

Energy Ceiling Mounted Recovery Ventilator

Optimizing Performance for Oversea Market



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Product Performance Review
Core Features Recap

Advanced Operational Logic Defrosting Mode, Sleep Mode, Auto Bypass

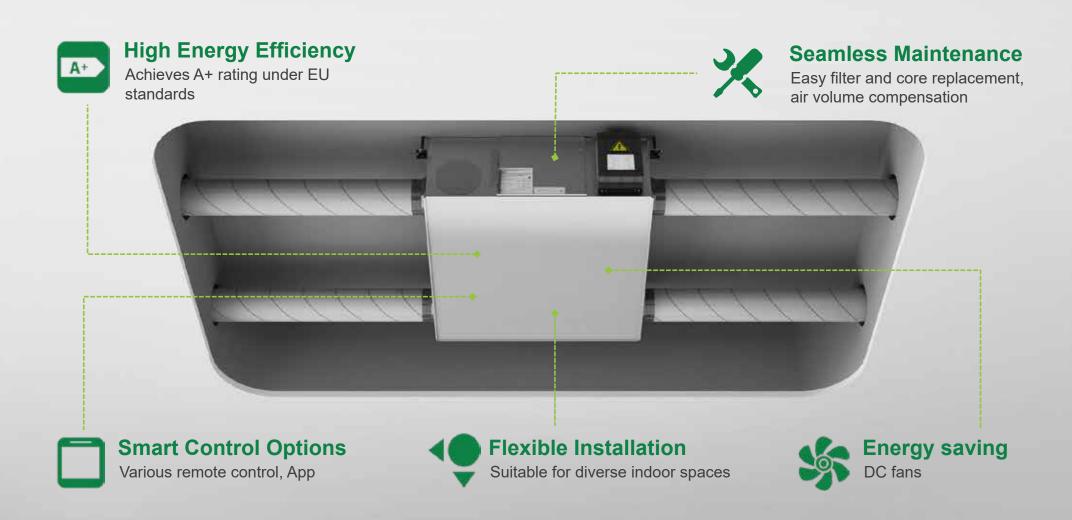
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Core Product Strengths





Technical Parameters



Model	Rated Airflow (CMH/CFM)	External Pressure (Pa)	Enthalpy Efficiency (%)		Temperature Efficiency (%)	Noise dB (A)	Voltage (V)	Input Power (W)	N.W. (kg)
			Cooling	Heating		` '			
CFA 150C	150/88	95	71-79	73-79	80-84	29	220-240/50Hz 120V/60Hz	58	20
CFA 250C	250/147	85	68-83	70-83	80-86	28	220-240/50Hz 120V/60Hz	62	23
CFA 350C	350/205	160	71-82	72-84	80-89	32	220-240/50Hz 120V/60Hz	140	30
CFA 500C	500/ 294	120	67-82	69-83	80-87	34	220-240/50Hz 120V/60Hz	165	33
CFA 650C	650/382	120	66-81	69-82	80-86	35	220-240/50Hz	252	38
CFA 800C	800/470	150	70-81	71-82	80-85	35	220-240/50H	335	48
CFA 1000C	1000/588	170	71-86	73-87	80-90	37	220-240/50H	420	54

Technical Parameters





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			Cooling	Heating	Efficiency (%)	(A)		Power (W)	
CFA 1500C	1500/882	175	71-81	72-82	80-85	39	220-240/50Hz	670	105
CFA 2000C	2000/1176	150	71-86	73-87	80-90	40	220-240/50Hz	850	117

Operating environment range: temperature -20° C ~45° C, relative humidity below 85% RH. Test standards: Japanese standard JISB 8628-2017/8639-2017.

Smart Control Options

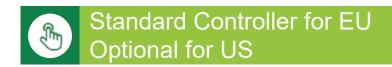








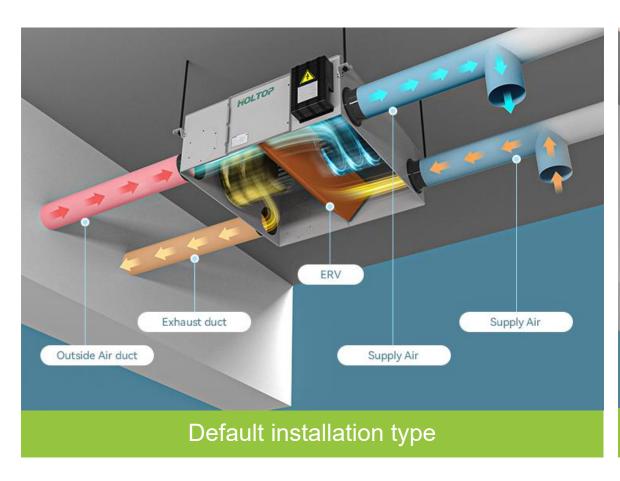


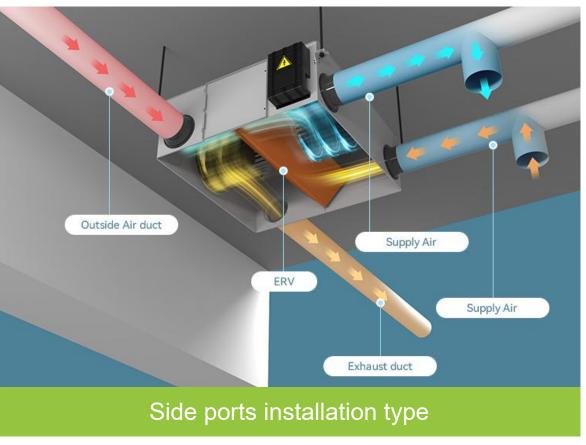




Flexible Installation







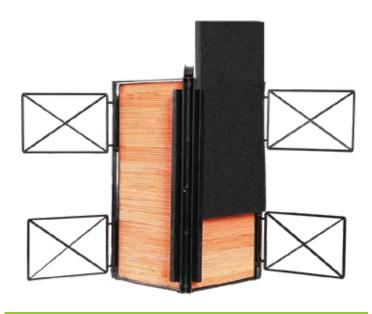
Core Features Recap





New DC Fans

Comparing with the old AC motor with metal casing, with 10 adjustable speeds, the new motor operate more stable, silent and energy-efficient, saving up to 40%.



Seamless Maintenance

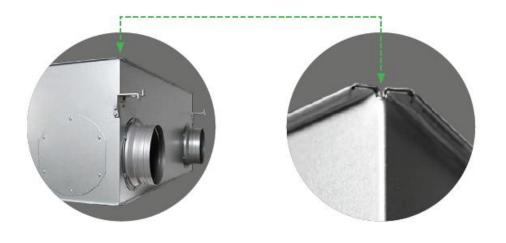
Easy filter replacement, air volume compensation



Core Features Recap

Heat Exchange & Occlusal edge sealing Technology





5th Gen Heat Exchanger

Higher efficiency ER paper Fireretardant, mildew-resistant materials.

Filter Options

G3, F7 filters (optional) for enhanced air quality.

Occlusal Edge Sealing Technology

Improve air-tightness and casing strength.

Advanced Operation Modes







Auto Bypass Mode



Advanced Sleep Mode



Auto defrosting/ Ultra Low-Temperature Mode



Preheating & Comfort heating function



Interlock with AC/ Modbus control



Auto Bypass Mode

When the outside air is comfortable, fresh air can be supplied directly into the room without heat exchange, and exhaust air can be exhausted out the room simultaneously to improve indoor air quality.

How It Works

Trigger Conditions

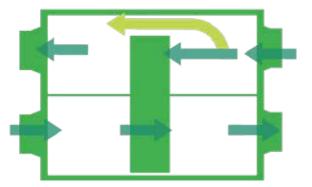
- Outdoor Air (OA) Temperature ≥ X (Set Temp)
- OA Temperature within X ± Y Range (Set Temp ± Deviation)

Example

- $X = 68^{\circ}F (20^{\circ}C), Y = 9^{\circ}F (5^{\circ}C)$
- Bypass Opens: OA temperature between 59°F 77°F (15°C 25°C)
- Bypass Closes: OA temperature outside this range.

Adjustable Parameters

• X (Set Temperature) and Y (Deviation) can be configured via parameter settings.





Advanced Sleep Function



Applies only to Sleep Mode

Designed for energy savings by using cooler night air during summer. Reduces load on the air conditioner when it starts the next morning.

How It Works

Operating Speed

Runs at a set speed (default: Speed 2) – adjustable from 1 to 10 speed

Startup Conditions

- Indoor Temp (RA) Outdoor Temp (OA) > Set Temp Difference
- OA Temperature > Set Temp
- If Conditions Aren't Met: The system runs in its original state

Example: Summer Operation

- Night Purification Mode:
- Pulls in cool outside air at night to pre-cool the space.





Auto Defrosting

Auto Defrosting Trigger Conditions

Fresh Air (OA) Temperature

- Below 23°F (-5°C) for 1 minute
- Last defrost: At least 30 minutes ago

Anti-Frost Sequence

- Exhaust Fan: Runs at high speed
- Supply Fan: Stops
- Anti-Frost Icon: Displayed

Duration

- Anti-frost mode runs for 10 minutes (can be adjusted).
- After 10 minutes, the system resumes its original state.

Ultra Low Temperature Operation

OA Temperature: 5°F to 14°F (-15°C to -10°C)

- Fan Operation Sequence (85 min cycle):
- 5 min: Supply + Exhaust fans ON
- 10 min: Exhaust fan ONLY (Supply fan OFF)
- 60 min: Supply + Exhaust fans at lowest speed
- 10 min: Exhaust fan ONLY (Supply fan OFF)

OA Temperature: < 5°F (< -15°C)

- Fan Operation Sequence (75 min cycle):
- 5 min: Supply + Exhaust fans ON
- 55 min: Both fans OFF
- 5 min: Supply fan ONLY
- 10 min: Exhaust fan ONLY

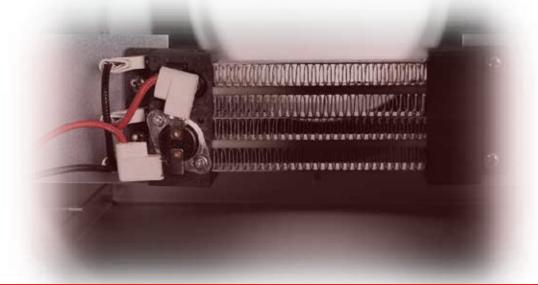
ERV & Electric Heater Interlock Logic



Temperature Range: 16°C – 30°C

Conditions:

- SA ≥ Set Temp: Electric heater OFF, all icons OFF
- SA < Set Temp 1°C (1 min): Preheating ON, preheating icon ON
- SA < Set Temp 5°C (1 min): Preheating + Heating ON, both icons ON
- SA ≥ Set Temp 2°C (1 min): Heating OFF, heating icon OFF



ERV & AC Interlock



Integration with External Devices

Modbus Protocol:

Allows seamless communication with various building management systems.

HVAC Systems Like AC:

Enables coordinated control for optimized indoor climate.

ERV Control External Devices

Dampers:

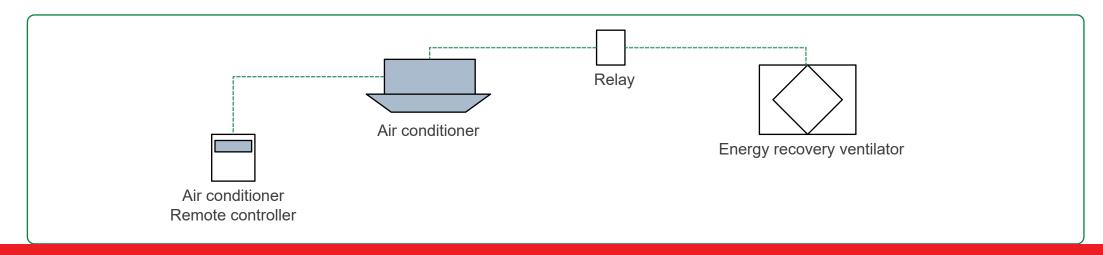
Automatic adjustment for optimal airflow management.

Switches:

Control external equipment based on system performance and requirements.

Electrical heater

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Temperature Calibration



Purpose

- Ensure accurate temperature and humidity readings.
- Prevent incorrect operation of key functions like:
- Anti-frost mode
- Automatic bypass function

How It Works

Manual Calibration:

Adjust when sensor readings deviate from actual values.

Calibration Parameters:

Set calibration values for temperature and humidity at three air outlets.



Accurate calibration is critical for optimal system performance.



Maintenance & Airflow Compensation

Purpose

- Compensate for Air Volume Loss caused by dust buildup in filters, which increases resistance over time.
- Ensure stable airflow during long-term operation at the highest speed.

How It Works

- Regular Fan Pressurization
- Supply Fan: Pressurizes every 40 days
- Exhaust Fan: Pressurizes every 80 days
- Pressurization Percentage: Adjustable in system parameters.

Filter Cleaning Reset

When the filter is cleaned and the filter icon disappears, the air volume compensation resets to normal.

Cumulative Pressurization:

Cannot exceed the system's maximum control voltage

1

Regular Fan Pressurization:

- Supply fan: Every 40 days
- Exhaust fan: Every 80 days

2

Filter/heat exchanger Cleaning

Alarm: Countdown, Differential pressure switch(optional)

3

Airflow Compensation:

Automatically restores airflow settings



App Control

Indoor Air Quality Monitoring (track real-time)

- Weather & Temperature
- Humidity
- CO₂ Levels
- VOC Concentration

Variable Settings

- Timely Switches & Fan Speeds
- Bypass Mode, Timer, and Filter Alarm
- Temperature Adjustments

Language Options

Supports multiple languages: English, French, Italian, Spanish, and more.

Group Control

One App can control multiple units for convenient management.



EU/UK Market Compliance







EC Certification(EMC LVD)

Ensures compliance with European standards.

2



RoHS

Ensure compliance with the CE/UKCA regulation requirements

3



UKCA Certification

Ensures compliance with UK regulation requirements.



FLIX

North American Market Compliance





CSA Certification

Ensures compliance with North American standards.





HVI Certification

Plan to apply





Climate Adaptability

Designed for Canadian/US winters and summers



Partnership & Support Model



1

Technical Support: Installation guidance, after-sales training 2

Marketing Support: catalog, video, etc.

3

Customization
Services:
Tailored solutions for different needs











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