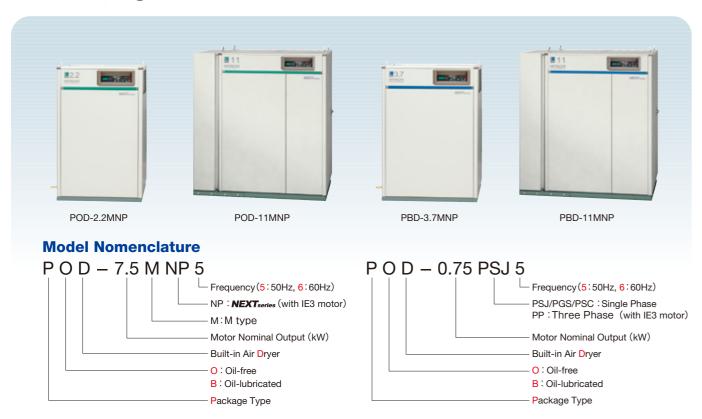


Package BEBICON (0.75-11kW)

- Powered by Premium Efficiency Motor (IE3)

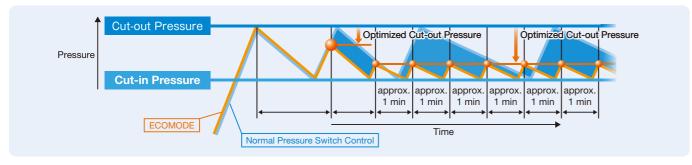
Model change to **NEXT**_{series} is complete for Package BEBICON (1.5-11kW).

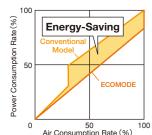


M type

New [ECOMODE] Control, Further Energy-Saving

Optimized cut-out pressure is automatically controlled by monitoring the condition of air delivery. Energy-saving can be obtained by cutting the unnecessary compression.





Compared with the conventional model under PUSC control, Energy-Saving of 40% when air consumption rate is 30%, or 24% when air consumption rate is 50%, or 14% when air consumption rate is 70% is possible.

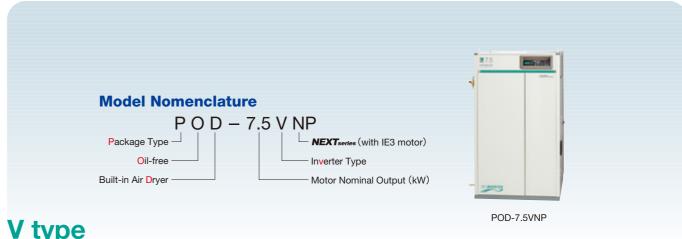
(in case of PB-3.7kW with 95L air receiver tank installed)

Calculation condition: · 3,000h/year operation · Pressure setting at 0.78 – 0.93 MPa

Extra air receiver tank installed

Energy Saving, Oil-free Air Supply, Low Noise Level*

* In case of low rotation speed.



V type

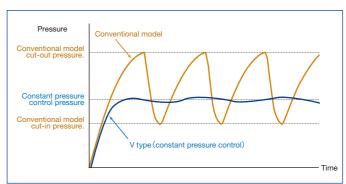
Features

Constant Pressure Control

Energy-Saving is possible under constant pressure control, as it can supply air at minimum pressure as required. Pressure of discharge air can be controlled within ±0.03MPa of setting pressure.

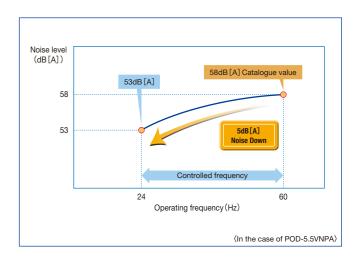
Setting pressure can be adjusted within ±0.01MPa at control

Moreover, in case that air consumption is extremely low, operation may stop at maximum pressure.



Sophisticated operating sound with inverter

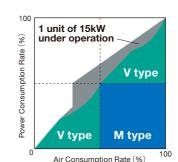
Inverter soft start reduces the starting noise. Low speed operation sound is 5 dB [A] lower than normal speed operation sound.



Energy-Saving by V-M combination

Further Energy-Saving is possible by V-M combination in case of multi units under operation.





If you have 1 unit of 7.5kW M type* installed and the air requirement is 15kW class, add 1 unit of 7.5kW V type. Energy-Saving of V type can be obtained compared with the cases of replacing with 1 unit of 15kW M type or adding 1 unit of 7.5kW M type.

*It does not only apply for M type but also for models whose cut-in pressure can be changed

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Package BEBICON (0.75-11kW)

- Powered by Premium Efficiency Motor (IE3)

Specifications

■Package OIL FREE BEBICON with Built-in Air Dryer

ackage OIL	r ackage of the bedicon with built-in Air bryer								
Control Method		Pressure Switch Control		ECOMODE/PUSC (possible for conversion)					
Output	kW	0.	75	1.5	2.2	3.7	5.5	7.5	11
Item · Unit Model	_	POD-0.75PSJ5 POD-0.75PSJ6	POD-0.75PP5 POD-0.75PP6	POD-1.5MNP5 POD-1.5MNP6	POD-2.2MNP5 POD-2.2MNP6	POD-3.7MNP5 POD-3.7MNP6	POD-5.5MNPA5 POD-5.5MNPA6	POD-7.5MNP5 POD-7.5MNP6	POD-11MNP5 POD-11MNP6
Max. Discharge Pressure (ON-OFF Control Pressure)	MPa	0.93(0.78 - 0.93)			3 — 0.93)			0.85(0.70 - 0.85)	
Air Capacity	L/min	7	5	165	240	405	605	875	1,280
Dew-Point of Outlet Air	°C	15 or below under pressure							
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	3	0	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	850×80	5×1,440	1,302×945×1,400
Weight	kg	129	123	158	176	212	328	341	484
Noise Level	dB[A]	5	2	5	5	57	58	59	62

■ Package OIL FREE BEBICON

Control Method		Pressure Switch Control		ECOMODE/PUSC (possible for conversion)					
Output	kW	0.	75	1.5	2.2	3.7	5.5	7.5	11
Item · Unit Model	_	PO-0.75PGS5 PO-0.75PGS6	PO-0.75PP5 PO-0.75PP6	PO-1.5MNP5 PO-1.5MNP6	PO-2.2MNP5 PO-2.2MNP6	PO-3.7MNP5 PO-3.7MNP6	PO-5.5MNP5 PO-5.5MNP6	PO-7.5MNP5 PO-7.5MNP6	PO-11MNP5 PO-11MNP6
Max. Discharge Pressure (ON-OFF Control Pressure)	МРа			0.93 (0.78 — 0.93)				0.85 (0.7 — 0.85)	
Air Capacity	L/min	7	5	165	240	405	605	875	1,280
Power Source	PH	1	3			3	3		
Starting Method	_	Full-Voltag	ge Starting	Full-Voltage S		Full-Voltage Starting (g (with unloader-restart)		
Air Outlet	_	G1/4B Sto (Internal Diameter of	G1/4B Stop Valve×1 Internal Diameter of Rubber Hose		Rc3/8 Stop Valve×1 I Diameter of Rubber Hose φ12) (Intern			Rc1/2 Stop Valve×1 Diameter of Rubber Hose φ12)	
Built-in Air Tank Volume	L	3	0		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		850×680×1,020	850×80	5×1,230	1,050×945×1,400
Weight	kg	106	100	132	150	184	287	305	427
Noise Level	dB[A]	5	2	55		57	58	59	62

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

Control Method	Control Method		Pressure Switch Control		ECOMODE/PUSC (possible for conversion)				
Output	kW	0.1	75	1.5	2.2	3.7	5.5	7.5	11
Item · Unit Model	_	PBD-0.75PSJ5 PBD-0.75PSJ6	PBD-0.75PP5 PBD-0.75PP6	PBD-1.5MNP5 PBD-1.5MNP6	PBD-2.2MNP5 PBD-2.2MNP6	PBD-3.7MNP5 PBD-3.7MNP6	PBD-5.5MNPA5 PBD-5.5MNPA6	PBD-7.5MNP5 PBD-7.5MNP6	PBD-11MNP5 PBD-11MNP6
Max. Discharge Pressure (ON-OFF Control Pressure)	MPa	0.93(0.74 - 0.93)		0.93 (0.78 – 0.93)					
Air Capacity	L/min	8	0	165	265	440	630	840	1,200
Dew-Point of Outlet Air	ů			15 or below under pressure					
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	3	0	35			32		
Recommended Air Tank Volume (additional)	L	-	-	38	55	95	150	230	280
External Dimensions (W×D×H)	mm	640×537×1,137		745×620×1,150 850×6		850×680×1,180	850×80	5×1,440	1,302×945×1,400
Weight	kg	117	105	150	173	209	320	349	473
Noise Level	dB[A]	5	2	53		56		59	

■ Package Oil-lubricated BEBICON

Control Method	Control Method		Pressure Switch Control		ECOMODE/PUSC (possible for conversion)				
Output	kW	0.	75	1.5	2.2	3.7	5.5	7.5	11
Item · Unit Model	_	PB-0.75PSC5 PB-0.75PSC6	PB-0.75PP5 PB-0.75PP6	PB-1.5MNP5 PB-1.5MNP6	PB-2.2MNP5 PB-2.2MNP6	PB-3.7MNP5 PB-3.7MNP6	PB-5.5MNP5 PB-5.5MNP6	PB-7.5MNP5 PB-7.5MNP6	PB-11MNP5 PB-11MNP6
Max. Discharge Pressure (ON-OFF Control Pressure)	MPa	0.93 (0.74 - 0.93)		0.93 (0.78 – 0.93)					
Air Capacity	L/min	8	0	165	265	440	630	840	1,200
Power Source	PH	1	3			3	3		
Starting Method	_	Full-Voltag	je 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 Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose φ 12) (Internal Diameter of Rubber Hose φ			ose φ12)		
Built-in Air Tank Volume	L	3	0	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		850×680×1,120	850×805×1,230		1,050×945×1,400
Weight	kg	88	82	124	148	181	279	312	416
Noise Level	dB[A]	5	2	53		56			59

- Note: 1. Air capacity is converted volume at its inlet condition (atmospheric pressure ambient 1. Air capacity is converted volume at its finet condition (atmospheric pressure ambient temperature 20°C, humidity 60%). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.

 2. [ECOMODE] is set as default control method for NEXTseries 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. Air capacity of built-in dryer model may decrease by 3-5% when drain condensates.

 5. Noise level is measured value at a distance of 1.5m from the unit in an anechoic room at full load operation.

 - 5. Noise level is measured value at a distance of 1.5m from the unit in an anechoic room at full load operation.

 Noise level might be increased due to different operating conditions and / or environments with echo of actual field installations.

 6. Noise level may increase by 1-2dB[A] when refrigerant air dryer operates.

 7. Ambient temperature must be between 0 to 40°C. (for built-in air dryer model, 5-40°C at which are force of detain units).

 - which no freeze of drain wate)
- 8. Dew point of outlet air is under ambient temperature of 30°C. 9. External dimension shows the dimension of panels. It does NOT include protruding objects
- 10. Do NOT use wiring thinner than the regulation or long wiring which causes the voltage drop
- 10. 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.

 11. BEBICON OIL is filled when shipment for package BEBICON (oil-lubricated). Do confirm there is appropriate volume of BEBICON OIL filled before operation.

 MUST use BEBICON OIL as the only lubricant oil.

 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 [PUSC] control even if [ECOMODE] is set due to the short operation cycle.

 13. Rust-proof air dryer is available as an option.

 14. It is necessary to install an air receiver tank with volume of 230L or above for PO(D)-15kW model.
- 15. Hitachi air compressors are not designed, intended or approved for breathing air

Specifications

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

Control Method		Inverter (Autom	atic switch between constant pressure control and pres	sure switch control)				
Output	kW	5.5	7.5	11				
Item · Unit Model	_	POD-5.5VNPA	POD-7.5VNP	POD-11VNP				
Max. Discharge Pressure	MPa	0.93	0.1	85				
Air Capacity under constant pressure control (at intial setting)	L/min	630 (@0.81MPa)	910 (@0.73MPa)	1,335(@0.73MPa)				
Range of Constant Pressure Control	МРа	0.58 - 0.86						
Dew-Point of Outlet Air	°C		15 or below under pressure					
Starting Method			Inverter					
Air Outlet	_	F	Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose φ12)					
Built-in Air Tank Volume	L		32					
Necessary Air Tank Volume (additional)	L	150 or above 230 or above						
External Dimensions (W×D×H)	mm	850×80	1,302×945×1,400					
Weight	kg	342	355	505				
Noise Level	dB[A]	58	59	62				

- Note: 1. Air capacity under constant pressure control may vary down to 40% of the above value due to variable speed control in case that air consumption is low.

 Operation when air capacity is about 40% will stop at operation pressure in case that the pressure of air receiver tank rises.

 - pressure of air receiver tank rises.

 In case that compressor operates for more than 1 min, operation will stop at cut-in pressure+0.06MPa.

 Air capacity of built-in dryer model may decrease by 3-5% when drain condensates.

 Also Noise level is measured value at a distance of 1.5m from the unit in an anechoic room at full load operation.

 10. Rust-proof air dryer is available as an option.

 11. Without air compressors are not designed, intended or approved for breathing air. pressure+0.00MPa.

 2. Air capacity of built-in dryer model may decrease by 3-5% when drain condensates.

 3. Noise level is measured value at a distance of 1.5m from the unit in an anechoic room at full
 - Noise level might be increased due to different operating conditions and / or environments 11. Hitachi air compressors are not designed, intended or approved for breathing air
 - with echo of actual field installations. 4. Noise level may increase by 1-2dB[A] when refrigerant air dryer operates.
- such as stop valve.

Hitachi BEBICON ROLLER (BR-1M)

BR-1M



Newly developed Energy-Saving Control

Detailed and direct setting of control pressure is possible.

Loaded with Energy-Saving Multi Control, it is possible to control the connected BEBICONs under the latest Energy-Saving Control.

- Response to 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.

Automatic restart after power failure, back-up function, leveling operation hour etc is available.

Specifications

Item	Content					
Appicable Compressor Model	BEBICON, OIL FREE BEBICON, Package (OIL FREE) BEBICON Inverter Controlled Package OIL FREE BEBICON OIL FREE Scroll Compresor (Multi-Drive)					
Controllable Number of Units	Max. 4(Up to 8 by linking 2 units of BR-1M)					
Control Mode	Energ	yy-Saving Multi Control				
Function	Automatic Restart after Power Failure, Rotary Start, Back-up Leveling Operation Hour, Switching to Conventional Control Mode					
Input	Remote Operation, Comp	oressor General Abnormal Input, Link Input				
Output	Compressor Operation, Load Reduction when Starting, External Control, Mode Control Alarm Output, General Abnormal Output, Operation Answer, Link Output					
0 1 10 '5 '5	Resistance Load(COS φ=1) AC250V 5A	Military A. II. II. I. I. DOFFVAO. A				
Contact Specification	Induction Load(COS ϕ =0.4) AC250V 1.5A	Minimum Application Load DC5V 10mA				
Control Pressure	0.2 - 1.4 MPa					
Power Source	Single Phase 100 – 220V (50/60Hz)					
Power Capacity	10VA					
External Dimension (W×D×H)	350×120×300 mm					
Ambient Tempereture · Humidity		0~40°C ⋅ 85%				
Pressure Pipe Connection Port	Rc1/4					
Terminal Screw Size	M3					
Weight	6kg					
	6. In casi ik. it is no	e which is over the max pressure of the compressor connected can not be used e of connecting with reciprocating BEBICON which has load reduction function t possible to use below cut-in pressure of 0.54MPa. e of connecting with package oil-lubricated BEBICON, a PCB with external I/O is sary.				

- BR-1M with compressor of other brands.

 2. It is necessary to install an air receiver tank.

 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