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# SPECIFICATIONS

ENGINE COMPRESSOR

MODEL DAS-180LB-C

## 1. APPLICATION

1.1 This specification covers the water-cooled, diesel engine driven compressor model **DAS-180LB-C** (hereafter referred to as compressor).

1.2 This compressor shall be designed, manufactured and tested in accordance with the latest standards of JIS.

JIS : Japanese Industrial Standard

Other matters which are not specifically mentioned in the above standards shall be subject to Denyo Co., Ltd.'s production regulations.

## 2. GENERAL

### 2.1 Ambient conditions

This compressor should meet the following conditions:

- (1) Ambient temperature : -5° C or higher, 35° C or lower
- (2) Altitude : up to 1000m above sea level
- (3) Place of installation : indoor and outdoor

## 3. STRUCTURE

3.1 The machine possesses a solid structure, and is comprised of a water cooled diesel engine and a compressor, which are directly coupled on a common base.

3.2 A heavy gauge steel bonnet and side door completely cover the engine, compressor and accessories, protecting the unit from effects of weather or possible handling damages at the site.

## 4. SPECIFICATION

### 4.1 Dimension and Weight

Length	:	1700 mm
Width	:	1000 mm
Height	:	1060 mm
Dry weight	:	765 kg
Total weight	:	870 kg

### 4.2 Air outlet valve

3/4" male ball valve	2	pcs.
1-1/2" female ball valve	1	pc.

#### 4.3 Compressor

Model	: C80
Type	: Single stage,oil-cooled,rotary screw compressor
Actual free air delivery	: 5.1 m <sup>3</sup> /min
Operating pressure	: 0.70 MPa
Lube Oil capacity	: 19 L
Cooling system	: Pressurized oil with oil cooler
Lubricating oil	: Specific oil for rotary compressor
Oil chamber capacity	: 0.039 m <sup>3</sup>

#### 4.4 Engine

Maker and model	: KUBOTA V2403-K3A
Type	: 4-cycle, water-cooled diesel
Rated output	: 36.0 kW
Rated speed	: 2700 min <sup>-1</sup>
No. of cylinders	: 4
Bore × Stroke	: 87 mm × 102.4 mm
Total displacement	: 2.434 L
Governor	: Mechanical all speed governor
Cooling system	: Water cooling by radiator with fan
Lubricating system	: Gear pump
Starting motor	: 12 V – 2.0 kW
Charging generator	: 12 V – 480 W
Battery	: 95D31R × 1
Fuel	: Diesel fuel (ASTM No. 2 or equivalent)
Fuel tank	: 90L
Lubricating oil	: API service class CF/CG-4 class or higher
Lube oil capacity	: 9.7 L
Cooling water capacity	: 8.4 L

- Remarks -

Full load revolution	: 2700 min <sup>-1</sup>
No load revolution	: 1350 min <sup>-1</sup>

- Note -

The output is in accordance with JIS D0006-1 standard ambient condition	: 100kPa barometric pressure, 25°C temperature, 30% relative humidity.
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5. INSTRUMENT PANEL

The following meters, gauges and other control equipments are located on the panel.

Delivery air pressure gauge	:	1	pc.
Monitor	:	1	pc.
Fuel level gauge	:	(1)	pc.
Hour meter	:	(1)	pc.
Preheat lamp	:	(1)	pc.
Engine lube oil pressure warning lamp	:	(1)	pc.
Water temperature warning lamp	:	(1)	pc.
Charging warning lamp	:	(1)	pc.
Engine revolution warning lamp	:	(1)	pc.
Residual tank press. warning lamp	:	(1)	pc.
Discharge air temperature warning lamp	:	(1)	pc.
Air filter warning lamp	:	(1)	pc.
Compressor lube oil filter warning lamp	:	(1)	pc.
Unloader valve	:	1	pc.
Starter switch	:	1	pc.

6. SAFETY CONTROLS

Shut down the engine in the event of any abnormal condition, such as :

	Warning lamp	Engine shut down
Low engine lube oil pressure	○	○
High jacket water temperature	○	○
Charging failure	○	○
Low engine revolution	○	○
Residual tank pressure	○	-
High discharge air temperature	○	○
Air filter	○	-
Compressor lube oil filter	○	-

7. COATING

The color of the compressor proper and the engine shall be the manufacturer's standard colors, and that of the bonnet shall be two tone colors of Munsell No. 7.5 PB 4/12 and Munsell No. 10 PB 4/1.