

PORTABLE SCREW COMPRESSOR PDS185S



Control panel



Main Improvements:

◆ Superior Serviceability

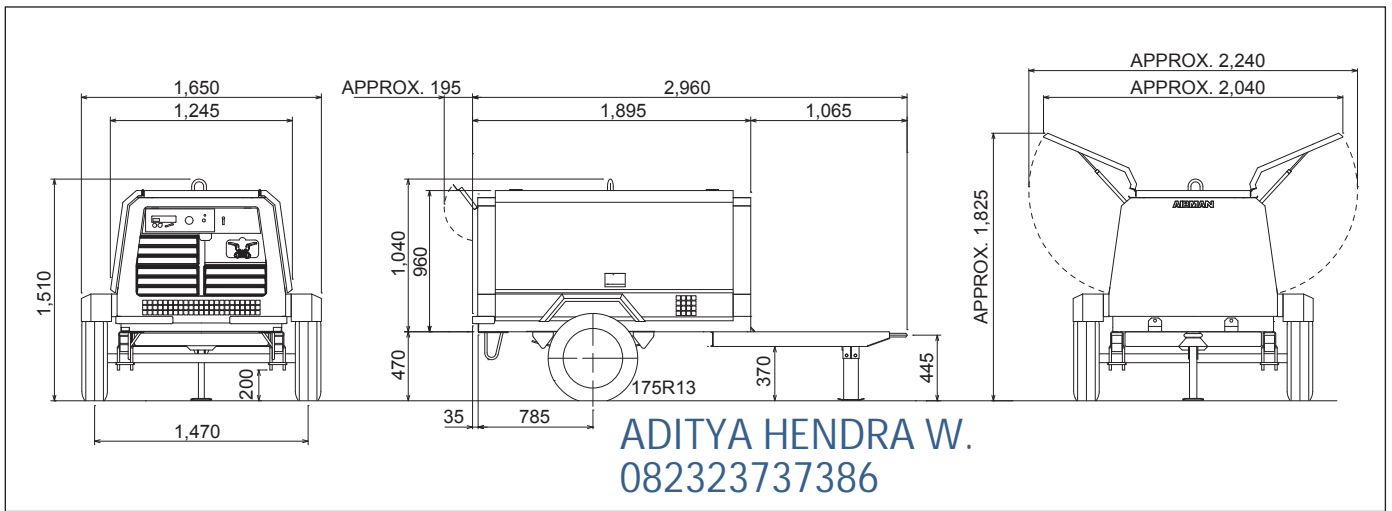
- Newly-designed GULL-WING door - Easiest access to interior inspection and maintenance.
- Filter Cartridge type Separator allows easiest replacement.

◆ Main Components - Maintenance-Free

- New Piston type Automatic-Relief Valve has no diaphragm. Thus servicing of diaphragm is not required any longer.
- Pressure Adjustment Regulator has become smaller and has no diaphragm which need be replaced. It is not necessary to replace diaphragm any longer.

◆ Smooth and Easy Cleaning

- Fittings of oil piping connection have been designed to be O-Ring seat type to eliminate oil leakage.
- Radiator and oil cooler are combined in form of one piece panel so that it provides much more smooth and easier cleaning of radiator and oil cooler.



SPECIFICATIONS PDS185S-6C2

COMPRESSOR

| | |
|--------------------|--|
| Type | Rotary twin screw, single stage, oil-cooled |
| Free air delivery | 5.2 m ³ /min (185 cfm) |
| Working pressure | 0.69 MPa (7 kgf/cm ² G) (100 psi) |
| Unloader | Suction port closing in connection with stepless speed regulator |
| Lubrication system | Forced lubrication by compression pressure |
| Driving system | Direct coupling with gears |
| Oil cooling | Air-cooled |
| Air cleaner | Dry paper filter type |

DIESEL ENGINE

| | |
|--|--|
| Model | YANMAR 4TNV88-BDHS |
| Type | Water-cooled, 4-cycle, direct injection type |
| No. of cylinders | 4 |
| Cyl. bore X stroke | 88 mm x 90 mm |
| Total displacement | 2.189 liters |
| Compression ratio | 19.0 : 1 |
| Rated output | 36.4 kW/3,000 min ⁻¹ (49.5 PS/3,000 rpm) |
| Middle torque | 140.8 Nm/approx. 1,800 min ⁻¹ (14.4 kgf-m/approx. 1,800 rpm) |
| Injection pump | Yanmar VE pump type |
| Governor | Centrifugal, all-speed |
| Alternator | DC 12 V, 40 A |
| Starting motor | DC 12 V, 1.7 kW |
| Battery | 80D26R-MF(NX110-5MF)x1 pc. |
| Air cleaner | Dry type |
| Fuel tank capacity | 90 liters |
| Engine oil capacity (including oil cooler) | 7.4 liters |
| Coolant capacity (including engine radiator) | 5.8 liters |
| Compressor oil capacity (including receiver tank & oil cooler) | 15 liters |

OIL SEPARATOR-RECEIVER TANK

| | |
|-------------------------|---------------------------------------|
| Type | Vertical, cylindrical, full-welded |
| Shell dia. | φ226.4 mm |
| Shell length | 594 mm |
| Capacity | 0.021 m ³ |
| Max. working pressure | 1.38 MPa (14.1 kgf/cm ² G) |
| Hydraulic test pressure | 1.8 MPa (18.4 kgf/cm ² G) |
| Air outlet valve | 20 A x 2 pcs. |

INSTRUMENTS & GAUGES

EMERGENCY STOP DEVICES

Engine oil pressure switch, Delivery air temperature switch, Engine coolant temperature switch, Disconnected of delivery air temperature sensor, Disconnected of engine coolant temperature sensor

WARNING LAMP

For engine coolant temperature rise
For delivery air temperature rise
For battery charging
For fuel level down

OPERATING LAMP

Glow lamp

GAUGES

Pressure gauge, Fuel gauge

MONITOR INDICATOR

Delivery air temperature, Engine coolant temperature, Engine speed (rpm), Hour meter

OPERATING SWITCH

Starter switch, Starting unloader valve, Monitor change switch, Error code indication switch

WEIGHT

| | |
|------------------|---------|
| Dry weight | 860 kgs |
| Operating weight | 960 kgs |

HOKUETSU INDUSTRIES CO., LTD.

8TH Floor Shinjuku San-Ei Bldg,
22-2 Nishi-Shinjuku 1-Chome, Shinjuku-ku, Tokyo 160-0023 Japan
TEL: 81-3-3348-7281 FAX: 81-3-3348-7289
E-mail: oversea@airman.co.jp
http://www.airman.co.jp

HOKUETSU INDUSTRIES EUROPE B.V.

Breguetlaan 12, 1438 BC Oude Meer, The Netherlands
PHONE: 31-20-6462636 FAX: 31-20-6462191
e-mail: info@hokuestu.nl

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