle, Direct-Injection, Turbo-Charged, Intercooler type |
| No. of cylinders | 6 |
| Cyl. bore X stroke | 115 mm x 125 mm |
| Total displacement | 7.79 liters |
| Compression ratio | 17.3 : 1 |
| Rated output | 182.1 kW/2,000 min ⁻¹ (247.6 PS/2,000 rpm) |
| Max. torque | 867.9 N·m/approx. 1,700 min ⁻¹ (88.5 kgf·m/approx. 1,700 rpm) |
| Injection pump | Bosch Inline type |
| Governor | Centrifugal, all-speed |
| Alternator | AC 24 V, 50 A |
| Starting motor | DC 24 V, 5.0 kW |
| Battery | 155G51 x 2 pcs. |
| Air cleaner | Dry type |
| Fuel tank capacity | 300 liters |
| Engine oil capacity(including oil cooler) | 44 liters |
| Coolant capacity(including engine radiator) | 31 liters |
| Compressor oil capacity(including receiver tank & oil cooler) | 68 liters |

OIL SEPARATOR-RECEIVER TANK

| | |
|-------------------------|--------------------------------------|
| Type | Vertical, cylindrical, full-welded |
| Shell dia. | φ462 mm |
| Shell length | 904 mm |
| Capacity | 0.155 m ³ |
| Max. working pressure | 1.35 MPa(13.8 kgf/cm ² G) |
| Hydraulic test pressure | 1.76 MPa(17.9 kgf/cm ² G) |
| Air outlet valve | 50 A x 2 pcs, 20 A x 1 pc |

INSTRUMENTS & GAUGES

EMERGENCY STOP DEVICES

Engine oil pressure switch, Delivery air temperature switch, Engine coolant temperature switch, Engine speed down switch, Disconnected of delivery air temperature sensor, Disconnected of engine coolant temperature sensor, Disconnected of discharge air temperature sensor, Discharge air temperature at separator, Low fuel

WARNING LAMP

For engine coolant temperature rise, For delivery air temperature rise, For compressor filter clogging, For engine air filter clogging, For battery charging, Residual pressure lamp

OPERATING LAMP

Glow lamp, Charge lamp

GAUGES

Pressure gauge, Fuel gauge

MONITOR INDICATOR

Delivery air temperature, Engine coolant temperature, Engine speed, Hour meter

OPERATING SWITCH

Starter switch, Monitor change switch, Error code indication switch

WEIGHT

| | |
|------------------|-----------|
| Dry weight | 3,210 kgs |
| Operating weight | 3,570 kgs |

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SAFETY

- Operate safely in accordance with proper operation manual.
- To prevent trouble and accidents, perform daily and preventive maintenance checks without fail.



ISO9001 : JQA-0581
ISO14001 : JQA-EM4670