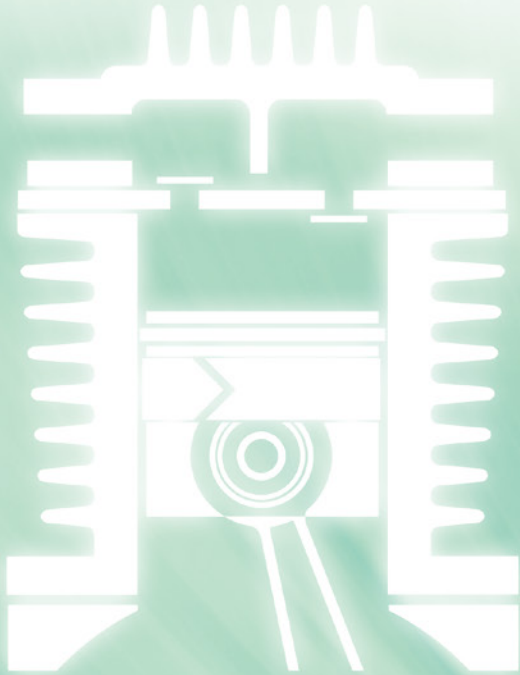


Hitachi Small Air Compressor

**HITACHI**



**BEBICON**

**GENERAL CATALOG**



# High Quality and High Reliability with Long History



Founded in 1911, Hitachi is a leading force in Japan's air compressor manufacturing landscape, acclaimed for its pioneering innovations in screw technology. The introduction of the Hitachi BEBICON in 1946 marked a groundbreaking advancement in compressed air solutions. Today, Hitachi continuously delivers a comprehensive range of oil-free, packaged, and scroll-type compressors, meeting industries' diverse compressed air needs worldwide.

## Hitachi small compressors overview

Model Type Rated Output (kW)	Reciprocating							Scroll	
	OIL FREE BEBICON		Oil-Lubricated BEBICON			OIL FREE Booster BEBICON		OIL FREE Scroll Air Compressor	Nitrogen generator
	Horizontal Tank	Package Type	Horizontal Tank	Vertical Tank	Package Type	Tank Mount	Package Type	Package Type	
0.4	●								
0.75	●	●	●		●				
1.5	●	●	●		●	●		●	
2.2	●	●	●		●			●	●
3.7	●	●	●	■	●	●	●	●	●
5.5	●	●	●	■	●			●	●
7.5	●	●	●	■	●	●	■	●	●
11	●	●	●		●	●	●	●	●
15		●	●					●	●
22								●	●
30								●	
33								●	

Auto Unloader Control ONLY  
Pressure Switch Control ONLY  
Auto Unloader Control/Pressure Switch Control

ECOMODE Control/PUSC Control  
Inverter Drive Control  
Multi-Drive Control

■Medium Pressure (1.23/1.37MPa) Model Available  
■PSA type

## Control Method

Auto Unloader Control	Automatically switch between Load/Unload operation by the pressure adjustment valve
Pressure Switch Control	Automatically Start/Stop the operation of compressor in order to maintain certain range of pressure Energy-saving is possible when compressed air is NOT needed, since motor stops.
PUSC Control	PUSC (Pressure Unloader Select Control) Automatically select between Pressure Switch Type and Auto Unloader Type to respond to the need of compressed air under the control of microcomputer
Inverter Control	Pressure can be maintained between certain levels under inverter drive. Energy-saving can be obtained.
Multi-Drive Control	Automatically control the number of compressor heads in operation to respond to the need of compressed air Energy-saving can be obtained.
ECOMODE Control	Optimized max pressure is automatically controlled by monitoring the condition of air delivery. Energy-saving can be obtained.

## How to choose a BEBICON compressor

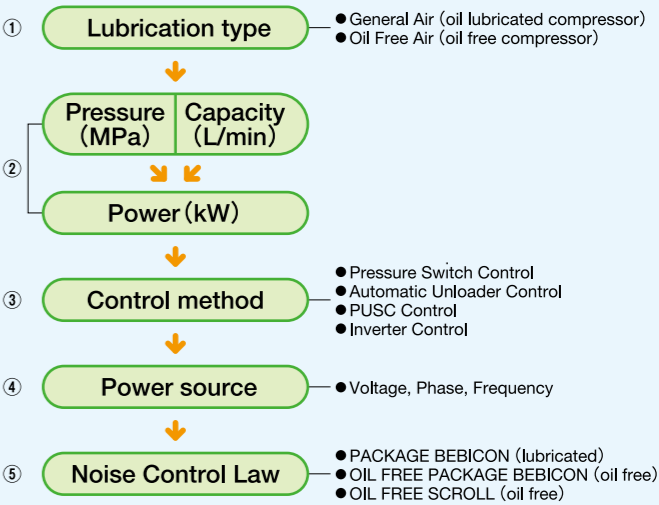
- ① Select the appropriate compressor type based on your specific requirements.
- ② Determine the necessary pressure and air capacity:

② -1: Set the pressure at least 0.2 MPa above the required working pressure.

② -2: Plan for an air capacity 10-20% greater than you need.
- ③ Choose a suitable control method.
- ④ Verify the specifications of the power source (voltage, phase, frequency).
- ⑤ Review local noise regulations.

Important Notes:  
•Confirm the power source frequency when placing your order.  
•For oil-lubricated compressors, avoid excessive intermittent operation to prevent oil emulsification.  
Contact your local dealer or Hitachi representative for assistance with model selection.

### ■Selecting Procedure



## Hitachi Genuine Parts

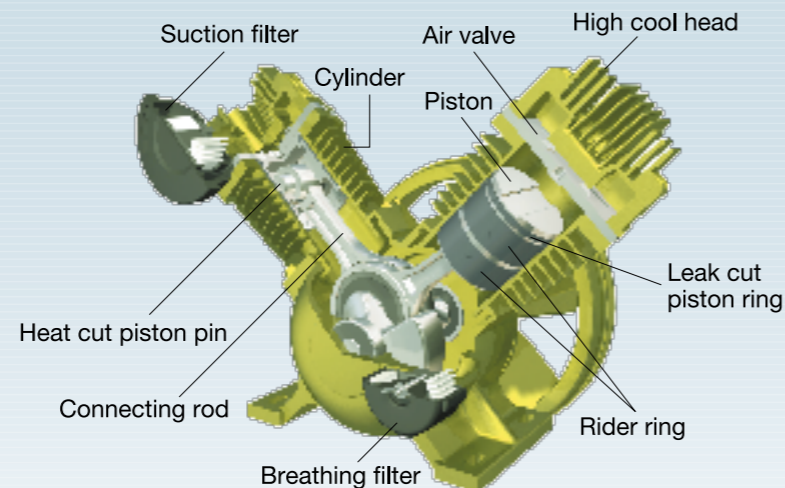
Using Hitachi genuine parts ensures maximum energy savings, prevents degradation in production line performance, and protects your compressors from malfunction or breakdown. Don't compromise your system's performance with imitation parts—maintain your air compressor's health by using Hitachi Genuine Parts.



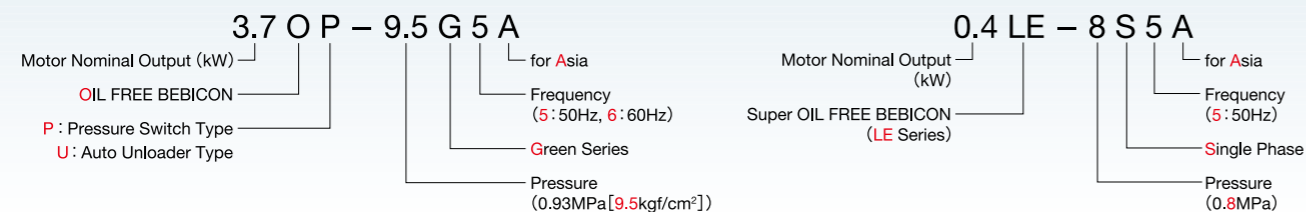


# OIL FREE BEBICON (0.4–11kW)

No lubrication required, delivering clean air.

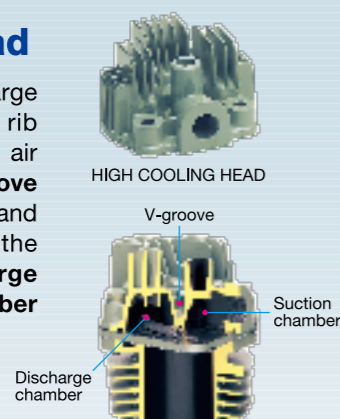


## Model Nomenclature



## 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.



## Lead Air Valve

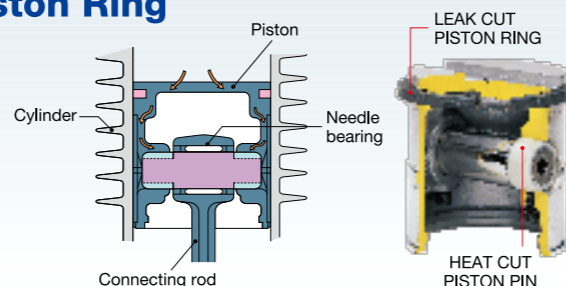
Lead Air Valve of I-shaped stainless steel suction air valve improves air capacity and durability against rusting.



## 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.



## Specifications

### Oil free BEBICON (Horizontal Tank Mount type, Pressure Switch Control)

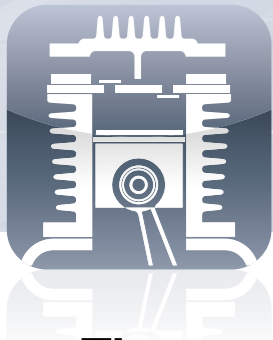
Control Method		Pressure Switch Control										
Model Item · Unit		0.4LE-8S5A	0.75OP-9.5GS5A	0.75OP-9.5G5A	1.5OP-9.5GS5A	1.5OP-9.5G5A	2.2OP-9.5GS5A	2.2OP-9.5G5A	3.7OP-9.5G5A	5.5OP-9.5G5A	7.5OP-8.5GA5A	11OP-8.5GA5A
			0.75OP-9.5GS6A	0.75OP-9.5G6A	1.5OP-9.5GS6A	1.5OP-9.5G6A	2.2OP-9.5GS6A	2.2OP-9.5G6A	3.7OP-9.5G6A	5.5OP-9.5G6A	7.5OP-8.5GA6A	11OP-8.5GA6A
Motor Nominal Output	kW	0.45	0.75		1.5		2.2		3.7	5.5	7.5	11
Power Source	PH	1	1	3	1	3	1	3	3			
Max. Discharge Pressure	MPa	0.8	0.93								0.83	
Air Capacity	L/min	42	75		165		240		405	605	880	1,285
Displacement	L/min	88	139		278		412		646	981	1,347	1,987
Air Tank Volume	L	20	80		80		90		125	150	235	290
Air Outlet	—	1/4B×1							3/8B×1		3/4B×1	
Standard Accessories	—	Pressure Gauge, Safety Valve, Stop Valve	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve									
External Dimensions (W×D×H)	mm	600×322×608	1,173×380×852		1,173×431×897	1,173×393×897	1,283×434×825	1,283×403×825	1,345×423×913	1,470×482×995	1,674×552×1,045	2,014×646×1,153
Weight	kg	30	84	77	105	93	139	122	163	208	278	385

Note: 1. Use the compressor at a place where ambient temperature is 0 (at which there is no freeze of drain water) to 40°C.  
2. Discharge air capacity is the value obtained by converting the volume of air discharged at the maximum pressure into the suction state (atmospheric pressure). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.  
3. Hitachi air compressors are not designed, intended or approved for breathing air applications.

### Oil free BEBICON (Horizontal Tank Mount type, Auto Unloader Control)

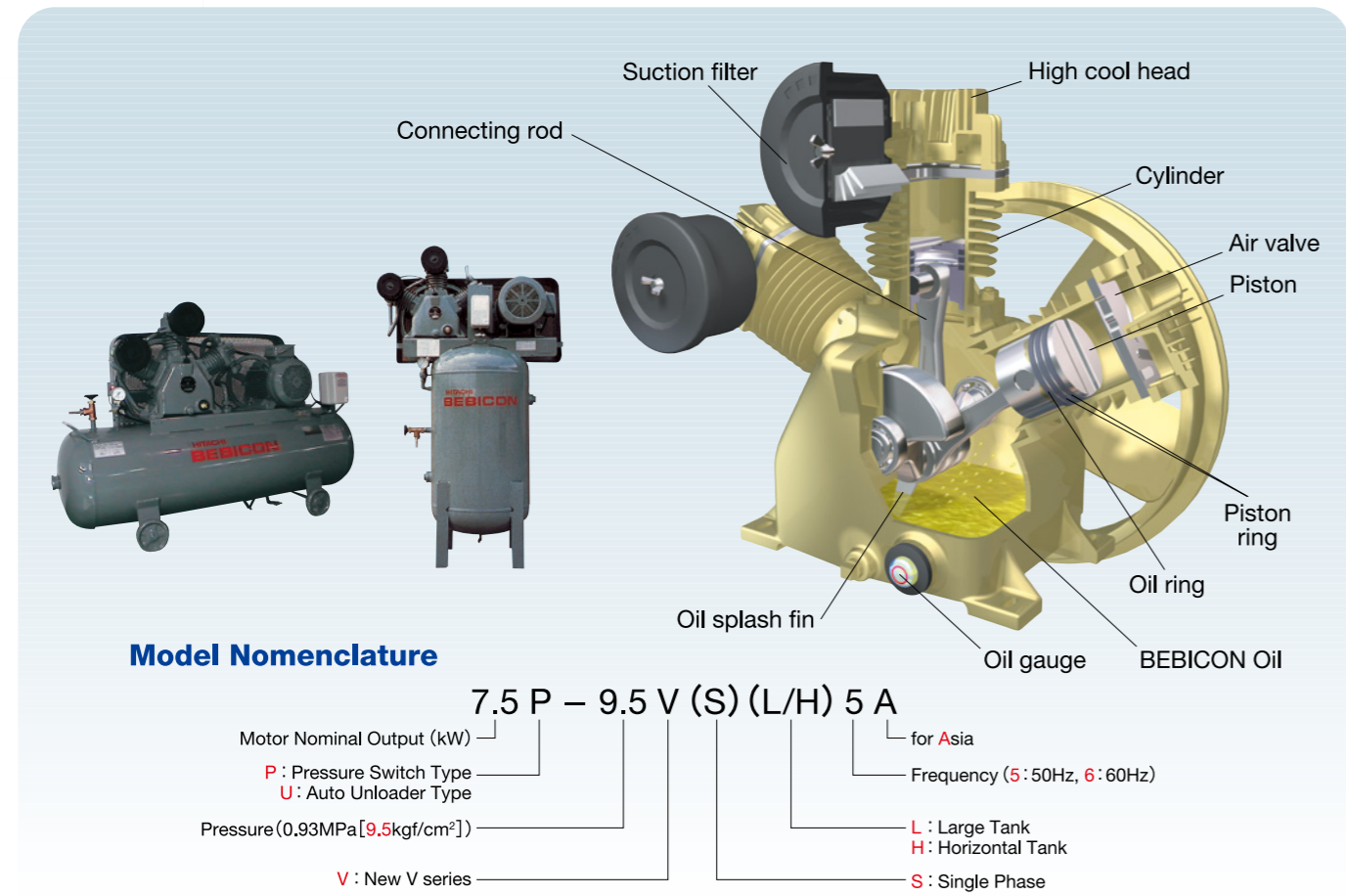
Control Method		Auto Unloader Control							
Model  Item · Unit		1.5OU-9.5GS5A	1.5OU-9.5G5A	2.2OU-9.5GS5A	2.2OU-9.5G5A	3.7OU-9.5G5A	5.5OU-9.5G5A	7.5OU-8.5GA5A	11OU-8.5GA5A
		1.5OU-9.5GS6A	1.5OU-9.5G6A	2.2OU-9.5GS6A	2.2OU-9.5G6A	3.7OU-9.5G6A	5.5OU-9.5G6A	7.5OU-8.5GA6A	11OU-8.5GA6A
Motor Nominal Output	kW	1.5		2.2		3.7	5.5	7.5	11
Power Source	PH	1	3	1	3	3			
Max. Discharge Pressure	MPa	0.93						0.83	
Air Capacity	L/min	165		240		405	605	880	1,285
Displacement	L/min	278		412		646	981	1,347	1,987
Air Tank Volume	L	80		90		125	150	235	290
Air Outlet	—	1/4B×1				3/8B×1		3/4B×1	
Standard Accessories	—	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve							
External Dimensions (W×D×H)	mm	1,173×431×913	1,173×393×913	1,283×434×852	1,283×403×852	1,345×423×942	1,470×482×1,010	1,674×550×1,076	2,014×646×1,153
Weight	kg	121	110	150	129	158	201	282	400

Note: 1. Use the compressor at a place where ambient temperature is 0 (at which there is no freeze of drain water) to 40°C.  
2. Discharge air capacity is the value obtained by converting the volume of air discharged at the maximum pressure into the suction state (atmospheric pressure). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.  
3. Hitachi air compressors are not designed, intended or approved for breathing air applications.



# Oil-Lubricated BEBICON (0.75–15kW)

The standard small compressor with outstanding durability and high reliability.



## Specifications

### Oil-lubricated BEBICON (Horizontal Tank Mount type, Pressure switch Control)

Control Method		Pressure Switch Control									
Model		0.75P-9.5VS5A	0.75P-9.5V5A	1.5P-9.5VS5A	1.5P-9.5V5A	2.2P-9.5VS5A	2.2P-9.5V5A	3.7P-9.5V5A	5.5P-9.5V5A	7.5P-9.5V5A	11P-9.5V5A
Item · Unit		0.75P-9.5VS6A	0.75P-9.5V6A	1.5P-9.5VS6A	1.5P-9.5V6A	2.2P-9.5VS6A	2.2P-9.5V6A	3.7P-9.5V6A	5.5P-9.5V6A	7.5P-9.5V6A	11P-9.5V6A
Motor Nominal Output	kW	0.75		1.5		2.2		3.7	5.5	7.5	11
Power Source	PH	1	3	1	3	1	3	3			
Max. Discharge Pressure	MPa	0.93									
Air Capacity	L/min	80		165		265		440	630	840	1,200
Displacement	L/min	126		257		386		541	795	1,027	1,546
Air Tank Volume	L	62		80		90		125	150	235	260
Air Outlet	—	1/4B×1						3/8B×1		3/4B×1	
Standard Accessories	—	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve									
External Dimensions(W×D×H)	mm	931×376×804		1,173×418×855	1,173×380×855	1,283×434×860	1,283×403×860	1,345×428×923	1,470×482×932	1,674×556×1,094	1,793×611×1,098
Weight	kg	71	64	91	80	114	97	125	186	242	308

Note: 1. Use the compressor at a place where ambient temperature is 0 (at which there is no freeze of drain water) to 40°C.  
2. Discharge air capacity is the value obtained by converting the volume of air discharged at the maximum pressure into the suction state (atmospheric pressure). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.

3. Hitachi air compressors are not designed, intended or approved for breathing air applications.

### Oil-lubricated BEBICON (Horizontal Tank Mount type, Auto Unloader Control)

Control Method		Auto Unloader Control											
Model		0.75U-9.5VS5A	0.75U-9.5V5A	1.5U-9.5VS5A	1.5U-9.5V5A	2.2U-9.5VS5A	2.2U-9.5V5A	3.7U-9.5V5A	5.5U-9.5V5A	7.5U-9.5V5A	11U-9.5V5A	15U-9.5V5A	
		0.75U-9.5VS6A	0.75U-9.5V6A	1.5U-9.5VS6A	1.5U-9.5V6A	2.2U-9.5VS6A	2.2U-9.5V6A	3.7U-9.5V6A	5.5U-9.5V6A	7.5U-9.5V6A	11U-9.5V6A	15U-9.5V6A	
Motor Nominal Output	kW	0.75		1.5		2.2		3.7	5.5	7.5	11	15	
Power Source	PH	1	3	1	3	1	3	3					
Max. Discharge Pressure	MPa	0.93											
Air Capacity	L/min	80		165		265		440	630	840	1,200	1,650	
Displacement	L/min	126		257		386		541	795	1,027	1,546	2,091	
Air Tank Volume	L	62		80		90		125	150	235	260	290	
Air Outlet	—	1/4B×1						3/8B×1		3/4B×1		1B×1	
Standard Accessories	—	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve											Pressure Gauge, Safety Valve, Belt Cover, Silencer, Stop Valve
External Dimensions (W×D×H)	mm	931×376×816		1,173×418×867	1,173×380×867	1,283×434×894	1,283×403×894	1,345×428×948	1,470×482×979	1,674×547×1,103	1,793×611×1,103	2,014×734×1,221	
Weight	kg	80	75	96	85	134	126	160	202	255	326	448	

### Oil-lubricated BEBICON (Horizontal Tank Mount type, Pressure Switch Control)

Control Method		Pressure Switch Control									
Model		0.75P-9.5VSL5A	0.75P-9.5VL5A	1.5P-9.5VSL5A	1.5P-9.5VL5A	2.2P-9.5VSL5A	2.2P-9.5VL5A	3.7P-9.5VL5A	3.7P-14VH5A	5.5P-9.5VH5A	7.5P-14VH5A
Item · Unit		0.75P-9.5VSL6A	0.75P-9.5VL6A	1.5P-9.5VSL6A	1.5P-9.5VL6A	2.2P-9.5VSL6A	2.2P-9.5VL6A	3.7P-9.5VL6A	3.7P-14VH6A	5.5P-9.5VH6A	7.5P-14VH6A
Motor Nominal Output	kW	0.75		1.5		2.2		3.7	3.7	5.5	7.5
Power Source	PH	1	3	1	3	1	3	3			
Max. Discharge Pressure	MPa	0.93							1.37		
Air Capacity	L/min	80		165		265		440	400	550	760
Displacement	L/min	126		257		386		541	487	714	973
Air Tank Volume	L	92		150		170		170	230		
Air Outlet	—	1/4B×1						3/8B×1	3/8B×1		3/4B×1
Standard Accessories	—	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve									
External Dimensions(W×D×H)	mm	1,286×376×804		1,470×444×901	1,470×435×901	1,775×436×808	1,775×435×808	1,775×448×923	1,624×525×1,007	1,624×566×1,015	1,624×590×1,090
Weight	kg	82	75	109	97	150	123	140	223	262	295

### Oil-lubricated BEBICON (Vertical Tank Mount Type, Pressure Switch Control)

Control Method		Pressure Switch Control		
Model		3.7P-12.5 (14) V5A	5.5P-12.5 (14) V5A	7.5P-12.5 (14) V5A
Item · Unit		3.7P-12.5 (14) V6A	5.5P-12.5 (14) V6A	7.5P-12.5 (14) V6A
Motor Nominal Output	kW	3.7		
Power Source	PH	3		
Max. Discharge Pressure	MPa	1.23 (1.37)		
Air Capacity	L/min	400	550	760
Displacement	L/min	487	714	973
Air Tank Volume	L	300		
Air Outlet	—	3/4B×1		
Standard Accessories	—	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve		
External Dimensions (W×D×H)	mm	957×590×1,732	1,025×611×1,734	1,102×634×1,814
Weight	kg	420	450	480



Note: 1. Use the compressor at a place where ambient temperature is 0 (at which there is no freeze of drain water) to 40°C.  
2. Discharge air capacity is the value obtained by converting the volume of air discharged at the maximum pressure into the suction state (atmospheric pressure). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.

3. Hitachi air compressors are not designed, intended or approved for breathing air applications.



# OIL FREE Scroll Air Compressor (1.5–33kW)

Low-noise, low-vibration. Perfect for noise- and vibration-sensitive environments.



### Model Nomenclature

SRL – 5.5 D M N A 5

OIL FREE SCROLL

Frequency (5 : 50Hz, 6 : 60Hz)  
Generation : A  
NEXT II series (with IE3 motor)  
Built-in Air Dryer  
Motor Nominal Output (kW)

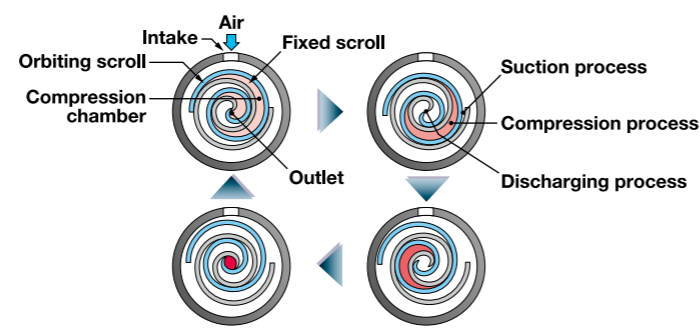
SRL – 5.5ME 5 A

OIL FREE SCROLL

for Asia  
Frequency (5 : 50Hz, 6 : 60Hz)  
ME type  
Motor Nominal Output (kW)


Scroll Compression Principle

- Compressor sucks air through air inlet located at outer scroll.
- Compression chamber goes smaller with rotary movement and trapped air is compressed.
- Compression chamber becomes minimum volume at the center of the scroll and air is pumped out through air outlet located at the center of scroll.
- These, suction, compression & discharging, process is repeated continuously.





Low Noise, Low Vibration

● Noise level is only 45dB [A] that is like in the library (1.5kW)



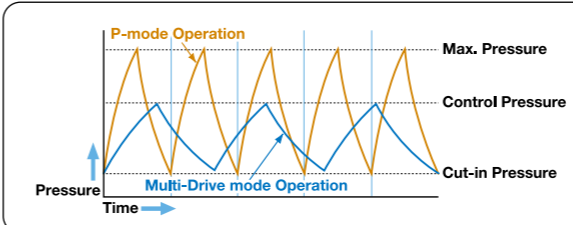
● For example : Pencil on the top roof keeps standing during operation.





Energy-Saving with Multi-Drive Control

Multi-Drive control method is added to the conventional Pressure Switch Control method. It is also possible to easily change between Multi-Drive control and Pressure Switch control by operation of switch button. Under Multi-Drive control mode, the operation of SRL heads is modified automatically responding to the need of air. Optimized operation which can keep the necessary pressure is possible.



**P-Mode:**  
Same as conventional Pressure Switch Control method, if the pressure reaches max pressure, the operation of compressor will stop. When the pressure decreases to the cut-in pressure, the operation of compressor will restart.

**Multi-Drive Mode:**  
The operation of compressor is automatically controlled to keep the pressure around necessary pressure (control pressure). Unnecessary power consumption is prevented by avoiding the pressure to reach max pressure. So, energy-saving is possible.

Specifications

Oil free scroll compressor (Built-in Air Dryer models)

Control Method		P-Mode				Multi-Drive Mode / P-Mode				
Model		SRL-1.5DMNA5	SRL-2.2DMNA5	SRL-3.7DMNA5	SRL-5.5DMNA5	SRL-7.5DMNA5	SRL-11DMNA5	SRL-15DMNA5	SRL-22DMNA5	SRL-30DMNA5
Item · Unit		SRL-1.5DMNA6	SRL-2.2DMNA6	SRL-3.7DMNA6	SRL-5.5DMNA6	SRL-7.5DMNA6	SRL-11DMNA6	SRL-15DMNA6	SRL-22DMNA6	SRL-30DMNA6
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.7	11	16.5	22	30
Max. Discharge Pressure	MPa	0.8	0.8(1.0)							
ON-OFF Control Pressure	MPa	0.65 – 0.8	0.65 – 0.8 (0.8 – 1.0)							
Air Capacity	L/min	170	255(200)	425(345)	640(500)	890(700)	1,280(1,000)	1,920(1,500)	2,560(2,000)	3,300(2,840)
Dew Point of Outlet Air	℃	(under pressure) 15 or below				(under pressure) 10 or below				
Ambient Temperature	℃	5 – 40								
Starting Method	—	Direct on Line								
Air Tank Volume	L	18	24	24 (necessary for extra air receiver tank)	— *6					
Air Outlet	—	Rc3/8 (stop Valve) ×1				Rc3/4×1		Rc1×1		
External Dimensions (W×D×H)	mm	680×620×1,030		750×715×1,150		980×660×1,450		1,280×770×1,450	1,360×925×1,930	
Weight	kg	144	158	200	234	353	397	576	799	873
Noise Level	dB[A]	45	46	47	50	53	56	58	61	63

Oil free scroll compressor (Without Air Dryer models)

Control Method		P-Mode				Multi-Drive Mode / P-Mode				
Model		SRL-1.5ME5A	SRL-2.2ME5A	SRL-3.7ME5A	SRL-5.5ME5A	SRL-7.5ME5A	SRL-11ME5A	SRL-15ME5A	SRL-22ME5A	SRL-33ME5A
Item · Unit		SRL-1.5ME6A	SRL-2.2ME6A	SRL-3.7ME6A	SRL-5.5ME6A	SRL-7.5ME6A	SRL-11ME6A	SRL-15ME6A	SRL-22ME6A	SRL-33ME6A
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.7	11	16.5	22	33
Max. Discharge Pressure	MPa	0.85	0.85 (1.0)				0.80 (1.0)			
ON-OFF Control Pressure	MPa	0.65-0.85	0.65 – 0.85 (0.8 – 1.0)				0.65 – 0.8 (0.8 – 1.0)			
Air Capacity	L/min	160	240 (200)	400 (345)	600 (500)	880 (700)	1,260 (1,000)	1,890 (1,500)	2,520 (2,000)	3,780 (3,000)
Ambient Temperature	°C	0 – 40								
Starting Method	—	Direct on Line								
Air Tank Volume	L	18	24	24 (necessary for extra air receiver tank)	— *6					
Air Outlet	—	Rc3/8 (stop Valve) × 1			Rc3/4 × 1		Rc1 × 1		Rc1 1/2 × 1	
External Dimensions (W×D×H)	mm	680×640×1,030			750×715×1,070		980×660×1,190		1,280×770×1,450	
Weight	kg	119	129	175	184	315 (312)	350 (344)	515 (506)	720 (708)	1,000
Noise Level	dB[A]	45	46	47	50	57	59	61	61	63

Note: 1. Air capacity is converted volume at its inlet condition (atmospheric pressure). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.  
2. Discharge air capacity of built-in dryer model may decrease by 3-5% when drain condensates.  
3. Noise level measurements are taken at 1.5m from the front and 1m in height during maximum pressure operation, with values converted to anechoic chamber conditions. Actual values may be higher than shown when operating conditions differ or when sound reflections occur in the installation environment. These measurements are not guaranteed values.  
4. When the air dryer operates, the noise level increases by 1-2dB(A) compared to the specifications table.  
5. It is necessary to install an air receiver tank for 5.5kW or above models to reduce ON-OFF frequency. For 3.7kW or lower models, it is also recommended to install a separate air receiver tank.  
6. It is necessary to install an air receiver tank with volume of 150L or above (7.7/11/16.5kW model), 230L or above (22/30/33kW). When using P-mode, it is also recommended to install an air receiver with volume of 230L or above (7.7/11/16.5kW model), 430L or above (22/30/33kW).  
7. This product differs for 50Hz and 60Hz, and is dedicated to each frequency. Please specify the frequency when ordering.  
8. External dimensions indicate the package panel ONLY, NOT including protruding objects as discharge outlet.  
9. Outlet air dew point is measured under the ambient temperature of 30°C. Lowering the pressure setting will deteriorate the dew point of the dryer.  
10. Ensure that the drain does not freeze when the ambient temperature is near 0°C.  
11. For 1.0MPa specifications, the inspection and maintenance standards differ from the standard specification. Please inquire separately for details.  
12. It is recommended that the air receiver tank volume should be such that the startup frequency is once per minute or less. Using an air receiver tank with a sufficient volume will save energy.  
13. Some of the models may NOT be available in Singapore, Malaysia and China (Mainland) due to the pressure vessel regulations. For details, contact your nearest dealer or Hitachi local representative office.  
14. Hitachi air compressors are not designed, intended or approved for breathing air applications.



# Package BEBICON (0.75–15kW)



POD-7.5MNB



POD-11MNB

## Features

### Constant Pressure Control

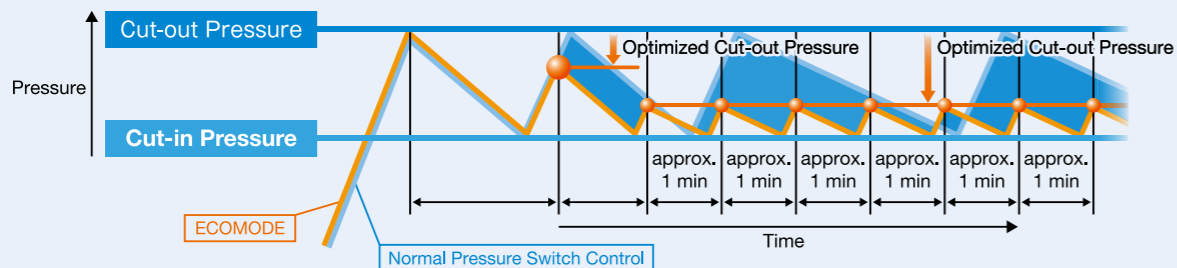
Constant pressure control enables energy savings by supplying minimum required air pressure. Discharge pressure varies within  $\pm 0.03$  MPa, with set pressure adjustable within  $\pm 0.01$  MPa from the control panel. The system automatically stops at maximum pressure during very low consumption.

### Sophisticated operating sound with inverter

Inverter soft start reduces noise, operating 5 dB(A) quieter at low speed.

### Enhanced Energy Savings with ECOMODE Control for Fixed-Speed Models

Auto-adjusting cut-out pressure monitors air delivery to save energy by reducing compression.



## Specifications

### ■ Inverter Controlled V-type Package OIL FREE BEBICON with Built-in Air Dryer

Control Method		Inverter (Automatic switch between constant pressure control and pressure switch control)			
Item · Unit	Output Model	5.5	7.5	11	15
	—	POD-5.5VNB	POD-7.5VNB	POD-11VNB	POD-15VNB
Max. Discharge Pressure	MPa	0.93			
Air Capacity under constant pressure control (at initial setting)	L/min	630 (@0.81MPa)	910 (@0.73MPa)	1,335 (@0.73MPa)	1,770 (@0.73MPa)
Range of Constant Pressure Control	MPa	0.58 - 0.86			
Dew-Point of Outlet Air	°C	(under pressure) 15 or below			
Starting Method	—	Inverter			
Air Outlet	—	Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose $\phi$ 12)			
Built-in Air Tank Volume	L	32			
Necessary Air Tank Volume (additional)	L	150 or above			
External Dimensions (W×D×H)	mm	850×805×1,440			
Weight	kg	343	356	506	602
Noise Level	dB[A]	58	59	62	66

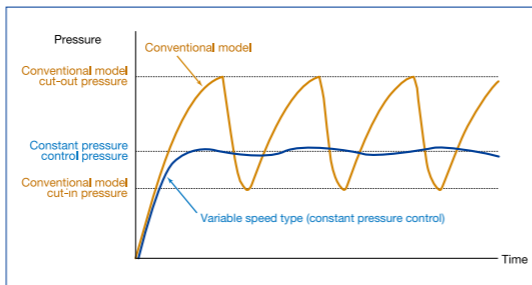
### Model Nomenclature

#### POD-7.5MNB5

Frequency (5: 50Hz, 6: 60Hz)  
Generation: B  
N: **NEXT** series (with IE3 motor) R: R Series  
M: Fixed speed V: Variable speed  
Motor Nominal Output (kW)  
Built-in Air Dryer  
O: Oil-free B: Oil-lubricated  
Package Type

#### POD-0.75PSJ5

Frequency (5: 50Hz, 6: 60Hz)  
PSJ/PGS/PSC: Single Phase  
PP: Three Phase (with IE3 motor)  
Motor Nominal Output (kW)  
Built-in Air Dryer  
O: Oil-free B: Oil-lubricated  
Package Type



## Specifications

### ■ Package OIL FREE BEBICON with Built-in Air Dryer

Control Method		Pressure Switch Control			ECOMODE/PUSC (possible for conversion)					
Item · Unit	Output Model	kW	0.75		1.5	2.2	3.7	5.5	7.5	11
	—	—	POD-0.75PSJ5 POD-0.75PSJ6	POD-0.75PP5 POD-0.75PP6	POD-1.5MR5 POD-1.5MR6	POD-2.2MR5 POD-2.2MR6	POD-3.7MR5 POD-3.7MR6	POD-5.5MNB5 POD-5.5MNB6	POD-7.5MNB5 POD-7.5MNB6	POD-11MNB5 POD-11MNB6
Max. Discharge Pressure (ON-OFF Control Pressure)	MPa	0.93(0.78 — 0.93)							0.85(0.70 — 0.85)	
Air Capacity	L/min	75			170	240	415	605	875	1,280
Dew-Point of Outlet Air	°C	(under pressure) 15 or below								
Power Source	PH	1	3		3					
Starting Method	—	Full-Voltage Starting				Full-Voltage Starting (with unloader-restart)				
Air Outlet	—	G1/4B Stop Valve×1 (Internal Diameter of Rubber Hose ϕ6)			Rc3/8 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ12)			Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ12)		
Built-in Air Tank Volume	L	30			35			32		
Recommended Air Tank Volume (additional)	L	—			38	55	95	150	230	280
External Dimensions (W×D×H)	mm	640×537×1,137			745×620×1,190		850×680×1,220		850×805×1,440	
Weight	kg	129	123		161	179	215	329	342	485
Noise Level	dB(A)	52			55		57	58	59	62

### ■ Package OIL FREE BEBICON

Control Method		Pressure Switch Control			ECOMODE/PUSC (possible for conversion)					
Item · Unit	Output Model	kW	0.75	1.5	2.2	3.7	5.5	7.5	11	
	—	PO-0.75PGS5 PO-0.75PGS6	PO-0.75PP5 PO-0.75PP6	PO-1.5MR5 PO-1.5MR6	PO-2.2MR5 PO-2.2MR6	PO-3.7MR5 PO-3.7MR6	PO-5.5MNB5 PO-5.5MNB6	PO-7.5MNB5 PO-7.5MNB6	PO-11MNB5 PO-11MNB6	
Max. Discharge Pressure (ON-OFF Control Pressure)	MPa	0.93 (0.78 — 0.93)						0.85 (0.70 — 0.85)		
Air Capacity	L/min	75			170	240	415	605	875	1,280
Power Source	PH	1			3	3				
Starting Method	—	Full-Voltage Starting			Full-Voltage Starting (with unloader-restart)					
Air Outlet	—	G1/4B Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 6)			Rc3/8 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 12)			Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 12)		
Built-in Air Tank Volume	L	30			35			32		
Recommended Air Tank Volume (additional)	L	—			38	55	95	150	230	280
External Dimensions (W×D×H)	mm	640×537×867			745×620×1,190		850×680×1,220	850×805×1,230		1,050×945×1,400
Weight	kg	106	100		146	164	200	288	306	428
Noise Level	dB[A]	52			55		57	58	59	62

### ■ Package Oil-lubricated BEBICON with Built-in Air Dryer

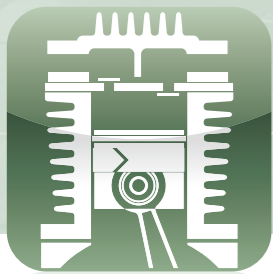
Control Method		Pressure Switch Control			ECOMODE/PUSC (possible for conversion)					
Item · Unit	Output Model	kW	0.75		1.5	2.2	3.7	5.5	7.5	11
	—	PBD-0.75PSJ5 PBD-0.75PSJ6	PBD-0.75PP5 PBD-0.75PP6		PBD-1.5MNB5 PBD-1.5MNB6	PBD-2.2MNB5 PBD-2.2MNB6	PBD-3.7MNB5 PBD-3.7MNB6	PBD-5.5MNB5 PBD-5.5MNB6	PBD-7.5MNB5 PBD-7.5MNB6	PBD-11MNB5 PBD-11MNB6
Max. Discharge Pressure (ON-OFF Control Pressure)	MPa	0.93 (0.74 – 0.93)			0.93 (0.78 – 0.93)					
Air Capacity	L/min	80			165	265	440	630	840	1,200
Dew-Point of Outlet Air	°C	(under pressure) 15 or below								
Power Source	PH	1	3		3					
Starting Method	—	Full-Voltage Starting			Full-Voltage Starting (with unloader-restart)					
Air Outlet	—	G1/4B Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 6)			Rc3/8 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 12)			Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 12)		
Built-in Air Tank Volume	L	30			35			32		
Recommended Air Tank Volume (additional)	L	—			38	55	95	150	230	280
External Dimensions (W×D×H)	mm	640×537×1,137			745×620×1,150		850×680×1,180	850×805×1,440		1,302×945×1,400
Weight	kg	117	105		151	174	210	321	350	474
Noise Level	dB[A]	52			53			56		59

### ■ Package Oil-lubricated BEBICON

Control Method		Pressure Switch Control			ECOMODE/PUSC (possible for conversion)					
Item · Unit	Output Model	kW	0.75		1.5	2.2	3.7	5.5	7.5	11
	—	PB-0.75PSC5 PB-0.75PSC6	PB-0.75PP5 PB-0.75PP6		PB-1.5MNB5 PB-1.5MNB6	PB-2.2MNB5 PB-2.2MNB6	PB-3.7MNB5 PB-3.7MNB6	PB-5.5MNB5 PB-5.5MNB6	PB-7.5MNB5 PB-7.5MNB6	PB-11MNB5 PB-11MNB6
Max. Discharge Pressure (ON-OFF Control Pressure)	MPa	0.93 (0.74 – 0.93)			0.93 (0.78 – 0.93)					
Air Capacity	L/min	80			165	265	440	630	840	1,200
Power Source	PH	1			3					
Starting Method	—	Full-Voltage Starting			Full-Voltage Starting (with unloader-restart)					
Air Outlet	—	G1/4B Stop Valve×1 (Internal Diameter of Rubber Hose φ6)			Rc3/8 Stop Valve×1 (Internal Diameter of Rubber Hose φ12)			Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose φ12)		
Built-in Air Tank Volume	L	30			35			32		
Recommended Air Tank Volume (additional)	L	—			38	55	95	150	230	280
External Dimensions (W×D×H)	mm	640×537×867			745×620×960		850×680×1,120	850×805×1,230		1,050×945×1,400
Weight	kg	88	82		125	149	182	280	313	417
Noise Level	dB[A]		52		53			56		59

Note: 1. Discharge air capacity is the value obtained by converting the volume of air discharged at the maximum pressure into the suction state (atmospheric pressure). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.  
2. [ECOMODE] is set as default control method for **NEXT** series when shipment.  
3. Control pressure (ON-OFF) is default pressure set when shipment. When [ECOMODE] is selected, control pressure (OFF) may decrease due to condition.  
4. Discharge air capacity of built-in dryer model may decrease by 3-5% when drain condensates.  
5. Products 1.5kW and above are equipped with a function that automatically drains condensate from the tank, reducing the volume of discharged air by approximately 0.5% when condensate is discharged.  
6. Noise level measurements are taken at 1.5m from the front and 1m in height during maximum pressure operation, with values converted to anechoic chamber conditions. Actual values may be higher than shown when operating conditions differ or when sound reflections occur in the installation environment. These measurements are not guaranteed values.

7. Noise level may increase by 1-2B A when refrigerant air dryer operates.  
8. Ambient temperature must be between 0 to 40°C. (for built-in air dryer model, 5-40° C at which no freeze of drain water). The ambient temperature can be up to 45 °C for the oil free BEBICON R Series(1.5 ~ 3.7kW).  
9. Dew point of outlet air is under ambient temperature of 30°C. at Max. Discharge Pressure.  
10. External dimension shows the dimension of panels. It does NOT include protruding objects such as stop valve.  
11. Do NOT use wiring thinner than the regulation or long wiring which causes the voltage drop of 2% or more during operation. Do NOT use power source with change in voltage or power generator.  
12. To fully utilize the Energy-Saving effect of ECOMODE and realize energy efficient operation, it is recommended to secure piping and existing air receiver tank with recommended volume or above, or install separate air receiver tank. If sufficient volume for air accumulation can not be secured, operation will be under [PUS] control even if [ECOMODE] is set due to the short operation cycle.  
13. Rust-proof air dryer is available as an option.  
14. Hitachi air compressors are not designed, intended or approved for breathing air applications.



# OIL FREE Booster BEBICON (1.5–11kW)

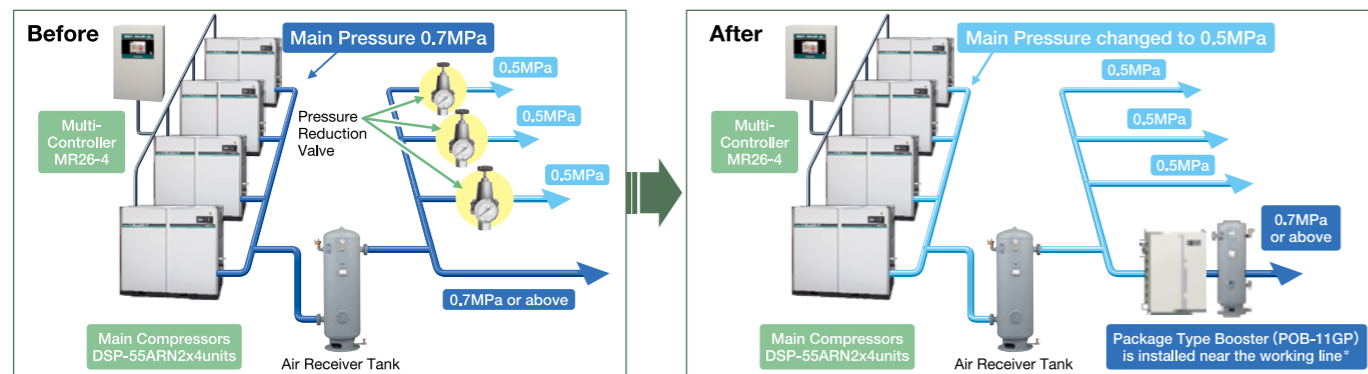
## Energy-Saving by Local Pressurerising



## Simulation of Energy Savings After Replacing Pressure Reduction Valves with Oil-Free Booster BEBICON

### Calculation Conditions

- DSP-55kW×4 units controlled by Multi-Controller, Operation Rate 78%
- Discharge Pressure 0.7MPa, average use of compressed air is 20m<sup>3</sup>/min



\* In case that oil is contained in the suction air, air filter and micron mist filter have to be installed before suction import.

### Effect

Item · Unit		Before	After
Power Consumption* (MWh/year)	Main Screw Compressor	1,147	927
	Booster BEBICON	0	40
Simulated Annual Power Consumption (MWh/year)		1,147	967
Specific Energy Consumption (m <sup>3</sup> /min/kW)		0.105	0.124
CO <sub>2</sub> Emission* (t-CO <sub>2</sub> /year)		533	449
CO <sub>2</sub> Reduction Rate (%)			16

\* Operation time: 6,000hr/y

0.497kg/kWh is used as CO<sub>2</sub> emission coefficient

After replacing with the Booster BEBICON:  
**180 MWh/y** Energy-Saving is obtained.  
At the same time, **16%** of CO<sub>2</sub> Emission Reduction is also possible.

## Specifications

### Oil Free Booster BEBICON (Tank Mount Type & Package type)

Tank Mounted/ Packaged Type		Tank Mount Type					Package Type		
Model		OBB-1.5GP5	OBB-3.7G5A	OBB-7.5G5A	OBB-7.5HP5	OBB-11GP5	POB-3.7GP5	POB-7.5G5A	POB-11G5A
Item · Unit		OBB-1.5GP6	OBB-3.7G6A	OBB-7.5G6A	OBB-7.5HP6	OBB-11GP6	POB-3.7GP6	POB-7.5G6A	POB-11G6A
Motor Nominal Output	kW	1.5	3.7	7.5		11	3.7	7.5	11
Suction Air Pressure	MPa	0 – 0.5					0.2 – 0.5		
Max.Discharge Pressure	MPa	1.0			1.37	1.0	1.0		
On-OFF Control Pressure	MPa	0.8 – 1.0			1.18 – 1.37	0.8 – 1.0	0.8 – 1.0		
Air Capacity	L/min	600	1,400	2,850	2,500	4,250	1,400	2,850	4,250
Air Tank Volume	L	38	170		280		35	—	
Air Inlet	—	Rc3/4				Rc1	Rc3/4		Rc1
Air Outlet	—	G3/8B Stop Valve	Rc3/4 Stop Valve			Rc1 Stop Valve	Rc3/4 Stop Valve		Rc1 Stop Valve
External Dimensions (W×D×H)	mm	846×447×762	1,774×518×972	1,774×553×958	1,938×608×1,114	1,938×679×1,113	850×630×1,180	981×786×1,492	1,197×931×1,513
Weight	kg	67	205	261	300	356	210	290	399

- Note: 1. Discharge air capacity is the value obtained by converting the volume of air discharged at a suction pressure of 0.5 MPa and maximum pressure to atmospheric pressure. For guaranteed values, contact your nearest dealer or Hitachi local representative offices.
2. Working range of suction pressure is from atmospheric pressure to 0.5MPa for Tank Mounted models, and 0.2MPa to 0.5MPa for Packaged Models. Please install pressure reduction valve if necessary. (it is possible to be used under suction pressure below 0.2MPa, however, energy-saving can NOT be obtained).
3. It is required to install an air receiver tank of sufficient volume on the suction side to prevent drain water to enter the suction side of Booster BEBICON. It is necessary to install an air receiver for the Packaged Type. Refer to local regulations when selecting air receiver tank.
4. The intake air of Oil-free Booster BEBICON must be oil free air, which has no oil contaminant. If oil contaminant is contained in the suction air, install

- air filter and micron filter on the suction side of the Booster BEBICON.
5. Temperature of suction air must be below 40°C for Package Oil-free Booster BEBICON, 50°C for Oil-free Booster BEBICON.
6. Ambient temperature must be between 0 (at which there is no freeze of drain water) and 40°C.
7. Some of the models may NOT be available in Singapore, Malaysia and China (Mainland) due to the pressure vessel regulations. For details, contact your nearest dealer or Hitachi local representative office.
8. Installation of air receiver is recommended to reduce the start frequency.
9. Hitachi air compressors are not designed, intended or approved for breathing air applications.
10. External dimension does NOT include protruding objects such as stop valve, filter.

## Multi-unit Controller BR-1M



### Energy-Saving Control

Energy-Saving Multi Control is possible to control the connected BEBICONs.

### Compatibility with Inverter Controlled Package OIL FREE BEBICON and Multi-Drive SRL

Further energy-saving is possible when connected with high energy-saving models such as inverter controlled package OIL FREE BEBICON or multi-drive SRL.

### Possible to control up to 8 units

8 units of BEBICONs at maximum can be controlled by linking 2 units of BEBICON ROLLERS.

### Various Functions

Automatic restart after power failure, back-up function, leveling operation hour etc is available. Detailed and direct setting of control pressure is possible.

Item	Content
Applicable Compressor Model	BEBICON, OIL FREE BEBICON, Package (OIL FREE) BEBICON Inverter Controlled Package OIL FREE BEBICON OIL FREE Scroll Compressor (Multi-Drive)
Controllable Number of Units	Max. 4 (Up to 8 by linking 2 units of BR-1M)
Function	Automatic Restart after Power Failure, Rotary Start, Back-up Leveling Operation Hour, Switching to Conventional Control Mode
Control Pressure	0.2 – 1.4 MPa
Power Source	Single Phase 100 – 220V (50/60Hz)
External Dimension (W×D×H)	350×120×300 mm
Ambient Temperature · Humidity	0~40°C · 85%
Terminal Screw Size	M3
Weight	6kg

- Note: 1. BR-1M is dedicatedly designed for Hitachi BEBICON unit control. Do NOT connect BR-1M with compressor of other brands.
2. It is necessary to install an air receiver tank, air filter between the receiver tank and the compressors.
3. It is necessary to install a magnetic switch if the compressor is NOT equipped with one.
4. About Energy-Saving Multi control, some models may NOT be applicable. For details, contact your nearest dealer or Hitachi local representative office.

5. Pressure exceeds the max pressure of the connected compressor can NOT be used.
6. In case of connecting with reciprocating BEBICON which has load reduction function, it is NOT possible to use below cut-in pressure of 0.54MPa.
7. In the case of connecting with oil-lubricated BEBICON, oil-free BEBICON, booster BEBICON and package oil-lubricated BEBICON, an optional PCB with external IO is required.



# PSA Nitrogen Gas Generator N2 PACK With Integrated Oil-free Scroll Compressor

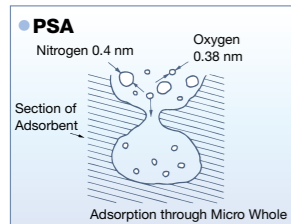


MERITS OF  
OIL-FREE SCROLL  
COMPRESSOR  
**1**

**NO Oil-Related Trouble  
or Maintenance Cost**

MERITS OF  
OIL-FREE SCROLL  
COMPRESSOR  
**2**

**Low noise & vibration**



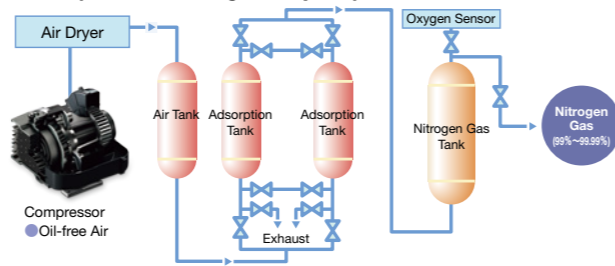
Pressure Swing Adsorption (PSA) is a technology that separates nitrogen from air using pressure. The process works by exploiting the differences between nitrogen's molecular diameter and its affinity for adsorbent materials (a type of activated carbon). This PSA technology enables stable extraction of high-quality nitrogen from air.

## PSA Nitrogen Generation Flow








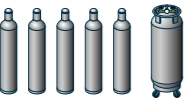




- Air, after compression and dehumidification, is pumped into adsorption tank.
- There are 2 processes taking place inside the adsorption tank, which are i) the process of adsorbing oxygen molecules onto the adsorbent material under pressure and abstracting nitrogen molecules, ii) the process of desorbing oxygen molecules from adsorbent material by depressurization to atmospheric pressure. In order to have continuous nitrogen output, the two processes repeat alternately in the two parallel adsorption tanks. This method is called PSA (Pressure Swing Adsorption).
- Generated nitrogen is stalled in the gas tank, which the purity is monitored by integrated oxygen sensor.

### Nitrogen Generator Flow Chart

#### PSA (Pressure Swing Adsorption)



## N2 Pack Model Selection Reference

N <sub>2</sub> Pack Model <i>NEXT II</i> series	NPO-2.2	NPO-3.7 Vtype		NPO-5.5 Vtype		NPO-7.5		NPO-11		NPO-15		NPO-22			
															
Pressure (MPa)	0.50~0.55														
Nitrogen Gas Capacity (m <sup>3</sup> /h)	3.0~5.7		4.8~10.2		6.9~15.0		12~26		20~37		25~52		35~68		
Nitrogen Gas Amount of Use (m <sup>3</sup> /h)	4		6	8	10	14	18	22	26	30	40	50	60		
Nitrogen Gas Amount of Use (m <sup>3</sup> /Sh)*	32		48	64	80	112	144	176	208	240	320	400	480		
Daily Used Amount by Gas Vendor															
	Nitrogen Gas Cylinder (Volume: 7m <sup>3</sup> )				Liquefied Nitrogen Cylinder (Volume: Approx. 107 m <sup>3</sup> (119kg))								Nitrogen Storage Tank at 1,200 m <sup>3</sup> (2,000kg) or above		

\* Daily used nitrogen gas amount is calculated at 8h/day as working hour.

## Application (examples)



## Specifications

### N<sub>2</sub> Pack® NEXT II series 2.2

Variable speed type 3.7 5.5

Item・Unit	Output Model	kW	2.2			3.7			5.5		
	—	NPO-2.22NB5 NPO-2.22NB6	NPO-2.23NB5 NPO-2.23NB6	NPO-2.24NB5 NPO-2.24NB6	NPO-3.72VNB	NPO-3.73VNB	NPO-3.74VNB	NPO-5.52VNB	NPO-5.53VNB	NPO-5.54VNB	
Purity*1	%	99	99.9	99.99	99	99.9	99.99	99	99.9	99.99	
Nitrogen Gas Capacity*2, *3	m³/h	5.7	4.1	3.0	10.2	7.2	4.8	15.0	10.2	6.9	
Nitrogen Gas Discharge Pressure	MPa	0.50	0.55		0.50	0.55		0.50	0.55		
Nitrogen Gas Discharge Port	—	Rc 1/4									
Ambient Temperature	℃	5–35									
Ambient Humidity*4	%	30–80									
Compressor	Model	—	Oil-free Scroll Compressor×1								
	Control Method	—	Pressure Switch Control			Inverter (Constant Pressure Control)					
Dimensions*5 (W×D×H)	mm	980×650×1,400				980×900×1,475					
Weight (Entire Unit)*11	kg	367				479			545		
Noise Level*6, *7, *8	dB(A)	48				52			55		

### N<sub>2</sub> Pack® NEXT II series 7.5 11

Item・Unit		Output	11			16.5		
		Model	–	NPO-7.52MNB5 NPO-7.52MNB6	NPO-7.53MNB5 NPO-7.53MNB6	NPO-7.54MNB5 NPO-7.54MNB6	NPO-112MNB5 NPO-112MNB6	NPO-113MNB5 NPO-113MNB6
Purity*1		%	99	99.9	99.99	99	99.9	99.99
Nitrogen Gas Capacity*2, *3		m³/h	26	18	12	37	26	20
Nitrogen Gas Discharge Pressure		MPa	0.50	0.55		0.50	0.55	
Nitrogen Gas Discharge Port		–	Rc 3/8			Rc 1/2		
Ambient Temperature		℃	5–35					
Ambient Humidity*4		%	30–80					
Compressor	Model	–	Oil-free Scroll Compressor×2			Oil-free Scroll Compressor×3		
	Control Method	–	Multi-Drive Mode					
Dimensions*5 (W×D×H)		mm	2,456×925×1,450			2,756×925×1,800		
Weight (Entire Unit)*11		kg	1,027			1,366		
Noise Level*6, *7, *8		dB[A]	58			60		

### N<sub>2</sub> Pack® NEXT II series 15 22

Item・Unit		Output Model	kW	22.5			30		
				NPO-152MNB5 NPO-152MNB6	NPO-153MNB5 NPO-153MNB6	NPO-154MNB5 NPO-154MNB6	NPO-222MNB5 NPO-222MNB6	NPO-223MNB5 NPO-223MNB6	NPO-224MNB5 NPO-224MNB6
Purity*1		%	99	99.9	99.99	99	99.9	99.99	
Nitrogen Gas Capacity*2, *3		m³/h	52	36	25	68	50	35	
Nitrogen Gas Discharge Pressure		MPa	0.50	0.55		0.50	0.55		
Nitrogen Gas Discharge Port		—	Rc 1/2						
Ambient Temperature		℃	5–35						
Ambient Humidity*4		%	30–80						
Compressor	Model	—	Oil-free Scroll Compressor×3			Oil-free Scroll Compressor×4			
	Control Method	—	Multi-Drive Mode						
Dimensions*5 (W×D×H)		mm	2,950×1,100×1,930			2,960×1,200×1,930			
Weight (Entire Unit)*11		kg	1,821			2,218			
Noise Level*6, *7, *8		dB[A]	65			67			

- \*1. Purity is the total of nitrogen gas and other gases such as argon.  
For nitrogen gas purity of 99.999%, please contact your nearest dealer or Hitachi local representative office for details.
- \*2. Capacity is the value converted to the suction condition (atmospheric pressure) when there is no clogging in the suction filter of the compressor at a temperature of 20°C and 60% humidity. Additionally, this flow rate is measured when the secondary side of the equipment is open to atmospheric pressure, and the flow rate decreases according to the pressure on the secondary side.
- \*3. Nitrogen gas purity decreases when ambient temperature is high, or ambient humidity is high. If nitrogen gas purity decreases due to ambient temperature, it is recommended to decrease the nitrogen gas amount of use.  
(As a rule of thumb, when the temperature is 35°C and the humidity is 80%, the amount used should be reduced by approximately 10%).
- \*4. It indicates relative humidity.

- \*5. Dimensions indicate the entire unit (including recommended installation interval between units). Dimensions do NOT include protruding objects.
- \*6. Noise level measurements are taken at 1.5m from the front and 1m in height during maximum pressure operation, with values converted to anechoic chamber conditions. Actual values may be higher than shown when operating conditions differ or when sound reflections occur in the installation environment. These measurements are not guaranteed values.
- \*7. Noise level is increased by 1-2 dB[A] when air dryer operates.
- \*8. The increase of noise level when Adsorption Tank exhausts is NOT included.
- \*9. For NEXT II series (variable type) earth leakage circuit breaker, please select the current sensitivity to 100mA.
- \*10. [Auto-Energy Save mode] is default setting when shipment.
- \*11. Weight is for 200V model only.



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## Hitachi Industrial Equipment Systems Co., Ltd.

*For Further information, please contact your nearest sales representative.*



Contact us in South East Asia



Contact us in other regions

### Caution

- Follow the instructions described in the instruction manual. For details, contact your nearest Hitachi representative office.
- Do NOT use the air compressors to compress any gas other than air.
- Hitachi air compressors are not designed, intended or approved for breathing air applications.
- Do NOT modify the air compressors or its components.
- Be aware of the limitation of max pressure due to altitude of installation. For details, contact your nearest Hitachi representative office.
- Product appearances and specifications in this catalog are subject to change with or without notice, as Hitachi continues to develop the latest technologies and Product for its customers.