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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.

OHitachi Industrial Equipment Systems Co., Ltd.

For further information, please contact your nearest sales representative.



HITACHI **Inspire the Next**





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

0.00



OIL FREE BEBICON G-series

Vertical Tank

Mount BEBICON



or descript

Package BEBICON

Package OIL FREE BEBICON



Package Oil-free Booster BEBICON



History of Hitachi BEBICON®



List of Model

Model Type				Reciprocating				Scroll
Rated	OIL FREE	BEBICON	Oil-I	Lubricated BEBIC	CON	OIL FREE Boo	oster 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								•
Auto Unloader Control ONLY ECOMODE Control/PUSC Contorol Medium Pressure (1.23/1.37MPa) 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 operat
Pressure Switch Control	Automatically Start/Stop the operation of compress Energy-saving is possible when compressed air is
PUSC Control	PUSC (Pressure Unloader Select Control) Automatically select between Pressure Switch Typ 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 / 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.

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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.

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.

eads 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

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

High Cooling Head

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

V-groove

Heat Cut Piston Pin & Leak Cut Piston Ring

Discharo chamb

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	bd					Pressu	re Switch C	Control					
	Model	041 5-8554	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	.5	2.	.2	3.7	5.5	7.5	11	
Power Source	PH	1	1	3	1	3	1 3			:	3		
Max. Discharge Pressure	MPa	0.8		0.93 0.83							83		
Air Capacity	L/min	42	7	5	165 240		405	605	880	1,285			
Air Tank Volume	L	20	8	0	8	0	9	0	125	150	235	290	
Air Outlet	_				1/4B×1				3/88	3×1	3/4	3×1	
Standard Accessories	_	Pressure Gauge, Safety Vale, Stop Valve		I	Pressure Ga	uge, Safety \	/alve, Hose	Joint, Belt Co	over, Silence	r, Stop Valve	e		
External Dimensions (W×D×H)	mm	600×322 ×608	1,173×3	80×852	1,173×431 ×897	1,173×393 ×897	1,283×434 ×825	1,283×403 ×825	1,345×423 ×913	1,470×482 ×995	1,674×552 ×1,045	2,014×646 ×1,153	
Weight	kg	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 ambient temperature 20°C, humidity 60%). To be the compression 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, 3. Hitachi air compressors are not designed, intended or approved for breathing air applications

HEAT CUT PISTON PIN

OIL FREE BEBICON (0.4-11kW)

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	2.2		5.5	7.5	11	
Power Source	PH	1 3 1 3 3				3				
Max. Discharge Pressure	MPa		·	0.	93			0.83		
Air Capacity	L/min	16	65	24	40	405	605	880	1,285	
Air Tank Volume	L	8	0	9	0	125	150	235	290	
Air Outlet	-		1/4	B×1		3/8	B×1	3/4	B×1	
Standard Accessories	-		Pre	ssure Gauge, Sat	fety Valve, Hose	Joint, Belt Cover,	Silencer, Stop V	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 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.

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

Effect

* In	n case	that	oil	is	CO

Item	• Unit	Before		Aft
Power Consumption*	Main Screw Compressor	1,147	•	92
(MWh/year)	Booster BEBICON	0		40
Simulated Annual Power	Consumption (MWh/year)	1,147		96
Specific Energy Consum	ption (m ³ /min/kW)	0.105		0.1
CO2 Emission* (t-CO2/ye	ear)	811		68
CO ₂ Reduction Rate (%)		16		
* Operation time: 6,000hr/y	g/kWh is used as	s CO2 emi	ssion o	

Specifications

Tank Mounte Packaged Ty	d/ pe		١	Fank Mount Typ	e			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	1.5 3.7		.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	a 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 St	op 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.

ntained in the suction air, air filter and micron mist filter have to be installed before suction imp

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. 5. 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 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)

						D 0					
Control Metho	ba					Pressure Sw	litch Control				
	Model	0.75P-9.5VS5A	0.75P-9.5V5A	1.5P-9.5VS5A	1.5P-9.5V5A	2.2P-9.5VS5A	2.2P-9.5V5A	3.7P-9.5V5A	5.5P-9.5V5A	7.5P-9.5V5A	11P-9.5V5A
Item · Unit		0.75P-9.5VS6A	0.75P-9.5V6A	1.5P-9.5VS6A	1.5P-9.5V6A	2.2P-9.5VS6A	2.2P-9.5V6A	3.7P-9.5V6A	5.5P-9.5V6A	7.5P-9.5V6A	11P-9.5V6A
Motor Nominal Output	kW	0.75		1.5		2.2		3.7	5.5	7.5	11
Power Source	PH	1	3	1	3	1 3				3	
Max. Discharge Pressure	MPa		0.93								
Air Capacity	L/min	8	0	165		26	35	440	630	840	1,200
Air Tank Volume	L	6	2	80		90		125	150	235	260
Air Outlet	—			1/4	B×1			3/8	B×1	3/48	3×1
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 applications

Specifications (Horizontal Tank Mount Type)

Control Metho	bd					Auto	Unloader Co	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	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	0	9	0	125	150	235	260	290
Air Outlet	-			1/48	3×1			3/8	3×1	3/4E	3×1	1B×1
Standard Accessories	_		F	Pressure Ga	uge, Safety \	/alve, Hose	Joint, Belt Co	over, Silence	r, Stop Valve	9		Pressure Gauge Safety Valve, Belt Cover, Silencer, Stop Valve
External Dimensions (W×D×H)	mm	931×37	76×816	1,173×418 ×867	1,173×380 ×867	1,283×434 ×894	1,283×403 ×894	1,345×428 ×948	1,470×482 ×979	1,674×547 ×1,103	1,793×611 ×1,103	2,014×734 ×1,221
Weight	kg	80	75	96	85	134	126	160	202	255	326	448

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		0.93 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	3/8	3×1	3/4B×1	
Standard Accessories	_		Pressure	e Gauge, Safety Val	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 Metho	bd		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	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, Silenc	er, 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 applications

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)

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

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.

Multi-Drive Mode: possible.

Specifications (Built-in Air Dryer Model)

Control Metho	bd		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)			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	o Valve)×1		Rc3/	/4×1	Rc1	I×1
External Dimensions(W×D×H)	mm	680×62	0×1,030	750×71	5×1,150	980×66	0×1,450	1,280×770×1,450	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 Method P-Mode				Multi-Drive Mode / P-Mode						
M	lodel	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	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	-				Fu	II-Voltage Starti	ing			
Air Tank Volume	L	18 24 24 (necessary for extra in receiver tank)			24 (necessary for extra air receiver tank)	a*6				
Air Outlet	-	Rc3/8(stop Valve)×1				Rc3/	′4×1	Rc1	I×1	Rc1 1/2×1
External Dimensions(W×D×H)	mm	680×640×1,030 750×715×1		5×1,070	980×66	0×1,190	1,280×770×1,450	1,330×880×1,900	1,360×1,030×1,670	
Weight	kg	119	129	175	184	315(312)	350(344)	515(506)	720(708)	1,000
Noise Level c	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.

. Outlet air dew point is measured under the ambient temperature of 30°C. Noise level might be increased due to different operating conditions and / or Ambient temperature must be between 0 (at which there is no freeze of drain water) and 40°C.
 10. 1.0MPa model is optional. environments with echo of actual field installations. 4. If the air driver 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 Some of the models may NOT be available in Singapore, Malaysia and China (Mainland) due to the pressure vessel regulations.

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

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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).

objects as discharge outlet.

For details, contact your nearest dealer or Hitachi local representative office

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

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 (0.75-11kW) - Powered by Premium Efficiency Motor (IE3)

Specifications

Package OIL FREE BEBICON with Built-in Air Dryer

Control Method		Pressure Sw	itch Control	ECOMODE/PUSC (possible for conversion)						
Output	kW	0.	75	1.5	2.2	3.7	5.5	7.5	11	
Item · Unit	_	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 — 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-Voltag	ge Starting	Full-Voltage Starting (with unloader-restart)						
Air Outlet	-	G1/4B Sto (Internal Diameter of	p Valve×1 If Rubber Hose ϕ 6)	Rc3/8 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 12) (Ir			(Internal D	Rc1/2 Stop Valve×1 ernal 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 85		850×680×1,180	850×80	5×1,440	1,302×945×1,40	
Weight	kg	129 123		158	176	212	328	341	484	
Noise Level	dB[A]	5	2	55		57	58	59	62	

Package OIL FREE BEBICON

Control Method		Pressure Sv	vitch 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)	MPa			0.93 (0.78 - 0.93)				0.85 (0.7 - 0.85)		
Air Capacity	L/min	7	75		240	405	605	875	1,280	
Power Source	PH	1 3		3						
Starting Method	-	Full-Volta	Full-Voltage Starting		Full-Voltage Starting (with unloader-restart)					
Air Outlet	-	G1/4B Sto (Internal Diameter of	p Valve×1 of Rubber Hose ϕ 6)	Rc3/8 Stop Valve×1 (Internal Diameter of Rubber Hose φ12) (Intern			(Internal D	Rc1/2 Stop Valve×1 Il Diameter of Rubber Hose ϕ 12)		
Built-in Air Tank Volume	L	3	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 85		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	52	55		57	58	59	62	

Package Oil-lubricated BEBICON with Built-in Air Dryer

Control Method		Pressure Switch Control		ECOMODE/PUSC (possible for conversion)						
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(0.7	0.93(0.74 - 0.93)		0.93(0.78 - 0.93)					
Air Capacity	L/min	8	80	165	265	440	630	840	1,200	
Dew-Point of Outlet Air	°C			15 or below under pressure						
Power Source	PH	1	1 3		3					
Starting Method	-	Full-Voltage	Starting	Full-Voltage Starting (with unloader-restart)						
Air Outlet	-	G1/4B Sto (Internal Diameter of	p Valve×1 of Rubber Hose ϕ 6)	(Internal D	Rc3/8 Stop Valve×1 Diameter of Rubber Ho	ose φ12)	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 85		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	52	5	3		56			

Package Oil-lubricated BEBICON

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	—	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	80		265	440	630	840	1,200	
Power Source	PH	1 3		3						
Starting Method	—	Full-Voltag	Full-Voltage Starting		Full-Voltage Starting (with unloader-restart)					
Air Outlet	-	G1/4B Stop (Internal Diameter o	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		745×620×960 850×680×1,120		850×680×1,120	0 850×805×1,230		1,050×945×1,400	
Weight	kg	88	82	124	148	181	279	312	416	
Noise Level	dB[A]	5	2	5	3	56			59	

Note: 1. Air capacity is converted volume at its inlet condition (atmospheric pressure ambient 10. Do NOT use wiring thinner than the regulation or long wiring which causes the voltage drop

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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.

Air capacity is converted volume at its inlet condition (atmospheric pressure ambient temperature 20°C, humidity 60%). For guaranteed values, contact your nearest dealer or Hitachi local representative offices.
 [ECOMODE] is set as default control method for **NEXT**_{series} when shipment.
 Control pressure (ON-OFF) is default pressure set when shipment.
 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 operation.
 Noise level may increase by 1-2dB[A] when refrigerant air dryer operates.
 Noise level may increase by 1-2dB[A] when refrigerant air dryer operates.
 Noise level may increase by 1-2dB[A] when refrigerant air dryer operates.
 Noise level may increase by 1-2dB[A] when refrigerant air dryer operates.
 Moise level of drain wate)
 Bust-proof air dryer is available as an option.
 It is necessary to install an air receiver tank with volume of 230L or above for PO(D)-15kW model.

model.

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

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	-	POD-5.5VNPA	POD-7.5VNP	POD-11VNP					
Max. Discharge Pressure	MPa	0.93	0.8	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	MPa	0.58 - 0.86	0.58 -	- 0.78					
Dew-Point of Outlet Air	°C	15 or below under pressure							
Starting Method	-		Inverter						
Air Outlet	-	Rc1/2 Stop Valve×1 (Internal Diameter of Rubber Hose ϕ 12)							
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	5×1,440	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.
 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
 6. Dew point of outlet air is under ambient temperature of 30°C.

 The temperature of temperature of the temperature of the temperature of the temperature of the temperature of temperatemeratemeratemeratemeratemeratemeratemeratemeratemera pressure of air receiver tank rises.

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

with echo of actual field installations.

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

Hitachi BEBICON ROLLER (BR-1M)

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

Various Functions

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

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						
Contact Specification	Resistance Load(COS $\phi = 1$) AC250V 5A Minimum Application Load DC5V 10mA Induction Load(COS $\phi = 0.4$) 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						
Note: 1. BR-1M is dedicatedly designed for Hita BR-1M with compressor of other brands. 2. It is necessary to install an air receiver tan	chi BEBICON unit control. Do NOT connect 5. Pressue which is over the max pressure of the compressor connected can not be used 6. In case of connecting with reciprocating BEBICON which has load reduction function it is not possible to use below cut-in pressure of 0.54MPa.						

It is necessary to install a magnetic switch if the compressor is not equipped with one.
 About Energy-Saving Multi control, some models may NOT be applicable. For details, contact your nearest dealer or Hitachi local representative office

- pressure of air receiver tank rises. In case that compressor operates for more than 1 min, operation will stop at cut-pressure-0.06MPa. 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 than an anechoic room tangent of air receiver tank value at a distance of 1.5m from the unit in an anechoic room tangent of air receiver tank value at a distance of 1.5m from the unit in an anechoic room tangent of air receiver tank value at a distance of 1.5m from the unit in an anechoic room tangent of air receiver tank value at a distance of 1.5m from the unit in an anechoic room tangent of air receiver tank value at a distance of 1.5m from the unit in an anechoic room tangent of the previous and tangent of the previous and the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous and tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent of the previous at a distance of 1.5m from the unit in an anechoic room tangent at a distance of 1.5m from tangent of the previous at a dis such as stop valve.
- 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 applications.

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.

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

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