

AIRMAN®

PORTABLE
SCREW COMPRESSOR
PDSF830S



HIGH PRESSURE:150PSIG
FAD:830CFM

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.

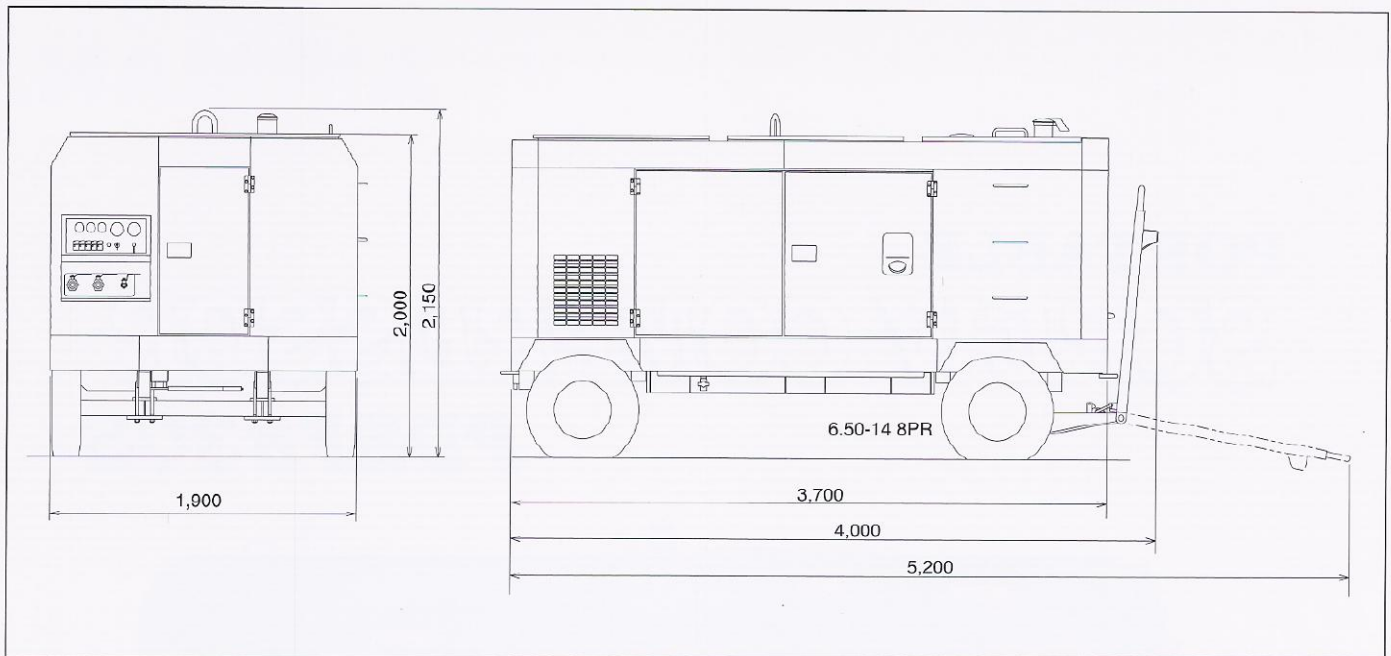
◆ **Easy Cleaning of Cooling System**

This compressor is so designed that the interiors of radiator and oil cooler and also fuel tank 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.

HOKUETSU INDUSTRIES CO., LTD.



SPECIFICATIONS PDSF830S-4B1

COMPRESSOR

Type	Rotary twin screw, single stage, oil-cooled
Free air delivery	23.5 m ³ /min(830 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	Mitsubishi 6D24-TE1
Type	Water-cooled, 4-cycle, Direct-Injection, Turbo-Charged type
No. of cylinders	6
Cyl. bore X stroke	130 mm x 150 mm
Total displacement	11.94 liters
Compression ratio	16.5 : 1
Rated output	206 kW/2,200 min ⁻¹ (280 PS/2,200 rpm)
Max. torque	1,075 N·m/approx. 1,500 min ⁻¹ (110 kgf·m/approx. 1,500 rpm)
Injection pump	Bosch type
Governor	Centrifugal, all-speed
Alternator	AC 24 V, 35 A
Starting motor	DC 24 V, 7.0 kW
Battery	155G51 x 2 pcs.
Air cleaner	Dry type
Fuel tank capacity	400 liters
Engine oil capacity(including oil cooler)	54 liters
Coolant capacity(including engine radiator)	45 liters
Compressor oil capacity(including receiver tank & oil cooler)	105 liters

OIL SEPARATOR-RECEIVER TANK

Type	Vertical, cylindrical, full-welded
Shell dia.	φ600 mm
Shell length	739 mm
Capacity	0.248 m ³
Max. working pressure	1.27 MPa(13 kgf/cm ² G)
Hydraulic test pressure	1.91 MPa(19.5 kgf/cm ² G)
Air outlet valve	50 A x 2 pcs, 20 A x 1 pc

INSTRUMENTS & GAUGES

EMERGENCY STOP DEVICES

- Oil pressure switch
- Engine coolant temperature switch
- Discharge air temperature switch
- Comp. oil temperature switch
- Engine speed down switch

GAUGES

- | | |
|---------------------------|----------------------------|
| Pressure gauge | Tachometer with hourmeter |
| Discharge air temp. gauge | Engine coolant temp. gauge |
| Fuel gauge | Starter switch |
| Stop button | Starting unloader valve |
| Glow lamp | |

WARNING LAMP

- For engine oil pressure drop
- For engine coolant temperature rise
- For discharge air temperature rise
- For battery charging
- For engine air filter clogging
- For comp. oil filter clogging
- For engine speed down
- For comp. air filter clogging
- For separator clogging

WEIGHT

Dry weight	4,100 kgs
Operating weight	4,600 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