

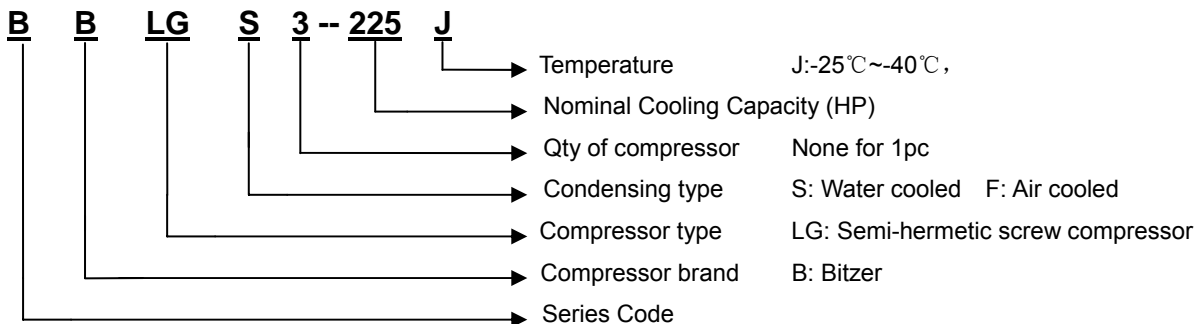
# **BBLG series screw compressor racks (Bitzer compressors)**



## 1. Product description

- ◆ Widely used for huge refrigeration projects. Cooling temperature range -25℃~-40℃.
- ◆ Bitzer semi-hermetic screw compressor
- ◆ The refrigeration parts are all world famous brand
- ◆ With all kinds of the protection devices: Wrong direction, Over heating, High discharging temperature, Low oil position, Oil leakage, High & low pressure and etc
- ◆ Economizer was equipped to enhance the cooling capacity at low temperature
- ◆ The multi-level energy adjusting device makes it possible to apply for different cooling capacity consumption

## 2. Nomenclature:



## 3. Configuration

- Screw compressor ●Oil separator ●Oil cooler ●Oil line parts ●Condenser ●Receiver ●Liquid line Filter Drier
- Sight glass ●Economizer parts ●Suction line Filter Drier ●Pressure protector ●Pressure gauge ●Economizer control
- Electrical control box (PLC)

## 4. Specification

### 4.1 Single compressor units

| Model             |                               | BLGS-50J                       | BLGS-60J       | BLGS-70J       | BLGS-75J       |      |
|-------------------|-------------------------------|--------------------------------|----------------|----------------|----------------|------|
| Temperature(℃)    |                               | -25℃~-40℃                      |                |                |                |      |
| Refrigerant       |                               | R22                            |                |                |                |      |
| Power Supply      |                               | 380V/50Hz                      |                |                |                |      |
| Compressor        | Type                          | Semi-hermetic screw compressor |                |                |                |      |
|                   | Model                         | HSN6461-50                     | HSN7451-60     | HSN7461-70     | HSN7471-75     |      |
|                   | Qty                           | 1                              | 1              | 1              | 1              |      |
| Condenser         | Type                          | Shell & tube                   |                |                |                |      |
|                   | Water flow(m <sup>3</sup> /h) | 16                             | 20             | 23             | 25             |      |
|                   | Pipe                          | 2"                             | 2"             | 2"             | 2-1/2"         |      |
| Capacity & Input  | Eavp -35℃                     | Capacity (KW)                  | 24.1           | 49             | 56.2           | 63.8 |
|                   |                               | Input (W)                      | 28             | 32.5           | 37.3           | 42.4 |
|                   | Eavp -40℃                     | Capacity(KW)                   | 32.7           | 38             | 43.6           | 49.5 |
|                   |                               | Input (W)                      | 26.1           | 30.4           | 34.8           | 39.5 |
|                   | Eavp -45℃                     | Capacity(KW)                   | 24.3           | 28.3           | 32.4           | 36.7 |
|                   |                               | Input (W)                      | 24.2           | 28.4           | 32.6           | 37   |
| Pipe              | Suction Pipe (mm)             | φ54                            | φ76            | φ76            | φ76            |      |
|                   | Liquid Pipe (mm)              | φ28                            | φ35            | φ35            | φ35            |      |
| Overall A×B×C(mm) |                               | 1800×1050×1300                 | 1800×1050×1300 | 1800×1050×1300 | 2000×1050×1300 |      |

Remarks: Condensing temperature at 40℃

#### 4.2 Double paralleled units

| Model             |                               | BBLGS2-100J                    | BBLGS2-120J    | BBLGS2-140J    | BBLGS2-150J    |       |
|-------------------|-------------------------------|--------------------------------|----------------|----------------|----------------|-------|
| Temperature(°C)   |                               | -25°C~-40°C                    |                |                |                |       |
| Refrigerant       |                               | R22                            |                |                |                |       |
| Power Supply      |                               | 380V/50Hz                      |                |                |                |       |
| Compressor        | Type                          | Semi-hermetic screw compressor |                |                |                |       |
|                   | Model                         | HSN6461-50                     | HSN7451-60     | HSN7461-70     | HSN7471-75     |       |
|                   | Qty                           | 2                              | 2              | 2              | 2              |       |
| Condenser         | Type                          | Shell & tube                   |                |                |                |       |
|                   | Water flow(m <sup>3</sup> /h) | 33                             | 40             | 45             | 50             |       |
|                   | Pipe                          | 2-1/2"                         | 2-1/2"         | 3"             | 3"             |       |
| Capacity & Input  | Eavp<br>-35°C                 | Capacity (KW)                  | 84.2           | 98             | 112.4          | 127.6 |
|                   |                               | Input (W)                      | 56             | 65             | 74.6           | 84.8  |
|                   | Eavp<br>-40°C                 | Capacity(KW)                   | 65.4           | 76             | 87.2           | 99    |
|                   |                               | Input (W)                      | 52.2           | 60.8           | 69.6           | 79    |
|                   | Eavp<br>-45°C                 | Capacity(KW)                   | 48.6           | 56.6           | 64.8           | 73.5  |
|                   |                               | Input (W)                      | 48.8           | 56.8           | 65.2           | 74    |
| Pipe              | Suction Pipe (mm)             | φ80                            | φ108           | φ108           | φ108           |       |
|                   | Liquid Pipe (mm)              | φ35                            | φ35            | φ42            | φ42            |       |
| Overall A×B×C(mm) |                               | 2400×1880×2100                 | 2400×1880×2100 | 2400×1880×2100 | 2400×1880×2100 |       |

Remarks: Condensing temperature at 40°C

#### 4.3 Triple paralleled units

| Model             |                               | BBLGS3-150J                    | BBLGS3-180J    | BBLGS3-210J    | BBLGS3-225J    |       |
|-------------------|-------------------------------|--------------------------------|----------------|----------------|----------------|-------|
| Temperature (°C)  |                               | -25°C~ -40°C                   |                |                |                |       |
| Refrigerant       |                               | R22                            |                |                |                |       |
| Power Supply      |                               | 380V/50Hz                      |                |                |                |       |
| Compressor        | Type                          | Semi-hermetic screw compressor |                |                |                |       |
|                   | Model                         | HSN6461-50                     | HSN7451-60     | HSN7461-70     | HSN7471-75     |       |
|                   | Qty                           | 3                              | 3              | 3              | 3              |       |
| Condenser         | Type                          | Shell & tube                   |                |                |                |       |
|                   | Water flow(m <sup>3</sup> /h) | 50                             | 60             | 66             | 75             |       |
|                   | Pipe                          | 3"                             | 4"             | 4"             | 4"             |       |
| Capacity & Input  | Eavp<br>-35°C                 | Capacity (KW)                  | 126.3          | 147            | 168.6          | 191.4 |
|                   |                               | Input (W)                      | 84             | 97.5           | 112            | 127.2 |
|                   | Eavp<br>-40°C                 | Capacity(KW)                   | 98.1           | 114            | 130.8          | 148.5 |
|                   |                               | Input (W)                      | 78.3           | 91.2           | 104.4          | 118.5 |
|                   | Eavp<br>-45°C                 | Capacity(KW)                   | 72.9           | 84.9           | 97.2           | 110.3 |
|                   |                               | Input (W)                      | 73.2           | 85.2           | 97.8           | 111   |
| Pipe              | Suction Pipe (mm)             | 2×φ80                          | 2×φ80          | 2×φ108         | 2×φ108         |       |
|                   | Liquid Pipe (mm)              | φ42                            | φ42            | φ42            | φ54            |       |
| Overall A×B×C(mm) |                               | 3300×1880×2100                 | 3300×1880×2100 | 3300×1880×2100 | 3300×1880×2100 |       |

Remarks: Condensing temperature at 40°C

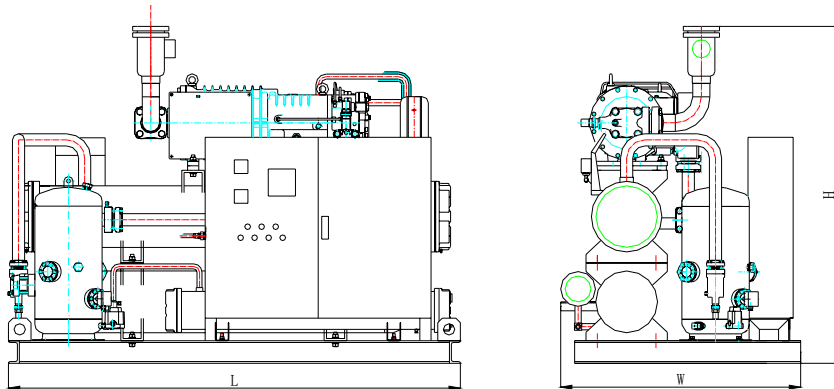
#### 4.4 4 paralleled units

| Model             |                               | BBLGS4-200J                    | BBLGS4-240J    | BBLGS4-280J    | BBLGS4-300J    |       |
|-------------------|-------------------------------|--------------------------------|----------------|----------------|----------------|-------|
| Temperature (°C)  |                               | -25°C ~ -40°C                  |                |                |                |       |
| Refrigerant       |                               | R22                            |                |                |                |       |
| Power Supply      |                               | 380V/50Hz                      |                |                |                |       |
| Compressor        | Type                          | Semi-hermetic screw compressor |                |                |                |       |
|                   | Model                         | HSN6461-50                     | HSN7451-60     | HSN7461-70     | HSN7471-75     |       |
|                   | Qty                           | 4                              | 4              | 4              | 4              |       |
| Condenser         | Type                          | Shell & tube                   |                |                |                |       |
|                   | Water flow(m <sup>3</sup> /h) | 65                             | 77             | 88             | 100            |       |
|                   | Pipe                          | 4"                             | 4"             | 5"             | 5"             |       |
| Capacity & Input  | Eavp<br>-35°C                 | Capacity(KW)                   | 168.4          | 196            | 224.8          | 255.2 |
|                   |                               | Input (W)                      | 112            | 130            | 149.2          | 169.6 |
|                   | Eavp<br>-40°C                 | Capacity(KW)                   | 130.8          | 152            | 174.4          | 198   |
|                   |                               | Input (W)                      | 104.4          | 121.6          | 139.2          | 158   |
|                   | Eavp<br>-45°C                 | Capacity(KW)                   | 97.2           | 113.2          | 129.6          | 147   |
|                   |                               | Input (W)                      | 97.6           | 113.6          | 130.4          | 148   |
| Pipe              | Suction Pipe (mm)             | 3×φ80                          | 3×φ80          | 3×φ108         | 3×φ108         |       |
|                   | Liquid Pipe (mm)              | φ42                            | φ54            | φ54            | φ54            |       |
| Overall A×B×C(mm) |                               | 4100×1880×2100                 | 4100×1880×2100 | 4100×1880×2100 | 4100×1880×2100 |       |

Remarks: Condensing temperature at 40°C

#### 5. Overall viewing

##### 5.1 Single compressor units



##### 5.2 Paralleled compressor units

