

Non-Freon Hot Air Heat Pump

Eco Sirocco

No.1 in Hot Air Energy Efficiency

Compact & Lightweight for Easy Installation

Compared to conventional models, weight reduced by 17%

High Efficiency COP = 5.5

When supplying at 60°C

Possible to Connect Multiple Units

"With the expansion
of the temperature range,
fields and applications
are further expanding."

[Heating Applications]

- Laminators, coaters
- Gravure printing

[Drying / Dehumidifying Applications]

- Manufacturing plants (plastics, automotive, chemical, medical, etc.)
- Food factories (dried vegetables, powdered foods, etc.)

Heat air without burning

By using a heat pump, outside air can be heated up to 120°C at once.

Since no combustion is involved, there's no worry about nighttime automatic operation.

Environmentally friendly and cost-saving

Eco Sirocco is a high-efficiency, non-fluorocarbon heat pump just like Eco Cute.

Compared to combustion-based systems, it reduces CO₂ emissions and energy costs.



Outstanding energy efficiency unique to heat pumps

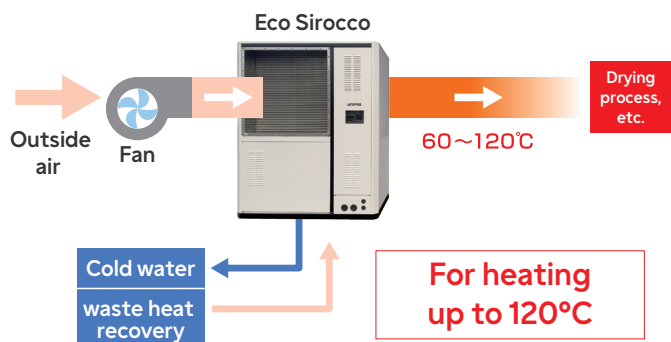
Most of the energy used for heating comes from the heat in the outside air or renewable energy, making it overwhelmingly efficient.

Compact body, wide temperature range, and greater efficiency

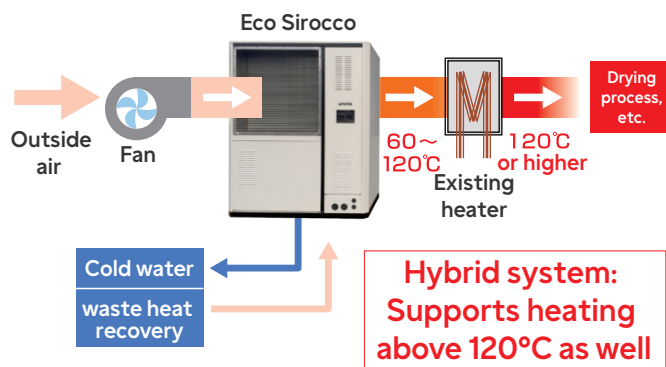
Capable of heating up to 120°C, covering needs below 80°C such as drying and air heating.

Improved air volume efficiency has been achieved, and its compact size reduces installation space requirements.

Application Example 1



Application Example 2

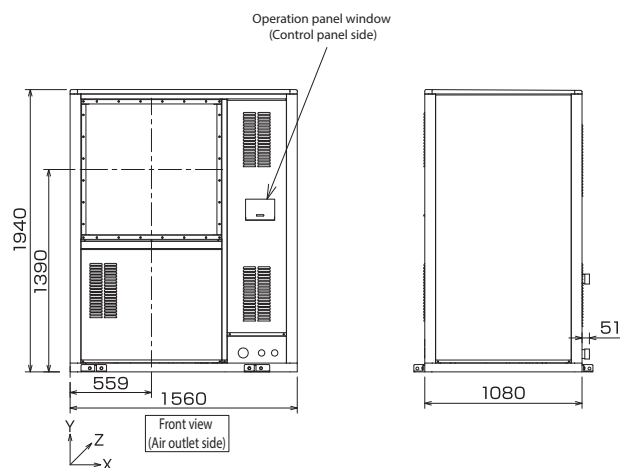
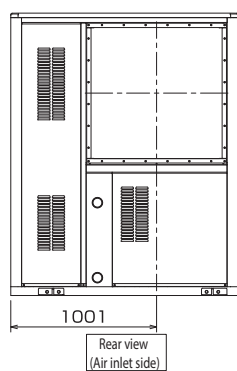
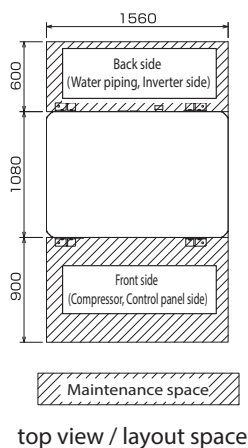


Specifications

Model		MUE-HAW-2HTCR			
Power Supply		3-phase AC200V 50Hz / 60Hz			
Performance*	Hot air outlet temp (℃)	60	80	100	120
	Heating capacity (kW)	120	123	107	89
	Cooling capacity (kW)	101	101	82	61
	Power consumption (kW)	21.8	27.2	29.0	28.7
	COP _H	5.5	4.5	3.7	3.1
	COP _C	4.6	3.7	2.8	2.1
	Hot air supply flow (Nm ³ /h)	8,470	5,770	3,690	2,460
	Heat source (cooling water) flow (L/min)	290	289	234	175
Outer dimensions (mm)		W1,080×L1,560×H1,940			
Weight (kg)		Net 1,750 (Operating 1,760)			
Refrigerant charge (t)		9.06 t (R744 CO ₂) <small>(no need for high-pressure gas manufacturing permit, refrigeration safety officer not required)</small>			

Compressor	Motor (kW·P)	25×4P
	Starting method	Inverter start
Refrigerant	R744 (CO ₂)	
Capacity Control	Inverter frequency control (30~65Hz)	
Operating Range	Air supply temp (°C)	60~120
	Air supply flow (Nm³/h)	1,500~8,500
	Heat source inlet water temp (°C)	0~40
	Heat source outlet water temp (°C)	-5~35
	Heat source water flow (L/min)	100~300
	Heat source water pressure (MPaG)	Max 1.0
	Ambient temp (°C)	-10~43
Noise Level (dBA)	60	
Notes	*Performance is based on air inlet temp of 20°C (RH 50%). *Cooling water (heat source water) conditions: inlet 30°C / outlet 25°C.	

External Dimensions Drawing



MAYEKAWA
MYCOM

Head office: 3-14-5 Botan Koto-ku, Tokyo 135-8482
Tel. (81)3-3642-6005 Fax. (81)3-3642-2815

Contact: Global Business Division Tel.(81)3-3642-8097

<http://www.mayekawa.com>

● The CO₂ Hot Air Heat Pump was jointly developed with Kansai Electric Power Co., Inc.
※ "mayekawa", "Ecosirocco", "unimo", and "Unimo" are registered trademarks of Mayekawa Mfg. Co., Ltd.
※ The contents of this brochure are subject to change without notice due to product improvements.

MAYEKAWA (THAILAND) CO., LTD.

2/3 Moo 14 Bangna Tower, Tower A, 4th fl., Bangna-Trad Rd,
Bangkaew, Bangplee, Samutprakarn 10540 Thailand.
Tel.(+66) 2751 9610-7 Fax.(+66) 2751 9565-6
<https://www.mayekawa.co.th>

