

# PORTABLE SCREW COMPRESSOR

## **PDS390S** (High Pressure)

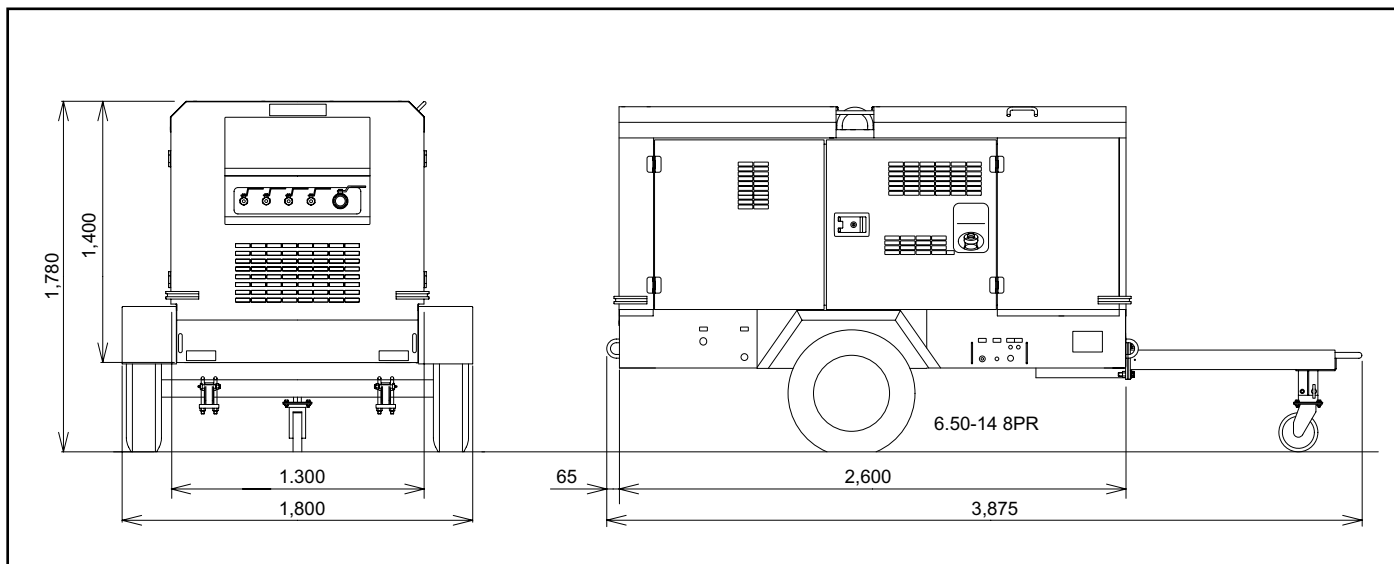


### **Main Improvements:**

- ◆ Ultra compact and lightweight unibody structure.
- ◆ The adoption of a two-wheeled trailer makes a small turning radius and easy handling in the field dramatically.
- ◆ Efficient direct driven twin screw air-end increases service life and makes excellent fuel consumption.
- ◆ Parallel installation of radiator and oil cooler has enabled easy and smooth cleaning and washing of both radiator and cooler.
- ◆ By combination of low noise engine and large-sized low noise muffler, noise level has been lowered.
- ◆ The adoption of large-sized and hinged double doors, so easy accessibility to interior inspection and maintenance has been secured.

OUR PLANTS ARE AWARDED ISO9001 CERTIFICATION.

**HOKUETSU INDUSTRIES CO., LTD.**



## SPECIFICATIONS

### COMPRESSOR

Type	Rotary twin screw, single stage, oil-cooled
Free air delivery	8.9 m <sup>3</sup> /min (315 cfm)
Working pressure	1.03 MPa (10.5 kgf/cm <sup>2</sup> 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 coupling
Oil cooling	Air-cooled
Air cleaner	Dry paper filter type

### DIESEL ENGINE

Model	ISUZU DD-4BG1T
Type	Water-cooled, 4-cycle, direct injection, turbo-charged type
No. of cylinders	4
Cyl. bore X stroke	105 mm X 125 mm
Total displacement	4.329 liters
Compression ratio	18.0 : 1
Rated output	80.9 kW / 2,400 min <sup>-1</sup> (110 PS / 2,400 rpm)
Max. torque	367 Nm / approx. 1,800 min <sup>-1</sup> (37.4 kgf·m / approx. 1,800 rpm)
Injection pump	Bosch type
Governor	Centrifugal, all-speed
Alternator	AC 24 V, 25 A
Starting motor	DC 24 V, 4.5 kW
Battery	80D26R-MF X 2 pcs.
Air cleaner	Dry type
Fuel tank capacity	180 liters
Engine oil capacity (including oil cooler)	13 liters
Coolant capacity (including engine radiator)	13 liters
Compressor oil capacity (including receiver tank & oil cooler)	51 liters

### OIL SEPARATOR-RECEIVER TANK

Type	Vertical cylindrical steel plate fully welded
Shell dia.	φ 400 mm
Shell length	752 mm
Capacity	0.098 m <sup>3</sup>
Max. working pressure	1.3 MPa (13.3 kgf/cm <sup>2</sup> G)
Hydraulic test pressure	1.95 MPa (19.9 kgf/cm <sup>2</sup> G)
Air outlet valve	50 A X 1 pc., 20 A X 4 pcs.

### INSTRUMENTS & GAUGES

#### EMERGENCY STOP DEVICES

- Oil pressure switch
- Engine coolant temperature switch
- Discharge air temperature switch
- Engine speed down switch

#### GAUGES

Pressure gauge	Starter switch
Tachometer (with houemeter)	Stop button
Discharge air temperature gauge	Starting unloader valve
Engine coolant temperature gauge	Panel lamp switch
Fuel gauge	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

### WEIGHT

Dry weight	1,845 kgs
Operating weight	2,060 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



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