



**BUMA TEC CO., LTD.**  
BUMA Technical Compressor



High Efficiency Cost Saving Quiet Operation

## BUMA SCREW AIR COMPRESSOR

Direct Drive Coupling Type BFD37

# BUILT ON TRUST

# BFD37

## Specification

BUILT ON TRUST

### Surrounding

Atmosphere ----- 760 mmHg  
Working Pressure ----- 8.0 kgf/cm<sup>2</sup>  
Max. Temperature ----- 46 °C

### Compressor

Free Air Delivery ----- 6.2 m<sup>3</sup>/min at 8.0 kgf/cm<sup>2</sup>  
  
Cooling Method ----- Air Cooled by Cooling Fan  
Outlet Air Temperature ----- Ambient Temp. +15°C  
Operation Control  
Driven Method ----- Direct Driven

### Electric Motor

Rating Power ----- 37 kW (50Hp)  
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 ----- 20 ℓ  
Noise level ----- 72 dBA  
Pipe connection ----- 32A  
Dimension ----- 1550mm x 1000mm x 1380mm  
Weight ----- 800 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.

# BFD37

## Components



### Electric Motor x 1unit

Type	Y2-180L-2
Rated Power	37 kw (50 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	3.47.070006
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 μm / Min. 99.8 % (3 ppm)

### Lubrication Oil Circulation

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



### Instrument Panel

<b>Controller (BUMA Controller)</b>	1 unit
<b>Pressure Sensor</b> - Pressure Range : 0 ~ 16 kgf/cm2 - Power Source : DC 24V - Analog Output : DC 0.1 ~ 10 V	1 unit
<b>Temperature Sensor</b> - Outlet Air Temperature	1 unit
<b>Pressure Switch</b> - No. 1: Detecting Compressor Sump Pressure - No. 2: Stand-by for Failure of Pressure Sensor	1 unit
<b>Main EOCR</b> - For Detecting Main Motor Overload	1 unit
<b>Fan EOCR</b> - For Detecting Fan Motor Overload	1 unit
<b>Display LED (Trip)</b> - Main Motor Overload - Discharge Air Temperature High	1 set
<b>Display LED (Warning)</b> - Filter Change - Discharge Temperature High	1 set
<b>Operation Status</b> - LED and Lamp Display (Mode, Load/Unload)	1 set
<b>Start Box</b> - Including Transformer and Converter - Control : DC24V, AC220V	1 set
<b>Emergency Switch</b>	1 unit



### Pneumatic & Electric Valves

Intake Valve (HX DN65)	1 unit
Thermostatic Valve (DB LHGL-20C)	1 unit
Minimum Pressure Valve (HX)	1 unit
Solenoid Valve - For Controlling Intake Valve and Purge Valve	1 unit
Safety Valve - A28X-16T (DN20)	1 unit
Purge Valve (HX)	1 unit

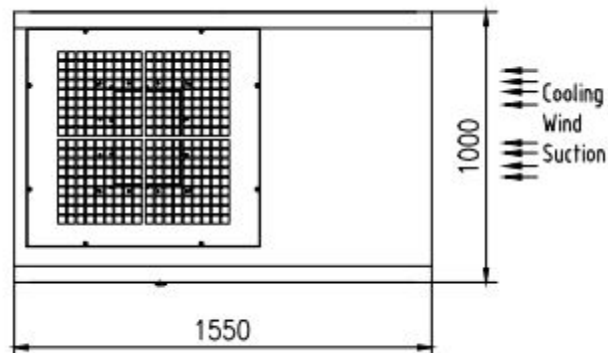
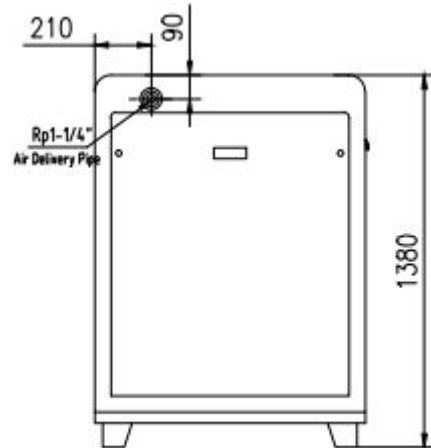
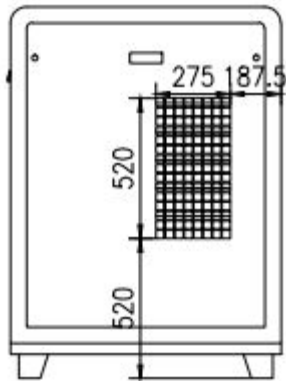
The specifications of this machine are subject to change for improvements.

# BFD37

## Appearance Drawing

BUILT ON TRUST

Unit: mm



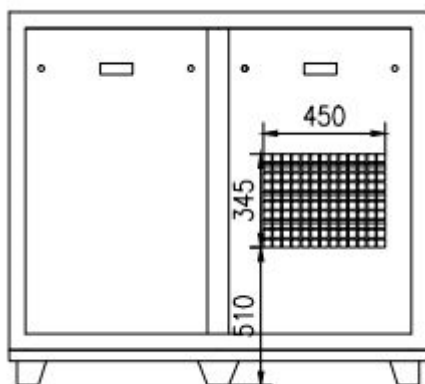
Dimension

Length : 1,550 mm

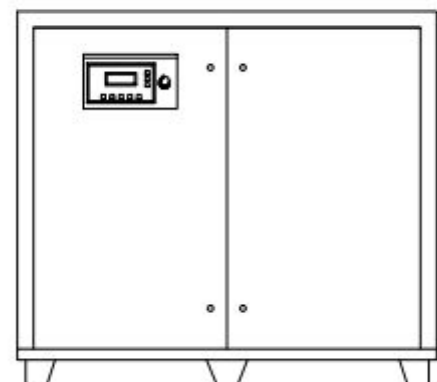
Width : 1000 mm

Height : 1,380 mm

Weight : 800 Kg



Cooling Wind Discharge



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

# BUILT ON TRUST

[www.bumatec.com](http://www.bumatec.com)



**BUMA TEC CO., LTD.**

BUMA Technical Compressor

## **KOREA HEAD OFFICE**

291 1637BEON-GIL, SEOBU-RO,  
JUCHON-MYON,  
GIMHAE-CITY, GYEONGNAM,  
KOREA (621-843)  
TEL: +82-55-337-9891~3  
FAX: +82-55-337-9894  
Email: [bumace@bumace.com](mailto:bumace@bumace.com)

## **CHINA FACTORY**

WEST OF JIUJING ROAD,  
DANYANG ECONOMIC  
DEVELOPMENT ZONE,  
JIANGSU, CHINA (Zip Code: 212300)  
TEL: +86-551-6220030  
FAX: +86-511-86220032  
Email: [buma@bumatec.com](mailto:buma@bumatec.com)