

Products Information



私たちがめざす、ものづくり。



ORION PRODUCTS

ICHI VIETNAM INDUSTRIAL EQUIPMENT CO.,LTD

Office address : Lot C15 / D21 Cau Giay New Urban Area, Dich Vong Hau, Cau Giay, Hanoi

Hotline: +84 986.798.906/ +84 986.226.386

E-mail: sales@ichivina.com.vn / namdd@ichivina.com.vn

Website: www.ichivina.com.vn

Precision Air Processor

Under the slogan "From general air-conditioning to precision local air-conditioning," we offer the "PAP"® (Precision Air Processor) Series of air-conditioners featuring our latest proprietary technology – "heat pump balance control."® **Patented**

PAP® mini Light Duty Series

Air-cooled

- Processing air flow 0.7~4m³/min
- Temperature accuracy ±0.1℃
- Temperature range 18~30℃
- Humidity accuracy ±1%
- Humidity range 45~75%



PAP01B

PAP01B-KJ

PAP® Temperature Control

Air-cooled

- Processing air flow 3~20m³/min
- Temperature accuracy ±0.1℃
- Temperature range 18~30℃



PAP10A1

Water-cooled

- Processing air flow 3~40m³/min
- Temperature accuracy ±0.1℃
- Temperature range 18~30℃



PAP10A1-W

PAP® Temperature & Humidity

Air-cooled

- Processing air flow 3~20m³/min
- Temperature accuracy ±0.1℃
- Temperature range 18~30℃
- Humidity accuracy ±1%
- Humidity range 40~65%



PAP10A1-K

Water-cooled

- Processing air flow 3~40m³/min
- Temperature accuracy ±0.1℃
- Temperature range 18~30℃
- Humidity accuracy ±1%
- Humidity range 40~65%

PAP® Type D

Air-cooled

- Temperature range 18~30℃
- Humidity range 20~40%
- Temperature accuracy ±0.1℃



PAP03A-D

Water-cooled

Air-cooled

- Temperature range 8~18℃
- Cooling capacity 5.9/7.0kW
- Temperature accuracy ±2℃



PAP05A-L

High Accuracy Temperature & Humidity Control Unit "Air Processor"

The circulating type air circuit easily enables low to high temperature environments.

Air-cooled

- Processing air flow 4~15m³/min
- Temperature accuracy ±0.5℃
- Temperature range 5~35℃, 5~70℃
- Humidity accuracy ±3%
- Humidity range 30~90%



AP1500MVK-E

PAP® Temperature & Humidity Control Type, R Series

For clean rooms and measurement rooms

Thanks to heat pump balance control (by waste heat utilization) we offer, Ultra Energy Savings & High Accuracy Temperature Control !

- Processing air flow 23~80m³/min
- Temperature accuracy ±0.2℃
- Temperature range 18~30℃
- Humidity accuracy ±2%
- Humidity range 45~60%



PAP20A-KR (Temp & Humi. control type)

Constant Temperature (Constant Humidity) Rooms

ORION proposes construction of a high precision air processing system made of localized high quality spaces that can minimize the utilization of limited energy.



Energy Saving Dry Room System

Stable supply for a dry air space at dew point temperature of -60℃

A strict low humidity environment is required in many fields. (lithium ion battery, capacitor production, medical supply production, manufacturing processes or etc.) In answer to the needs of such manufacturing processes, ORION brings to the table its original dehumidifying system that offers a waste-free, energy saving, ultra-low humidity environment.



Pre-cooling + dehumidifier modular design



68% Energy Saving

- CO₂ emission - 13,940kg-CO₂/year
- Operation cost - JPY510,000/year

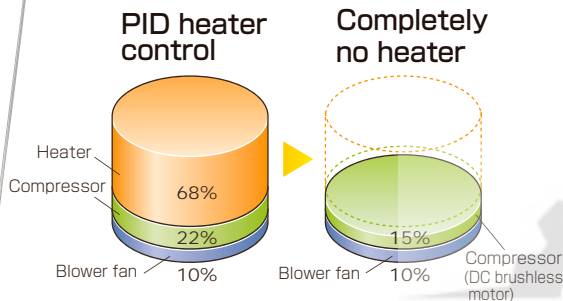
Precision air with energy saving in Heat Pump Balance Control®



PAP10A1

PAP10A1-K

Power source capacity and power consumption comparison



Max. 80% energy saving

Precision air conditioning is used in production fields demanding precision temperature and humidity controls. Most precision air conditioners are equipped with PID heater control which results in large power consumption.

Power consumption comparison

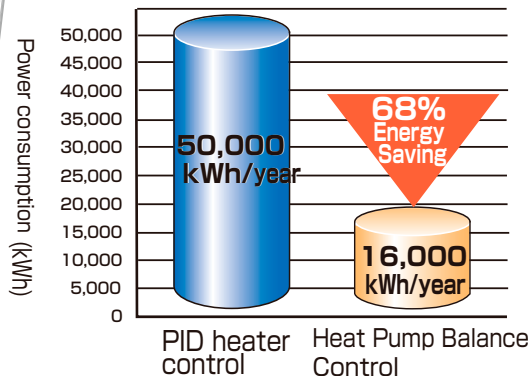
MODEL : PAP20B1-(F)W

Yearly running hours : 5,000hours

Electricity cost : JPY15/kWh

※Yearly electric power consumption for PID heater control is calculated as the rated power consumption x 0.85 considering maximum electric power is not continuously required.

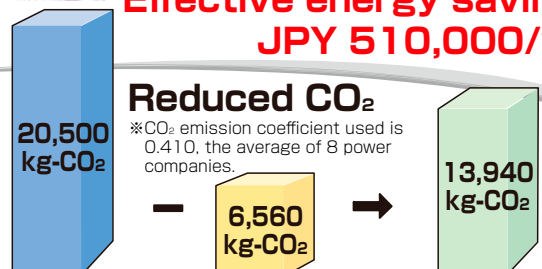
Yearly power consumption comparison



68% energy saving
Reduced CO₂ output
13,940kg-CO₂/year
Effective energy saving
JPY 510,000/year

Reduced CO₂

※CO₂ emission coefficient used is 0.410, the average of 8 power companies.



PID heater control
CO₂ Output

Heat Pump
Balance Control
CO₂ Output

Reduced
CO₂

Effective energy saving cost

※Actual savings will depend on the usage conditions.

Effective energy saving cost (estimate)

Difference in power consumptions : 50,000kWh - 16,000kWh = 34,000kWh

Effective energy savings : 34,000 × JPY15 = **JPY510,000 / year**

Vacuum Pump

ORION Machinery was the first company in Japan to introduce oil-less rotary vacuum pumps. Low noise and durable, our dry pumps are considered indispensable for automation and laborsaving devices for a variety of industries, e.g. printing, semiconductors or etc.

Vaneless Pump

Inverter oil free vacuum pump

KCE Vacuum Series

KCE Blower Series

Patented Double layer cover construction for low noise

First in industry vacuum pump packaged with built-in inverter.

Oil free vacuum pump

KCP Vacuum Series

KCP Blower Series

Patented High efficiency exhaust construction

Our high efficiency twin rotor gives a high flow rate using less power.

Vacuum application
Continuous vacuum
Max. 80kPa
Capacity 192 ~ 616m³/h



KCE380A-01

KCE190A-01

Blower application
Continuous vacuum
Max. 80kPa
Capacity 192 ~ 308m³/h



KCP250-V-01



KCP150-V-01



KCP80-V-01

Vacuum application
Continuous vacuum
Max. 80kPa
Capacity 79 ~ 308m³/h

Blower application
Continuous vacuum
Max. 100kPa
Capacity 79 ~ 308m³/h

Vane Pump

Standard Type KM

- Free rotor drive - no side clearance adjustment necessary

Continuous vacuum
Max. 55 kPa
Capacity 29L/min(60Hz)



KM41A-101-G1

Oscillating Piston Pump KYP Series

- Oil free
- Low noise light weight

Ultimate vacuum
10.7 ~ 2.7kPa[abs]
Capacity
33 ~ 85L/min(60Hz)



KYP90-101-G1

Standard Type KRF Series

- CE Marking Certified
- Low noise operation, Long life

Continuous vacuum
Max. 50 ~ 75 kPa
Capacity
75 ~ 155L/min(60Hz)



KRF08A-V-01

Standard Type KRF Series

- CE Marking Certified
- Quiet operation - Noise level reduced by 3dB (in-house comparisons)

Continuous vacuum
Max. 60 ~ 80 kPa
Capacity
280 ~ 685L/min(60Hz)



KRF40A-V-01A

Large Standard Type KRF Series

Continuous vacuum
Max. 60 ~ 70 kPa
Capacity
1350 ~ 2200L/min(60Hz)
KRF70A-V-01A



KRF110A-V-01

Combination Type CBF Series

2-cylinder (vacuum and pressure) design allows simultaneous operation of vacuum and pressure for requirement below 60kPa.

Continuous vacuum
Max. 60kPa
Capacity
280 ~ 685L/min(60Hz)



CBF4040-VB

Combination Type CBX62, CBX62A

Continuous vacuum
Max. 60kPa
Capacity 1115L/min(60Hz)



CBX62-G1

Combination Type Package CBXP Series

Low noise design (in-house comparisons) Reduced 3 ~ 5dB
Continuous vacuum
Max. 60kPa
Capacity
1115 ~ 2200L/min(60Hz)



CBXP8080B-VV

Direct coupling high vacuum Type KHF Series

Continuous operation at ultimate vacuum pressure
Ultimate vacuum 8 kPa[abs]
Capacity
150 ~ 400L/min(60Hz)



KHF20

High vacuum pump KHA Series

Continuous operation at ultimate vacuum
Ultimate vacuum 8 kPa[abs]
Capacity
65 ~ 400L/min(60Hz)



KHA400-301-G1

High vacuum pump KHH251

Continuous operation at ultimate vacuum (max.1.3 kPa[abs])
Ultimate vacuum
1.3 kPa[abs]
Capacity 179L/min(60Hz)



KHH251-101

Side Channel Blower 2BH Series

Low pressure vacuum / compressor pump
Blower pressure
5.5 ~ 32.0 kPa(60Hz)
Vacuum pressure
5.5 ~ 30.5 kPa(60Hz)
Capacity 1480 ~ 10170L/min(60Hz)



2BH1-490-7AH11

Silent Box KCS Series

Soundproofing box for vacuum pump
5 to 10 dB reduction in pump noise



KCS61A-123



KCS70-V-01

Air Station AS135 Series (BTO)

Vacuum pump and blower system box



AS135A

AS135W

Accessories

Water Separator
RA41 · RA42



Clean Filter
RA-S · RA-D



Filter (for vacuum)
RA10 · RA11
RA22



Oil Separator
RA31 · RA32



※ Maximum vacuum may decrease with elevation of the installation site.

57% Energy Saving

- CO₂ emission -11,470kg-CO₂/year
- Operation cost -JPY172,100/year

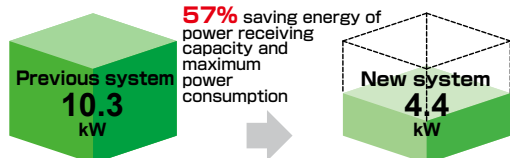


KCE380A-01

KCE190A-01

Inverter oil free vacuum pump for energy saving

Energy Savings



Converting energy saving to electricity and CO₂ reduction,
Operation for 8 hours/day, 243days/year.

-11,470 kWh/year

Electricity cost reduced by
JPY **172,100** /year

※1 Based on JPY15/kWh

CO₂ emission reduced by
4.7t CO₂ /year

※2 The amount of CO₂ emissions to produce electricity 1 kWh = Electricity (kW) x coefficient 0.41 kgCO₂

Effective

Increasing 25% of air volume even with one size smaller motor output

Economy

Automatic control of rotation speed related to the customer loading volume; 50% of electricity for 50% load.

Ecology

Noise level 65~68dB, reducing the discomfort to operators

Only KCE190, 380

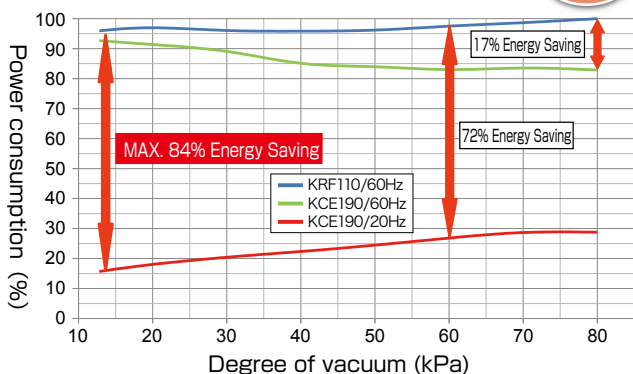
Energy Saving

KCE KCP

Automatic recognition of vacuum pump load conditions.

Great energy savings with the same degree of vacuum and same air flow rate.

MAX. 84% Energy Saving

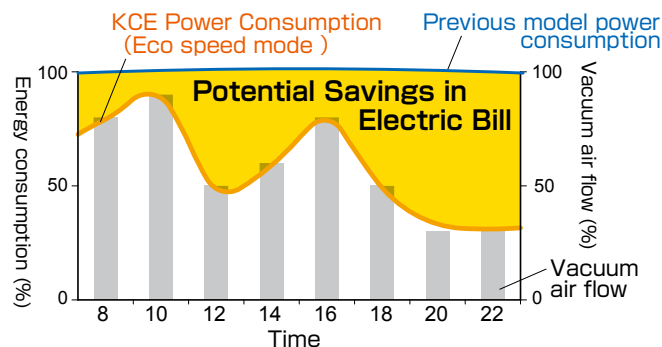


KCE KCP

eco speed control* for reduced electricity cost !


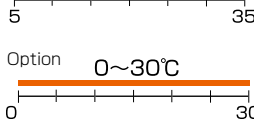

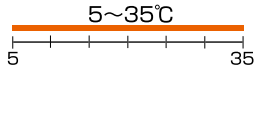

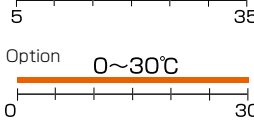

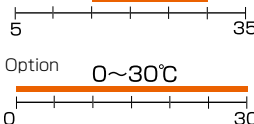

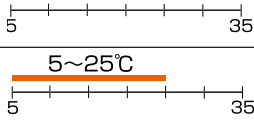

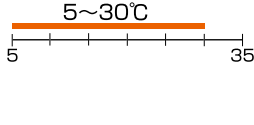

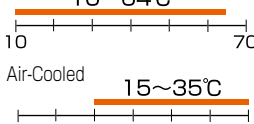
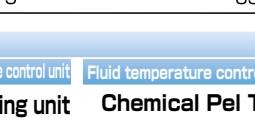
As seen in the graph below, the KCE brings its speed down to the capacity of vacuum air being used by the user for lower energy use.

* Saves energy by optimally adjusting the motor speed to match various load changes. (Patent pending)












Chiller & Dehumidifier

Orion water chillers cool down and/or control the temperature of a heat source by circulating water at a preset temperature. A refrigeration unit and a water supply system (water tank and pump) are packaged in one to easily serve a variety of applications. Dehumidifiers are widely used across a wide spectrum of industries, e.g. food processing, storage or molding, etc.

	Series	Features	Cooling Capacity	Temperature control range	Water tank
Energy saving chiller	 RKE750A1-V-G1 RKE1500B1-VW-G2	<ul style="list-style-type: none"> ● Max. 65% energy savings possible ● Temperature control accuracy of $\pm 0.1^{\circ}\text{C}$ ● Compact design 	Air-cooled Cooling Capacity 2.7 ~ 8.7kW Water-cooled Cooling Capacity 6.0 ~ 10.4kW	5~35°C  Option 0~30°C	built-in
	 RKED2200A-V RKED2200A-VW	<ul style="list-style-type: none"> ● Max. 65% energy saving is possible by inverter ● No trade-off between low load and high accuracy ● Safe and reliable design 	Air-cooled Cooling Capacity 7.9 ~ 31.4kW Water-cooled Cooling Capacity 9.8/10.4kW	5~35°C  Option 0~30°C	built-in
	 RKE11000A-V RKE11000A-VW	<ul style="list-style-type: none"> ● Operates with a maximum energy savings of 57% ● Highly accurate temperature control ● Comes with built-in communications interface as standard equipment 	Air-cooled Cooling Capacity 12.2 ~ 57/60kW Water-cooled Cooling Capacity 14.1 ~ 57/60kW	5~35°C  Option 0~30°C	built-in
	 RKE22000A-V Built to order	<ul style="list-style-type: none"> ● Operates with a maximum energy savings of 57% ● Highly accurate temperature control possible ● Comes with built-in communications interface as standard equipment 	Air-cooled Cooling Capacity 66.0 ~ 96kW Water-cooled Cooling Capacity 70 ~ 96kW	15~30°C  Option 0~30°C	built-in
Small chiller	RKS Series  RKS400F1-V RKS750F	<ul style="list-style-type: none"> ● Water tank and pump built into a single package ● Upper level water tank facilitates cleaning 	Air-cooled Cooling Capacity 0.89 ~ 1.02kW	5~30°C  Option 0~30°C	built-in
	RKL Series  RKL-3750-D RKL-7500-D	<ul style="list-style-type: none"> ● Built with a heat exchanging coil that inhibits clogging and can be disassembles when required ● Space saving design for space conscious layout. 	Air-cooled Cooling Capacity 7.9/8.5 ~ 25.0/27.1kW	5~30°C  Option 0~30°C	None
High accuracy water chiller	PEC Series  PEC400B1-VW, 900B1-VW	<ul style="list-style-type: none"> ● Control temperature $\pm 0.05^{\circ}\text{C}$ ● Ultimate energy saving with heat pump balance control (Up to 70 ~ 80%) ● No heater design works with wide water control ranges 	Water-cooled Cooling Capacity 1.0 ~ 4.0kW Air-cooled Cooling Capacity 6.2kW	Water-Cooled 10~64°C  Air-Cooled 15~35°C 	built-in

Fluid temperature control equipment

With free cooling function	Light duty chiller	Water temperature control unit	High accuracy water temperature control unit	Fluid temperature control equipment
Eco Hybrid Cooling capacity 28/33kW  FCC10A	Carry Cool Cooling capacity 160/190 ~ 500/520W  LPC1-J, LPC2-J, LPC2 LPB3	Pel Thermo Cooling capacity 116/104 ~ 232/220W  ETS101/ETS202	Thermoelectric cooling unit Cooling capacity 250W and more  EKS250-G2	Chemical Pel Thermo Cooling capacity 280 ~ 920W Heating capacity 600 ~ 1,800W  Cooling and heating unit Power unit
Chilled water supply unit One Way Chiller Cooling capacity 3.9/4.5 ~ 6.1/7.0 L/min  RKP1500B RKP2200B	Coolant Chiller Cooling capacity 2.5 ~ 7.2 kW  RCC750B1, RCC1500B1	Stored-Ice water cooling unit Cooling capacity 2.5/2.93 ~ 4.75/5.01 kW  RT55B RT130B	Dehumidifier Dehumidify capacity 1.4/1.6 ~ 13.7/15.6 L/h  RFB500F RFB1500F RFB3750F1	

67% Energy Saving

- CO₂ emission -4,075kg-CO₂/year
- Operation cost -JPY 149,100/year

Save energy with inverter chiller !

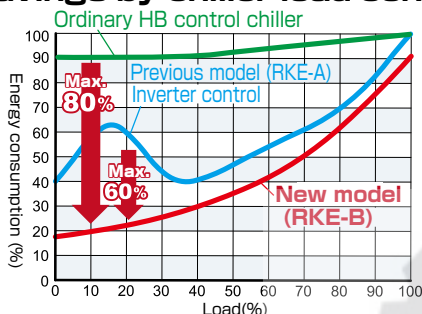


RKE3750B-V

RKE5500B-V

While power consumption of HB control chiller does not change much even when the cooling load is low because the compressor continuously runs at a constant speed, that of ORION inverter chiller follows the cooling load.

Comparison of energy savings by chiller load condition



※HB control...Hot gas Bypass control, which controls the water temperature by passing hot refrigerant gas in the refrigeration circuit.



There is a big differences between max. and min. loads.
Average load may be about half of max. load.

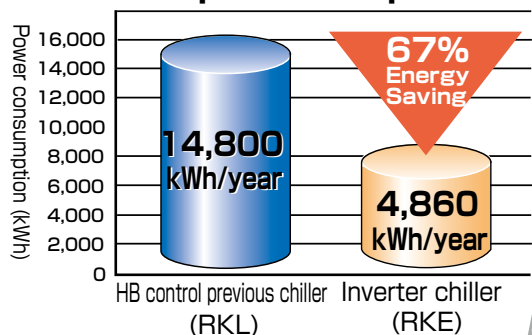
Compared condition

Models : · RKL-3750V-C 1 (HB control)
· RKE3750B-V (Inverter chiller)

Setting water temp. : 20°C
Max. load : 11.6kW
Min. load : 1.2kW
Avg. load : 6kW
Running hours : 10hours/day (250days/year)
Electricity bill : JPY 15/kWh



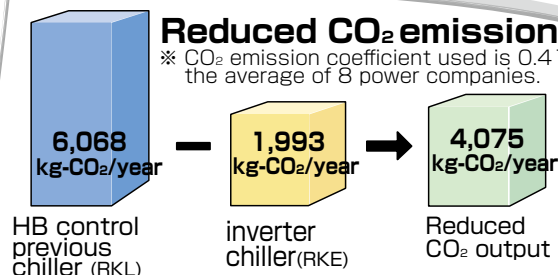
Yearly power consumption comparison



67% energy saving
Reduced CO₂ 4,075kg CO₂/year
JPY 149,100 saving/year
Inverter chiller may be the best solution for energy saving if cooling load greatly fluctuates.

Reduced CO₂ emission

※ CO₂ emission coefficient used is 0.410, the average of 8 power companies.



Effective energy savings (estimate)

Difference in power consumption : 14,800kWh-4,860kWh=9,940kWh


Effective energy savings : 9,940×JPY15=

JPY 149,100 / year

Compressed clean air system

Orion Clean Air System equipment includes clarification of compressed air and oil-water separation of drain. It maintains quality of compressed air supplied to pneumatic equipment and contributes to clean environment.

Refrigerated Air Dryer	Series	Features	Air processing capacity	Inlet air temperature	Suitable air compressors
	RAX light duty series  RAX6J RAX37J	<ul style="list-style-type: none"> ● SUS shell heat exchanger ● Preventive measure safety design ● Air intake filter standard equipment 	Air-cooled RAX3J ~ 55J 0.32/0.37 ~ 8.9/10.4 m³/min Water-cooled RAX55J-W 9.1/10.4 m³/min		Air-cooled 3 ~ 55kW Water-cooled 55kW
	RAX heavy duty series  RAX300F-E RAX240F-W	<ul style="list-style-type: none"> ● SUS shell heat exchanger ● Pressure loss less than 0.015MPa ● Easy maintenance and layout set up 	Air-cooled RAX75F ~ 380F-E 11/13 ~ 59/69 m³/min Water-cooled RAX75F-W ~ 450F-WE 12/14 ~ 83/98 m³/min		Air-cooled 75 ~ 380kW Water-cooled 75 ~ 450kW
	RAX-SE RAX high temp. inlet series  RAX22J-SE RAX75F-SE	<ul style="list-style-type: none"> ● SUS shell heat exchanger ● Pressure loss less than 0.015MPa 	Air-cooled RAX3J-SE ~ 75F-SE 0.32/0.37 ~ 11/13 m³/min		Air-cooled 3 ~ 75kW
	RAX-H RAX-H medium pressure series  RAX3.7J-H, 15J-H	<ul style="list-style-type: none"> ● SUS shell heat exchanger ● Working air pressure up to 1.57MPa 	Air-cooled RAX3.7J-H ~ 15J-H 0.36/0.42 ~ 1.3/1.5 m³/min		Air-cooled 3.7 ~ 15kW
	RAXE-SE DC inverter control for high temp. inlet applications  RAXE740B-SE RAXE1100B-SE	<ul style="list-style-type: none"> ● Max. 65% energy savings ● Safe and dependable design plus additional functionality ● Environmental friendly, RoHS 	Air-cooled RAXE740B-SE/1100B-SE 7.4/10.6 m³/min		Air-cooled 37 ~ 55kW
	RAXD Digital control for high temp. inlet applications  RAXD75A-SE RAXD100A-SE	<ul style="list-style-type: none"> ● Max. 68% Energy Savings ● High Temp. Air Processing Model ● Safe and reliable design 	Air-cooled RAXD75A-SE/100A-SE 13.9/15 ~ 19.7/22 m³/min		Air-cooled 75 ~ 100kW
	RAXE Inverter control  RAXE4900A RAXE2300A-W	<ul style="list-style-type: none"> ● Comes with energy saving dew point sensor ● Max. 60% energy savings ● Suitable for low pressure applications 	Air-cooled RAXE2300A ~ 9800A 23 ~ 82 m³/min Water-cooled RAXE2300A-W ~ 29600A-W 23 ~ 296 m³/min		Air-cooled 120 ~ 450kW Water-cooled 120 ~ 1300kW

Heatless air dryer				
Desiccant type	QSQ light/medium series	QSQ large series	QSQ-EDC series	Energy saving control unit
	Super Pack QSQ010A ~ 270B-E Inlet air volume 0.1 ~ 2.7 m³/min  QSQ020A QSQ120B-E	Super Pack QSQ420C-E ~ 2500C-E Inlet air volume 4.2 ~ 25.0 m³/min  QSQ420C-E QSQ1000C-E	Eco Pack QSQ420C-EDC ~ 2500C-EDC Inlet air volume 4.2 ~ 25.0 m³/min  QSQ420C-EDC QSQ1400C-EDC	EDC60A Dew point display -80 ~ 20°C 
Membrane type compressed air dryer	Compressed air cooling equipment	Compressed air temp control unit	Super low temperature air generator	Expansion separation compressed air drying equipment
Membrane type Air Dryer MD15 ~ 75-AF Outlet dew point -26 ~ -12°C  MD25-F MD75-AF	APX APX-8A-250 ~ 30A-1200 Adjustable output temperature range -30 ~ 0°C  APX-15A-500	ACU ACU100-MD ~ ACU2000B Temperature control range 16 ~ 30°C  ACU100-MD ACU2000B	KSC KSC200A/450A/750A Air consumption 100 ~ 1050L/min  KSC-750A, 200A	AE7 Air processing capacity 740L/min 

52% Energy Saving

- CO₂ emission -5,186 kg-CO₂/year
- Operation cost -JPY189,000/year

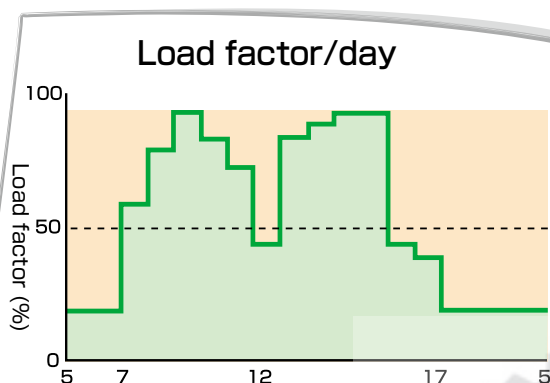
Energy Savings by Inverter Air Dryer !



RAXE740B-SE

RAXE1100B-SE

Standard Air Dryers constantly operate at a 100% load, resulting in high energy consumption. The inverter air dryer adapts to fluctuations in the load for potentially lower power consumption.

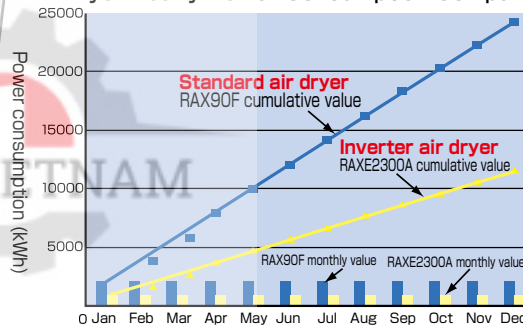


※ Graph data assuming a part of factory lines are operating 24 hours

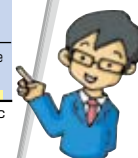


Below is a chart comparing the actual power consumption of the inverter air dryer and general air dryer. The inverter air dryer achieves great energy saving.

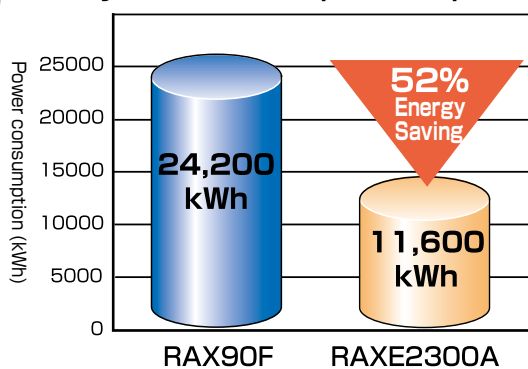
Air Dryer Yearly Power Consumption Comparison



Energy Savings is over 50%. Achieved huge reduction of CO₂ in terms of environmental protection.



Yearly Power Consumption Comparison

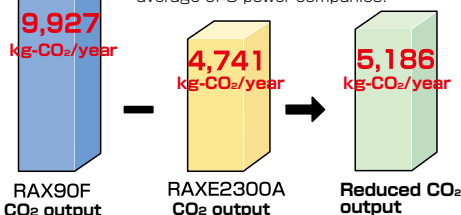


52% energy saving
Reduced CO₂ 5,186 kg CO₂/year
JPY 189,000 saving/year

Key points in utility room are, understanding of air consumption and change of pressure, and tractability of loads.

Reduced CO₂ emission

※ CO₂ emission coefficient used is 0.410, the average of 8 power companies.



Effective energy savings

Electricity charge : JPY15/kWh

Difference in power consumption :

24200kWh - 11600kWh = 12600kWh

Effective energy savings :

12600kWh × JPY15 = JPY189,000 /year

Compressed clean air system

Orion Clean Air System equipment includes clarification of compressed air and oil-water separation of drain. It maintains quality of compressed air supplied to pneumatic equipment and contributes to clean environment.

Compressed clean air system

Super Filter

DSF/LSF/MSF/KSF

Air processing capacity
0.35 ~ 318.9m³/min

Removing water droplet, solid particle, oil mist and oil vapor /odor



Final Filter

OFF/OFH series

Air processing capacity
0.26 ~ 1.06m³/min

Meets Air Purity Class 3 ~ 5



Membrane Type Final Filter

ISO 14644-1 Air Purity Class 3 (F.S.209D Class 1) fine particulate removal



Medium Pressure Spec. Filter

DFH/LFH/MFH/KFH series

Air processing capacity
5.7 ~ 29.0m³/min

Working pressure 1.57 MPa



Automatic drain release equipment

Drain Trap

"Solenoid Type" "Timer Type"

Automatic drain release of water and oil drainage

ADE4B

ADE300



Drain Trap

"Float Type" "Disc Type" "Motor Valve Type"

Automatic drain release of water and oil drainage



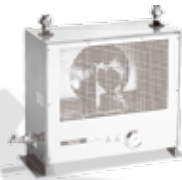
Aftercooler

Air-Cooled Aftercooler

SE

Air processing capacity
1.0 ~ 6.9m³/min

Pre-cooling of compressed air



Water-Cooled Aftercooler

TH/THP

Air processing capacity
1.7 ~ 393m³/min

Suitable for pre-cooling of compressed air in hot ambient condition



Compressed air tank

SUS compressed air tank

OAT

Volume 65 ~ 1090L

Tank built with SUS304



MST

Volume 39 ~ 3000L



Dew Point Monitor

MG

Simultaneous display of temperature and humidity or dew point



MG40A-P



MG40

MGR

Measurement and digital display of dew point and temperature

Dew point display
-30 ~ +20°C resolution 1/10
Temperature display
-20 ~ +80°C resolution 1/10



MGR20

Digital Differential Pressure Gauge

DGE70

Differential pressure detection for optimum air filter management

Differential pressure display range
-1.050 ~ 1.050MPa



Differential pressure gauge

DG • DGX • Element Life Indicator

Measures difference in pressures between inlet and outlet of a filter in a single gauge.

Differential pressure display range
0 ~ 0.15MPa



Filter Type Drain Processing Equipment

Pico-Drain

No electricity required.
Lightweight, Space saving, Energy saving
Main-processing concentrations below 5mg/L

ODF5



Compressed air drain processing equipment

Drain Processing Equipment - Drain Master

Meets Water Pollution Control Law effluent standard.
Greatly reduces condensate treatment cost.

OWD/OWC • OWM



OWC75



OWM30

Industrial Heater

Orion Jet Heaters are widely used for heating/drying applications including concrete cure at construction sites and factory/warehouse heating. They are eco-friendly with our technologies for quiet combustion and enhanced fuel efficiency.

Jet Heater BRITE IR Heater

ECO-SILENCE HRR480A-S

Quiet combustion and high fuel efficiency

- Heat output 40.7 ~ 24.3kW (5 Step combustion)
- Operation noise (50/60Hz) 55/55dB

Guideline of heat capacity*
Wooden construction 165㎡
Concrete construction 231㎡



Quiet operation during ceremony



Automatic rotation



ROBO-DAN HR120D

- Heat output 14.1kW
- Operation noise (50/60Hz) 55/55dB

Guideline of heat capacity*
Wooden construction 60㎡
Concrete construction 83㎡



HR220A

- Heat output 24.3kW
- Operation noise (50/60Hz) 66/66dB

Guideline of heat capacity*
Wooden construction 106㎡
Concrete construction 145㎡



Jet Heater BRITE IR Heater

Super Swing HRS330

- Heat output 38.8 ~ 28.1kW
- Operation noise (50/60Hz) 62/62dB

Guideline of heat capacity*
Wooden construction 159㎡
Concrete construction 218㎡



BRITE II HR330H

- Heat output 38.8 ~ 28.1kW
- Operation noise (50/60Hz) 62/62dB

Guideline of heat capacity*
Wooden construction 159㎡
Concrete construction 218㎡



HR330E-L

- Heat output 35.0kW
- Operation noise (50/60Hz) 65/65dB

Guideline of heat capacity*
Wooden construction 149㎡
Concrete construction 205㎡



Carry-Dan GH150H

- Heat output 16.7 ~ 8.1kW
- Operation noise (50/60Hz) 48/50dB

Guideline of heat capacity*
Wooden construction 73㎡
Concrete construction 96㎡



Quiet

Jet Heater Portable/Blow Heater

HPE80A

- Heat output High 8.8kW Low 6.3kW
- Operation noise (50/60Hz) 58/54dB



- High/Low 2 stage combustion
- Equipped with rotary gas burner

Quiet



HPE150A E Series

- Heat output 17.0kW
- Operation noise (50/60Hz) 70/70dB



HPE250 E Series

- Heat output High 29.2kW Low 20.0kW
- Operation noise (50/60Hz) 68/69dB

2 stage combustion



HPE310-L E Series

- Heat output 35.0kW
- Operation noise (50/60Hz) 68/69dB



Jet Heater Portable/Blow Heater

HPE370 E Series

- Heat output High 43.0kW Low 32.0kW
- Operation noise (50/60Hz) 70/71dB

2 stage combustion
2 step air flow



HPS830A

- Heat output 97.2kW
- Operation noise (50/60Hz) 74/78dB

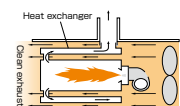


Jet Heater HS Heat Exchange/Blow Heater

HS290-L

- Heat output 33.3kW
- Operation noise (50/60Hz) 72/74dB

Delivers clean hot air by duct mounting.



Temperature Test Chamber

Orion products for environmental testing have demonstrated their reliability in applications for leading-edge industries such as semiconductors, LCDs and quartz oscillator requiring highly accurate temperature/humidity controls and providing severe temperature conditions for electronic devices testing.

ESV Compact Type Vertical Test Chamber

BTO

Suitable for reliability test of electronic devices



Turn Table Type Thermostatic Chamber

EST-S

Energy saving no heater low temp. test chamber

- Cost effective, turn-table type thermostatic chamber



EST-H

- New thermostatic test chamber with improved workability



Thermostatic environmental test chamber

Thermal Stream

BTO

Temperature and humidity control test chamber with a vertical slide door.

- Test temperature range between -40 and 100°C while even with the slide door open half.
- Temperature control range : -40°C ~ + 100°C



In-line temperature test chamber

Single temp. range

BTO

- Provides temperature characteristic test in line for automobile parts and crystal oscillator
- Thermal testing from -40 to +125°C possible even when the loading/unloading access is open.



Multi temp. range

BTO

- Multi chambers with different temperatures can be installed to meet various application requirements.
- Suitable for characteristic test of crystal oscillator and sensor at each temperature.

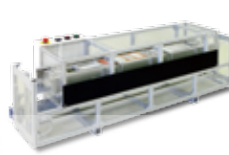


In-line micro device temperature test chamber

(Peltier Method)

BTO

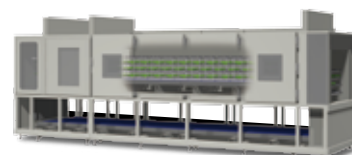
- Suitable for micro device high/low temperature test
- In-line temperature test chamber for small devices
- Fully automated thermal inspection for labor saving



In-line curing oven

BTO

- Rack conveyor or multi-carrier allows plenty of work processing.
- Suitable for adhesive curing, etc. Processes large amounts of work pieces compared with batch type.



Food Equipment

Orion Food Equipment contributes to cooking system innovation and development of the food culture. Rapid cooling equipment is indispensable for safe food production.

Dryman

- Food dryer without heater
- Precise and wide range temperature settings



RDF350A

Pico Blast

- Rapid cooling unit
- Compact to fit into an existing kitchen



RPB5

Blast Chiller & Freezer

- Rapid cooling and freezer
- Washable inner walls



RB202A

Chilledman Carry

- Most fresh food stocker without air flow
- Hard to dry out without plastic wrapping



RV350G-G1

For Orders and Inquiries:



ORION MACHINERY CO.,LTD.

ICHI VIETNAM INDUSTRIAL EQUIPMENT CO.,LTD

Office address : Lot C15 / D21 Cau Giay New Urban Area, Dich Vong Hau, Cau Giay, Hanoi

Hotline: +84 986.798.906/ +84 986.226.386

E-mail: sales@ichivina.com.vn / namdd@ichivina.com.vn

Website: www.ichivina.com.vn

This catalogue contains product specifications as of Aug., 2014.

- Actual product colors may vary slightly from catalogue.
- The structure or specifications of products contained in this catalogue are subject to change without prior notice.

No.0850 140425