

Innovation, Performance and Reliability



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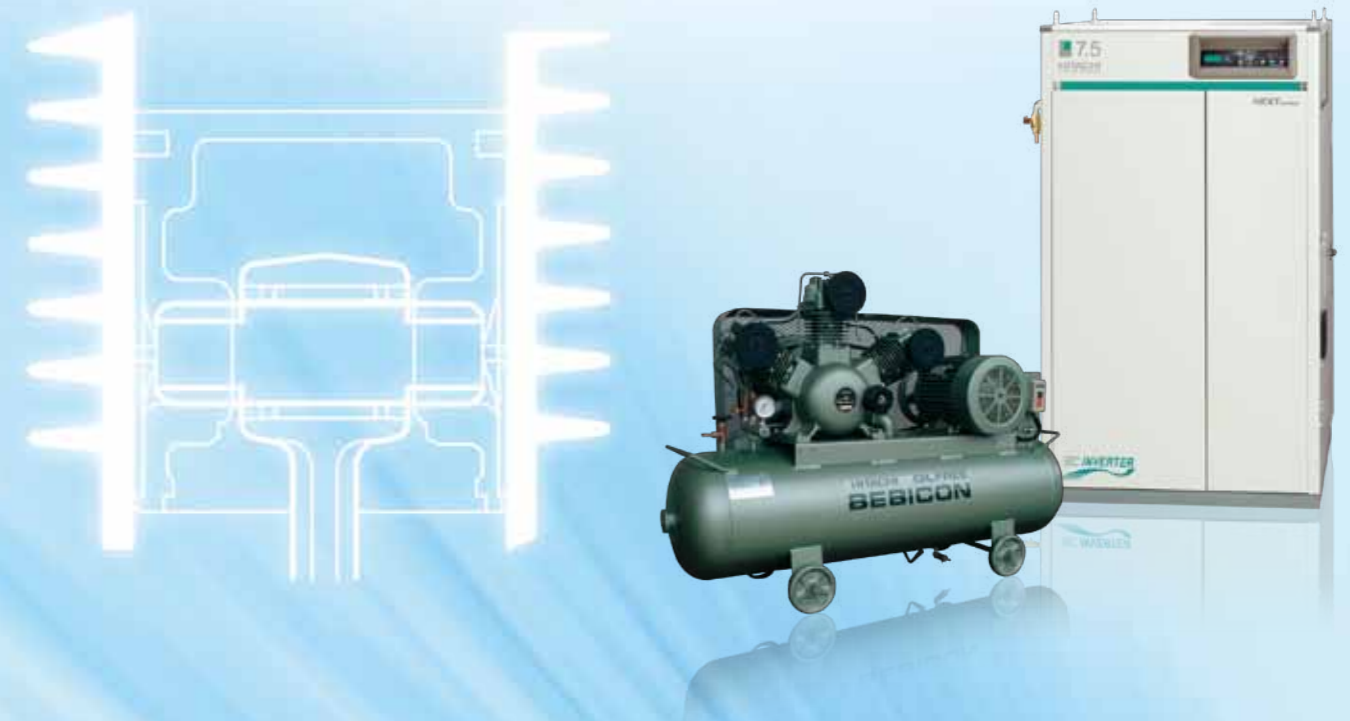
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Caution

- 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.

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For further information, please contact your nearest sales representative.



BEBICON

GENERAL CATALOG



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



OIL FREE BEBICON G-series



BEBICON New V-series



OIL FREE Booster BEBICON Package Oil-free Booster BEBICON



Vertical Tank Mounted BEBICON



Package BEBICON Package OIL FREE BEBICON



OIL FREE Scroll Air Compressor

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.

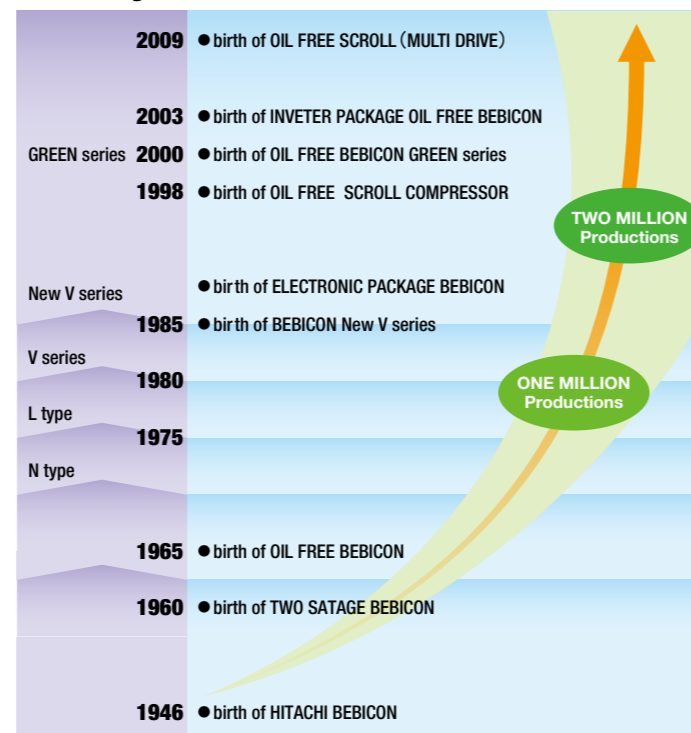
HITACHI has achieved **ONE Million** product shipments by 1979 and **TWO Million** by 1994.

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 Type	Reciprocating							Scroll
	OIL FREE BEBICON		Oil-Lubricated BEBICON			OIL FREE Booster BEBICON		OIL FREE Scroll Air Compressor
	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
■ Pressure Switch Control ONLY
■ Auto Unloader Control/Pressure Switch Control
■ ECOMODE Control/PUSC Control
■ Inverter Drive Control
■ Multi-Drive Control
■ Medium Pressure (1.23/1.37MPa) Model Available

Control Method

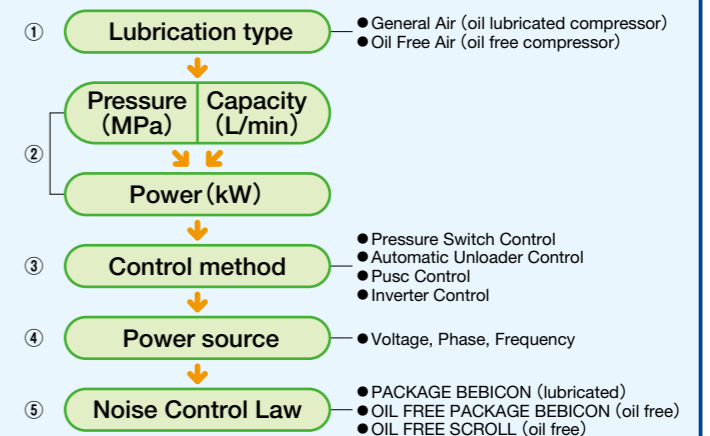
Auto Unloader Control	Automatically switch between Load/Unload operation by the pressure adjustment valve
Pressure Switch Control	Automatically Start/Stop the operation of compressor in order to maintain certain range of pressure. Energy-saving is possible when compressed air is NOT needed, since motor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

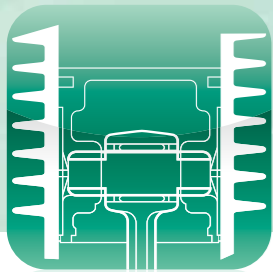
How to choose a BEBICON compressor

- Select type of compressor according to your requirement.
- 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.
- Confirm the details of power source (Voltage / Phase / Frequency)
- 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.

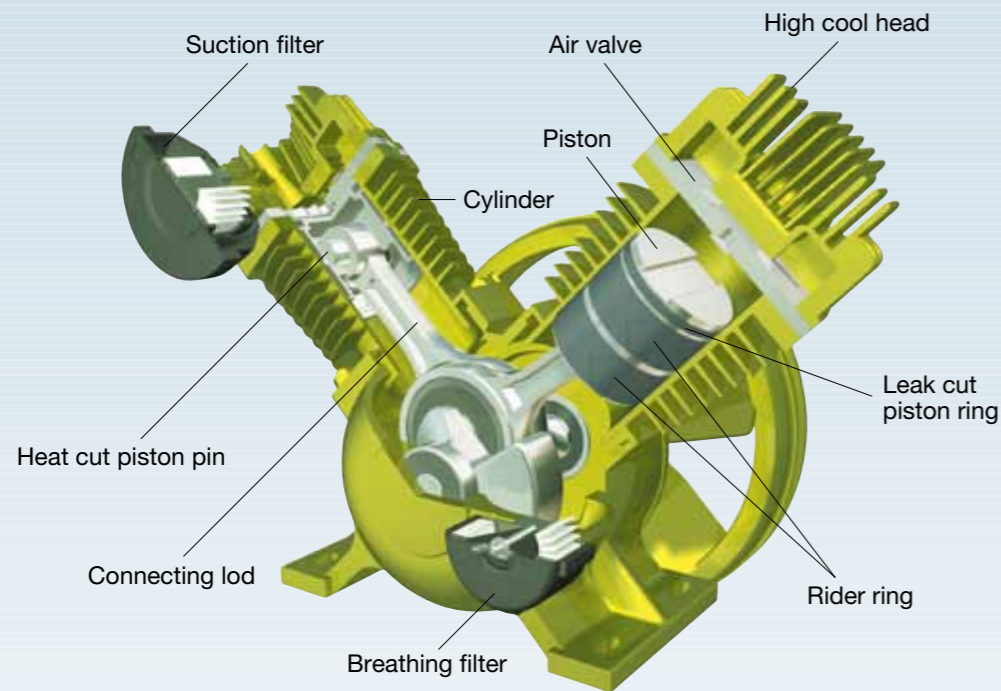
■Selecting Procedure



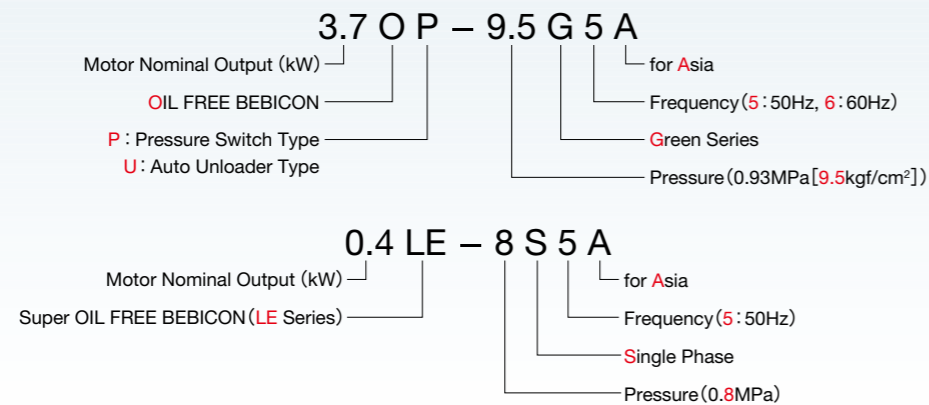


OIL FREE BEBICON (0.4-11kW)

Steady Supply of Oil-free, Pure Air



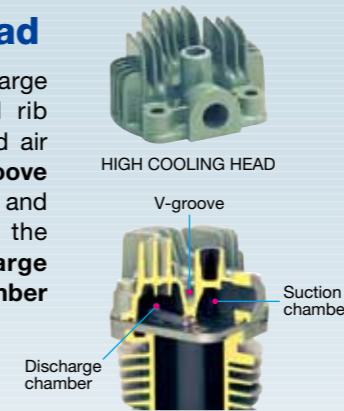
Model Nomenclature



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

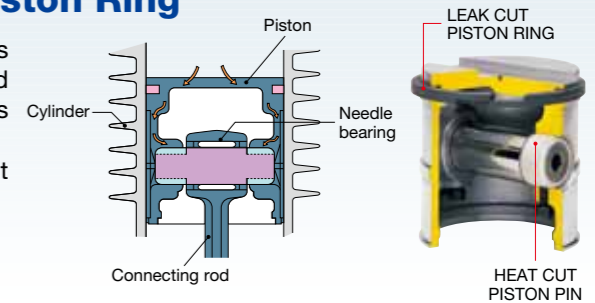
Lead Air Valve of I-shaped stainless steel suction air valve improves air capacity and improves durability against rusting.



Heat Cut Piston Pin & Leak Cut Piston Ring

Heat Cut Piston Pin of heat-insulating material reduces heat transfer from the **piston** to the **needle bearing** and keeps bearing in relatively low temperature and improves the reliability.

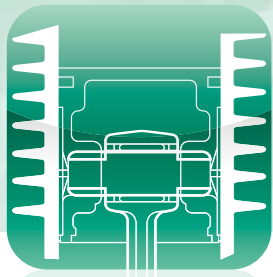
Leak Cut Piston Ring of specially shaped abutment joint reduces air leakage and improves air capacity.



Specifications (Horizontal Tank Mount Type)

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

Note: 1. Use the compressor at a place where ambient temperature is 0 (at which there is no freeze of drain water) to 40°C.
 2. 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.

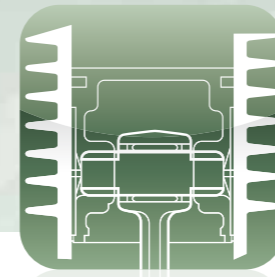


OIL FREE BEBICON (0.4–11kW)

Specifications (Horizontal Tank Mount Type)

Control Method		Pressure Switch Control													
Item · Unit	Model	Pressure Switch Control													
		0.4LE-8S5A	0.75OP-9.5GS5A	0.75OP-9.5G5A	1.5OP-9.5GS5A	1.5OP-9.5G5A	2.2OP-9.5GS5A	2.2OP-9.5G5A	3.7OP-9.5GS5A	3.7OP-9.5G5A	5.5OP-9.5GS5A	5.5OP-9.5G5A	7.5OP-8.5GA5A	7.5OP-8.5GA6A	11OP-8.5GA5A
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		
Air Capacity	L/min	42	75	165		240		405	605	880	1,285				
Air Tank Volume	L/min	20	80	80		90		125	150	235	290				
Air Outlet	—	1/4B×1			3/8B×1			3/4B×1							
Standard Accessories	—	Pressure Gauge, Safety Valve, Stop Valve	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve												
External Dimensions (W×D×H)	mm	600×322×608	1,173×380×852		1,173×431×897	1,173×393×897	1,283×434×825	1,283×403×825	1,345×423×913	1,470×482×995	1,674×552×1,045	2,014×646×1,153			
Weight	kg	30	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. ambient temperature 20°C, humidity 60%).
 2. The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms of air suction (atmospheric pressure, Hitachi air compressors are not designed, intended or approved for breathing air applications).
 3. Hitachi air compressors are not designed, intended or approved for breathing air applications.

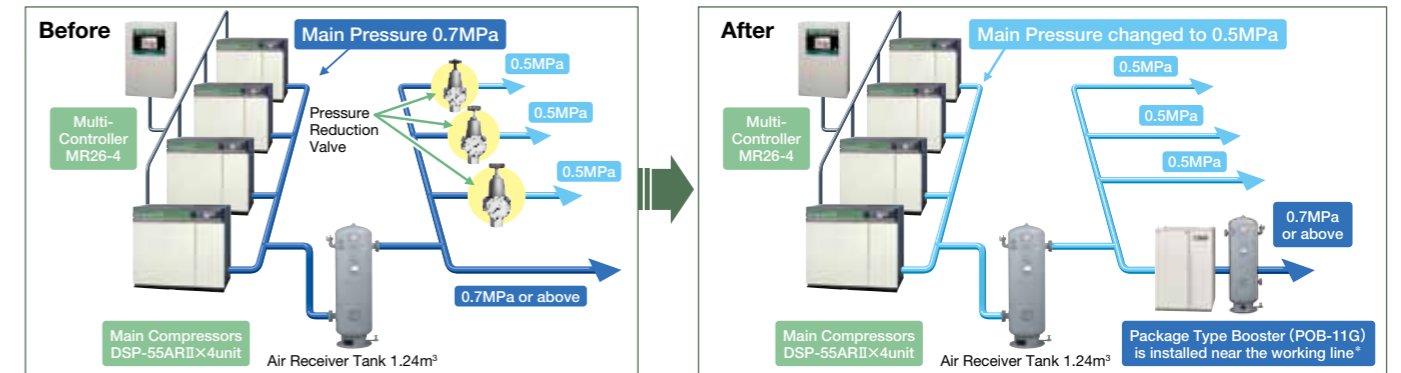


OIL FREE Booster BEBICON (1.5–11kW)

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



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

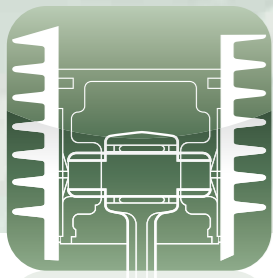
Effect

Item · Unit	Before	After
Power Consumption* (MWh/year)	Main Screw Compressor	1,147
	Booster BEBICON	40
Simulated Annual Power Consumption (MWh/year)	1,147	967
Specific Energy Consumption (m ³ /min/kW)	0.105	0.124
CO ₂ Emission* (t-CO ₂ /year)	811	684
CO ₂ Reduction Rate (%)	16	

* Operation time: 6,000hr/y

0.707kg/kWh is used as CO₂ emission coefficient

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.



OIL FREE Booster BEBICON (1.5–11kW)

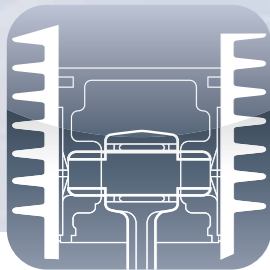
Energy-Saving and Improvement of Specific Energy Consumption is Possible by Local Pressurerising



Specifications

Tank Mounted/ Packaged Type		Tank Mounted Type					Packaged Type		
Item · Unit	Model	OBB-1.5GB5	OBB-3.7G5A	OBB-7.5G5A	OBB-7.5HB5	OBB-11GB5	POB-3.7G5	POB-7.5G5	POB-11G5
		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	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/min	38	170		280	35	—		
Air Inlet	—	Rc3/4			Rc1	Rc3/4	Rc1		
Air Outlet	—	G3/8B Stop Valve	Rc3/4 Stop Valve			Rc1 Stop Valve	Rc3/4 Stop Valve		Rc1 Stop Valve
External Dimensions (W×D×H)	mm	846×447×762	1,774×518×972	1,774×553×968	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

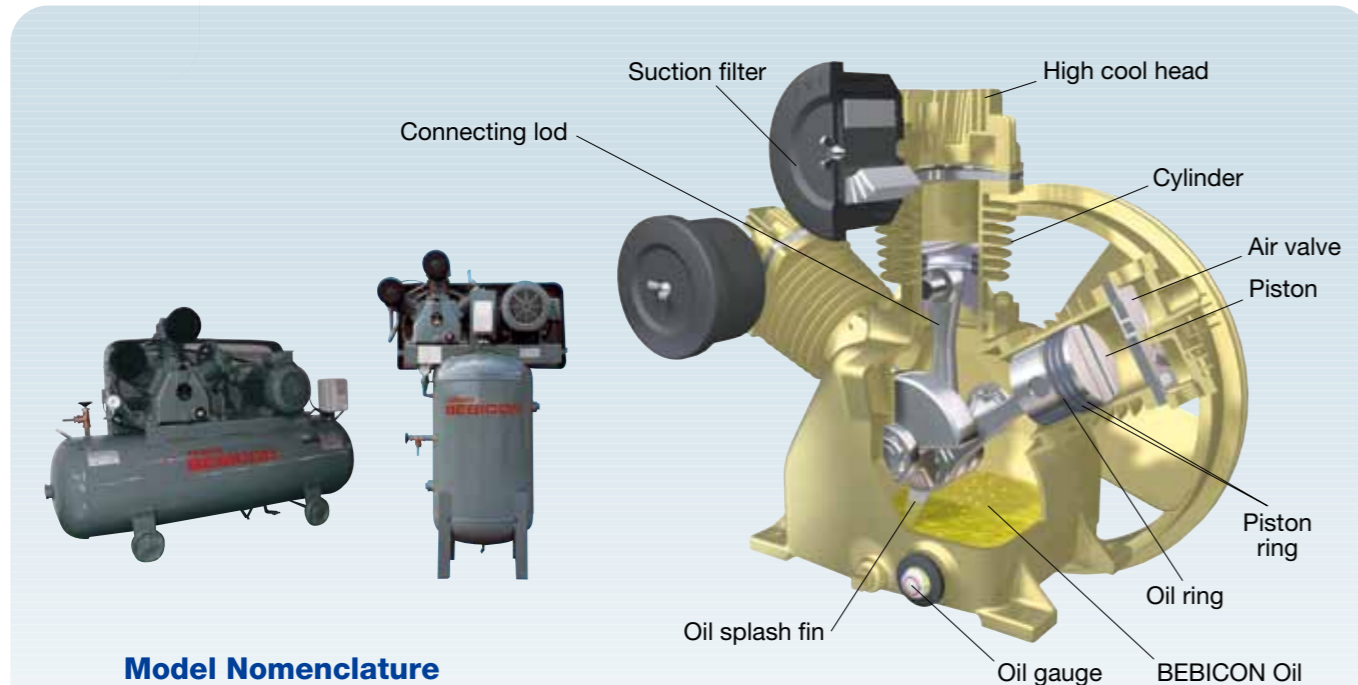
- Air capacity is converted value under atmospheric condition from the capacity with 0.5MPa of suction pressure and maximum pressure of discharge pressure.
- Working range of suction pressure is from atmospheric pressure to 0.5MPa for Tank Mounted models, and 0.2MPa to 0.5MPa for Packaged Models. Please 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.)
- 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.
- 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.
- 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.
- Hitachi air compressors are not designed, intended or approved for breathing air applications.



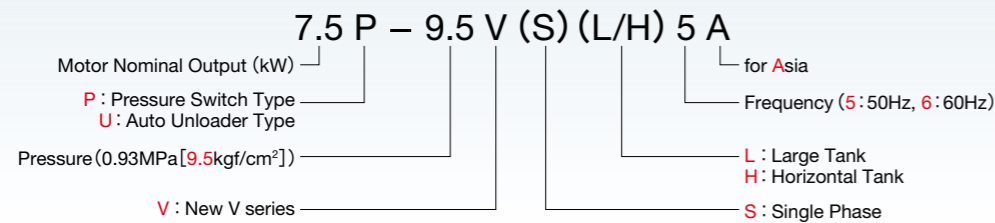
Oil-Lubricated BEBICON (0.75-15kW)

Easy-to-Use and Durable New V series

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



Model Nomenclature



Specifications (Horizontal Tank Mount Type)

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

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. ambient temperature 20°C, humidity 60%).
 2. The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms of air suction (atmospheric pressure, applications).
 3. Hitachi air compressors are not designed, intended or approved for breathing air applications.

Specifications (Horizontal Tank Mount Type)

Control Method		Pressure Switch Control										
Model		0.75P-9.5VS5A	0.75P-9.5V5A	1.5P-9.5VS5A	1.5P-9.5V5A	2.2P-9.5VS5A	2.2P-9.5V5A	3.7P-9.5V5A	5.5P-9.5V5A	7.5P-9.5V5A	11P-9.5V5A	
Item · Unit		0.75P-9.5VS6A	0.75P-9.5V6A	1.5P-9.5VS6A	1.5P-9.5V6A	2.2P-9.5VS6A	2.2P-9.5V6A	3.7P-9.5V6A	5.5P-9.5V6A	7.5P-9.5V6A	11P-9.5V6A	
Motor Nominal Output	kW	0.75		1.5		2.2		3.7	5.5	7.5	11	
Power Source	PH	1	3	1	3	1	3	3				
Max. Discharge Pressure	MPa	0.93										
Air Capacity	L/min	80	165	265	440	630	840	1,200				
Air Tank Volume	L	62	80	90	125	150	235	260				
Air Outlet	—	1/4B×1			3/8B×1			3/8B×1		3/4B×1		
Standard Accessories	—	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve										
External Dimensions (W×D×H)	mm	931×376×804		1,173×418×855	1,173×380×855	1,283×434×860	1,283×403×860	1,345×428×923	1,470×482×932	1,674×556×1,094	1,793×611×1,098	
Weight	kg	80	75	96	85	147	126	160	202	255	326	

Specifications (Horizontal Tank Mount Type)

Control Method		Pressure Switch Control							
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	3/8B×1		3/4B×1	
Standard Accessories	—	Pressure Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve							
External Dimensions (W×D×H)	mm	1,286×376×804	1,470×435×901	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 Method		Pressure Switch Control		
Model		3.7P-12.5 (14) V5A	5.5P-12.5 (14) V5A	7.5P-12.5 (14) V5A
Item · Unit		3.7P-12.5 (14) V6A	5.5P-12.5 (14) V6A	7.5P-12.5 (14) V6A
Motor Nominal Output	kW	3.7	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 Gauge, Safety Valve, Hose Joint, Belt Cover, Silencer, Stop Valve		
External Dimensions (W×D×H)	mm	957×590×1,732		1,025×611×1,734
Weight	kg	420		450

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. ambient temperature 20°C, humidity 60%).
 2. The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms of air suction (atmospheric pressure, applications).
 3. Hitachi air compressors are not designed, intended or approved for breathing air 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.

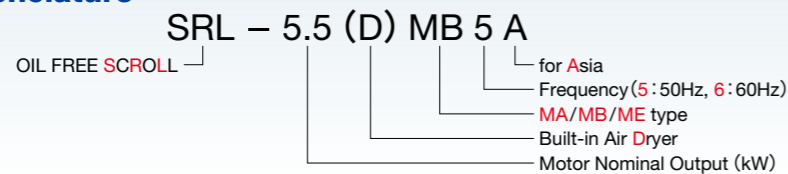


OIL FREE Scroll Air Compressor (1.5–33kW)

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

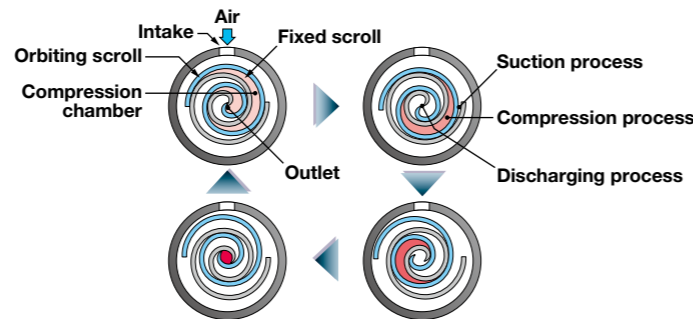


Model Nomenclature



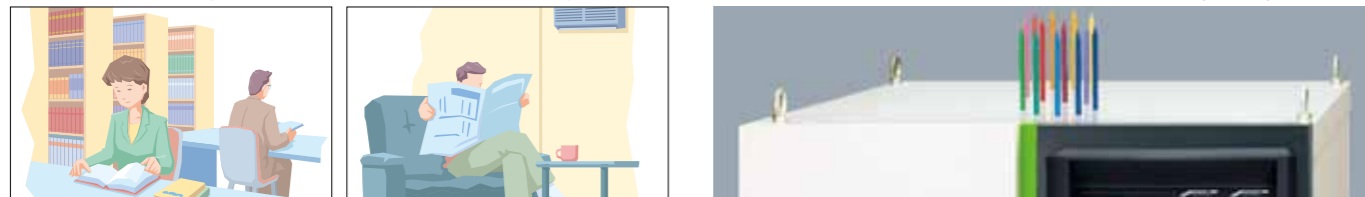
Scroll Compression Principle

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

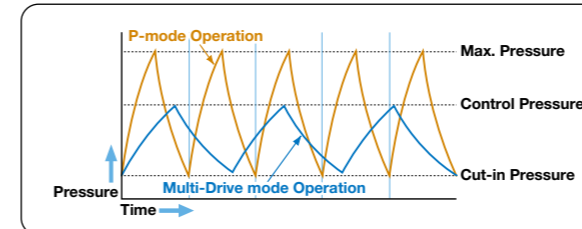
Few Daily Check items and Easy to Check, Total Cost Saving

- 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.



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

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

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.

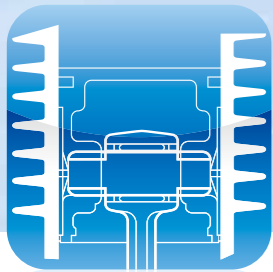
Specifications (Built-in Air Dryer Model)

Control Method	Model	P-Mode				Multi-Drive Mode / P-Mode			
		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 (under pressure)				10 or below (under pressure)			
Ambient Temperature	°C	5 – 40							
Starting Method	—	Full-Voltage Starting							
Air Tank Volume	L	18	24	24	24 (necessary for extra air receiver tank)	—*6			
Air Outlet	—	Rc3/8 (stop Valve) × 1				Rc3/4 × 1		R1 × 1	
External Dimensions (W×D×H)	mm	680×620×1,030		750×715×1,150		980×660×1,450		1,280×770×1,450	1,360×925×1,930
Weight	kg	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 Dryer Model

Control Method	Model	P-Mode				Multi-Drive Mode / P-Mode				
		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 – 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	—	Full-Voltage Starting								
Air Tank Volume	L	18	24	24	24 (necessary for extra air receiver tank)	—*6				
Air Outlet	—	Rc3/8 (stop 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		980×660×1,190		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 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 separate air receiver tank.
 6. It is necessary to install an air receiver tank with volume of 150L or above (7.7/11/16.5kW model), 230L or above (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.
 8. Outlet air dew point is measured under the ambient temperature of 30°C.
 9. Ambient temperature must be between 0 (at which there is no freeze of drain water) and 40°C.
 10. 1.0MPa model is optional.
 11. 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.
 12. Hitachi air compressors are not designed, intended or approved for breathing air applications.



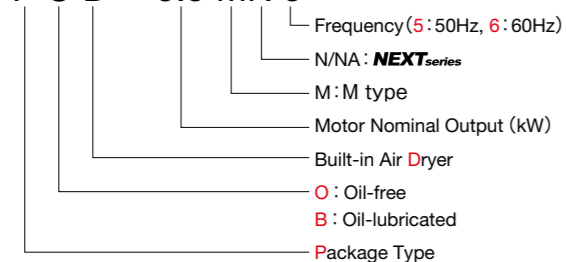
Package BEBICON (0.75–15kW)

Model change to **NEXTseries** is complete for Package BEBICON (1.5–15kW).

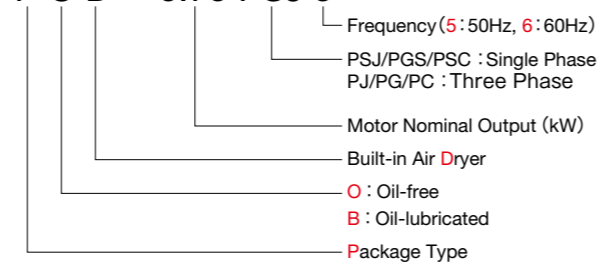


Model Nomenclature

POD – 5.5 MN 5



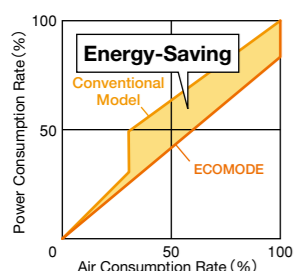
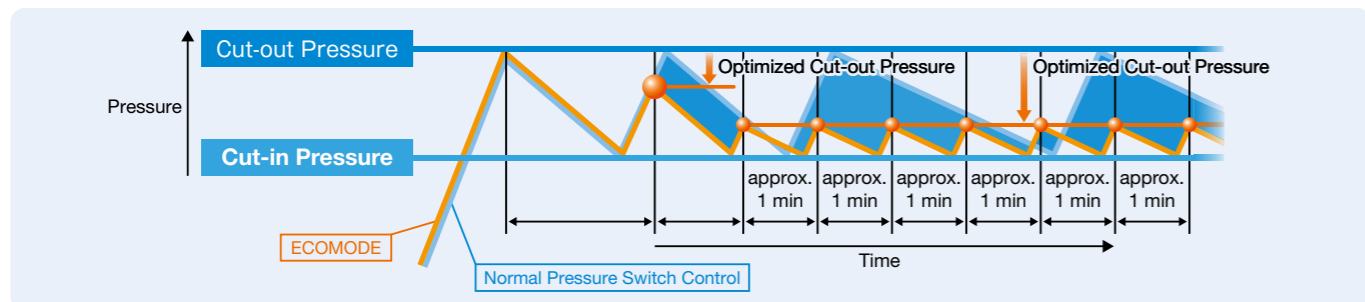
POD – 0.75 PSJ 5



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.



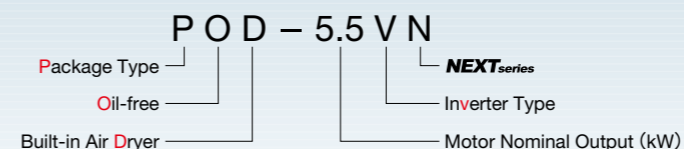
Compared with the conventional model under PUSC control, Energy-Saving of **40%** when air consumption rate is 30%, or **24%** when air consumption rate is 50%, or **14%** when air consumption rate is 70% is possible. (in case of PB-3.7kW with 95L air receiver tank installed)

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.

Model Nomenclature



V type

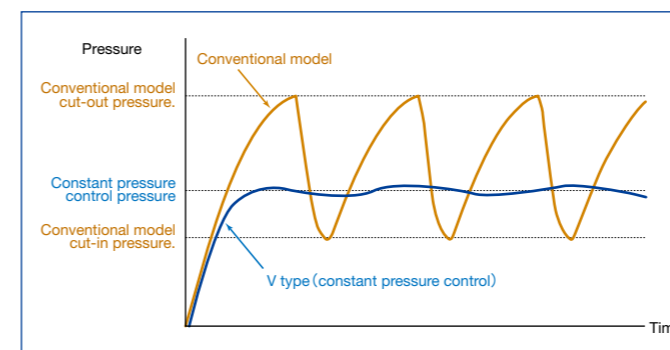
Features

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 ± 0.03 MPa of setting pressure.

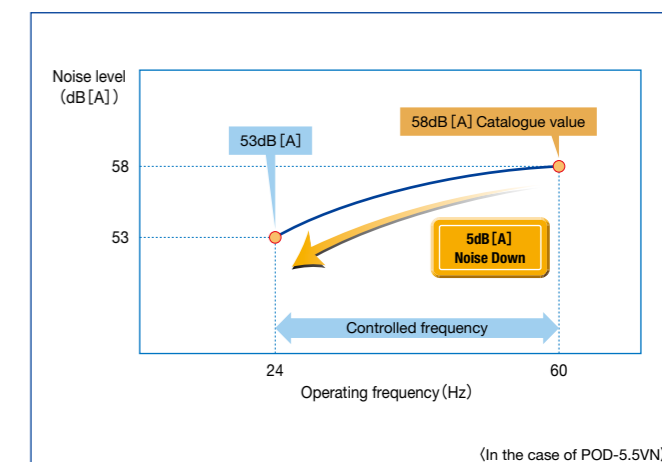
Setting pressure can be adjusted within ± 0.01 MPa at control panel.

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



Sophisticated operating sound with inverter

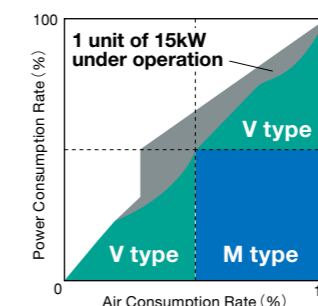
Inverter soft start reduces the starting noise. Low speed operation sound is 5 dB [A] lower than normal speed operation sound.



Energy-Saving by V-M combination

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

Example of V-M combination



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.

