

Asia & Oceania

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(Industrial Components & Equipment

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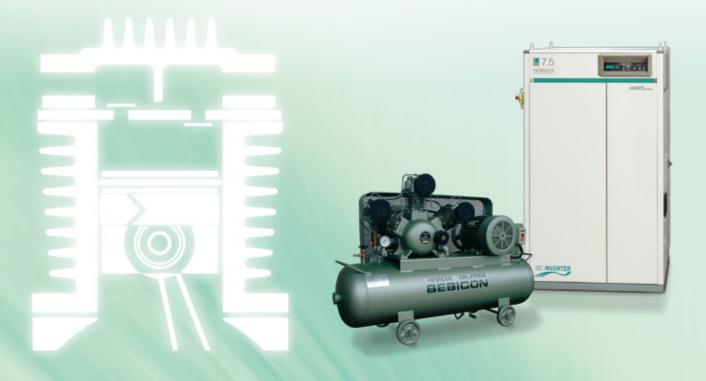
- Follow the instructions described in the instruction manual. For details, contact your nearest Hitachi representative office.
- Do NOT use the air compressors to compress any gas other than air.
- Hitachi air compressors are not designed, intended or approved for breathing air applications.
- Do NOT modify the air compressor 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 products for its customers.

For further information, please contact your nearest sales representative.

Hitachi BEBICON COMPRESSOR



Innovation, Performance and Reliability



BEBICON

GENERAL CATALOG





THREE MILLION accumulative shipments High Quality and High Reliability with Long History — Hitachi BEBICON



Hitachi is one of the oldest Japanese air compressor manufacturers. **BEBICON** debuted in 1946 as registered trademark of **Hitachi** small air compressor.

BEBICON is used in various areas of industry, such as engineering and metalworking industry, mining industry and building industry.

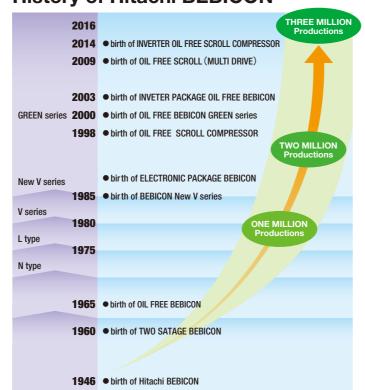
Hitachi has achieved **ONE Million** product shipments by *1979*, **TWO Million** by *1994*, and **THREE Million** by *2016*.

Hitachi has introduced compressors of Oil-free type, Package type and Scroll type, always one-step ahead of the customers' needs.

Hitachi developed and introduced INVERTER PACKAGE OIL FREE BEBICON and OIL FREE Booster BEBICON to meet customers' need of energy-saving and environment protection.

Hitachi believes that our **BEBICON** compressor can satisfy your various needs and help you grow your business.

History of Hitachi BEBICON®



List of Model

Model				Reciprocating				Scroll	
Type Rated Output	OIL FREE	BEBICON	Oil-l	Lubricated BEBIC	CON	OIL FREE Boo	ster BEBICON	OIL FREE Scroll Air Compressor	
(kW)	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								•	
33								•	
	lloader Control ON e Switch Control C				ECOMODE Control/PUSC Contorol Inverter Drive Control Medium Pressu Model Available				

Control Method

Auto Unloader Control/Pressure Switch Control

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.

Multi-Drive Control

How to choose a BEBICON compressor

- 1) Select type of compressor according to your requirement
- 2 Select necessary pressure and air capacity.

As reference, necessary pressure should be 0.2MPa higher than the working pressure in need, and necessary air capacity should be 10 to 20% more than the one in need. (Air capacity indicated in this catalog is value at max discharge pressure and converted at its inlet condition)

Select rated output based on the selected pressur and capacity.

- ③ Select appropriate control method.
- ④ Confirm the details of power source (Voltage / Phase Frequency)
- (5) Confirm if there is any regulation on noise control.

Note: Make sure to confirm the frequency of power source when placing an order Please notice that oil may emulsify in case of over intermittent operation for oil-lubricated type.

The above is for your reference. For specific model selection, contact your nearest dealer or Hitachi local representative office.

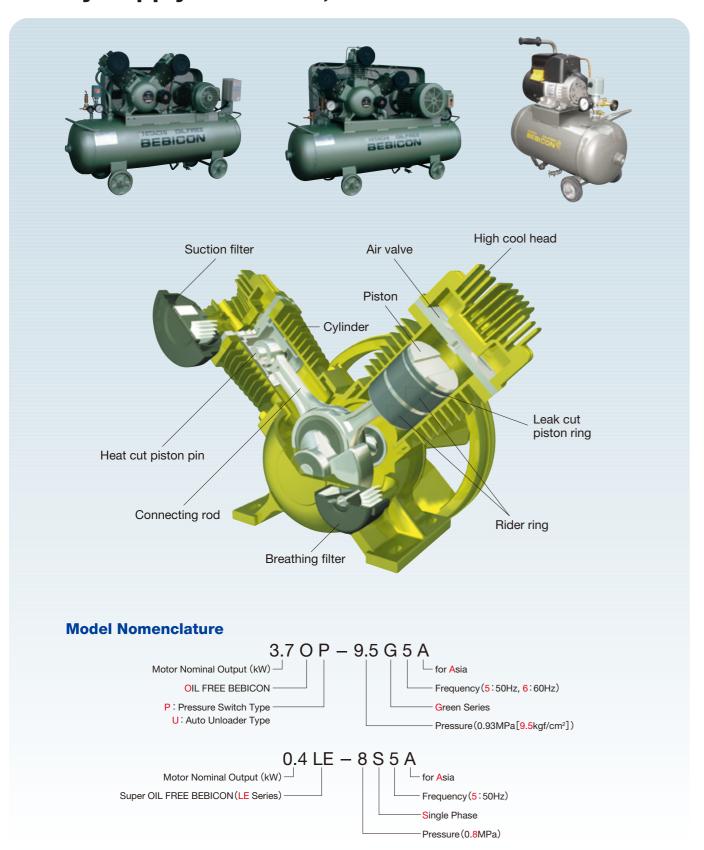
В	EBICON compressor
ent.	Selecting Procedure
her city	① Lubrication type Oli Free Air (oil lubricated compressor) Oil Free Air (oil free compressor)
city and	Pressure Capacity (MPa) (L/min)
ure	Power (kW)
se /	Pressure Switch Control Automatic Unloader Control
oe /	Control method Pusc Control Inverter Control
rder.	Power source Voltage, Phase, Frequency
n for your	Noise Control Law PACKAGE BEBICON (lubricated) OIL FREE PACKAGE BEBICON (oil free) OIL FREE SCROLL (oil free)

2



OIL FREE BEBICON (0.4-11kW)

Steady Supply of Oil-free, Pure Air



Features Oil-free Air Supply, High Performance, Durable Design, Long Overhaul Cycle

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 improves durability against rusting.



Top Sid

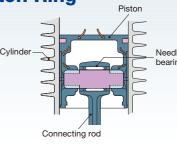


Back Side

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 Cylinder the reliability.

Leak Cut Piston Ring of specially shaped abutment joint reduces air leakage and improves air capacity.





Specifications (Horizontal Tank Mount Type)

Control Metho	od					Pressu	ıre Switch C	ontrol				
	Model	0.4LE-8S5A	0.750P-9.5GS5A	0.75OP-9.5G5A	1.50P-9.5GS5A	1.50P-9.5G5A	2.20P-9.5GS5A	2.20P-9.5G5A	3.70P-9.5G5A	5.5OP-9.5G5A	7.50P-8.5GA5A	110P-8.5GA5A
Item · Unit			0.750P-9.5GS6A	0.75OP-9.5G6A	1.50P-9.5GS6A	1.50P-9.5G6A	2.20P-9.5GS6A	2.20P-9.5G6A	3.70P-9.5G6A	5.5OP-9.5G6A	7.50P-8.5GA6A	110P-8.5GA6A
Motor Nominal Output	kW	0.4	0.	75	1.5		2.	2	3.7	5.5	7.5	11
Power Source	PH	1	1	3	1	3	1	3		3	3	
Max. Discharge Pressure	MPa	0.8		0.93							0.83	
Air Capacity	L/min	42	7	5	10	65	24	10	405	605	880	1,285
Air Tank Volume	L	20	8	0	8	60	9	0	125	150	235	290
Air Outlet	_				1/4B×1				3/8B×1 3/4B×1			3×1
Standard Accessories	_	Pressure Gauge, Safety Vale, Stop Valve		1	Pressure Ga	uge, Safety \	/alve, Hose	Joint, Belt Co	over, Silence	r, Stop Valve)	
External Dimensions (W×D×H)	mm	600×322 ×608	1,173×3	1,173×380×852				1,283×403 ×825	1,345×423 ×913	1,470×482 ×995	1,674×552 ×1,045	2,014×646 ×1,153
Weight	kg	40	90	85	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. The capacity of compressed air is the amount of air discharged under

The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms of air suction (atmospheric pressure. ambient temperature 20°C,humidity 60%).

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



OIL FREE BEBICON (0.4-11kW)

Specifications (Horizontal Tank Mount Type)

Control Meth	od				Auto Unioa	der Control				
	Model	1.5OU-9.5GS5A	1.5OU-9.5G5A	2.20U-9.5GS5A	2.20U-9.5G5A	3.70U-9.5G5A	5.5OU-9.5G5A	7.5OU-8.5GA5A	110U-8.5GA5A	
Item · Unit		1.5OU-9.5GS6A	1.5OU-9.5G6A	2.20U-9.5GS6A	2.20U-9.5G6A	3.70U-9.5G6A	5.5OU-9.5G6A	7.5OU-8.5GA6A	110U-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			0.9	93			0.83		
Air Capacity	L/min	16	5	24	10	405	605	880	1,285	
Air Tank Volume	L	80)	9	0	125	150	235	290	
Air Outlet	-		1/48	3×1		3/88	3×1	3/4B×1		
Standard Accessories	_		Pre	ssure Gauge, Saf	ety Valve, Hose J	loint, Belt Cover,	Silencer, Stop Va	alve		
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

the maximum pressure converted in terms of air suction (atmospheric pressure.

no freeze of drain water) to 40°C. 2. The capacity of compressed air is the amount of air discharged under

ambient temperature 20°C, humidity 60%)

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



OIL FREE Booster BEBICON (1.5-11kW)

Energy-Saving and Improvement of Specific Energy Consumption is Possible by Local Pressurerising







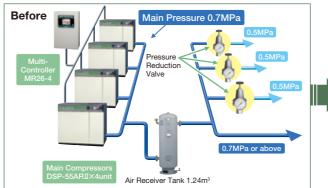
OIL FREE Booster BEBICON (1.5-11kW)

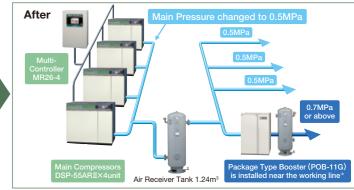
Energy-Saving Simulation after replacing pressure reduction valves with OIL FREE Booster BEBICON

Calculation Conditions

●DSP-55kW×4 units controlled by Multi-Controller, Operation Rate 78% ● Discharge Pressure 0.7MPa, average use of compressed air is 20m³/min

0.707kg/kWh is used as CO₂ emission coefficient





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

Item	· Unit	Before			After		
Power Consumption*	Main Screw Compressor	1,147	III 📥	•	927		
(MWh/year)	Booster BEBICON	0			40	□.	
Simulated Annual Power	Consumption (MWh/year)	1,147	III	•	967		
Specific Energy Consum	nption (m³/min/kW)	0.105	III	•	0.124		
CO ₂ Emission* (t-CO ₂ /y	ear)	811	III	>	684		
CO ₂ Reduction Rate (%			16	3			

180 MWh/y Energy-Saving is obtained. At the same time, 16% of CO₂ Emission

After replacing with the Booster BEBICON:

Reduction is also possible.

Specifications

*Operation time: 6.000hr/v

Tank Mounte Packaged Ty			-	Гаnk Mount Тур	е			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	17	70	28	30	35	-	_	
Air Inlet	_		Rc	3/4		Rc1	Rc	3/4	Rc1	
Air Outlet	_	G3/8B Stop Valve		Rc3/4 Stop Valve	9	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	963×693×1,224	981×786×1,492	1,197×931×1,513	
Weight	kg	66	205	261	303	357	212	290	399	

Note: 1. Air capacity is converted value under atmospheric condition from the capacity with 0.5MPa of suction pressure and maximum pressure of discharge pressure.

- 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.)

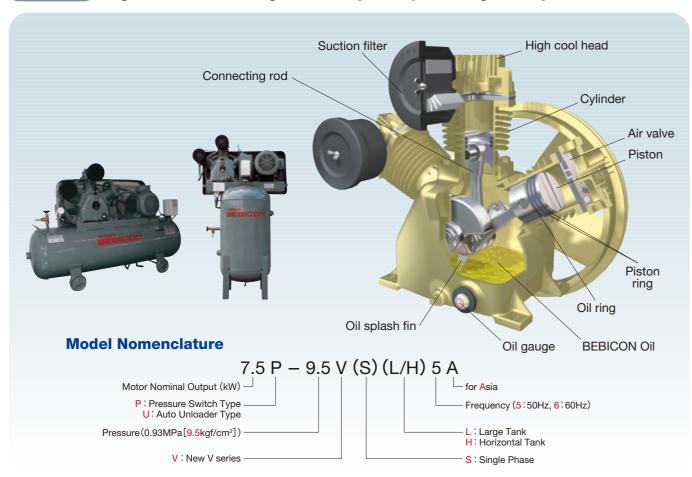
 3. It is required to install an air receiver tank of sufficient volume on the suction side to prevent drain water to enter the suction side of Booster BEBICON. It is necessary to install an air receiver for the Packaged Type. Refer to local regulations when selecting air receiver tank.
- 4. The intake 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. . Temperature of suction air must be below 50°C.
- 6. Ambient temperature must be between 0 (at which there is no freeze of drain water and 40°C.
- 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. Hitachi air compressors are not designed, intended or approved for breathing



Oil-Lubricated BEBICON (0.75-15kW)

Easy-to-Use and Durable New V series

Features High Performance, High Reliability, Compact & Light, Easy-to-Maintain



Specifications (Horizontal Tank Mount Type)

Control Metho	od					Pressure Sw	itch 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.	1.5		2.2		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	8	80	16	35	26	65	440	630	840	1,200
Air Tank Volume	L	6	52	8	0	90		125	150	235	260
Air Outlet	_			1/4	B×1	3/8B×1				3/4B×1	
Standard Accessories	_			Pressure (Gauge, Safety	Valve, Hose	Joint, Belt Co	ver, Silencer,	Stop Valve		
External Dimensions (W×D×H)	mm	931×3	76×804	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	80	75	96	85	147	126	160	202	255	326

Note: 1. Use the compressor at a place where ambient t emperature is 0 (at which there

is no freeze of drain water) to 40°C.

2. The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms of air suction (atmospheric pressure,

ambient temperature 20°C, humidity 60%).

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

Specifications (Horizontal Tank Mount Type)

-												
Control Meth	od					Auto	Unloader C	ontrol				
	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
Item · Unit		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				
Power Source	PH	1	3	1	3	1	3			3		
Max. Discharge Pressure	MPa		0.93									
Air Capacity	L/min	8	80 165 265 440 630 840 1,200							1,200	1,650	
Air Tank Volume	L	6	2	8	0	9	0	125	150	235	260	290
Air Outlet	_			1/4	3×1			3/8	3×1	3/4E	3×1	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	931×37	931×376×816							2,014×734 ×1,221		
Weight	kg	80	75	96	85	134	126	160	202	255	326	448

Specifications (Horizontal Tank Mount Type)

•											
Control Metho	od			Pre	ssure Switch Con	trol					
	Model	0.75P-9.5VL5A	1.5P-9.5VL5A	2.2P-9.5VL5A	3.7P-9.5VL5A	3.7P-14VH5A	5.5P-14VH5A	7.5P-14VH5A			
Item · Unit		0.75P-9.5VL6A	1.5P-9.5VL6A	2.2P-9.5VL6A	3.7P-9.5VL6A	3.7P-14VH6A	5.5P-14VH6A	7.5P-14VH6A			
Motor Nominal Output	kW	0.75	1.5	2.2	3.7	3.7	5.5	7.5			
Power Source	PH				3						
Max. Discharge Pressure	MPa		0.0	93			1.37				
Air Capacity	L/min	80	165	265	440	400	550	760			
Air Tank Volume	L	92	150	170	170						
Air Outlet	_		1/4B×1		3/8B×1	3/8B×1 3/4B>					
Standard Accessories	-		Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve								
External Dimensions (W×D×H)	mm	1,286×376×804	1,470×435×901	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	78	117	142	160	223	262	295			

Specifications (Vertical Tank Mount Type)

Control Metho	od		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	5.5	7.5
Power Source	PH		3	
Max. Discharge Pressure	MPa		1.23 (1.37)	
Air Capacity	L/min	400	550	760
Air Tank Volume	L		300	
Air Outlet	_		3/4B×1	
Standard Accessories	_	Pressure Gaug	e, Safety Valve, Hose Joint, Belt Cover, Silence	cer, 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. The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms of air suction (atmospheric pressure,

ambient temperature 20°C,humidity 60%). . Hitachi air compressors are not designed, intended or approved for breathing a

BEBICON OIL

Hitachi BEBICON OIL is high performance lubricating oil which is specially developed for Hitachi BEBICON compressors. To maximize Energy-Saving effects, prevent performance degradation and protect BEBICON compressors from trouble or breakdown, it is necessary to use Hitachi genuine BEBICON OIL as the ONLY lubricating oil during maintenance.







Genuine Parts

Hitachi genuine parts must be used when maintaining a Hitachi BEBICON compressor, to keep your BEBICON compressor from trouble or breakdown.



OIL FREE Scroll Air Compressor (1.5-33kW)

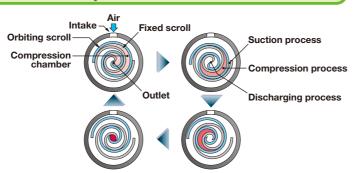


Low Noise, Low Vibration, High Reliability. Space Saving, Energy Saving with Multi-Drive Control.



Scroll Compression Principle

- 1. Compressor sucks air through air inlet located at outer scroll.
- 2. Compression chamber goes smaller with rotary movement and trapped air is compressed.
- 3. 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.
- 4. 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)







Easy to Use

Few Daily Check items and Easy to Check, Total Cost Saving

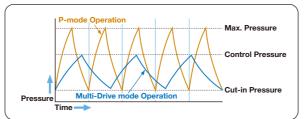
- ① No need to change oil and separate the oil from drain. No need to install oil mist filter as well.*
- 2 Well-designed structure utilizes easy maintenance of draining and cleaning of suction filters.

*In case that the suction air is thought to contain oil, it is necessary to install oil mist filter.

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.



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.

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

Specifications (Built-in Air Dryer Model)

•			-							
Control Metho	od		P-M	lode			Multi-Drive M	ode / P-Mode		
	Model	SRL-1.5DMN5	SRL-2.2DMN5	SRL-3.7DMN5	SRL-5.5DMN5	SRL-7.5DMN5	SRL-11DMN5	SRL-15DMN5	SRL-22DMN5	
Item · Unit		SRL-1.5DMN6	SRL-2.2DMN6	SRL-3.7DMN6	SRL-5.5DMN6	SRL-7.5DMN6	SRL-11DMN6	SRL-15DMN6	SRL-22DMN6	
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.7	11	16.5	22	
Max. Discharge Pressure	MPa	0.8 0.8(1.0) 0.8(1.0)								
ON-OFF Control Pressure	MPa		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)	
Dew Point of Outlet Air	°C		15 or below (u	nder pressure)			10 or below (u	nder pressure)		
Ambient Temperature	°C				5 -	40				
Starting Method					Full-Voltag	ge Starting				
Air Tank Volume	L	1	8	24	24 (necessary for extra air receiver tank)		_	_ *6		
Air Outlet	_		Rc3/8(stop	valve)×1		Rc3/	′4×1	Rc1	I×1	
External Dimensions (W×D×H)	mm	680×62	680×620×1,030 750×715×1,150 980×660×1,450 1,280×770×1,450 1,360×92						1,360×925×1,930	
Weight	kg	135	149	191	225	353 (350)	397(391)	576 (567)	799(787)	
Noise Level	dB[A]	45	46	47	50	53	56	58	61	

Without Air Dryer Model

Control Metho	od		P-M	lode		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)	0.85	0.85(1.0)	0.80(1.0)				
ON-OFF Control Pressure	MPa	0.65 - 0.85 (0.8 - 1.0)			0.65 - 0.8(0.8 - 1.0)					
Air Capacity	L/min	160	240 (200)	400	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	-		Full-Voltage Starting							
Air Tank Volume	L	18 24 (necessary for extra air receiver tank)			(necessary for extra	<u>_</u> *6				
Air Outlet	-	Rc3/8(stop Valve)×1			Rc3/4×1 Rc1×1 Rc1 1/			Rc1 1/2×1		
External Dimensions (W×D×H)	mm	680×640×1,030 750×7		750×71	5×1,070	980×660×1,190		1,280×770×1,450	1,330×880×1,900	1,360×1,030×1,670
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 value at its inlet condition. For guaranteed values, contact

your nearest dealer or Hitachi local representative office.

2. Air capacity from the air dryer is about 3% to 5% less than the one from the

compressor due to the drain condensation.

3. Noise level is measured at 1.5m front under full-load operation in an anechoic room. Noise level might be increased due to different operating conditions and / or

- environments with echo of actual field installations. 4. If the air dryer operates at the same time, the noise level may be enlarged by 1 to 2 dB [A]. 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

- model), 230L or above (22kW model), or 500L or above (33kW model). 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 (22kW model), or 700L or above (33kW model).

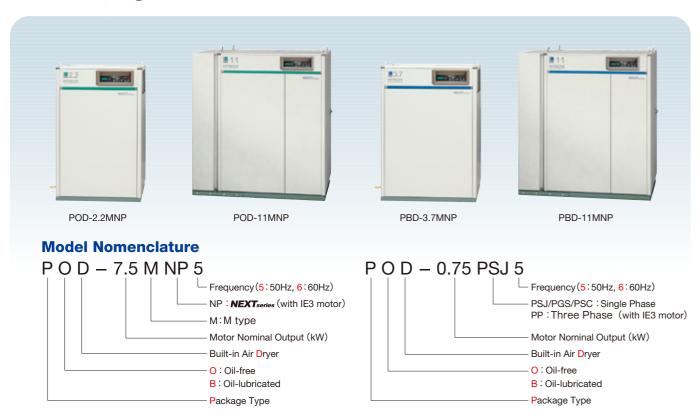
 7. External dimensions indicate the package panel ONLY, NOT including protruding
- objects as discharge outlet.
- Outlet air dew point is measured under the ambient temperature of 30°C.
- Ambient temperature must be between 0 (at which there is no freeze of drain water) and 40°C.
 1.0MPa model is optional. 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
- 6. It is necessary to install an air receiver tank with volume of 150L or above (7.7/11/16.5kW 12. Hitachi air compressors are not designed, intended or approved for breathing air applications



Package BEBICON (0.75-11kW)

- Powered by Premium Efficiency Motor (IE3)

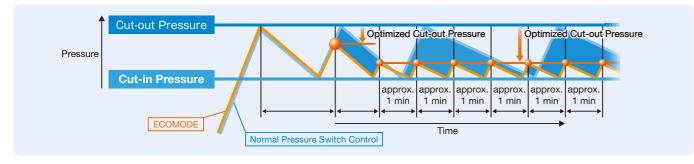
Model change to **NEXT**_{series} is complete for Package BEBICON (1.5-11kW).

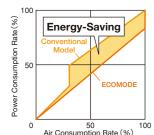


M type

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.





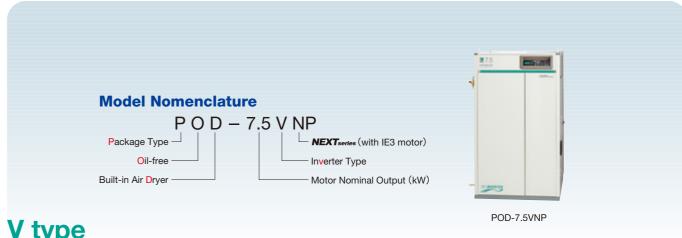
Compared with the conventional model under PUSC control, Energy-Saving of 40% when air consumption rate is 30%, or 24% when air consumption rate is 50%, or 14% when air consumption rate is 70% is possible.

(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

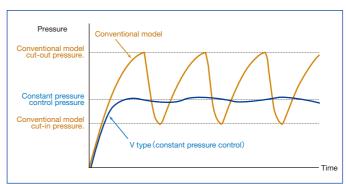
Features

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.

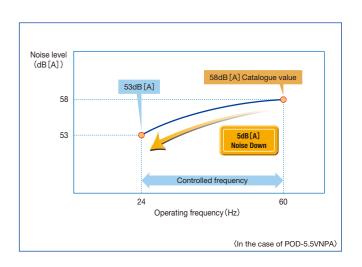
Setting pressure can be adjusted within ±0.01MPa at control

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



Sophisticated operating sound with inverter

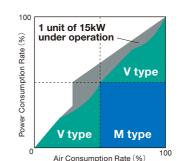
Inverter soft start reduces the starting noise. Low speed operation sound is 5 dB [A] lower than normal speed operation sound.



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



Package BEBICON (0.75-11kW)

- Powered by Premium Efficiency Motor (IE3)

Specifications

■Package OIL FREE BEBICON with Built-in Air Dryer

ackage OIL		L DEDIGO	With Dant	III All Diyo						
Control Method		Pressure Sv	itch Control		EC	OMODE/PUSC (pos	ssible for conversion	n)		
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)				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-Voltaç	ge 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)			(Internal Di	Rc1/2 Stop Valve \times 1 (Internal Diameter of Rubber Hose ϕ 12)		
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	i5	57	58	59	62	

■ Package OIL FREE BEBICON

_ ackage ci_						OMODE/DUOG/	71.6	\		
Control Method		Pressure Sv	vitch Control			OMODE/PUSC (pos	sible 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)	MPa			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-Voltage Starting Full-Voltage Starting (with unlo			with unloader-restart	nloader-restart)				
Air Outlet	_	G1/4B Stop Valve×1 (Internal Diameter of Rubber Hose φ6)		Rc3/8 Stop Valve \times 1 (Internal Diameter of Rubber Hose ϕ 12)			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		745×620×960 850×680×1,020		850×680×1,020	850×805×1,230 1,0		1,050×945×1,400	
Weight	kg	106	100	132	150	184	287	305	427	
Noise Level	dB[A]	5	2	5	55	57	58	59	62	

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

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	_	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	°C			15 or below under pressure					
Power Source	PH	1	3			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		745×62	745×620×1,150 850×680×1,18		850×805×1,440		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		Pressure Sw	ritch 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	80		165	265	440	630	840	1,200	
Power Source	PH	1	3			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)			(Internal D	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		745×620×960 850×68		850×680×1,120	850×80	5×1,230	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 decision with).

 - 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 (Automatic switch between constant pressure control and pressure 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	3.0	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	0.58 - 0.86						
Dew-Point of Outlet Air	°C	15 or below under pressure							
Starting Method	_	Inverter							
Air Outlet	_	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	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

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. Detailed and direct setting of control pressure is possible.

Specifications

Content					
BEBICON, OIL FREE BEBICON, Package (OIL FREE) BEBICON Inverter Controlled Package OIL FREE BEBICON OIL FREE Scroll Compresor (Multi-Drive)					
Max. 4 (Up to	8 by linking 2 units of BR-1M)				
Energ	y-Saving Multi Control				
Automatic Restart after Power Failure, Rotary Start, Back-up Leveling Operation Hour, Switching to Conventional Control Mode					
Remote Operation, Comp	ressor General Abnormal Input, Link Input				
Compressor Operation, Load Reduction when Starting, External Control, Mode Control Alarm Output, General Abnormal Output, Operation Answer, Link Output					
Resistance Load(COS <i>φ</i> =1) AC250V 5A	Minimum Application Load DC5V 10mA				
Induction Load(COS ϕ =0.4) AC250V 1.5A	Minimum Application Load DC5V 10mA				
0.2 – 1.4 MPa					
Single Phase 100 – 220V (50/60Hz)					
10VA					
350×120×300 mm					
0~40°C⋅85%					
Rc1/4					
M3					
Weight 6kg					
	Inverter Controll OIL FREE Sc Max. 4 (Up to Energ Automatic Restart afte Leveling Operation Hour, Remote Operation, Comp Compressor Operation, Load Redu Alarm Output, General Abno Resistance Load(COS φ = 1) AC250V 5A Induction Load(COS φ = 0.4) AC250V 1.5A Single Ph				

- 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 a magnetic switch if the compressor is not equipped with one.
 3. It is necessary to install a magnetic switch if the compressor is not equipped with one.

 - 1. BR-1M is declicatedly designed for intactification and control. Both of control.

 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.