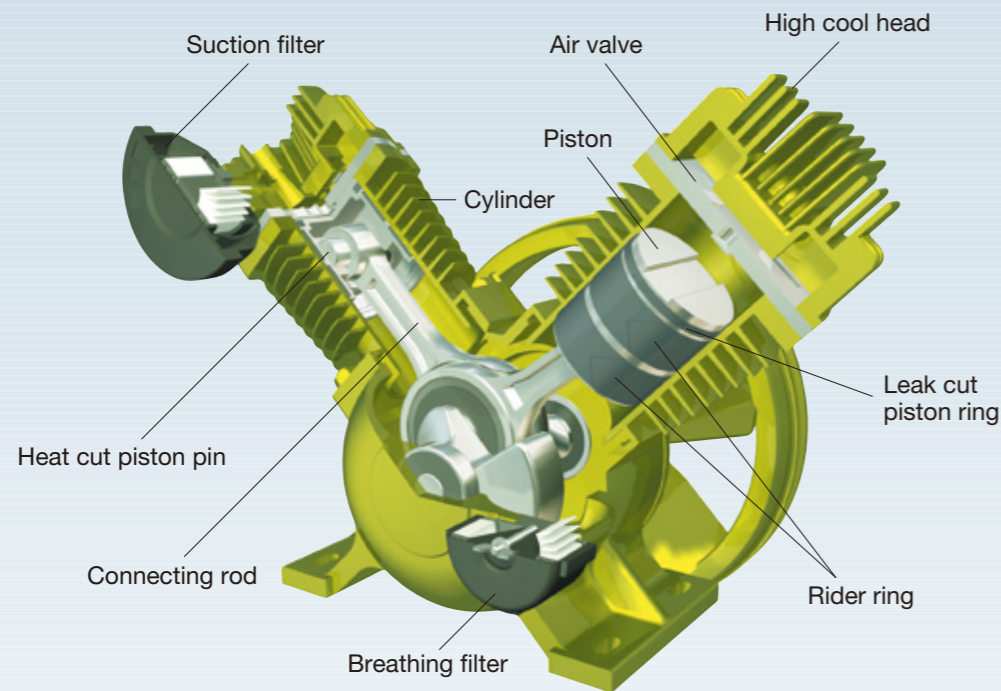


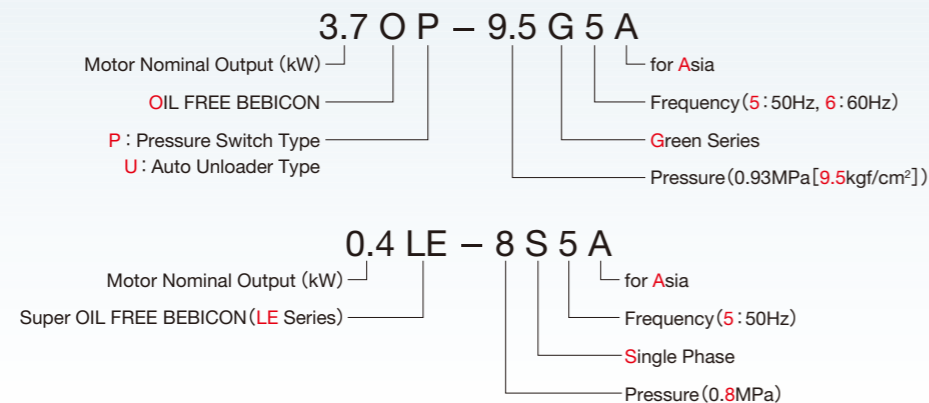


# OIL FREE BEBICON (0.4-11kW)

## Steady Supply of Oil-free, Pure Air



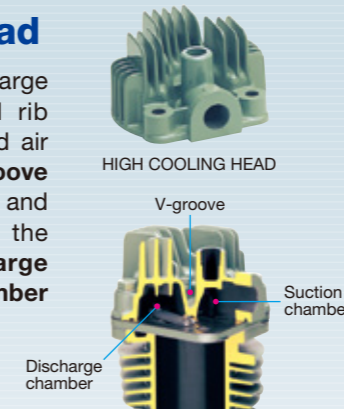
### Model Nomenclature



## 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

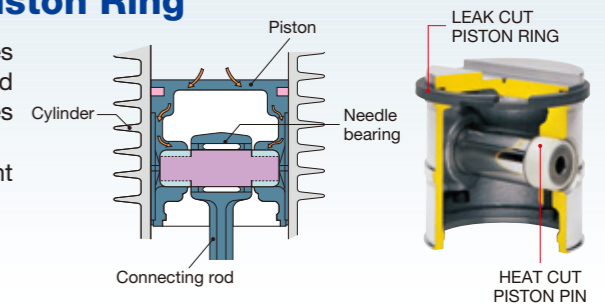
**Lead Air Valve** of I-shaped stainless steel suction air valve improves air capacity and improves durability against rusting.



### 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	Pressure Switch Control											
	Model	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	5.5OP-9.5GS5A	7.5OP-8.5GA5A	11OP-8.5GA5A
Item · Unit												
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	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	40	90	85	121	110	150	129	158	201	282	400

Note: 1. Use the compressor at a place where ambient temperature is 0 (at which there is no freeze of drain water) to 40°C.  
 2. The capacity of compressed air is the amount of air discharged under the 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		Auto Unloader Control							
Item · Unit	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
		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	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

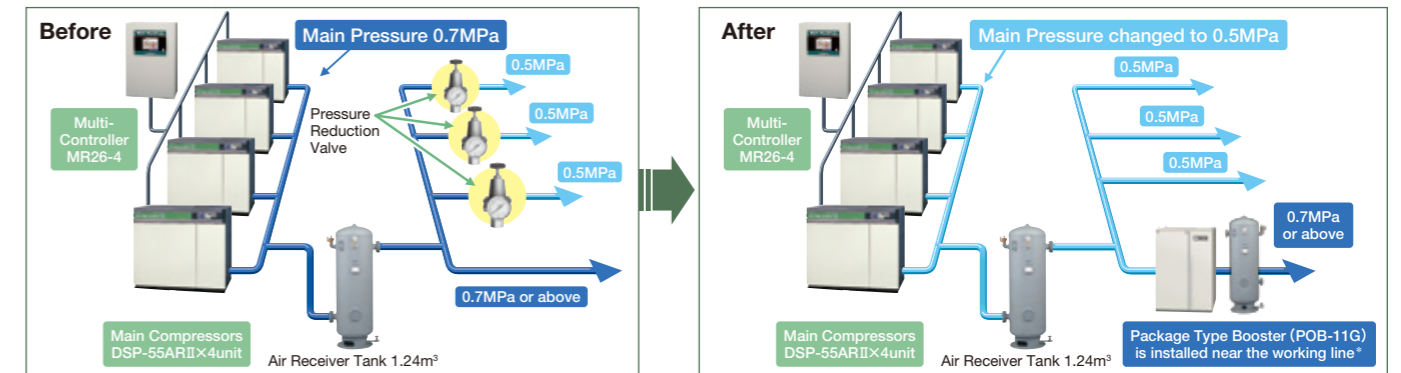
Note: 1. Use the compressor at a place where ambient temperature is 0 (at which there is no freeze of drain water) to 40°C. ambient temperature 20°C, humidity 60%).  
 2. The capacity of compressed air is the amount of air discharged under the maximum pressure converted in terms of air suction (atmospheric pressure, applications).  
 3. Hitachi air compressors are not designed, intended or approved for breathing air applications.



# 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



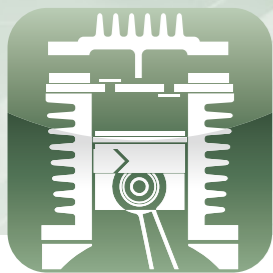
\* In case that oil is contained in the suction air, air filter and micron mist filter have to be installed before suction import.

### Effect

Item · Unit	Before	After
Power Consumption* (MWh/year)	1,147	927
Booster BEBICON	0	40
Simulated Annual Power Consumption (MWh/year)	1,147	967
Specific Energy Consumption (m³/min/kW)	0.105	0.124
CO <sub>2</sub> Emission* (t-CO <sub>2</sub> /year)	811	684
CO <sub>2</sub> Reduction Rate (%)		16

\* Operation time: 6,000hr/y 0.707kg/kWh is used as CO<sub>2</sub> emission coefficient

After replacing with the Booster BEBICON:  
**180 MWh/y** Energy-Saving is obtained.  
 At the same time, **16%** of CO<sub>2</sub> 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

Item · Unit	Model	Tank Mount Type					Package Type		
		OBB-1.5GP5	OBB-3.7G5A	OBB-7.5G5A	OBB-7.5HP5	OBB-11GP5	POB-3.7GP5	POB-7.5G5A	POB-11G5A
Motor Nominal Output	kW	1.5	3.7	7.5		11	3.7	7.5	11
Suction Air Pressure	MPa	0 – 0.5					0.2 – 0.5		
Max. Discharge Pressure	MPa	1.0		1.37	1.0	1.0			
ON-OFF Control Pressure	MPa	0.8 – 1.0		1.18 – 1.37	0.8 – 1.0	0.8 – 1.0			
Air Capacity	L/min	600	1,400	2,850	2,500	4,250	1,400	2,850	4,250
Air Tank Volume	L	38	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	1,774×553×958	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.  
 2. 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 Package Type. Refer to local regulations when selecting air receiver tank.  
 4. The intake air of Oil-free Booster BEBICON must be oil free air, which has no oil contaminant. If oil contaminant is contained in the suction air, install air filter and micron filter on the suction side of the Booster BEBICON.  
 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.  
 7. 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 air applications.