

**AIRMAN®**

**PORTABLE**

# **SCREW COMPRESSOR**

**PDSG750S**



**HIGH PRESSURE:185PSIG  
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.

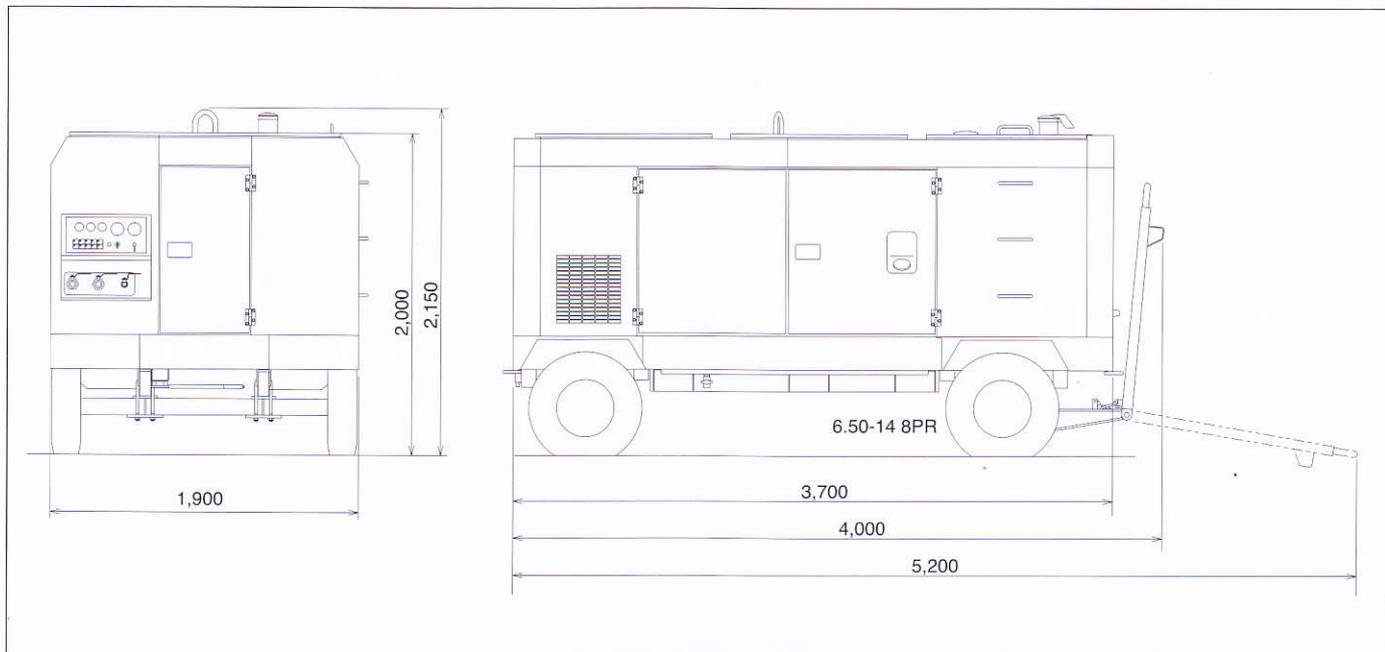
### ◆ **Easy Cleaning of Cooling System**

This compressor is so designed that the interiors of radiator and oil cooler and also 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 PDSG750S-4B1

### COMPRESSOR

Type	Rotary twin screw, single stage, oil-cooled
Free air delivery	21.2 m <sup>3</sup> /min(750 cfm)
Working pressure	1.27 MPa(13 kgf/cm <sup>2</sup> G)(185 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 <sup>-1</sup> (280 PS/2,200 rpm)
Max. torque	1,075 N·m/approx. 1,500 min <sup>-1</sup> (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 <sup>3</sup>
Max. working pressure	1.52 MPa(15.5 kgf/cm <sup>2</sup> G)
Hydraulic test pressure	2.28 MPa(23.2 kgf/cm <sup>2</sup> 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 speed down         |
| For engine air filter clogging      | For comp. air filter clogging |
| For comp. oil 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