PORTABLE SCREW COMPRESSOR

PDS185S

After-Cooler type PDS185SC

Main Improvements:

◆ Fuel-Efficient
  • Fuel consumption is improved by remodeling engine and regulator characteristic.
  
  Fuel consumption at 70% load:
  Approx. 15% reduced
  (Compared to previous model)

◆ Easy Maintenance
  • Flat frame structure makes easy to clean up inside of machines.
  • New design of interior layout including fuel tank makes easy to clean up inside of machines.

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SPECIFICATIONS PDS185S/SC-5C3

COMPRRESSOR
Type Rotary twin screw, single stage, oil-cooled
Free air delivery 5.2 m³/min (185 cfm)
Working pressure 0.69 MPa (7 kgf/cm²) (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-BDHKS
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 19.1 : 1
Rated output 34.9 kW/3,000 min⁻¹ (47.5 PS/3,000 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 x 1 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. φ 229 mm
Shell length 594 mm
Capacity 0.020 m³
Max. working pressure 1.32 MPa (13.5 kgf/cm²)
Hydraulic test pressure 1.98 MPa (20.2 kgf/cm²)
Air outlet valve 20 A x 3 pcs.

INSTRUMENTS & GAUGES
EMERGENCY STOP DEVICES
Engine oil pressure switch, Discharge temperature switch, Engine water temperature switch, Disconnected of discharge temperature sensor, Disconnected of engine water temperature sensor
WARNING LAMP
For engine water temperature rise
For discharge temperature rise, For battery charging
For engine air filter clogging, For comp. air filter clogging
OPERATING LAMP
Glow lamp
GAUGES
Pressure gauge, Fuel gauge
MONITOR INDICATOR
Discharge temperature, Engine water temperature, Engine speed (rpm), Hour meter
OPERATING SWITCH
Starter switch, Monitor change switch, Error code indication switch

WEIGHT
Dry weight 760 kgs / After-cooler Type: 770 kgs
Operating weight 860 kgs / After-cooler Type: 870 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

No.1 EU-PDS185S-5C3 13-05