



Commercial Heat & Energy Recovery

Standard, Low-Profile, and
Advanced Commercial HRV/ERV

500-11000 CFM



Commercial HRV/ERV

building air quality

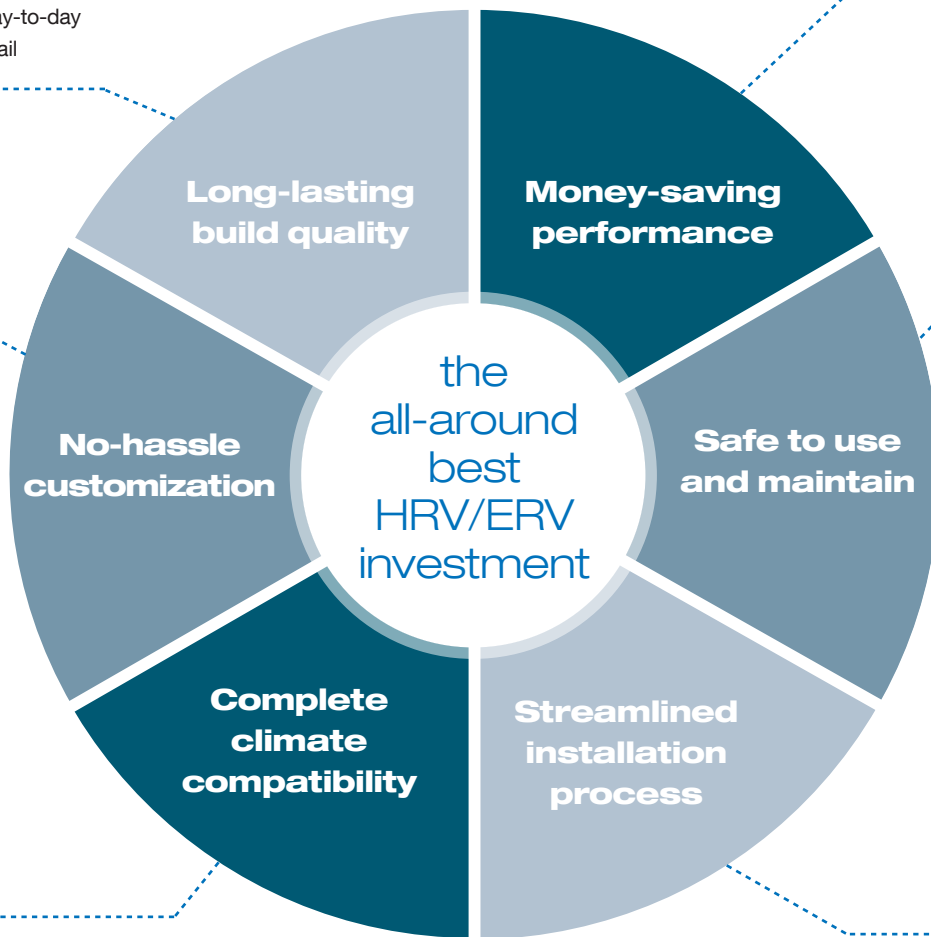
What do you consider when selecting a Heat or Energy Recovery Ventilator for a commercial project? Cost, code compliance, performance, size, airflow, custom options, compatibility with other HVAC equipment, production time, installation cost, maintenance, warranty, equipment life expectancy, return on investment, or all of the above? What about the fundamental concerns: Will this product do what the manufacturer claims? Will the building occupants benefit from increased comfort and improved indoor air quality? Is it a good investment?

Aldes knows that HRV/ERV decisions are never taken lightly. That's why we manufacture our Commercial HRV/ERVs with the features you need, the performance you expect, and the superior build quality you deserve. We offer all available types of air-to-air heat exchangers in a variety of price points and configurations. Every job is custom built to your exact design parameters. We want it to be painless to specify an Aldes unit. We want you to be confident in your choice – from the moment you make the selection to years after installation. Aldes has more than 30 years of experience providing the finest ventilation solutions in North America. Your business is our pleasure. Your satisfaction is our priority.

Why Choose a Commercial HRV/ERV?

- Each unit is built from the inside out with standard double-wall, heavy-gauge steel cabinets
- Every element is engineered to endure the rigors of day-to-day use for years without fail

- Every unit is AHRI certified to Standard 1060
- Choose from all available methods of sensible only and sensible and latent heat recovery for maximum energy savings
- Units are designed to integrate with building equipment for total HVAC synergy



- Spectrum of customization from turnkey to tailor-made
- Build and submit units in minutes with Aldes Selector™ Software

- Units meet rigorous safety standards and require minimal upkeep
- Long warranties on recovery cores/wheels and components provide years of worry-free use

- Models can be installed indoors or outdoors
- Multiple frost-control strategies are available, as are heating and cooling coils for added thermal conditioning

- Everything is pre-wired for simple, safe electrical connections and reduced set-up time
- Multiple configurations, including mirror image cabinets, are available for orienting the unit to the space

Commercial Ranges

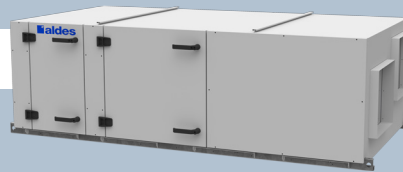
Advanced Commercial Series

the customized solution



Low-Profile Commercial Series

the space-saving solution



Standard Commercial Series

the turnkey solution



Nominal Capacity	500-4000 CFM	500-3500 CFM	1000-11000 CFM
Interior Models	X	X	X
Exterior Models	X	X	X
Aluminum Core	X	X	X
Polypropylene Core	X	X	X
Enthalpic Core	X	X	X
Desiccant Wheel		X	X
Fan Exhaust Defrost	X	X	X
Recirculation Defrost	X	X	X
Pre-Heat Coils (Electric & Hot Water)	X	X	X
Face & Bypass Damper			X
Wheel Speed VFD		X	X
Electric Post-Heating Coils	X	X	X
Hot Water Post-Heating Coils	X	X	X
Cold Water Cooling Coils			X
DX Cooling Coils			X



Selection Simplicity with Aldes Selector™ Software

Selector™ puts you in the designer's seat and ensures a better finished product



- Select models based on your exact design conditions and parameters
- Compare similar Commercial Series units for the best fit
- Receive detailed submittals for your unit
- Generate project schedules to indicate critical performance data
- Share designs and import projects directly into the software
- Streamline your workflow

Selector™ is available by request. Contact techsupport-us@aldes.com

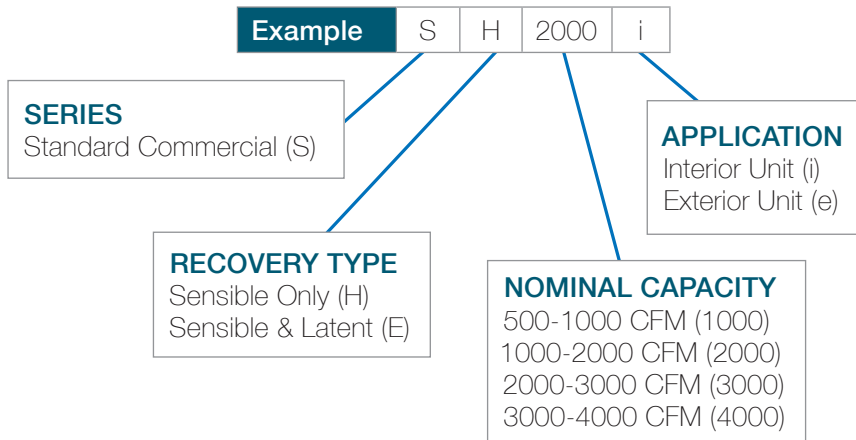
Typical Applications



Offices • Hotels • Hospitals • Schools • Shopping Centers
Restaurants • Casinos • Dormitories • Auditoriums • Pools & Spas
Warehouses • Animal Care Facilities • Laboratories • Manufacturing Plants
Retirement Homes • Day Care Centers • Correctional Facilities
Religious Spaces • Theatres • Health Clubs

Standard Commercial Series

Reading the Model Code



MODELS			
SH1000i	SH1000e	SE1000i	SE1000e
SH2000i	SH2000e	SE2000i	SE2000e
SH3000i	SH3000e	SE3000i	SE3000e
SH4000i	SH4000e	SE4000i	SE4000e

Interior Model

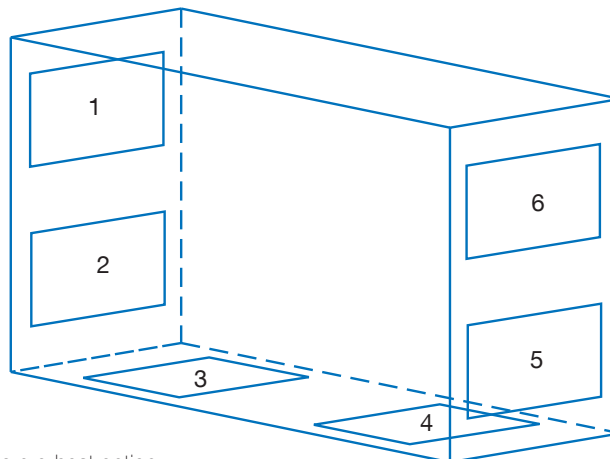


Exterior Model



Duct Configurations

AVAILABLE DUCT CONFIGURATIONS*
1 - 2 - 5 - 6**
1 - 3 - 5 - 6**
1 - 2 - 4 - 6
1 - 3 - 4 - 6

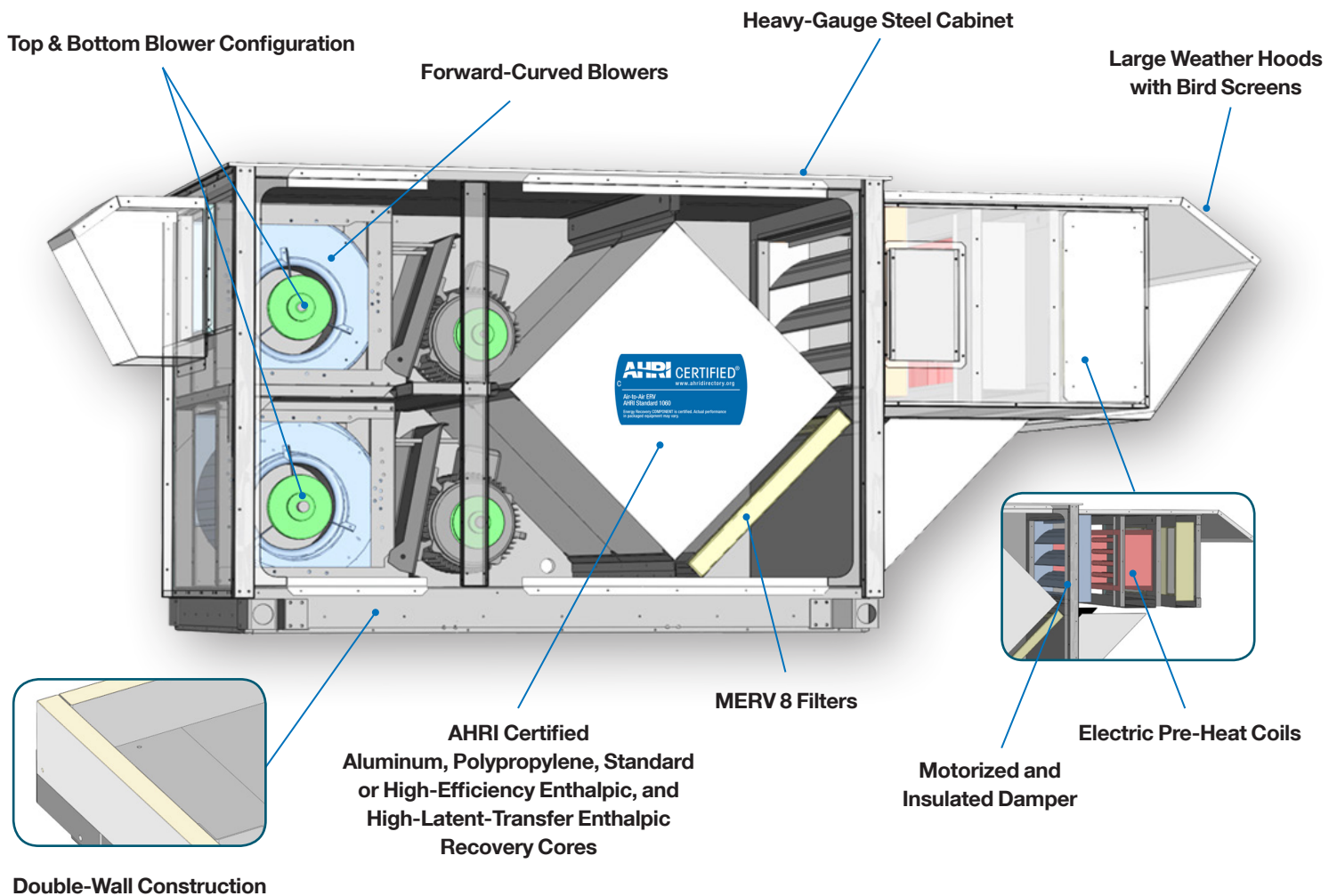


DUCT CONNECTION KEY	
1	EXHAUST AIR
2, 3	SUPPLY AIR
4, 5	RETURN AIR
6	OUTSIDE AIR

* Mirror image cabinet also available

**Configuration not available with electric pre-heat option
(Only applies to SE1000e and SH1000e)

Standard Series KEY FEATURES



Additional Features

- Automotive-Quality Door Seal
- Single-Point Power Connection
- No-Screw-Through Design
- Insulation Value of R-4.3
- Conduit-Sleeved Cable Protection
- Four Duct Configurations
- Non-Fused Disconnect
- ODP or TEFC Type Motors
- EPAct or Premium Efficiency Motors
- Adjustable Speed Motors
- Pre-Wired Control Panel with Separated High and Low Voltages
- ETL Listed

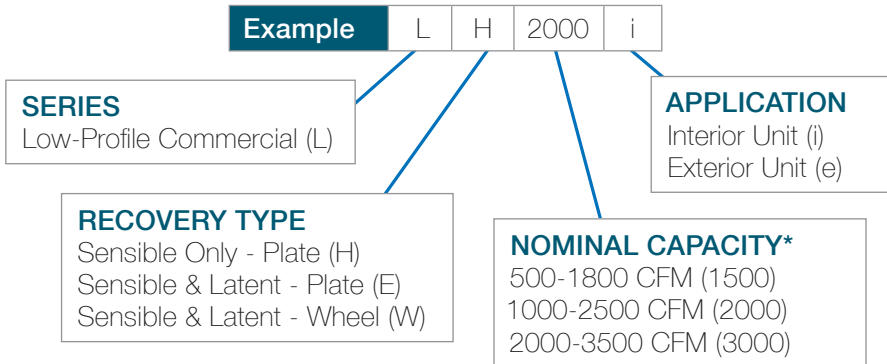
Optional Features

- Baked Enamel Exterior Finish
- "Pool Construction Package" (stainless steel interior, epoxy-coated blowers, totally enclosed motors)
- Heavy-Gauge Steel Roof Curb (optional insulation)
- Fan Exhaust Defrost, Recirculation Defrost, Electric or Hot Water Pre-Heat Coils*
- EC Motors
- Electric or Hot Water Post-Heat Coils
- MERV 13 Supply Filters
- Fused Disconnect
- Mirror Image Cabinet
- Motorized and Insulated Dampers for Exhaust and Outdoor Air Openings
- Non-Insulated Backdraft Damper
- Additional 24 VAC, 20 VA power connection for accessories

* Internal pre-heat coils on models 2000 CFM and higher.

Low-Profile Commercial Series

Reading the Model Code

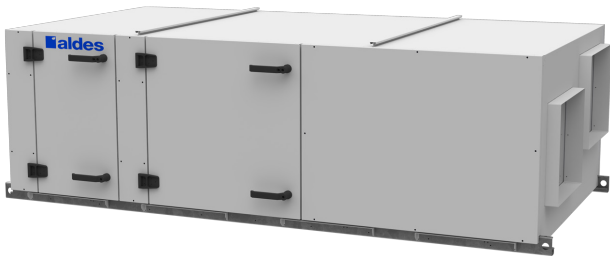


MODELS		
LH2000i	LE2000i	LW1500i
LH2000e	LE2000e	LW1500e
LH3000i	LE3000i	LW3000i
LH3000e	LE3000e	LW3000e

*Wheel capacities vary slightly.
Please see spec sheets for CFM ranges.

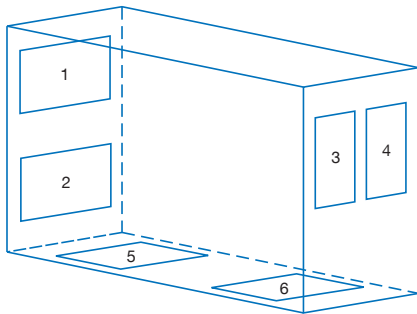
Interior Model

Exterior Model

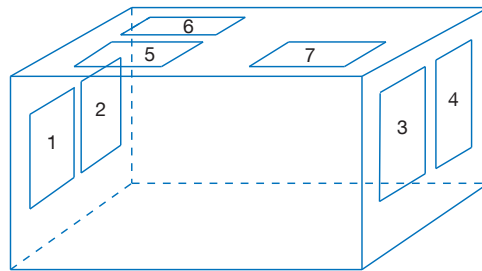


Duct Configurations

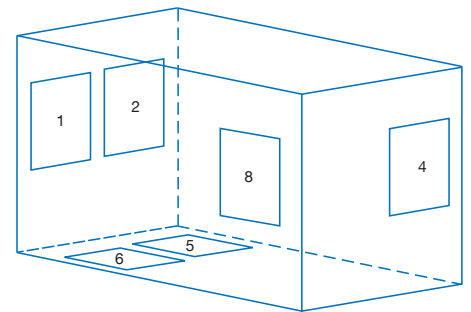
All Plate Models



Wheel Models – Interior



Wheel Models – Exterior



AVAILABLE DUCT CONFIGURATIONS*	DUCT CONNECTION KEY	
1 - 2 - 3 - 4**	1	OUTSIDE AIR
1 - 2 - 3 - 6**	2, 5	RETURN AIR
1 - 3 - 4 - 5	3	EXHAUST AIR
1 - 3 - 5 - 6	4, 6	SUPPLY AIR

AVAILABLE DUCT CONFIGURATIONS*	DUCT CONNECTION KEY	
1 - 2 - 3 - 4 2 - 3 - 4 - 5	1, 5	RETURN AIR
1 - 3 - 4 - 6 2 - 4 - 5 - 7	2, 6	SUPPLY AIR
1 - 4 - 6 - 7 3 - 4 - 5 - 6	3, 7	EXHAUST AIR
1 - 2 - 4 - 7 4 - 5 - 6 - 7	4	OUTSIDE AIR

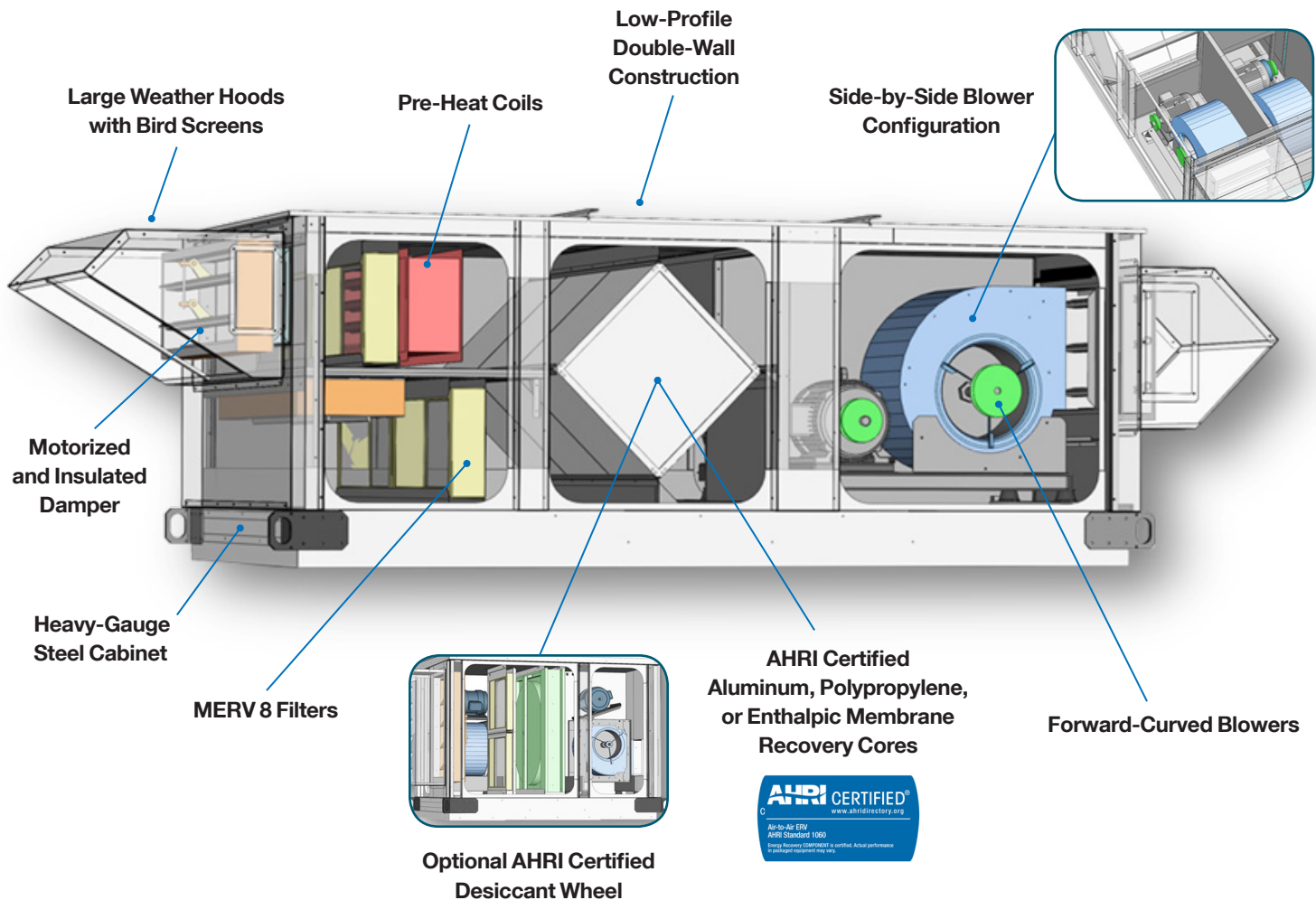
AVAILABLE DUCT CONFIGURATIONS*	DUCT CONNECTION KEY	
1 - 2 - 4 - 8	1, 6	RETURN AIR
4 - 5 - 6 - 8	2, 5	SUPPLY AIR
2 - 4 - 6 - 8	8	EXHAUST AIR
1 - 4 - 5 - 8	4	OUTSIDE AIR

* Mirror image cabinet also available

**Configuration not available for exterior models

Low-Profile Series

KEY FEATURES



Additional Features

- Automotive-Quality Door Seal
- Single-Point Power Connection
- No-Screw-Through Design
- Insulation Value of R-4.3 (interior units) and R-8.6 (exterior units)
- Conduit-Sleeved Cable Protection
- Multiple Duct Configurations
- Non-Fused Disconnect
- EAct or Premium Efficiency Motors
- Adjustable Speed Motors
- Pre-Wired Control Panel with Separated High and Low Voltages
- ETL Listed

Optional Features

- Baked Enamel Exterior Finish
- "Pool Construction Package" (stainless steel interior, epoxy-coated blowers, totally enclosed motors)
- Heavy-Gauge Steel Roof Curb (optional insulation)
- Fan Exhaust Defrost, Recirculation, Pre-Heat Coils (Electric or Hot Water) and Wheel Speed VFD*
- Electric or Hot Water Post-Heat Coils
- MERV 13 Filters
- Fused Disconnect
- Mirror Image Cabinet
- Motorized and Insulated Dampers for Exhaust and Outdoor Air Openings
- Non-Insulated Backdraft Damper
- Mechanical Purge*
- Low Temperature Limit
- Dirty Filters Contact
- Low Airflow Switch
- Phase Loss Detection
- Wheel Rotation Detection*
- Economizer Cycle*
- Damper End Switch
- Programmable Timer
- BACnet Compatible Controller (IP or MS/TP communications protocol)
- Remote Keypad (optional touchscreen)

* Wheel models only

Advanced Commercial Series

Reading the Model Code

Example C H 2000 i

SERIES
Advanced Commercial (C)

APPLICATION
Interior Unit (i)
Exterior Unit (e)

RECOVERY TYPE
Sensible Only - Plate (H)
Sensible & Latent - Plate (E)
Sensible & Latent - Wheel (W)

NOMINAL CAPACITY*
1000-2500 CFM (2000)
2000-3500 CFM (3000)
3500-5500 CFM (5000)
5500-7000 CFM (6500)
7000-8500 CFM (8000)
8500-10500 CFM (10000)

MODELS		
CH2000i/e	CE2000i/e	CW2000i/e
CH3000i/e	CE3000i/e	CW3000i/e
CH5000i/e	CE5000i/e	CW5000i/e
CH6500i/e	CE6500i/e	CW6500i/e
CH8000i/e	CE8000i/e	CW8000i/e
CH10000i/e	CE10000i/e	CW10000i/e

*Wheel capacities vary slightly.
Please see spec sheets for CFM ranges.

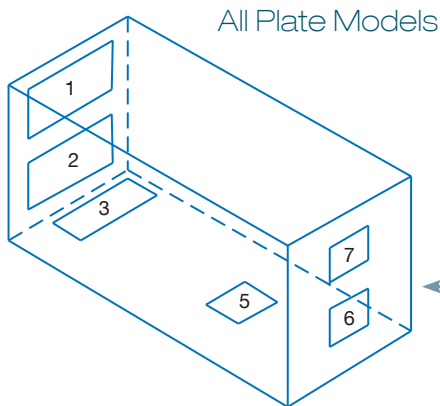
Interior Model



Exterior Model

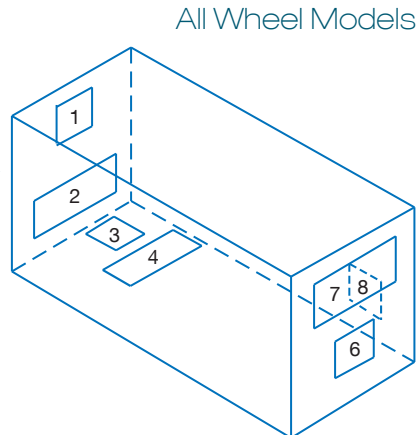


Duct Configurations



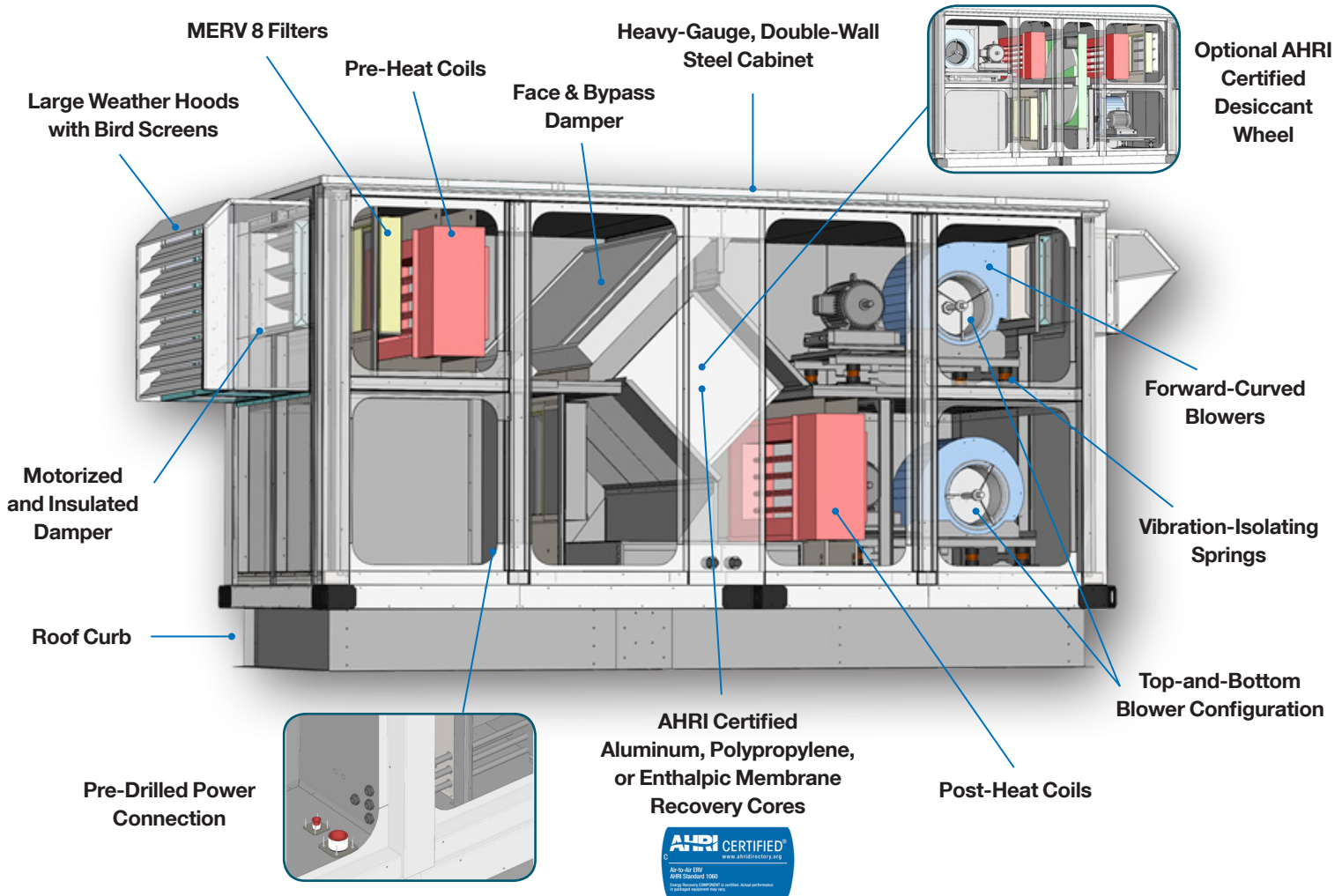
AVAILABLE DUCT CONFIGURATIONS*		AVAILABLE DUCT CONFIGURATIONS*	
1 - 2 - 6 - 7		3 - 4 - 7 - 8	1 - 4 - 7 - 8
1 - 3 - 5 - 7		3 - 4 - 6 - 7**	1 - 4 - 6 - 7**
1 - 3 - 6 - 7		1 - 2 - 7 - 8	2 - 3 - 7 - 8
1 - 2 - 5 - 7		1 - 2 - 6 - 7**	2 - 3 - 6 - 7**

DUCT CONNECTION KEY		DUCT CONNECTION KEY	
1	OUTDOOR AIR	1, 3	SUPPLY AIR
2, 3	RETURN AIR	2, 4	RETURN AIR
5, 6	SUPPLY AIR	6, 8	EXHAUST AIR
7	EXHAUST AIR	7	OUTSIDE AIR



* Mirror image cabinet also available
** Configuration not available for exterior models

Advanced Series KEY FEATURES



Additional Features

- Automotive-Quality Door Seal
- Single-Point Power Connection
- No-Screw-Through Design
- Thermal Bridging Breaks
- Insulation Value of R-10
- Conduit-Sleeved Cable Protection
- Multiple Duct Configurations
- EAct or Premium Efficiency Motors
- Adjustable Speed Motors
- Pre-Wired Control Panel with Separated High and Low Voltages
- Front or Back Piping Connections
- Baked Enamel Exterior Finish
- Non-Fused Disconnect
- ETL Listed

Optional Features

- "Pool Construction Package" (stainless steel interior, epoxy-coated blowers, totally enclosed motors)
- Heavy-Gauge Steel Roof Curb (optional insulation)
- Fan Exhaust Defrost, Recirculation, Pre-Heat Coils (Electric or Hot Water), Face and Bypass Damper, and Wheel Speed VFD*
- Electric or Hot Water Post-Heat Coils
- Cold Water or DX Cooling Coils
- MERV 13 Final Filters
- Backward-Inclined Blowers
- Mirror Image Cabinet
- Motorized and Insulated Dampers for Exhaust and Outdoor Air Openings
- Fused Disconnect
- Non-Insulated Backdraft Damper
- Mechanical Purge*
- Low Temperature Limit
- Economizer Cycle
- Dirty Filters Contact
- Low Airflow Switch
- Phase Loss Detection
- Wheel Rotation Detection*
- Damper End Switch
- Programmable Timer
- CO₂ and/or Relative Humidity Sensor
- BACnet Compatible Controller (IP or MS/TP communications protocol)
- Remote Keypad (optional touchscreen)

* Wheel models only

www.aldes.us

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