



BUMA TEC CO., LTD.
BUMA Technical Compressor



High Efficiency Cost Saving Quiet Operation

BUMA SCREW AIR COMPRESSOR

Direct Drive Coupling Type BFD22

BUILT ON TRUST

BFD22

Specification

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Surrounding

Atmosphere ----- 760 mmHg
Working Pressure ----- 8.0 kgf/cm²
Max. Temperature ----- 46 °C

Compressor

Free Air Delivery ----- 3.6 m³/min at 8.0 kgf/cm²

Cooling Method ----- Air Cooled by Cooling Fan
Outlet Air Temperature ----- Ambient Temp. +15°C
Operation Control
Driven Method ----- Direct Driven

Electric Motor

Rating Power ----- 22 kW (30Hp)
Power Source ----- AC380V/3-Phase (50Hz)
Start Method ----- Y-Δ
Pole / RPM ----- 2 pole / 2940 rpm
Service Factor ----- 1.2
IP Class ----- IP 54
Enclosing

Others

Oil Volume ----- 12 ℓ
Noise level ----- 72 dBA
Pipe connection ----- 25A
Dimension ----- 1300mm x 950mm x 1270mm
Weight ----- 550 Kg

Controller

Compressor Controller ----- Micro Controller
Power Source ----- AC380V, 3 Phase
(Built-in Transformer)
Pressure Control ----- Continuous Pressure Control
by Pressure Sensor
Control Method ----- Loading & Unloading Control
Operation Mode ----- • Automatic Mode
----- • Continuous Mode
----- • Remote Mode
----- • Schedule Mode
(Default: Automatic)

Error Detecting Function & Auto-Control Function (LCD & LED Display)

----- ♦ System Trip and Warning Function
- Outlet Air Temperature High
- Main Motor Overload
- Fan Motor Overload
- Pressure & Temperature Sensor Fault
----- ♦ Auto-Control Function
- Stop Delay Function
- Re-start Pressure
- Automatic Start

Maintenance Function (LCD & LED Display)

----- ♦ Air Filter Change Warning
----- ♦ Oil Filter Change Warning
----- ♦ Oil Separator Change Warning

Operation Status Display (LCD & LED Display)

----- ♦ Outlet Air Pressure
----- ♦ Outlet Air Temperature
----- ♦ Operation Mode
----- ♦ Load / Unload Status

Statistics Function

----- ♦ Amot Clock (Automatic Time)
----- ♦ Total Operating Hour
----- ♦ Load / Unload Hour
----- ♦ Set Stop Delay Time



The specifications of this machine are subject to change for improvements.

BFD22

Components

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Electric Motor x 1unit

Type	Y2-160L-2
Rated Power	22 kw (30 HP)
Service Motor	1.2
Electric Source	AC380, 3-Phase, 50 Hz
Mode of Operation	S1, Continuous Operation Mode
Pole / RPM	2-Pole / 2940 rpm at 50Hz
Cooling Method	Built-in Fan Cooled
Lubrication	CHERROM
Starting Method	Start-Delta



Screw Airend x 1unit

Model	3.47.070002
Compression	Oil Flooded 1-Stage Compression
Rotor Combination	5 x 6 (Male * Female)
Pressure Range	5 ~ 13 bar
Operation Speed	2940 rpm



Suction Air Filter x 1unit

Model	BUMA Genuine Filter
Filtration grade	2 μ m / Min. 99.8 % (3 ppm)

Lubrication Oil Circulation

Combined Cooler - Aluminum Wing Type Cooler (for Air / Oil Cooling)	1 unit
Oil Filter Housing	1 unit
Oil Filter (BUMA Genuine Filter)	1 unit
Oil Line - Seamless Tubing&O-ring Type Parker Fitting	1 set
Cooling Fan - Low Noise Centrifugal Fan	1 unit
Fan Motor (AC380V)	1 unit



Instrument Panel

Controller (BUMA Controller)	1 unit
Pressure Sensor - Pressure Range : 0 ~ 16 kgf/cm ² - Power Source : DC 24V - Analog Output : DC 0.1 ~ 10 V	1 unit
Temperature Sensor - Outlet Air Temperature	1 unit
Pressure Switch - No. 1: Detecting Compressor Sump Pressure - No. 2: Stand-by for Failure of Pressure Sensor	1 unit
Main EOCR - For Detecting Main Motor Overload	1 unit
Fan EOCR - For Detecting Fan Motor Overload	1 unit
Display LED (Trip) - Main Motor Overload - Discharge Air Temperature High	1 set
Display LED (Warning) - Filter Change - Discharge Temperature High	1 set
Operation Status - LED and Lamp Display (Mode, Load/Unload)	1 set
Start Box - Including Transformer and Converter - Control : DC24V, AC220V	1 set
Emergency Switch	1 unit



Pneumatic & Electric Valves

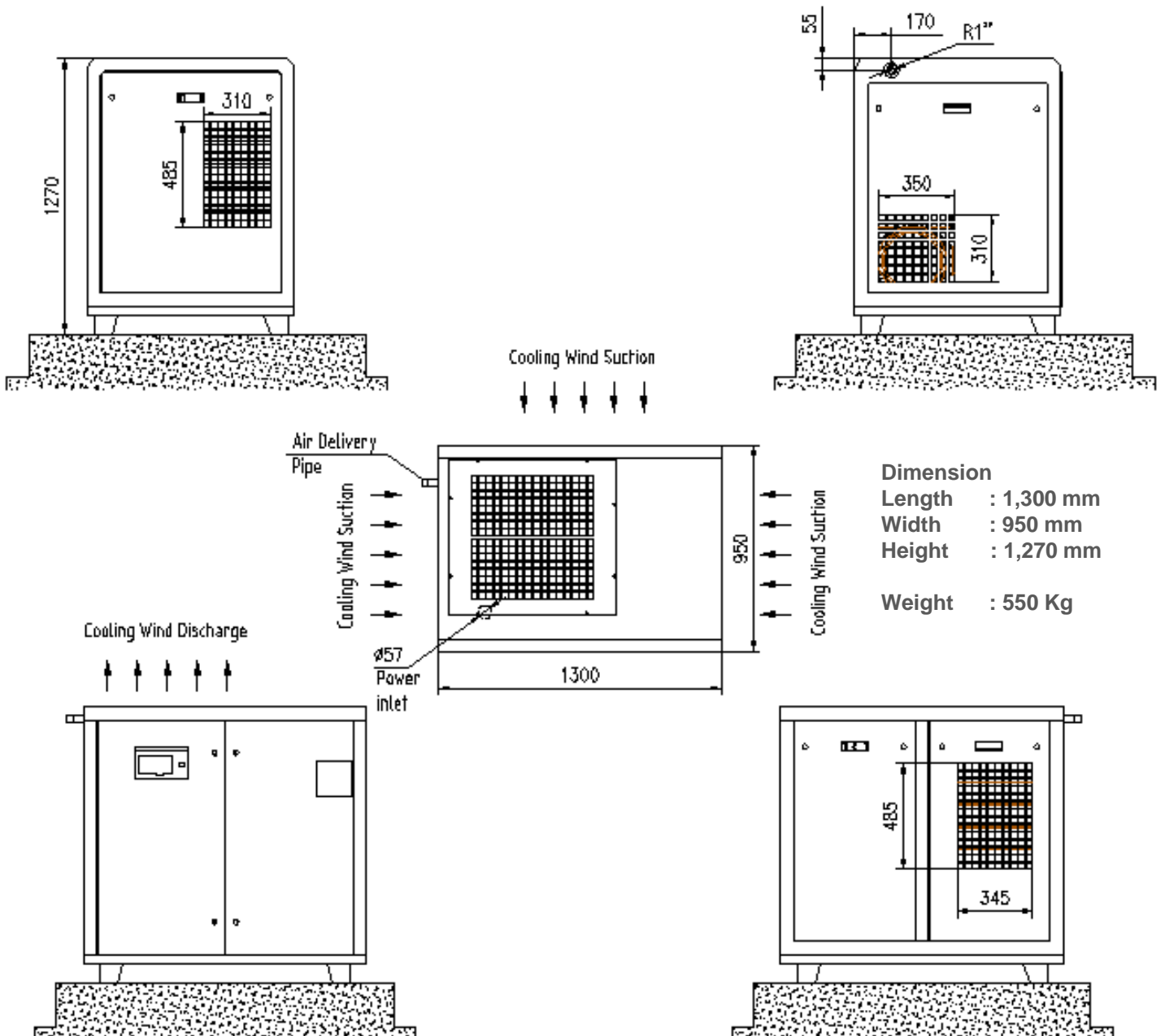
Intake Valve (HX DN50)	1 unit
Thermostatic Valve (DB LHGL-20C)	1 unit
Minimum Pressure Valve (HX DN25)	1 unit
Solenoid Valve - For Controlling Intake Valve and Purge Valve	1 unit
Safety Valve - A28X-16T (DN15)	1 unit
Purge Valve (HX)	1 unit

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Appearance Drawing

Unit: mm



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www.bumatec.com



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