

# HITACHI BEBICON® AIR COMPRESSORS





OIL FREE SCROLL AIR COMPRESSORS

**TANK MOUNT BEBICON** 



**TWO MILLION** accumulative shipments High quality and reliability with long history **HITACHI BEBICON**<sup>®</sup>

HITACHI is one of the oldest Japanese air compressor manufactures. **BEBICON**<sup>®</sup> debuted in 1946 as HITACHI-small-air-compressor-registration brand.

**BEBICON**<sup>®</sup> is used in various area of industry, such as engineering and metalworking industry, mining industry and building industry.

HITACHI has achieved one million productions by 1979 and has achieved two million productions by 1994.

HITACHI got oil-free, cabinet type and scroll compressor to market fast. They got a step ahead of the customer need.

Hitachi developed and created INVERTER PACKAGE OIL FREE **BEBICON**<sup>®</sup> that meets customer's energy saving need and environmental friendly need just now.

HITACHI hopes that our **BEBICON**<sup>®</sup> compressor should satisfy your various need.

#### HITACHI BEBICON HISTORY

| 2003                         | birth of INVETER PACKAGE OIL FREE BEBICON   |
|------------------------------|---|
| GREEN series 2000            | <ul> <li>Dirth of OIL FREE BEBICON GREEN series</li> <li>Dirth of OIL FREE</li> </ul> |
| 1995                         | SCHOLL COMPRESSOR PRODUCITIONS  |
| 1990<br>New V series<br>1985 | birth of ELECTRONIC PACKAGE BEBICON     birth of BEBICON New V series                 |
| V series<br>L type           |   |
| N type 1975                  | PRODUCTIONS   |
| 1965                         |   |
| 1960<br>1955                 | •birth of TWO SATAGE BEBICON  |
| 1950<br>1946                 | birth of HITACHI BEBICON  |

## FEATURES

### **HIGH COOLING HEAD**

**HIGH COOLING HEAD with large aluminum** alloy ventilated rib improves heat radiation and air capacity. In addition, V-groove located between discharge and suction chamber reduces the heat transfer from discharge chamber to suction chamber and improves air capacity.







V-aroove

### LEAD AIR VALVE

LEAD VALVE of I-shaped-stainless-steelsuction-air valve improves air capacity and improves durability against rusting.





**HEAT CUT PISTON PIN & LEAK CUT PISTON RING** 

HEAT CUT PISTON PIN of heat-insulating material reduces heat transfer from the piston to the needle bearing and keeps bearing in relatively low temperature and improves the reliability.

LEAK CUT PISTON RING of specially shaped abutment joint reduces air leakage and improves air capacity.



### **BEBICON OIL**

**BEBICON OIL** is high performance oil and specially developed for **BEBICON** compressors. Please make sure to use BEBICON OIL to save power, to prevent performance degradation and to prevent accident.



Please follow below procedure in selecting BEBICON

- •Please select the comeback pressure that is more than 0.2 MPa higher than working pressure. Iworking pressure is more than 0.2 MPa + comeback
- pressurel •Please select the air capacity that is more than
- 10% larger than actual air consumption. [Specification capacity is at maximum pressure and
- is the converted value at its inlet condition.]
- •Please select model in the specification table based on above selected pressure and capacity.
- •This catalog shows only standard model specifications.
- •Hitachi has three type of control method, pressure switch type, automatic unloader type and electronic control type.

Please select control method by customer's own application.

Note: Please select frequency, when you order the product. As oil may emulsify sometimes in case of on-and-off operation in oil lubricated compressor operation, please discuss this issue with distributor.

#### Selecting Procedure



# **OIL FREE BEBICON** (0.75~11kW)

## Supplying oil free air steadily High-pressure air, 0.93MPa, for wider application



### Specifications (HORIZONTAL TANK MOUNT TYPE)

| eration | Motor<br>Output | Model                               | Maximum<br>Pressure | Cylinder<br>Diameter mm<br>X Stroke mm<br>X Number of | Compressor<br>Speed | Displacement | Capacity at<br>Maximum<br>Pressure | Air tank<br>Capacity | Power<br>Source | Standard<br>Accessories                                    | External<br>dimensions<br>Width X Depth XHeight | Weight     | Noise<br>Level |
|---------|-----------------|-------------------------------------|---------------------|---|---------------------|--------------|------------------------------------|----------------------|-----------------|--|---|------------|----------------|
| ဝိုလ်   | kW              |                                     | MPa                 | Cylinders   | min-1               | L/min        | L/min                              | L                    | PH              |  | mm  | kg         | dB[A]          |
| ЭС      | 1.5             | 1.50U-9.5GS5/6A                     |                     | 82×60×1   | 880                 | 278          | 165                                | 80                   | 1PH<br>3PH      |  | 1,155×393×909                                   | 105<br>93  | 71             |
| ler typ | 2.2             | 2.20U-9.5GS5/6A<br>2.20U-9.5G5/6A   |                     | 82×60×2   | 650                 | 412          | 240                                | 90                   | 1PH<br>3PH      | Pressure gauge,<br>Safety valve,<br>Hose joint,<br>V-belt, | 1,283×403×841                                   | 139<br>122 | 71             |
| nload   | 3.7             | 3.70U-9.5G5/6A                      | 0.93                | 82×72×2   | 850                 | 646          | 405                                | 125                  | 3PH             |  | 1,477×424×909                                   | 163        | 74             |
| atic u  | 5.5             | 5.50U-9.5G5/6A                      |                     | 82×72×3   | 860                 | 981          | 605                                | 150                  | 3PH             |  | 1,518×502×1,011                                 | 208        | 75             |
| tome    | 7.5             | 7.50U-8.5G5/6A                      | 0.83                | 105×72×2  | 1,050               | 1,309        | 830                                | 230                  | 3PH             |  | 1,690×547×1,158                                 | 280        | 81             |
| Au      | 11              | 110U-8.5G5/6A                       | 0.00                | 105×72×3  | 1,030               | 1,926        | 1,225                              | 280                  | 3PH             | Belt cover,<br>Silencer                                    | 2,028×613×1,220                                 | 410        | 83             |
|         | 0.75            | 0.750P-9.5GS5/6A<br>0.750P-9.5G5/6A |                     | 60×50×1   | 980                 | 139          | 75                                 | 80                   | 1PH<br>3PH      | Stop valve   | 1,155×380×850                                   | 84<br>77   | 69             |
| /pe     | 1.5             | 1.50P-9.5GS5/6A<br>1.50P-9.5G5/6A   |                     | 82×60×1   | 880                 | 278          | 165                                | 80                   | 1PH<br>3PH      | Air out let<br>1/4B×1                                      | 1,155×393×897                                   | 105<br>93  | 71             |
| tch ty  | 2.2             | 2.20P-9.5GS5/6A<br>2.20P-9.5G5/6A   | 0.93                | 82×60×2   | 650                 | 412          | 240                                | 90                   | 1PH<br>3PH      | for 0.75, 1.5 & 2.2 kW,<br>3/8B×1 for 3.7 & 5.5 kW,        | 1,283×403×824                                   | 139<br>122 | 71             |
| e-swi   | 3.7             | 3.70P-9.5G5/6A                      |                     | 82×72×2   | 850                 | 646          | 405                                | 125                  | 3PH             | 1/4B×1, 3/4B×1<br>for 7.5 & 11 kW                          | 1,477×424×880                                   | 163        | 74             |
| ssure   | 5.5             | 5.50P-9.5G5/6A                      |                     | 82×72×3   | 860                 | 981          | 605                                | 150                  | 3PH             |  | 1,518×502×998                                   | 208        | 75             |
| Pre     | 7.5             | 7.50P-8.5G5/6A                      | 0.82                | 105×72×2  | 1,050               | 1,309        | 830                                | 230                  | 3PH             |  | 1,690×547×1,158                                 | 280        | 81             |
|         | 11              | 110P-8.5G5/6A                       | 0.05                | 105×72×3  | 1,030               | 1,926        | 1,225                              | 280                  | 3PH             |  | 2,028×613×1,220                                 | 410        | 83             |

Note: 1. Use the compressor at a place where ambient temperature is 0 to 40 degrees C.
2. The noise level shown are those obtained at a distance of 1.5m from the front of the compressor operating under full load in a reverberation-free room.
3. The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms air suction (under the atmospheric pressure).

4. These compressor series is not available for direct use of breathing air.

# **TANK MOUNT BEBICON (0.75~11kW)**

## High quality with two million accumulative shipments **User-friendly and durable New V Series**



#### **Specifications** (HORIZONTAL & VERTICAL TANK MOUNT TYPE)

| Tank Type | Operation<br>Systems | Motor<br>Output<br>kW | Model                             | Maximum<br>Pressure<br>MPa | Cylinder<br>Diameter mm<br>X Stroke mm<br>X Number of<br>Cylinders   | Compressor<br>Speed<br>min <sup>-1</sup> | Displacement    | Capacity at<br>Maximum<br>Pressure<br>L/min | Air tank<br>Capacity<br>L | Power<br>Source<br>PH | Standard<br>Accessories                                 | External<br>Dimensions<br>Width X Depth XHeight<br>mm | Weight<br>kg    | Noise<br>Level<br>dB [A]                |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
|-----------|----------------------|-----------------------|-----------------------------------|----------------------------|--|--|-----------------|---|---------------------------|-----------------------|---|---|-----------------|---|---------------------------------------|---------------|------------|---------|-----|---|---------------|-----|------------|--|---------------|-------------------------|-------|
|           |                      | 0.75                  | 0.75U-9.5VS5/6A<br>0.75U-9.5V5/6A |                            | 50×65×1  | 990                                      | 126             | 80  | 62                        | 1PH<br>3PH            |   | 923×376×818   | 79              | 70                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
|           | ype                  | 1.5                   | 1.5U-9.5VS5/6A<br>1.5U-9.5V5/6A   |                            | 72×65×1  | 970                                      | 257             | 165   | 80                        | 1PH<br>3PH            |   | 1,147×380×870   | 102             | 72                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
|           | der t                | 2.2                   | 2.2U-9.5VS5/6A<br>2.2U-9.5V5/6A   |                            | 72×65×2  | 730                                      | 386             | 265   | 90                        | 1PH<br>3PH            |   | 1,275×403×881   | 134             | 72                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
|           | nloa                 | 3.7                   | 3.7U-9.5V5/6A                     | -                          | L)90×85×1<br>H)50×85×1   | 1,000                                    | 541             | 440   | 125                       | 3PH                   | Pressure gauge,<br>Safety valve,<br>Hose joint, V-belt, | 1,477×429×917   | 158             | 74                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
|           | tic u                | 5.5                   | 5.5U-9.5V5/6A                     |                            | L)105×85×1<br>H)60×85×1  | 1,080                                    | 795             | 630   | 150                       | 3PH                   |   | 1,518×491×954   | 203             | 76                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
|           | oma                  | 7.5                   | 7.5U-9.5V5/6A                     |                            | L)90×85×2<br>H)72×85×1 950 1,027 840 230 3PH Belt cover,<br>Silencer | Belt cover,<br>Silencer                  | 1,690×547×1,095 | 280   | 79                        |                       |   |   |                 |   |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
| ntal      | Aut                  | 11                    | 11U-9.5V5/6A                      |                            | L)105×85×2<br>H)82×85×1  | 1,050                                    | 1,546           | 1,200                                       | 250                       | 3PH                   | Stop valve  | 1,838×611×1,102                                       | 340             | 83                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
| rizor     |                      | 15                    | 15U-9.5V5/6A                      | 0.93                       | L)110X110X2<br>H)82X110X1  | 1,000                                    | 2,091           | 091 1,650 280 3PH Air out let<br>1/4B×1     | Air out let<br>1/4B×1     | 2,028×734×1,222       | 462   | 84  |                 |   |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
| Р         |                      | 0.75                  | 0.75P-9.5VS5/6A<br>0.75P-9.5V5/6A |                            |  |  |                 | 50×65×1                                     | 990                       | 126                   | 80  | 62  | 1PH<br>3PH      | for 0.75 & 1.5 kW,<br>1/4B×2 for 2.2kW, | 923×376×803                           | 79<br>72      | 70         |         |     |   |               |     |            |  |               |                         |       |
|           |                      | 1.5                   | 1.5P-9.5VS5/6A<br>1.5P-9.5V5/6A   |                            |  |  |                 |   |                           |                       |   |   |                 |   |                                       |               |            | 72×65×1 | 970 | 257                                     | 165           | 80  | 1PH<br>3PH | H 1/4B×1 & 3/8B×1<br>H for 3.7 & 5.5 kW, | 1,147×380×852 | 102<br>90               | 72    |
|           | e                    | 2.2                   | 2.2P-9.5VS5/6A<br>2.2P-9.5V5/6A   |                            |  |  |                 |   | 72×65×2                   | 730                   | 386   | 265   | 90              | 1PH<br>3PH                              | H 1/4B×1, 3/4B×1<br>H for 7.5 & 11 kW | 1,275×403×882 | 134<br>117 | 72      |     |   |               |     |            |  |               |                         |       |
|           | h typ                | 3.7                   | 3.7P-9.5V5/6A                     |                            |  |  |                 |   |                           |                       |   |   |                 | L)90×85×1<br>H)50×85×1                  | 1,000                                 | 541           | 440        | 125     | 3PH | 2H for 7.5 & 11 kW<br>2H 1B×1 for 15 kW | 1,477×429×890 | 158 | 74         |  |               |                         |       |
|           | witc                 | 5.5                   | 5.5P-9.5V5/6A                     |                            |  |  |                 |   |                           |                       |   |   |                 |   |                                       |               |            |         |     |   |               |     |            |  |               | L)105×85×1<br>H)60×85×1 | 1,080 |
|           | rre-s                | 7.5                   | 7.5P-9.5V5/6A                     |                            | L)90×85×2<br>H)72×85×1   | 950                                      | 1,027           | 840   | 230                       | 3PH                   |   | 1,690×547×1,090                                       | 280             | 79                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
|           | ressi                | 11                    | 11P-9.5V5/6A                      |                            | L)105×85×2<br>H)82×85×1  | 1,050                                    | 1,546           | 1,200                                       | 250                       | 3PH                   |   | 1,838×611×1,097                                       | 340             | 83                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
| al        | 5                    | 3.7                   | 3.7P-12.5 (14) V5/6A              |                            | L)90×85×1<br>H)50×85×1   | 900                                      | 487             | 400   | 300                       | 3PH                   | Pressure gauge,<br>Safety valve,                        | 957×590×1,732   | 260             | 75                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |
| ertic     |                      | 5.5                   | 5.5P-12.5 (14) V5/6A              | 1.23<br>(1.37)             | 1.23<br>(1.37)   | L)105×85×1<br>H)60×85×1                  | 970             | 714   | 550                       | 300                   | 3PH   | Hose joint,<br>V-belt,<br>Belt cover.                 | 1,025×611×1,734 | 317                                     | 76                                    |               |            |         |     |   |               |     |            |  |               |                         |       |
| >         |                      | 7.5                   | 7.5P-12.5 (14) V5/6A              |                            | L)90×85×2<br>H)72×85×1   | 900                                      | 973             | 760   | 300                       | 3PH                   | Silencer<br>Stop valve 3/4B×1                           | 1,10 <mark>2×634×1,814</mark>                         | 363             | 80                                      |                                       |               |            |         |     |   |               |     |            |  |               |                         |       |

Note: 1. Use the compressor at a place where ambient temperature is 0 to 40 degrees C.
2. The noise level shown are those obtained at a distance of 1.5m from the front of the compressor operating under full load in a reverberation-free room.
3. The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms air suction (under the atmospheric pressure).

4. These compressor series is not available for direct use of breathing air.

# PACKAGE BEBICON (0.75~15kW)

# Sound proof cabinet with small foot print



#### Features(M/Vtype)

### Energy saving with pressure setting

The most efficient way to save energy is to put maximum pressure close to working pressure. 'X' control system of M-type compressor changes the maximum pressure easily with touch button.



## **Digital Display**

#### Easy to see diagonal Digital Display

To display both air pressure and accumulated operating hours



# Electronic control system follows customer air consumption

'X' control system of M-type compressor calculates rate of pressure upswing time and downswing time to measure air consumption and select either pressure switch control operation or unloader control operation automatically to save energy.



Small foot print with built-in air dryer
 Coordinated control of compressor and air dryer
 Energy saving with air dryer start and stop control
 Input-output signals

 Operational input
 Remote selector
 BR-1 Selector
 Operation answer
 Warning
 (Overhaul warning for oil free type, Oil level warning for oil lubricated type)
 General Error
 (Compressor warning, Air dryer high pressure warning, compressor trip, air dryer trip, inverter trip)

# **INVERTER PACKAGE OIL FREE BEBICON**(5.5~11kW)

## Energy saving and clean air supply with inverter control oil free compressor



POD-15V

#### Package BEBICON

#### Energy saving with constant pressure control Constant pressure control operation saves a lot of energy, as it can supply air at minimum required pressure.

Inverter controls motor speed and keeps the pressure within plus or minus 0.03MPa of setting pressure.



#### Sophisticated operating sound with inverter

Inverter soft start reduce the starting noise. Low speed operation sound is 5 db[A] less than normal speed operation sound.



| Lubrication<br>type | Series<br>Name | Motor<br>output | Model         | Maximum<br>Discharge<br>Pressure | On-off<br>controlpressure | Capacity at<br>Maximum<br>Pressure | Outlet air<br>dew point | Motor start<br>system | Control method | Air Outlet                             | Air tank<br>Capacity | External dimensions<br>Width×Depth×Height | Weight | Noise<br>level |
|---------------------|----------------|-----------------|---------------|----------------------------------|---------------------------|------------------------------------|-------------------------|-----------------------|----------------|--|----------------------|---|--------|----------------|
|                     |                | kW              |               | MPa                              | MPa                       | L/min                              |                         |                       |                |  |                      | mm  | kg     | dB[A]          |
|                     | Pressure       | 0.75            | PB-0.75PSC5/6 |                                  | 0 74~0 93                 | 80                                 |                         | Fullvoltage           | Pressure       | 1/4B (8A)                              | 20                   | 702×537×011                               | 93     | 52             |
|                     | switch type    | 0.70            | PB-0.75PC5/6  |                                  | 0                         | 00                                 |                         | start                 | switch         | provided with stop valve               | 30                   | 102/0301/0311                             | 85     |                |
|                     |                | 1.5             | PB-1.5MA5/6   |                                  |                           | 165                                |                         |                       |                | 3/8B(10A)                              |                      | 82676387044                               | 132    | 53             |
| Oil                 |                | 2.2             | PB-2.2MA5/6   |                                  | 0.78~0.93                 | 265                                |                         |                       |                | provided with stop                     | 20                   | 020/030/0344                              | 151    |                |
|                     | M type         | 3.7             | PB-3.7MA5/6   | 0.93                             |                           | 440                                |                         |                       |                | valve                                  |                      | 926×710×1,024                             | 190    | 56             |
|                     | in type        | 5.5             | PB-5.5MA5/6   | -                                |                           | 630                                | Without                 |                       |                | 1/2B(15A)                              |                      | 1 008×816×1 215                           | 277    | 56             |
|                     |                | 7.5             | PB-7.5M5/6    |                                  |                           | 840                                |                         |                       |                | provided with stop                     | 32                   | 1,000/(010/(1,210                         | 310    | 56             |
|                     |                | 11              | PB-11M5/6     |                                  |                           | 1,200                              |                         | t Full-voltage        |                | valve                                  |                      | 1,175×975×1,463                           | 420    | 59             |
|                     | Pressure       | 0.75            | PO-0.75PGS5/6 | 0.03                             | 0.78~0.93                 | 75                                 |                         |                       | Semiconductor  | 1/4B (8A)<br>provided with stop valve  | 20                   | 707×537×911                               | 111    | 52             |
|                     | switch type    | ype 0.70        | PO-0.75PG5/6  |                                  |                           | 10                                 |                         |                       |                |  | 30                   | 1017(0017(011                             | 103    | 52             |
|                     |                | 1.5             | PO-1.5MA5/6   |                                  |                           | 165                                |                         | (with restart         |                | 3/8B(10A)                              |                      | 826×638×944                               | 136    | 55             |
| 01                  |                | 2.2             | PO-2.2MA5/6   | 0.00                             | 00                        | 240                                |                         | load reducing         |                | provided with stop                     | 20                   | 020/000/044                               | 154    |                |
|                     |                | 3.7             | PO-3.7MA5/6   |                                  |                           | 405                                |                         | device)               |                | vaive                                  |                      | 926×710×1,024                             | 185    | 57             |
| (Drv)               |                | 5.5             | PO-5.5MA5/6   |                                  |                           | 605                                |                         |                       |                | 1/2B(15A)                              |                      | 1.008×816×1.215                           | 278    | 58             |
| (0, 3)              | M type         | 7.5             | PO-7.5MA5/6   |                                  |                           | 875                                |                         |                       |                | provided with stop                     |                      | 1,000/(010/(1,210                         | 309    | 59             |
|                     |                | 11              | PO-11MA5/6    |                                  |                           | 1,280                              |                         |                       |                | valve                                  | 32                   | 1,175×975×1,463                           | 444    | 62             |
|                     | -              | 15              | PO-15M5/6     | 0.85                             | 5 0.70~0.85               | 1,700                              | 1                       |                       |                | 1 (25A)<br>provided with stop<br>valve |                      | 1,176×975×1,463                           | 470    | 66             |

#### Package BEBICON with built-in air dryer

| Lubrication type | Series<br>Name          | Motor<br>output | Model                           | Maximum<br>Discharge<br>Pressure | On-off<br>controlpressure | Capacity at<br>Maximum<br>Pressure | Outlet air<br>dew point             | Motor start<br>system | Control method     | Air Outlet                             | Air tank<br>Capacity | External dimensions<br>WidthXDepthXHeight | Weight     | Noise<br>level |
|------------------|-------------------------|-----------------|---------------------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------------|-----------------------|--------------------|--|----------------------|---|------------|----------------|
|                  |                         | kW              |                                 | MPa                              | MPa                       | L/min                              |                                     |                       |                    |  |                      | mm  | kg         | dB[A]          |
|                  | Pressure<br>switch type | 0.75            | PBD-0.75PSF5/6<br>PBD-0.75PF5/6 |                                  | 0.74~0.93                 | 80                                 |                                     | Fullvoltage<br>start  | Pressure<br>switch | 1/4B (8A)<br>provided with stop valve  | 30                   | 716×537×1,137                             | 115<br>107 | 52             |
|                  |                         | 1.5             | PBD-1.5MA5/6                    |                                  | 0.79~0.93                 | 165                                | ]                                   |                       |                    | 3/8B (10A)                             |                      | 826×638×1.104                             | 159        | 53             |
| 0.1              |                         | 2.2             | PBD-2.2MA5/6                    | 0.93                             |                           | 265                                | Less than<br>10°C under<br>pressure |                       |                    | provided with stop                     | 20                   | 020/030/1,194                             | 178        |                |
| OII              | M type                  | 3.7             | PBD-3.7MA5/6                    | 0.00                             |                           | 440                                |                                     |                       |                    | valve                                  |                      | 926×710×1,224                             | 220        | 56             |
|                  | in type                 | 5.5             | PBD-5.5MA5/6                    |                                  |                           | 630                                |                                     |                       |                    | 1/2B(15A)                              |                      | 961×816×1,492                             | 316        | 56             |
|                  |                         | 7.5             | PBD-7.5MA5/6                    |                                  |                           | 840                                |                                     |                       |                    | provided with stop                     | 32                   |   | 351        | 50             |
|                  |                         | 11              | PBD-11M5/6                      |                                  |                           | 1,200                              |                                     |                       |                    | valve                                  |                      | 1,455×981×1,463                           | 480        | 59             |
|                  | Pressure                | 0.75            | POD-0.75PSF5/6                  |                                  |                           | 75                                 |                                     | Full-voltage          | Semiconductor      | 1/4B (8A)                              | 20                   | 716¥537¥1 137                             | 133        | 52             |
|                  | switch type             | 0.75            | POD-0.75PF5/6                   |                                  |                           | 10                                 |                                     |                       | Connection         | provided with stop valve               | 30                   | /10//00///1,10/                           | 125        | 52             |
|                  |                         | 1.5             | POD-1.5MA5/6                    | 0.93                             | 0.78~0.93                 | 165                                |                                     | (with restart         | +<br>microcomputer | 3/8B(10A)                              | 8267 6387 1 104      | 163                                       | 55         |                |
|                  |                         | 2.2             | POD-2.2MA5/6                    | 0.00                             | 0.70 0.00                 | 240                                |                                     | load reducing         | morocomputor       | provided with stop                     | 20                   | 020/(030/(1,134                           | 181        | 55             |
| Oil              |                         | 3.7             | POD-3.7MA5/6                    |                                  |                           | 405                                |                                     | device)               |                    | valve                                  |                      | 926×710×1,224                             | 216        | 57             |
| Less<br>(Drad)   |                         | 5.5             | POD-5.5MA5/6                    |                                  |                           | 605                                | Under 15°C                          |                       |                    | 1/2B(15A)                              |                      | 961×816×1,492                             | 317        | 58             |
| (Dry)            | M type                  | 7.5             | POD-7.5MB5/6                    |                                  |                           | 875                                |                                     |                       |                    | provided with stop                     |                      | 944×816×1,492                             | 348        | 59             |
|                  |                         | 11              | POD-11MA5/6                     |                                  |                           | 1,280                              | Less than                           |                       |                    | valve                                  | 20                   | 1,445×975×1,463                           | 519        | 62             |
|                  | -                       | 15              | POD-15M5/6                      | 0.85                             | 0.70~0.85                 | 35 1,700                           | 10°C under pressure                 |                       |                    | 1 (25A)<br>provided with stop<br>valve | 32                   | 1,483×975×1,463                           | 560        | 66             |

#### Specifications

| Lubrication<br>type | Motor output<br>kW | Model     | Maximum<br>Discharge<br>Pressure<br>MPa | Capacity @<br>Initial setting<br>L/min | Range of discharge<br>pressure setting<br>MPa | Discharge air<br>dew point<br>degree C | Motor start<br>system | Pressure<br>Indication | Air Outlet  | Air tank<br>Capacity<br>L | Required minimum<br>air tank capacity<br>option L | External dimensions<br>WidthXDepthXHeight<br>mm | Weight<br>kg | Noise<br>level<br>dB[A] |
|---------------------|--------------------|-----------|---|--|---|--|-----------------------|------------------------|---|---------------------------|---|---|--------------|-------------------------|
|                     | 5.5                | POD-5.5VB | 0.93                                    | 625 @ 0.83MPa                          | 0.60~0.88                                     | 5~15 under<br>pressure                 | Inverter              | Digital gauge<br>(LED) | 1/2B(15A)<br>provided with stop<br>valve (rubber hose<br>ID: 12mm)<br>1B(25A)<br>provided with stop valve |                           | 150   | 961 ×816 ×1,492                                 | 329          | 58                      |
| Oil Less<br>(Dry)   | 7.5                | POD-7.5VD |   | 905@ 0.75MPa                           |   |  |                       |                        |   |                           |   | 944×816×1,492                                   | 361          | 59                      |
|                     | 11                 | POD-11VB  | 0.85                                    | 1,325@ 0.75MPa                         | 0.60~0.80                                     |  |                       |                        |   |                           | 230   | 1,445×975×1,463                                 | 536          | 62                      |
|                     | 15                 | POD-15V   |   | 1,750@ 0.75MPa                         | 1   |  |                       |                        |   |                           |   | 1,682×975×1,463                                 | 591          | 66                      |

Notes:1. Use the compressor at a place where ambient temperature is 5°C to 40°C

The noise levels shown are those obtained at a distance of 1.5 m from the front of the compressor operating under full load in a reverberation-free room.
 When the air dryer is operated at the same time, with compressor the noise level becomes 1 to 2 dB

higher than the value shown. 4. The amount of air discharged from the air dryer is about 3% to 5% smaller than the amount of air discharged from the compressor due to the precipitation of drain.

5. Package Oil-Free BEBICON is unavailable in Singapore. Malaysia and China due to their pressure vessel

- regulations. Hitachi has tank less model in some product.
   If air demand is small, capacity is decreased up to 40% from above specified value, when constant-pressure control' is selected. If tank pressure is increased even the 40% of full load, motor stops running

## **OIL FREE SCROLL AIR COMPRESSOR** (1.5~5.5kW)

## State of art silent operation



|              |                     |                 |               | Co                  | mpress                      | or                                      | Mo              | tor       | 0           | a mala la mala | 04-14-1    | Air t           | A                     | Enternal dimensions |       | Mater |
|--------------|---------------------|-----------------|---------------|---------------------|-----------------------------|---|-----------------|-----------|-------------|----------------|------------|-----------------|-----------------------|---------------------|-------|-------|
| Air<br>dryer | Operating<br>method | Motor<br>output | Model         | Maximum<br>Pressure | On-off<br>control<br>press. | Capacity at<br>Maximum<br>Pressure type | Power<br>Source | dew point | temperature | method         | Air outlet | capacity        | Width X Depth XHeight | Weight              | level |       |
| -            |                     | kW              |               | MPa                 | MPa                         | L/min                                   |                 | PH        | °C          | Ĵ              |            |                 | L                     | mm                  | kg    | dB[A] |
|              |                     | 1.5             | SRL-1.5DMA5/6 |                     | 0.65<br>~0.85               | 160                                     | TFO-            |           |             |                |            |                 | 10                    |                     | 157   | 45    |
| Built-in     |                     | 2.2             | SRL-2.2DMA5/6 |                     |                             | 240                                     | K 4P            |           | Less than   | 5~10           |            |                 | 10                    | 050/050/1,050       | 164   | 46    |
| air dryer    | Pressure            | 3.7             | SRL-3.7DMA5/6 | 0.85                |                             | 400                                     | TFO-            |           | pressure    | 5 40           |            | Hose            | 24                    | 750×715×1,120       | 215   | 47    |
|              |                     | 5.5             | SRL-5.5DMA5/6 |                     |                             | 600                                     | KK 4P           | ם כ       |             |                | Direct     | air outlet      | 24                    | 750×715×1,220       | 241   | 50    |
|              | switch              | 1.5             | SRL-1.5M5/6   |                     |                             | 160                                     | TFO-            | эгп       | Without     |                | Direct     | 3/8B(10A)<br>×1 | 19                    |                     | 132   | 45    |
| Without      |                     | 2.2             | SRL-2.2M5/6   |                     |                             | 240                                     | K 4P            |           |             | 0~40           |            |                 | 10                    | 030/030/000         | 139   | 46    |
| air dryer    |                     | 3.7             | SRL-3.7M5/6A  |                     |                             | 400                                     | TFO-            |           | air dryer   | 0 40           |            |                 | 24                    | 750×715×1,020       | 207   | 47    |
|              |                     | 5.5             | SRL-5.5M5/6A  |                     |                             | 600                                     | KK 4P           |           |             |                |            |                 | 27                    | 750×715×1,020       | 219   | 50    |

Note

1. Capacity is expressed as converted value in suction condition at maximum pressure. 3. External dimensions include the box panels only and don't include valve, pipe and etc. 2. Noise level is the value at 1.5 m in front and 1 m height in an anechoic room. 4. Without freeze at any parts of compressor.

| ļ | Pressure unit conversion table |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|   | MPa                            | 0.49 | 0.54 | 0.59 | 0.65 | 0.69 | 0.70 | 0.74 | 0.78 | 0.83 | 0.85 | 0.88 | 0.93 | 1.23 |
|   | kgf/cm <sup>2</sup>            | 5    | 5.5  | 6    | 6.6  | 7    | 7.1  | 7.5  | 8    | 8.5  | 8.7  | 9    | 9.5  | 12.5 |

### **OHITACHI Industrial Equipment Systems Co., Ltd.**

For further information, please contact your nearest sales representative.

- . The actual product can be different from the picture in this catalog.
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