ADVANCED, LOW-PROFILE, AND INSPIRAIR COMMERCIAL HRV/ERV

#HealthyLiving

COMMERCIAL HEAT & ENERGY RECOVERY

500-11000 CFM
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
- Spectrum of customization from turnkey to tailor-made
- Build and submit units in minutes with Aldes Selector™ Software

Long-lasting build quality

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

Money-saving performance

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

No-hassle customization

- 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

Complete climate compatibility

- Streamlined installation process

Safe to use and maintain
## COMMERCIAL RANGES

### Advanced Commercial Series

the customized solution

### Low-Profile Commercial Series

the space-saving solution

### InspirAIR® Commercial Series

the turnkey solution

<table>
<thead>
<tr>
<th>Nominal Capacity</th>
<th>500-4000 CFM</th>
<th>500-3500 CFM</th>
<th>1000-11000 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior Models</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Exterior Models</td>
<td>X</td>
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<tr>
<td>Aluminum Core</td>
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<td>Polypropylene Core</td>
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<td>Enthalpic Core</td>
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<td>Desiccant Wheel</td>
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<td>Recirculation Defrost</td>
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<td>Pre-Heat Coils (Electric &amp; Hot Water)</td>
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<td>Face &amp; Bypass Damper</td>
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<td>Wheel Speed VFD</td>
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<td>Hot Water Post-Heating Coils</td>
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<td>Cold Water Cooling Coils</td>
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<td>DX Cooling Coils</td>
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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 your ALDES sales advisor.

### 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
ADVANCED COMMERCIAL SERIES

Reading the Model Code

Example

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

All Plate Models

Available Duct Configurations*
1 - 2 - 6 - 7
1 - 3 - 5 - 7
1 - 3 - 6 - 7
1 - 2 - 5 - 7
3 - 4 - 7 - 8
3 - 4 - 6 - 7**
1 - 4 - 6 - 7**
1 - 2 - 7 - 8
2 - 3 - 7 - 8
1 - 2 - 6 - 7**
2 - 3 - 6 - 7**

Duct Connection Key
1 OUTDOOR AIR
2, 3 RETURN AIR
5, 6 SUPPLY AIR
7 EXHAUST AIR
1, 3 SUPPLY AIR
2, 4 RETURN AIR
6, 8 EXHAUST AIR
7 OUTSIDE AIR

All Wheel Models

Available Duct Configurations*
1 - 2 - 6 - 7
1 - 3 - 5 - 7
1 - 3 - 6 - 7
1 - 2 - 5 - 7
3 - 4 - 7 - 8
3 - 4 - 6 - 7**
1 - 4 - 6 - 7**
1 - 2 - 7 - 8
2 - 3 - 7 - 8
1 - 2 - 6 - 7**
2 - 3 - 6 - 7**

Duct Connection Key
1 OUTDOOR AIR
2, 3 RETURN AIR
5, 6 SUPPLY AIR
7 EXHAUST AIR
1, 3 SUPPLY AIR
2, 4 RETURN AIR
6, 8 EXHAUST AIR
7 OUTSIDE AIR

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

- **Heavy-Gauge, Double-Wall Steel Cabinet**
- **Pre-Heat Coils**
- **Face & Bypass Damper**
- **AHRI Certified Aluminum, Polypropylene, or Enthalpic Membrane Recovery Cores**
- **Post-Heat Coils**
- **Optional AHRI Certified Desiccant Wheel**
- **Vibration-Isolating Springs**
- **Forward-Curved Blowers**
- **Top-and-Bottom Blower Configuration**
- **MERV 8 Filters**
- **Large Weather Hoods with Bird Screens**
- **Motorized and Insulated Damper**
- **Pre-Drilled Power Connection**
- **Roof Curb**

**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
- EPAct 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
LOW-PROFILE SERIES

Reading the Model Code

Example: L H 2000 i

- **SERIES**: Low-Profile Commercial (L)
- **RECOVERY TYPE**: Sensible Only - Plate (H) Sensible & Latent - Plate (E)
- **APPLICATION**: Interior Unit (i) Exterior Unit (e)
- **NOMINAL CAPACITY**:
  - 1000-2500 CFM (2000)
  - 2000-3500 CFM (3000)

**MODELS**
- LH2000i LE2000i
- LH2000e LE2000e
- LH3000i LE3000i
- LH3000e LE3000e

**Interior Model**

**Exterior Model**

**Duct Configurations**

**All Plate Models**

**Available Duct Configurations**
- 1 - 2 - 3 - 4**
- 1 - 2 - 3 - 6**
- 1 - 3 - 4 - 5
- 1 - 3 - 5 - 6

**Duct Connection Key**
- 1 : OUTSIDE AIR
- 2, 5 : RETURN AIR
- 3 : EXHAUST AIR
- 4, 6 : SUPPLY AIR

* Mirror image cabinet also available
**Configuration not available for exterior models
COMMERCIAL HEAT & ENERGY RECOVERY

KEY FEATURES

- Side-by-Side Blower Configuration
- Low-Profile Double-Wall Construction
- Pre-Heat Coils
- AHRI Certified Aluminum, Polypropylene, or Enthalpic Membrane Recovery Cores
- Forward-Curved Blowers
- Large Weather Hoods with Bird Screens
- Motorized and Insulated Damper
- Heavy-Gauge Steel Cabinet
- MERV 8 Filters

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
- 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, Pre-Heat Coils (Electric or Hot Water)
- 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
- EPAct or Premium Efficiency Motors
- Adjustable Speed Motors
- Pre-Wired Control Panel with Separated High and Low Voltages
- ETL Listed

Optional Features
- Low Temperature Limit
- Dirty Filters Contact
- Low Airflow Switch
- Phase Loss Detection
- Damper End Switch
- Programmable Timer
- BACnet Compatible Controller (IP or MS/TP communications protocol)
- Remote Keypad (optional touchscreen)
Reading the Model Code

Example P E 15

SERIES
InspirAIR® Commercial

RECOVERY TYPE
Sensible & Latent - HLT Plate (E)
Sensible & Latent - Wheel (W)
Sensible Only - Aluminum Plate (A)
Sensible Only - Polypropylene Plate (H)

NOMINAL CAPACITY
500-1000 CFM (15)
800-2000 CFM (20)
1000-3000 CFM (30)
2000-4000 CFM (40)

MODELS
PA15 PA20 PA30 PA40
PE15 PE20 PE30 PE40
PH15 PH20 PH30 PH40
PW15 PW20 PW30 PW40

Interior Model

Exterior Model

Duct Configurations

AVAILABLE DUCT CONFIGURATIONS*

| 1 - 2 - 5 - 6 |
| 1 - 3 - 4 - 6** |

* Mirror image cabinet also available
**Available on exterior units only

DUCT CONNECTION KEY

| 1 | EXHAUST AIR |
| 2, 3 | SUPPLY AIR |
| 4, 5 | RETURN AIR |
| 6 | OUTSIDE AIR |
COMMERCIAL HEAT & ENERGY RECOVERY

KEY FEATURES

Top & Bottom Blower Configuration
AMCA-certified low-leakage dampers and optional weather hoods with bird screens
Robust double wall construction
Efficient EC Motors

Bypass damper for free cooling
AHRI Certified heat recovery
Plate unit showing all the extensions - bypass, pre- and post heating and with AC motors.
All components easily accessible for maintenance

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
• Heavy-Gauge Steel Roof Curb (optional insulation)
• Fan Exhaust Defrost, Recirculation Defrost, Electric or Hot Water Pre-Heat Coils, Wheel Speed Defrost
• 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 bypass for free cooling
• Low Temperature Limit
• Dirty Filters Contact
• Low Airflow Switch
• Phase Loss Detection
• Damper End Switch
• Programmable Timer
• BACnet Compatible Controller (IP or MS/TP communications protocol)
• Remote Keypad (optional touchscreen)
• Wheel Rotation Detection
For more information, contact your Aldes sales advisor, visit aldes-na.com, call 1.800.255.7749, or find us on