

Products described in this catalog may differ from different countries or regions. Contact your nearest Hitachi representative office for details.

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HITACHI BEBICON COMPRESSOR

Innovation, Performance and Reliability





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 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.

Hitachi Industrial Equipment Systems Co., Ltd.

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Hitachi Mexico, S.A. de C.V.



HITACHI **Inspire the Next**





TWO MILLION accumulative shipments High Quality and High Reliability with Long History - HITACHI BEBICON

OWNER

OIL FREE Booster BEBICON Package Oil-free Booster BEBICON

OIL FREE Scroll Air Compresso



OIL FREE BEBICON G-series



BEBICON New V-series



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.

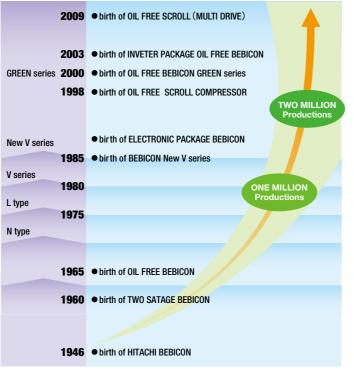
HITACHI has achieved **ONE Million** product shipments by *1979* and **TWO Million** by *1994*.

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-I	Lubricated BEBIC	ON	OIL FREE Boo	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								•
Auto Unloader Control ONLY ECOMODE Control/PUSC Control Medium Pressure (1.23 Pressure Switch Control ONLY Inverter Drive Control Model Available Auto Unloader Control/Pressure Switch Control Multi-Drive Control Model Available								

Control Method

Auto Unloader Control	Automatically switch between Load/Unload operation
Pressure Switch Control	Automatically Start/Stop the operation of compress Energy-saving is possible when compressed air is N
PUSC Control	PUSC (Pressure Unloader Select Control) Automatically select between Pressure Switch Type the control of microcomputer
Inverter Control	Pressure can be maintained between certain levels
Multi-Drive Control	Automatically control the number of compressor he Energy-saving can be obtained.
ECOMODE Control	Optimized max pressure is automatically controlled Energy-saving can be obtained.

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 pressure and capacity.

- Select appropriate control method.
- ④ Confirm the details of power source (Voltage / Phase / ③ 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.

tion by the pressure adjustment valve

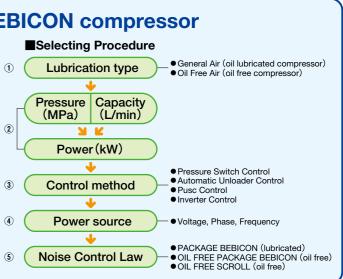
ssor in order to maintain certain range of pressure NOT needed, since motor stops.

be and Auto Unloader Type to respond to the need of compressed air under

under inverter drive. Energy-saving can be obtained.

neads in operation to respond to the need of compressed air

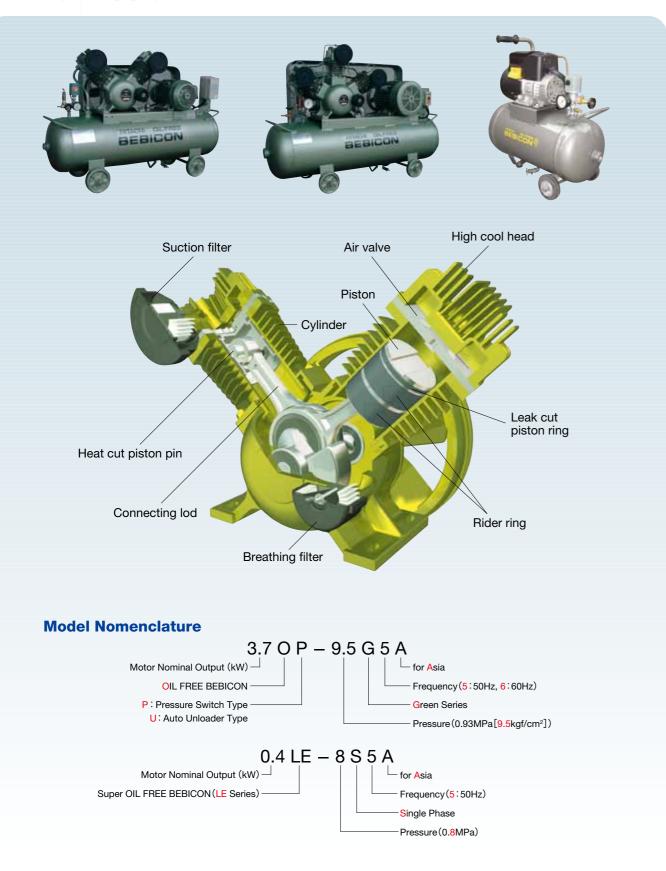
ed by monitoring the condition of air delivery.





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.





Heat Cut Piston Pin & Leak Cut Piston Ring

Dischar chambe

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 Cylinde the reliability.

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

Specifications (Horizontal Tank Mount Type)

- Control Meth	od				Auto Unioa	der Control					
	Model	1.50U-9.5GS5A	1.50U-9.5G5A	2.20U-9.5GS5A	2.20U-9.5G5A	3.70U-9.5G5A	5.50U-9.5G5A	7.50U-8.5GA5A	110U-8.5GA5A		
Item · Unit		1.50U-9.5GS6A	1.50U-9.5G6A	2.20U-9.5GS6A	2.20U-9.5G6A	3.70U-9.5G6A	5.50U-9.5G6A	7.50U-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	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/min	8)	9	0	125	150	235	290		
Air Outlet	-		1/48	3×1		3/88	B×1	3/4	B×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 con	lote: 1. Use the compressor at a place where ambient temperature is 0 (at which there is ambient temperature 20°C, humidity 60%).										

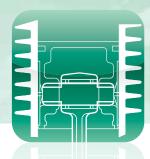
te: 1. Use the compressor at a place where no freeze of drain water) to 40°C.

ambient temperature 20°C, humidity 60%).3. Hitachi air compressors are not designed, intended or approved for breathing air 2. The capacity of compressed air is the amount of air discharged under applicatio

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

Connecting roo

HEAT CUT PISTON PIN



OIL FREE BEBICON (0.4–11kW)

Specifications (Horizontal Tank Mount Type)

Control Meth	od					Press	ure Switch C	ontrol				
	Model	0.4LE-8S5A	0.750P-9.5GS5A	0.750P-9.5G5A	1.50P-9.5GS5A	1.50P-9.5G5A	2.20P-9.5GS5A	2.20P-9.5G5A	3.70P-9.5G5A	5.50P-9.5G5A	7.50P-8.5GA5A	110P-8.5GA5A
Item · Unit		0.4LE-035A	0.750P-9.5GS6A	0.750P-9.5G6A	1.50P-9.5GS6A	1.50P-9.5G6A	2.20P-9.5GS6A	2.20P-9.5G6A	3.70P-9.5G6A	5.50P-9.5G6A	7.50P-8.5GA6A	110P-8.5GA6A
Motor Nominal Output	kW	0.4	0.75		1.	1.5		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	7	75 165 240 405 605					880	1,285		
Air Tank Volume	L/min	20	8	0	8	80		0	125	150	235	290
Air Outlet	-				1/4B×1				3/8	B×1	3/4B×1	
Standard Accessories	_	Pressure Gauge, Safety Vale, Stop Valve		l	Pressure Ga	uge, Safety V	/alve, Hose	Joint, Belt Co	over, Silence	er, Stop Valve	e	
External Dimensions (W×D×H)	mm	600×322 ×608	1,173×3	1,173×380×852 1,173×431 1,173×393 1,283×434 ×825 1,283×403 ×913 1,470×482 1 ×897 ×825 ×825 ×825 ×913 ×995 1					1,674×552 ×1,045	2,014×646 ×1,153		
Weight	kg	30	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.

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

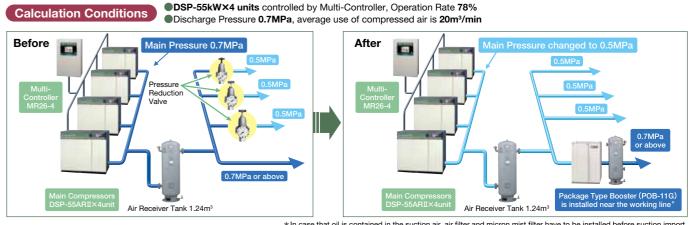
ambient temperature 20°C, humidity 60%). 3. Hitachi air compressors are not designed, intended or approved for breathing ai applications

OIL FREE Booster BEBICON (1.5-11kW)

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



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



Effect

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

Elleot				
Item	• Unit	Before		Afte
Power Consumption*	1,147		927	
(MWh/year)	Booster BEBICON	0		40
Simulated Annual Power	Consumption (MWh/year)	1,147		967
Specific Energy Consum	ption (m ³ /min/kW)	0.105		0.124
CO2 Emission* (t-CO2/ye	ear)	811		684
CO ₂ Reduction Rate (%))		16	
* Operation time: 6,000hr/y	g/kWh is used as	s CO2 emi	ssion co	

Specifications

Tank Mounte Packaged Ty			Ta	ank Mounted Ty	ре			Packaged Type		
	Model	OBB-1.5GB5	OBB-3.7G5A	OBB-7.5G5A	OBB-7.5HB5	OBB-11GB5	POB-3.7G5	POB-7.5G5	POB-11G5	
Item · Unit		OBB-1.5GB6	OBB-3.7G6A	OBB-7.5G6A	OBB-7.5HB6	OBB-11GB6	POB-3.7G6	POB-7.5G6	POB-11G6	
Motor Nominal Output	kW	1.5 3.7 7			.5	11	3.7	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/min	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 1,774×553×968		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	64 180 261			285	331	207	288	397	

Note: 1. Air capacity is converted value under atmospheric condition from the capacity with 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 surface pressure holds). NOt he subvision constrained and NOT he obtained.

suction pressure below 0.2MPa, however, energy-saving can NOT be obtained.)
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,

OIL FREE Booster BEBICON (1.5-11kW)



After replacing with the Booster BEBICON: 180 MWh/y Energy-Saving is obtained. At the same time, **16%** of CO₂ Emission Reduction is also possible.

install air filter and micron filter on the suction side of the Booster BEBICON

Temperature of suction air must be below 50°C.
 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 Chin

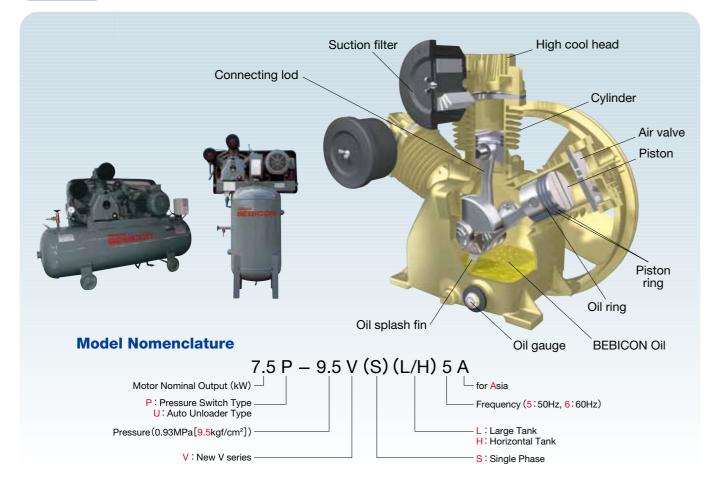
(Mainland) due to the pressure vessel regulations. For details, contact your nearest dealer or HITACHI local representative office.

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

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 Method Auto Unloader Control												
Control Metho												
	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	1.5		.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	8	0	16	65	20	65	440	630	840	1,200	1,650
Air Tank Volume	L	6	2	8	80		0	125	150	235	260	290
Air Outlet	_			1/4	B×1			3/88	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	931×376×816 1,173×418 1,173×38 ×867 ×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

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 applications

Specifications (Horizontal Tank Mount Type)

Control Metho	bd					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	.5	2.	2.2		5.5	7.5	11	
Power Source	PH	1	3	1	3	1	3		:	3		
Max. Discharge Pressure	MPa					0.9	93					
Air Capacity	L/min	8	0	16	65	26	65	440	630	840	1,200	
Air Tank Volume	L	6	62	8	0	90		125	150	235	260	
Air Outlet	-			1/4	B×1	3/8B×1				3/4	3×1	
Standard Accessories	-			Pressure 0	Gauge, Safety	Valve, Hose	Joint, Belt Cov	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	

Specifications (Horizontal Tank Mount Type)

•									
Control Methe	bd			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		0.9	93			1.37		
Air Capacity	L/min	80	165	265	440	400	550	760	
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	e Gauge, Safety Valv	ve, Hose Joint, Belt	Cover, Silencer, St	op 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 Meth	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, Silend	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

pressure converted in terms of air suction (atmospheric pressure,

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.

ambient temperature 20°C.humidity 60%).

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

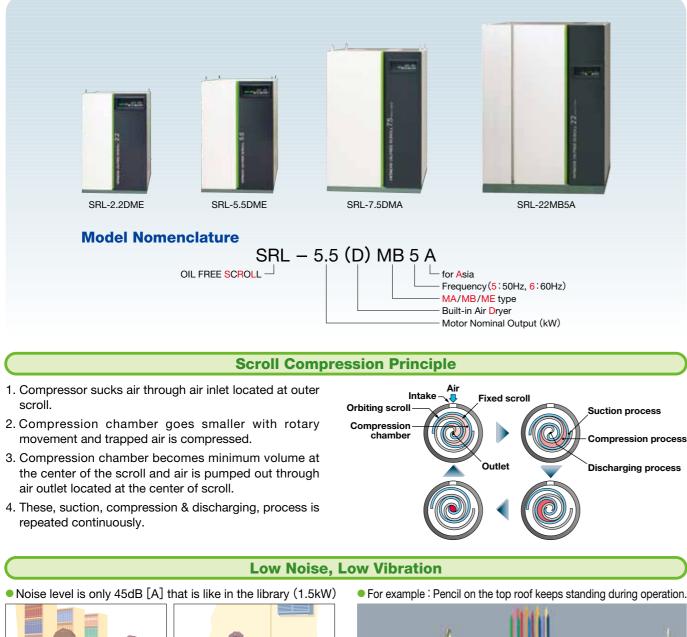






OIL FREE Scroll Air Compressor (1.5-33kW)

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



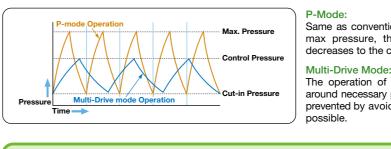
Easy to Use

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.

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.



Space Saving

As the back and right side is flat, and with the adoption of exhaust from top roof, it is possible to install the air compressor with two sides just close to the walls. So, installation space is greatly saved. *It is still necessary to secure space for maintenance.

Specifications (Built-in Air Dryer Model)

-													
Control Metho	bd		P-M	ode			Multi-Drive M	ode / P-Mode					
	Model	SRL-1.5DME5	SRL-2.2DME5	SRL-3.7DME5	SRL-5.5DME5	SRL-7.5DMA5	SRL-11DMA5	SRL-15DMA5	SRL-22DMA5				
Item · Unit		SRL-1.5DME6	SRL-2.2DME6	SRL-3.7DME6	SRL-5.5DME6	SRL-7.5DMA6	SRL-11DMA6	SRL-15DMA6	SRL-22DMA6				
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.7	11	16.5	22				
Max. Discharge Pressure	MPa		0.8(1.0)										
ON-OFF Control Pressure	MPa		0.65 - 0.8 (0.8 - 1.0)										
Air Capacity	L/min	168	252(200)	420	630(500)	880(700)	1,260(1,000)	1,890(1,500)	2,520(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	o Valve)×1		Rc3/	/4×1	R1	×1				
External Dimensions (W×D×H)	mm	680×62	0×1,030	750×71	5×1,150	980×660×1,450		1,280×770×1,450	1,360×925×1,930				
Weight	kg	134	144	188	203	332(329)	365(359)	528(519)	735(723)				
Noise Level	dB[A]	45	46	47	50	53	56	58	61				
-		-	•										

Without Air Drver Model

Control Metho	bd		P-M	lode			Multi-I	Drive Mode / P	-Mode		
	Model	SRL-1.5MB5	SRL-2.2MB5A	SRL-3.7MB5A	SRL-5.5MB5A	SRL-7.5MB5A	SRL-11MB5A	SRL-15MB5A	SRL-22MB5A	SRL-33MB5A	
Item · Unit		SRL-1.5MB6	SRL-2.2MB6A	SRL-3.7MB6A	SRL-5.5MB6A	SRL-7.5MB6A	SRL-11MB6A	SRL-15MB6A	SRL-22MB6A	SRL-33MB6A	
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.7	11	16.5	22	33	
Max. Discharge Pressure	MPa	0.8		0.85(1.0)				0.80(1.0)			
ON-OFF Control Pressure	MPa	0.65 - 0.8	0.65	<u>5</u> - 0.85(0.8 -	1.0)	0.65 - 0.8(0.8 - 1.0)					
Air Capacity	L/min	168	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	-				Fu	II-Voltage Start	ing				
Air Tank Volume	L	1	8	24	24 (necessary for extra air receiver tank)			*6			
Air Outlet	-		Rc3/8(sto	o Valve)×1		Rc3/	/4×1	R1	×1	Rc1 1/2×1	
External Dimensions (W×D×H)	mm	680×620×1,030	680×640×1,030	750×715×1,070		980×66	0×1,190	1,280×770×1,450	1,330×880×1,900	1,360×1,030×1,670	
Weight	kg	117	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

- Air capacity is converted value at its infet condition. For guaranteed values, contact your nearest dealer or HITACHI local representative office.
 Air capacity from the air dryer is about 3% to 5% less than the one from the compressor due to the drain condensation.
 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]. 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

Energy-Saving with Multi-Drive Control

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

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). External dimensions indicate the package panel ONLY, NOT including protruding

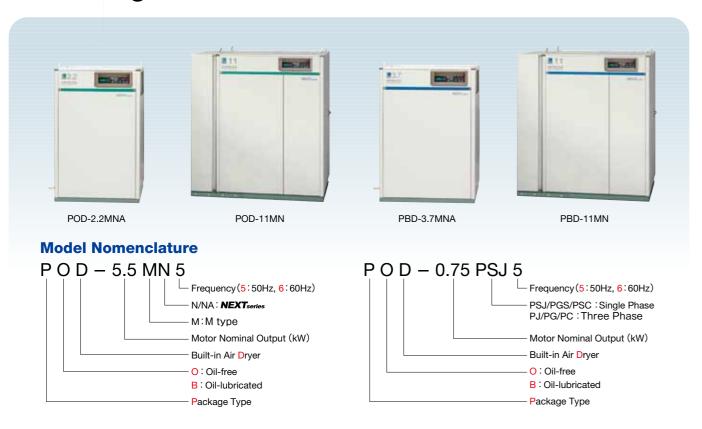
objects as discharge outlet.

8. 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. 10. 1.0MPa model is optional.

ome 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. 12. Hitachi air compressors are not designed, intended or approved for breathing air applications. 10

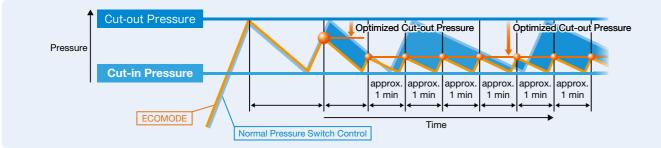
Model change to **NEXT**series is complete for Package BEBICON (1.5-15kW).

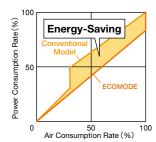


M type

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



V type

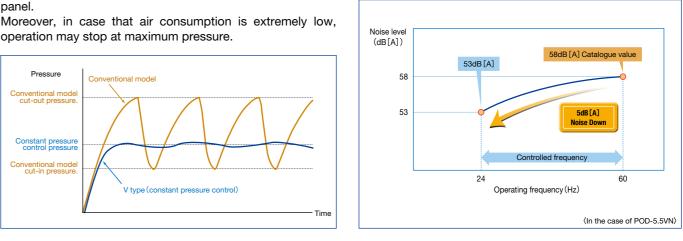
Features

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 panel.

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



Energy-Saving by V-M combination

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



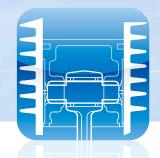
Sophisticated operating sound with inverter

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

Effect

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 (0.75-15kW)

Specifications

■Package OIL FREE BEBICON with Built-in Air Dryer

Control Method		Pressure Sw	vitch Control	ECOMODE/PUSC (possible				conversion)		
Output	kW	0.	75	1.5	2.2	3.7	5.5	7.5	11	15
Item · Unit Model	-	POD-0.75PSJ5 POD-0.75PSJ6	POD-0.75PJ5 POD-0.75PJ6	POD-1.5MNA5 POD-1.5MNA6	POD-2.2MNA5 POD-2.2MNA6	POD-3.7MNA5 POD-3.7MNA6	POD-5.5MN5 POD-5.5MN6	POD-7.5MN5 POD-7.5MN6	POD-11MN5 POD-11MN6	POD-15MN5 POD-15MN6
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			605	875	1,280	1,700
Dew-Point of Outlet Air	°C	15 or below under pressure								
Power Source	PH	1	3	3						
Starting Method		Full-Voltag	e Starting	Full-Voltage Starting (with unloader-restart)						
Air Outlet	-	G1/4B Sto (Internal Diameter o	p Valve×1 f Rubber Hose φ6)	F (Internal Dia	Rc3/8 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 12)		Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 12)			Rc1 Stop Valve×1
Built-in Air Tank Volume	L	3	0		35		32			
Recommended Air Tank Volume (additional)	L	-	-	38	55	95	150	230	280	430
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	1,353×945×1,400
Weight	kg	129	121	157	171	209	306	324	481	548
Noise Level	dB[A]	52		55		57	58	59	62	66

Package OIL FREE BEBICON

Control Method Pro		Pressure Sw	vitch Control	ECOMODE/PUSC (possible for conversion)							
Output	kW	0.	75	1.5	2.2	3.7	5.5	7.5	11	15	
Item · Unit Model	-	PO-0.75PGS5 PO-0.75PGS6	PO-0.75PG5 PO-0.75PG6	PO-1.5MN5 PO-1.5MN6	PO-2.2MN5 PO-2.2MN6	PO-3.7MN5 PO-3.7MN6	PO-5.5MN5 PO-5.5MN6	PO-7.5MN5 PO-7.5MN6	PO-11MN5 PO-11MN6	PO-15MN5 PO-15MN6	
Max. Discharge Pressure (ON-OFF Control Pressure)	MPa			0.93 (0.78 - 0.93)			0.85 (0.7 – 0.85)				
Air Capacity	L/min	75		165	240	405	605	875	1,280	1,700	
Power Source	PH	1 3 3					3				
Starting Method	—	Full-Voltag	ge 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)			Rc1 Stop Valve×1	
Built-in Air Tank Volume	L	3	0		35		32				
Recommended Air Tank Volume (additional)	L	-		38	55	95	150	230	280	430	
External Dimensions(W×D×H)	mm	640×537×867		745×620×960 850×		850×680×1,020	850×80	5×1,230	1,050×94	5×1,400	
Weight	kg	106	98	131	145	181	271	288	405	458	
Noise Level	dB[A]	5	2	5	5	57	58	59	62	66	

Package Oil-lubricated BEBICON with Built-in Air Dryer

Control Method		Pressure Sw	itch 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-0.75PJ5 PBD-0.75PJ6	PBD-1.5MNA5 PBD-1.5MNA6	PBD-2.2MNA5 PBD-2.2MNA6	PBD-3.7MNA5 PBD-3.7MNA6	PBD-5.5MN5 PBD-5.5MN6	PBD-7.5MN5 PBD-7.5MN6	PBD-11MN5 PBD-11MN6	
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	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 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	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	117	103	149	168	206	298	332	470	
Noise Level	dB[A]	5	2	5	53		56		59	

Package Oil-lubricated BEBICON

13

Control Method		Pressure Sw	vitch Control	ECOMODE/PUSC (possible for conversion)						
Output	kW	0.75		1.5	2.2	3.7	5.5	7.5	11	
Item · Unit	-	PB-0.75PSC5 PB-0.75PSC6	PB-0.75PC5 PB-0.75PC6	PB-1.5MN5 PB-1.5MN6	PB-2.2MN5 PB-2.2MN6	PB-3.7MN5 PB-3.7MN6	PB-5.5MN5 PB-5.5MN6	PB-7.5MN5 PB-7.5MN6	PB-11MN5 PB-11MN6	
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-Voltag	ge 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	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>		850×680×1,120	850×80	5×1,230	1,050×945×1,400	
Weight	kg	88	80	123	143	178	263	295	394	
Noise Level	dB[A]	52		5	53			56		

Note: 1. Air capacity is converted volume at its inlet condition (atmospheric pressure ambient

Air capacity is converted volume at its inter condition (atmospheric pressure ambient temperature 20°C,humidity 60%). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.
 [ECOMODE] is set a default control method for **NEXT**_{artest} when shipment.
 Control pressure (ON-OFF) is default pressure set when shipment. When [ECOMODE] is selected, control pressure (OFF) may decrease due to condition.
 Air capacity of built-in dryer model may decrease by 3-5% when drain condensates.
 Noise level is measured value at a distance of 1.5m from the unit in an anechoic room at full load oncertion.

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.
 Noise level may increase by 1-2dB[A] when refrigerant air dryer operates.
 Ambient temperature must be between 0 to 40°C. (for built-in air dryer model, 5-40°C at which a force of environment.

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

such as stop valve.

Do NOT use wining 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.
 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.
 To full withing the Grady Science of the COMODE and regime energy efficient 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.

 Rust-proof air dryer is available as an option.
 Hitachi air compressors are not designed, intended or approved for breathing air applications.

Specifications

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

		<u> </u>		-					
Control Method		Invert	er (Automatic switch between constant p	pressure control and pressure switch con	ntrol)				
Output	kW	5.5	7.5	15					
Item · Unit Model	-	POD-5.5VN	POD-7.5VN	POD-11VN	POD-15VN				
Max. Discharge Pressure	MPa	0.93		0.85					
Air Capacity under constant pressure control (at intial setting)	L/min	630 (@0.81MPa)	910 (@0.73MPa)	1,770(@0.73MPa)					
Range of Constant Pressure Control	MPa	0.58 – 0.86	0.58 - 0.86 0.58 - 0.78						
Dew-Point of Outlet Air	°C		15 or below under pressure						
Starting Method	-		Inverter						
Air Outlet	-	Rc1	Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose φ12) Rc1 Stop Valve×1						
Built-in Air Tank Volume	L		3	2					
Necessary Air Tank Volume(additional)	L	150 or above 230 or above							
External Dimensions (W×D×H)	mm	850×80	5×1,440	1,302×945×1,400	1,552×945×1,400				
Weight	kg	320	338	502	595				
Noise Level	dB[A]	58	59	62	66				

 Note:
 1. Air capacity under constant pressure control may vary down to 40% of the above value du to variable speed control in case that air consumption is low.
 5. Ambient temperature must be between 5 - 40°C at which no freeze of drain water.

 Operation when air capacity is about 40% will stop at operation pressure in case that the
 5. Ambient temperature must be between 5 - 40°C at which no freeze of drain water.

 0. Deve point of outlet air is under ambient temperature of 30°C.
 7. External dimension shows the dimension of panels. It does NOT include protruding objects

pressure+0.06MPa. 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

 Operation when air capacity is about 40.70 with stop at operation, 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.
 such as stop valve.

 Air capacity of built-in dryer model may decrease by 3-5% when drain condensates.
 Noise level is measured value at a distance of 1.5m from the unit in an anechoic room at full load operation.
 Noise level is measured value at a distance of 1.5m from the unit in an anechoic room at full load operation.
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 Noise level is measured value at a distance of 1.5m from the unit in an anechoic room at full load operation.
 Noise level is measured in the regulation or long wiring which causes the voltage drop of 2% or more during operation.

 11
 Witch air compressors ore not designed.
 No Rust provide in dryer is available as an option.

 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. applications.

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

HITACHI BEBICON ROLLER (BR-1M)



under the latest Energy-Saving Control.

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

Various Functions

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	Energy-Saving Multi Control						
Function	Automatic Restart after Power Failure, Rotary Start, Back-up Leveling Operation Hour, Switching to Conventional Control Mode						
Input	Remote Operation, Compressor 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						
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						
Terminal Screw Size	M3						
Weight	6kg						
Weight Note: 1. BR-1M is dedicatedly designed for Hitao BR-1M with compressor of other brands. 2. It is necessary to install an air receiver tank	hi BEBICON unit control. Do NOT connect 5. Pressue which is over the max pressure of the compressor connected can not be 6. In case of connecting with reciprocating BEBICON which has load reduction fu						

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

Newly developed Energy-Saving Control

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

Response to Inverter Controlled Package OIL FREE BEBICON and Multi-Drive SRL

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.

> 7. In case of connecting with package oil-lubricated BEBICON, a PCB with external I/O is necessary