

PAP[®] mini –Light Duty Series– Air cooled

Models

PAP01B
PAP01B-KJ
PAP03B
PAP03B-KJ

Air processing capacity **0.7~4m³/min**

Temperature control accuracy **±0.1°C**

Temperature setting range **18~30°C**

Humidity control accuracy **±1%** ※KJ models only

Humidity setting range **45~75%** ※KJ models only



PAP01B

PAP03B-KJ

<Special order model> For more information on special order models ▶ 21P

- Noise reducing intake duct ■ Circulation intake chamber
- Exhaust chamber ■ Compact chamber box

Please contact ORION regarding custom built models of specifications outside the ranges listed herein.



Intelligent monitor

Heat pump balance control

Flow control

HEPA filter (F type)

AIR

WATER

Temperature control

Humidity control (KJ type)



Temperature Control Type



Temperature And Humidity Control Type

Built-in Intelligent Monitor

Easy to use function keys for expanded functionality

List Of Main Functions

- F001** Automatic recovery after power outage
- F002** RUN/STOP control selection
- F003** Alarm signal output select
- F099** Settings lock
- F100** Controlled outlet air temperature warning

Specifications

Model		PAP01B	PAP01B-KJ	PAP03B	PAP03B-KJ	
Performance specifications	Possible temperature and humidity setting range ※1	18 ~ 30	18 ~ 30, 45 ~ 75	18 ~ 30	18 ~ 30, 45 ~ 75	
	Temperature and humidity control accuracy ※2	± 0.1	± 0.1, ± 1.0	± 0.1	± 0.1, ± 1.0	
	Cooling / heating output (50/60Hz)	0.33 / 0.39	0.77 / 0.84	1.44 / 1.6	1.8 / 2.12	
	(Maximum cooling output)	(0.22 / 0.26)	(0.37 / 0.44)	(0.94 / 1.1)	(1.2 / 1.42)	
Rated processing airflow	0.7 ~ 1.0		2.0 ~ 4.0			
Maximum external static pressure ※3	Pa	120/130	120/160	100	110	
Environmental conditions	Surrounding (intake air) temperature and humidity range ※1	15 ~ 35, 30 ~ 70				
	Temperature gradient at intake	Within ± 1				
	Humidity gradient at intake	Within ± 5				
Outside dimensions (H × D × W) ※4	mm	346×500×412	765×620×390	1062×590×570	1350×740×570	
Mass	kg	(32)	(69)	(104)	(150)	
Controlled air outlet port	mm	φ 75	φ 100	φ 100	φ 100	
Humidification water	Water quality	—	Deionized water (electrical conductivity: 1~10 μS/cm)	—	Deionized water (electrical conductivity: 1~10 μS/cm)	
	Maximum moisture output ※5	kg/h	—	0.8	—	2.3
	Supply temperature range	°C	—	10 ~ 40	—	10 ~ 40
	Connection port size	—	—	Rc1/4	—	Rc1/4
Power specifications	Power source ※6	V(Hz) Single phase 100V ± 10% (50/60)		Three-phase 200V ± 10% (50/60)		
	Power consumption	kW	0.32/0.34	1.2/1.2	0.6/0.7	3.0/3.5
	Electric current ※7	A	4.0/3.9	13/13	2.8/2.8	12/13
	Power capacity ※8	kVA	0.34/0.38	1.5/1.5	1.1/1.1	4.0/4.4
	Noise level (50/60Hz) ※9	dB	58/60	58/60	69/71	70/73
Refrigerant		R134a	R407c	R407c	R407c	
Compressor output	kW	0.25	0.3	0.4	0.9	

※ 1 The temperature control range noted does not necessarily indicate the actual controllable range possible. The range of temperature control depends on the condition of the air supplied at the intake. ※ 2 When the air temperature and humidity is stable at the air intake. Noted accuracy is based on measurement by the internal controller at a single air outlet point. Air flow at max. rated value. ※ 3 The noted external static pressure is when the controlled air is regulated at the outlet to produce the maximum rated processing air flow. ※ 4 Height includes outlet port. ※ 5 Operating at the highest level of humidification within the specified operating range. ※ 6 Source voltage phase unbalance should be less than ± 3%. ※ 7 Maximum value within the range of unit specifications. ※ 8 The figure noted is when the equipment is operating at the highest capacity of its normal operating range. ※ 9 Noise level can be decreased by installing a noise reducing duct.

ORION's compact class achieves the highest level of temperature control of $\pm 0.1\text{ }^{\circ}\text{C}$, and humidity control of $\pm 1\%$.

Simple and easy installation

You can plan on temperature and humidity control, and cleaning, in the air space where you need it, when you need it. And very easy to move or remove when no longer needed.

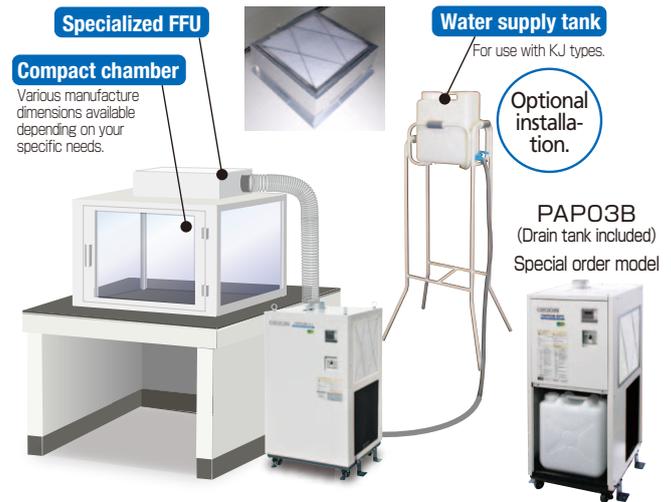
As much as 70% cut in heat output*

Extremely low heat output means less burden on the insides of the room, as well as the air processor.

* Compared with sustained compressor operation + heater reheat method.



ORION has a system that meets your needs.



An answer for each of your temperature control needs. Our dealers are happy to provide further information.

PAP mini

Compact design

PAP01B-KJ type
A compact design that fits neatly besides your work desk.

Height 730mm
Depth 620mm

PAP01B type
Can also be used on the desk top.

Height 346mm
Depth 500mm

External dimensions (units: mm)

Temperature control type	Temperature and humidity control type	Temperature control type	Temperature and humidity control type
PAP01B	PAP01B-KJ	PAP03B	PAP03B-KJ