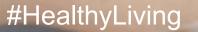
American Aldes

Building Air Quality Solutions





Welcome!

- American Aldes Overview
- Product Ranges
 - Residential System Solutions
 - Fans
 - Airflow & Zone Control
 - Heat & Energy Recovery
 - Dryer Venting
 - Make-Up Air Solutions
 - Roof Caps, Wall Hoods, Grilles, & Duct Fittings
 - Fan Controls
- Price Lists
- Website/Resources
- Contact





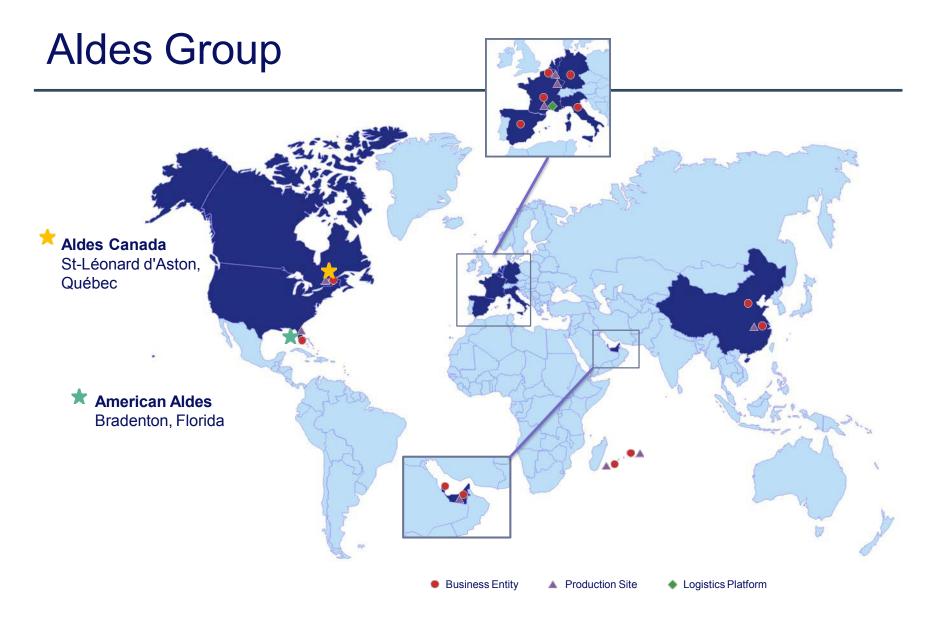




About American Aldes

- American ALDES Ventilation Corporation is a subsidiary of Aldes Group
- Aldes Group was founded in 1925 in Lyon, France
- American Aldes was founded in 1983 in Sarasota, FL
- Key Locations
 - American Aldes
 - 4521 19th St. Ct. E., Ste. 104, Bradenton, FL 34203
 - American Aldes corporate office and primary production facility
 - Aldes Canada (sister company)
 - 100 rue Carter Saint-Léonard d'Aston (Québec) Canada J0C 1M0
 - Heat & Energy Recovery Ventilator production site







Aldes Innovations

Aldes Worldwide

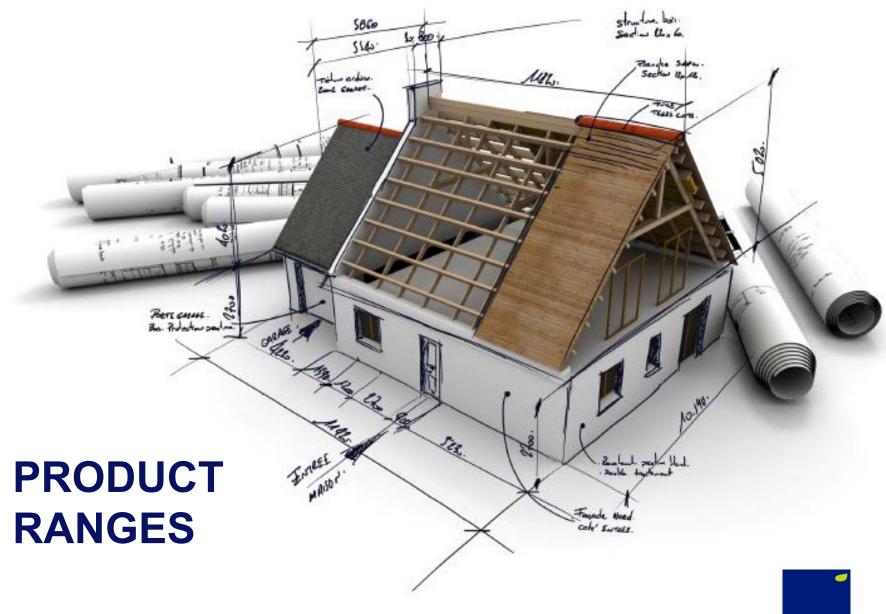
- More than 10 patents per year
- A total of 180 patents (including pending)

American Aldes

- American Aldes manufactured the first ENERGY STAR approved distributing supply and blending ventilators (part of the Ventergy[®] Series fan range).
- The patented Zone Register Terminal (ZRT-2) received the 2013 AHR Expo Innovation Award for Ventilation.
- American Aldes received AHR Innovation Award "Honorable Mention" for VentZone[®] Zoned IAQ with Heat Recovery Kits in 2014, and the ZRT-PDIL (Parallel Damper In-Line Zone Terminal) in 2015.









American Aldes Product Lines

- Every American Aldes product is equal parts innovation and experience.
- By working with builders, developers, engineers, architects, and government officials, American Aldes has helped advance the construction of energy-efficient buildings.





Dryer Venting



Make-Up Air Solutions



Roof Caps, Wall Hoods, Grilles & Duct Fittings



Fan Controls



Markets Served

Residential Commercial Offices **Animal Facilities Retail & Entertainment Single-Family Housing Fitness Centers Hotels Restaurants Schools & Universities** Salons & Spas Transportation **Multi-Family Housing Senior Living Industrial Facilities** Healthcare



Residential System Solutions

- For optimal performance and cost savings, American Aldes provides engineered systems specifically designed to integrate all necessary components into a single solution.
 - Bathroom Ventilation
 - Whole-House/IAQ Ventilation
- Trade Names
 - VentZone[®] Systems
 - Ventergy[®] Series Fans
 - InspirAIR[®]
- Standards
 - ASHRAE 62.2, ENERGY STAR with IAP, LEED for Homes, California Title 24 (CALGreen)

<u>VentZone®</u> <u>Zoned IAQ with</u> <u>Heat/Energy</u> Recovery Kits



www.aldes.us/residential-system-solutions www.aldes.us/ventilatebetter







Multi-Port Bath Fan Kit

Residential System Solutions

- Energy Star: Fans and HRV/ERVs*
- One penetration: Reduce roof caps, labor, and increase useable roof space
- Remote fans: Move the source of the noise for quiet operation
- On-demand boost: Low-volume continuous and highspeed boost when properly equipped
- Complete package: Includes all major hardware, minus the duct
- Predetermined kits: Kits are based on typical home configurations for easy selection

*Energy Star rating for residential heat and energy recovery equipment is via Energy Star Canada



Residential System Solutions

Featured Projects



More than **150,000 single-family homes** in the United States have Aldes brand ventilation products, and more than **2,000,000 singlefamily homes worldwide** are equipped with Aldes products.

Luxury home builders routinely use Aldes' premium central bath exhaust systems, and energy-efficient builders incorporate Aldes' renowned Indoor Air Quality (IAQ) central supply fan and energy recovery systems.

Aldes Strength:

American Aldes is the manufacturer of choice for providing central ventilation systems for large areas of homes impacted by aircraft noise. FAA-sponsored Residential Sound Insulation Programs (SIP) mandate the use of mechanical ventilation systems in homes that have been sealed to minimize noise entry.

Since 2008, Aldes products have been installed in **more than 15,000 homes** in areas surrounding U.S. airports.





- Cost effectiveness and efficient performance are the principle features of American Aldes Ventergy[®] Series ENERGY STAR rated fans. American Aldes offers a wider selection of ENERGY STAR rated fan configurations than any other manufacturer.
 - Ventergy[®] Series Fans
 - In-Line Duct Fans
 - Roof- or Wall-Mount Ventilators
- Trade Names
 - Ventergy[®] Series Fans
- Certifications & Standards
 - Energy Star
 - All Ventergy[®] Series Fans meet California Energy Commission (CEC) Standards





www.aldes.us/fans www.aldes.us/ventilatebetter





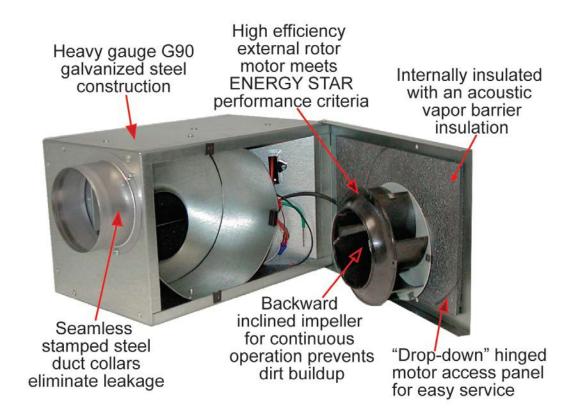
- Easy to configure: Select the number of connections you need for each project/unit
- Multiple CFM options: 100 to 250 CFM fans
- Internal insulation: Quiet and condensate resistant
- Accessible motors: Hinged access panel means easy maintenance where competitors are often sealed

- Ventergy[®] Series Fans
 - The perfect combination of ventilation performance, energy efficiency, and application flexibility.
 - Use for whole-house IAQ or room-specific ventilation in homes and apartments in any climate or region
 - Every fan in the series has been certified by ENERGY STAR
 - Key Products:
 - Multi-Port Fans
 - In-Line Fans
 - Filtering Supply Air Ventilators
 - Distributing Supply Air Ventilators
 - Blending/Filtering Ventilators
 - RMV Roof- or Wall-Mount Ventilators





Ventergy[®] Features





Multi-Port Fans

- Max CFM Range: 287
- Used for central, continuous exhaust
- Low power consumption
- Quiet operation
- 2-to-4 exhaust points
- Eliminates noisy bath fans when used as a central exhaust system
- Ideal for zoning applications
- Reduces number of exterior penetrations



MPVS150 Multi-Port Exhaust Ventilator







<u>VS4</u> <u>Ventergy® Series</u> <u>In-Line Ventilator</u>

- In-Line Fans
 - Max CFM Range: 287
 - For intermittent or continuous use
 - Low power consumption
 - Quiet operation
 - Condensation-proof IAQ lined cabinet
 - Speed controllable
 - Ideal for zoning applications
 - Compact for kitchens, laundry rooms, bathrooms, and garages



- Filtering Supply Air Ventilators
 - Max CFM Range: 178
 - Designed to provide precise amounts of outdoor air to the occupied space
 - Filters and distributes incoming fresh air
 - Slightly pressurizes the space to prevent unwanted infiltration and back drafting
 - Quiet operation
 - Versatile control options



<u>FSVS140</u> Single-Port Filtering Supply Air Ventilator



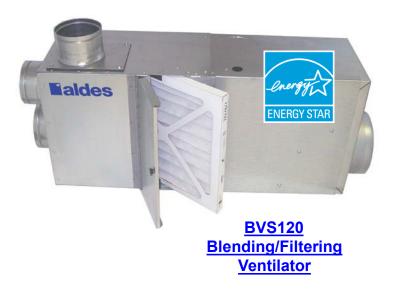
- Distributing Supply Air Ventilators
 - Max CFM Range: 130
 - For continuous use
 - Low power consumption
 - Multiple filter options
 - Precise airflow rates from passive airflow control regulators
 - Provides precisely regulated filtered fresh air
 - Creates a slight positive air pressure to prevent unwanted infiltration through building envelope
 - Quiet operation





Blending/Filtering Ventilators

- Max CFM Range: 247
- For continuous use
- Low power consumption
- Speed controllable
- Quiet Operation
- Blends fresh outdoor air with tempered indoor air
- Improves air distribution, especially in homes without central forces-air heating systems
- Filters prevent the introduction and recirculation of contaminants
- Optional CAR-II's accurately balance the amount of air so that the home meets ASHRAE 62.2 requirements





Featured Projects





Woodlands & Council Towers VII 180 affordable senior housing units Bronx, NY Multi-Port Exhaust Fans (MPVS100)





Centerra Apartments 347 high-end apartments San Jose, CA <u>In-Line Exhaust Fans (VS4-MAX)</u>



- American Aldes Airflow & Zone Control products are designed to introduce flexibility and dynamic control to any central ventilation system. These products correct common ventilation issues such as stack effect and poor airflow balance.
 - Constant Airflow Regulators
 - Constant Exhaust/Supply Registers
 - Zone Register Terminals
 - Dampers & Specialty Exhaust Grilles
- Certifications & Standards
 - UL Classified (CAR-II and MR Modulo)
 - ETL (ZRT)



<u>CAR-II</u> <u>Constant</u> <u>Airflow</u> <u>Regulator</u>



ZRT Zone Register Terminals



ZRT-IL In-Line Zone Register Terminal



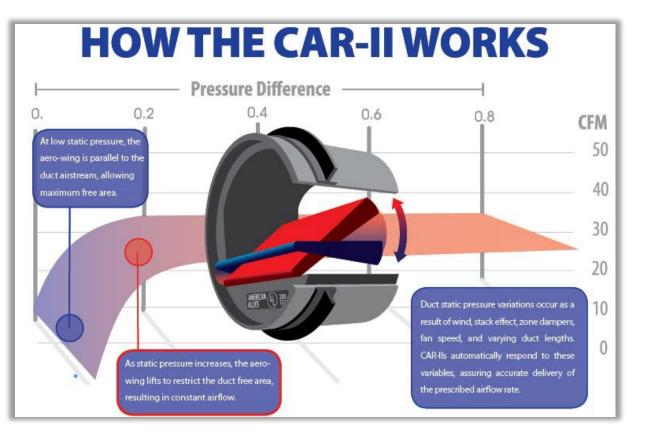
www.aldes.us/airflow-zone-controls

- Automatic balancing: Hands and controls-free balancing dampers automatically self balance
- Easy to use: Available as an assembly or standalone device, these install easily into supply or exhaust systems without requiring specialized tools or training
- Increase efficiency: Balance the entire ventilation system year round to reduce wasted energy in fan consumption and heating/cooling costs
- On-demand ventilation: Zone control devices provide balanced, demand based ventilation for a variety of applications
- **Patented technologies:** Zone Register Terminal (ZRT[®])*

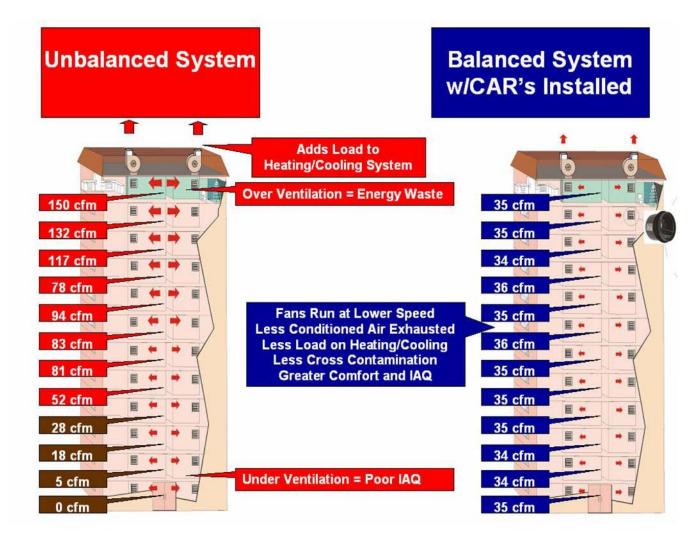
* U.S. Pat. No. 7,766,734 Can. Pat. No. 2,570,948



- The Constant Airflow Regulator (CAR-II) is a modulating device that automatically regulates airflow to constant levels.
- Like the wing of an airplane, the faster air travels across the aerofoil, the more it lifts to accurately maintain a constant CFM.





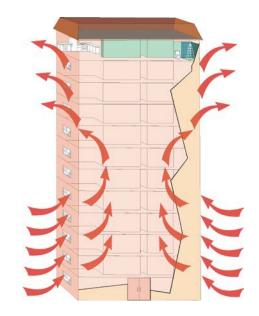


- The CAR-II also corrects issues caused by:
 - Wind
 - Duct Length
 - Leakage
 - Loading
 - Design Flaws
 - Occupants



- Stack Effect
 - Pressure variances among floors due to height and temperature differences between outside and inside air
 - Common in high-rise buildings with central ventilation systems
 - Some floors are over-ventilated (energy wasted) and some floors are underventilated (poor IAQ)
- How the CAR-II Eliminates Stack Effect
 - CAR-II regulates airflows at every exhaust point
 - Reduces the load on heating and cooling systems, saving energy and money
 - Improves IAQ because it eliminates crosscontamination between floors

Each opening in the shaft is exposed to different pressures



The CAR-II also corrects issues caused by wind, duct length, leakage, loading, design flaws, and occupants



- The MR MAX Constant Airflow Regulator is a modulating orifice that automatically regulates airflows in round or square/rectangular duct systems to constant levels without the use of electric or pneumatic sensors or controls.
- Flow control is achieved by an easy-moving, asymmetrical angled control damper.
- The damper is inclined according to the pressure difference between upstream and downstream of the regulator module.



MR MAX (round)



MR MAX (square/rectangular)



- The patented* Zone Register Terminal (ZRT[®]) is designed to introduce flexibility and dynamic control to central exhaust or supply ventilation systems.
- The ZRT[®] is a combination grille/register box, control damper, and optional Constant Airflow Regulator (CAR-II).



ZRT-S Zone Register Terminal (Supply)



ZRT-FR Zone Register Terminal with Fire Damper



ZRT-W-FRS Wall-Mount Zone Register Terminal (Supply) with Fire Damper

* U.S. Pat. No. 7,766,734 Can. Pat. No. 2,570,948



Zone Register Terminal Selection Guide

MODEL NAME	USE		MOUNTING			INCLUDED	
	Exhaust	Supply	Ceiling	Wall	In-Line	Fire Damper	Grille
ZRT	Х		Х				Х
ZRT-S		Х	Х				Х
ZRT-FR	Х		Х			Х	Х
ZRT-FRS		Х	Х			Х	Х
ZRT-W	Х			Х			Х
ZRT-WS		Х		Х			Х
ZRT-W-FR	Х			Х		Х	Х
ZRT-W-FRS		Х		Х		Х	Х
ZRT-IL	Х	Х			Х		







ZRT-3PDIL Three Parallel Damper In-Line Zone Terminal

- The Parallel Damper In-Line Zone Terminal (ZRT-PDIL) combines low-flow IAQ or makeup air and on-demand high-flow spot ventilation, replacing individual fans or variable air volume (VAV) terminals.
- The ZRT-PDIL is a two-position pressure-independent terminal with a control damper to regulate high-limit on-demand airflow control and integral passive regulators (CAR-II) for automatic air balancing of the minimum and maximum setpoints.



Parallel Damper In-Line Zone Terminal Selection Guide

MODEL			STATIC PRESSURE RANGE		
NAME	SETPOINTS	MOUNTING	Standard 0.2-0.8 in. w.g.	High 0.6-2.4 in. w.g.	
ZRT-PDIL	2	In-Line	Х		
ZRT-PDIL-HP	2	In-Line		Х	
ZRT-3PDIL	3	In-Line	Х		
ZRT-3PDIL-HP	3	In-Line		Х	



Featured Projects







432 Park Ave. Luxury condos Tallest residential building in Western Hemisphere New York, NY <u>CAR-SS-I</u>I, <u>CAR-SE-I</u>I, <u>CAR-FSA-I</u>I, <u>CAR-II</u>



JW Marriott Houston 490-room hotel Houston, TX <u>CEG-I</u>I, <u>CSR-S-I</u>I, <u>CER-S-I</u>I, <u>CAR-II-HP</u>



#HealthyLiving





State & Chesnut 35-story apartment tower Chicago, IL <u>ZRT-W-1-MAX</u>



Heat & Energy Recovery

- American Aldes manufactures Heat and Energy Recovery Ventilators (HRV/ERV) using all available exchange technologies – aluminum, polypropylene, high-latent-transfer membrane, enthalpic membrane, and desiccant wheel – so you can choose the most appropriate method for your application and climate.
 - InspirAIR[™] Home Residential & InspirAIR[™] Compact Multi-Family
 - Light Commercial
 - Commercial
- Trade Names
 - InspirAIR[®] Home
 - InspirAIR[®] Compact
 - InspirAIR[®] Commercial
- Certifications & Standards
 - AHRI
 - ETL
 - HVI
 - ENERGY STAR



InspirAIR™ Compact Multi-Family Series



Light Commercial Series



Low-Profile Commercial Series



www.aldes.us/heat-energy-recovery

Heat & Energy Recovery

- Multiple core technologies: Whether selecting the heat exchanger technology based on location or price, ALDES has the flexibility to provide the right option.
- Residential through Commercial: Single-family homes, multi-family, or commercial buildings are all covered
- Customizable commercial equipment: Various options between the model series provides a competitive solution for each project requirement



Heat & Energy Recovery



- Heat Recovery Ventilator (HRV): transfers sensible heat energy from warm air to cold air.
- Energy Recovery Ventilator (ERV): transfers sensible heat energy from warm air to cold air and moisture-latent energy from moist air to dry air.
- Available exchange technologies include: aluminum, polypropylene, high-latenttransfer enthalpy, polymeric enthalpic membrane, and desiccant wheel.
- Models range from 95 to 11000 CFM



Five Different Core Technologies

- Sensible Energy Exchange
 - Aluminum Core
 - Polypropylene Core
- Sensible and Latent Energy Exchange
 - Desiccant Wheel
 - Polymeric Enthalpic Membrane Core
 - High-Latent-Transfer Enthalpic Core



High-Latent-Transfer Enthalpic Core



Polymeric Enthalpic Membrane Core



Aluminum Core



Polypropylene Core



Desiccant Wheel





<u>H95-TRG</u>



 InspirAIR[®] Standard Residential Series

• 95-190 CFM

- Polypropylene (sensible only) and High-Latent-Transfer Enthalpy (sensible and latent) core options
- Fan Exhaust or Recirculation
- Top-mounted collars
- Flexible installation
- EvacMAX[™]
- FLEXControl





- InspirAIR[®] Compact Multi-Family Series
 - 80-130 CFM
 - Polypropylene (sensible only) and High-Latent-Transfer Enthalpy (sensible and latent) core options
 - Recirculation Defrost
 - Efficient and economical
 - Low-profile for small spaces





- Light Commercial Series
 - 240-1800 CFM
 - Polypropylene or Aluminum (sensible only) core options
 - Polymeric Enthalpic Membrane (sensible and latent) core options
 - Exhaust and Recirculation Defrost
 - Pool Option (HRV only) with stainless steel interior and totally enclosed motors
 - Motorized impellers





- InspirAIR[®] Commercial HRV/ERV
 - 500-4000 CFM
 - Polypropylene or Aluminum (sensible only) core options
 - Standard Enthalpy, High-Efficiency Enthalpy, High-Latent-Transfer Enthalpy (sensible and latent) core options
 - Exhaust Defrost, Recirculation, and Pre-Heat Coils Defrost Modes
 - High Performance
 - EC Motor Options
 - Interior and Exterior Units



<u>PH15</u>







LW1500i



- Low-Profile Commercial Series
 - 500-3500 CFM
 - Polypropylene or Aluminum (sensible only) core options
 - Enthalpy Core or Enthalpy Wheel (sensible and latent) core options
 - Exhaust Defrost, Recirculation Defrost, Pre-Heat Coils, and Wheel Speed VFD Defrost Modes
 - Compact Design
 - Standard and Custom Features
 - Interior and Exterior Units



- Advanced Commercial Series
 - 1000-11000 CFM
 - Polypropylene orAluminum (sensible only) core options
 - Enthalpy Core or Enthalpy Wheel (sensible and latent) core options
 - Exhaust Defrost, Recirculation Defrost, Pre-Heat Coils, Face & Bypass Damper, and Wheel Speed VFD Defrost Modes
 - Heating and Cooling Coils
 - Interior and Exterior Units









- Aldes Selection Software
 - Build unit selections based on exact design conditions and specifications
 - All projects are conveniently stored for quick reference
 - Generate project schedules
 - Share selections easily
 - Import selections generated by other Selector[™] users
 - Print all project information
 - <u>Contact techsupport-</u> <u>us@aldes.com for a</u>ccess





Featured Projects





Guiding Eyes for the Blind Guide dog training school Yorktown Heights, NY

CE3000i and CE5000i





Tanalian School K-12 Public School Port Alsworth,AK

CH2000i and CH5000i



High Point University Centennial Square Multi-building student housing development High Point, NC

<u>E650-Fi</u>



Lofts at River East 285-unit luxury apartment building Chicago, IL <u>SE3000e</u> and <u>SE4000e</u>



Dryer Venting

- Dryer Booster Fans (by Fantech) work with most residential clothes dryers. Their unique design allows lint to flow through the duct easily, and they compensate for system duct loss due to long duct runs. A variety of accessories, including vent boxes, roof caps, wall hoods, and lint traps are also available.
- Certifications & Standards
 - ETL
 - HVI



Cape Backdraft Damper



DBF4XL Drver

Booster Fan

In-Line Lint Trap

www.aldes.us/dryer-venting

Make-Up Air Solutions

- Complete exhaust ventilation systems require complementary make-up air solutions. American Aldes offers a comprehensive line of AIRLET[™] make-up air inlets.
 - Passive Through-Wall AIRLETS™
 - Window AIRLETS™



AIRLET™ **TL98** Manually Adjustabl e Fresh **Air Inlet**



AIRLET™ 700 Temperature-Controlled Fresh Air Inlet



AIRLET™ 4000 Acoustic-Filtering Surface-Mounted Inlet

aldes

www.aldes.us/make-up-air-solutions

Make-Up Air Solutions

- Self-regulating: Automatically restricts outside air to predetermined rates to prevent drafts on breezy days
- Multiple designs: Rectangular and round designs available with multiple exterior louver options
- Multiple control strategies: Simple, continuous outside air, manually adjustable, or automatic based on temperature or humidity
- Direct ventilation: Provide outside air directly into the spaces requiring it



Make-Up Air Solutions

Featured Projects





Marina del Rey Hotel 164-room luxury hotel Marina del Rey, CA <u>AIRLET™ 200</u> Round Self-Regulating Fresh AirInlets





Halawa View & Kewalo Apartments Affordable multi-family housing Honolulu, HI <u>AIRLET™ TL98</u> <u>Manually Adjustable Fresh Air Inlets</u>

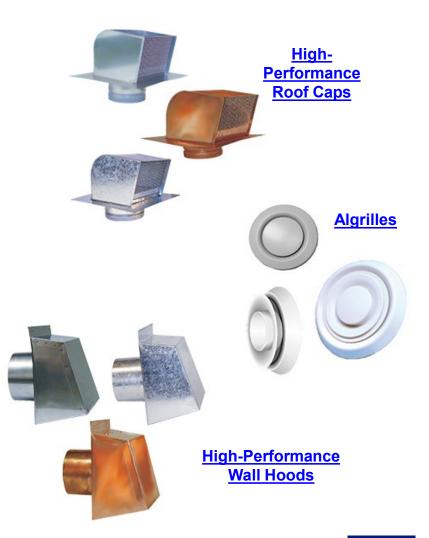


Myrtle Terraces 1- and 2-bedroom senior living units Gainesville, GA <u>AIRLET™ TL98</u> <u>Manually Adjustable Fresh Air Inlets</u>



Roof Caps, Wall Hoods, Grilles & Duct Fittings

- American Aldes provides all the accessories you need to complete your ventilation system. These components are engineered to work with American Aldes ventilation products for optimal appearance and performance.
 - Roof Caps
 - Wall Hoods
 - Specialty Exhaust Hoods & Vents
 - Grilles
 - Duct Fittings



alde

www.aldes.us/roof-caps-wall-hoods-grilles-duct-fittings



Fan Controls

- American Aldes offers corresponding fan controls for our ventilation products. The controls range from basic twist timers to advanced pressure-sensing controls for regulating ventilation in large buildings.
 - Fan Timers
 - Pressure Switches
 - Variable Speed Controls
 - Dehumidistat Controls
 - Current Sensing Switches



ZTC Zone Terminal Control





Electronic Fan/Light Timer Switch Control



www.aldes.us/fan-controls

Price Lists



2019 Plan & Spec Price List

- What: All products with list prices
- Audience: Plan & Spec Reps
- Confidential: Yes
- Print Copies Available: Yes
- Where to Download: www.aldes.us/rep-log-in

(You will need your username and password)



2019 Product Catalog

- What: All products, no prices
- Audience: Anyone
- Confidential: No
- Print Copies Available: Yes
- Where to Download: <u>www.aldes.us/resources</u>



2019 Commercial HRV/ERV Price List

- What: HRV/ERV products with list prices
- Audience: Equipment-only Plan & Spec Reps
- Confidential: Yes
- Print Copies Available: Yes
- Where to Download: <u>www.aldes.us/rep-log-in</u>

(You will need your username and password)

American Aldes



2019 General Distribution Price List

- What: Non-protected products and list prices
- Audience: Wholesalers
- Confidential: Yes
- Print Copies Available: Yes
- Where to Download: Link provided by request only



Website

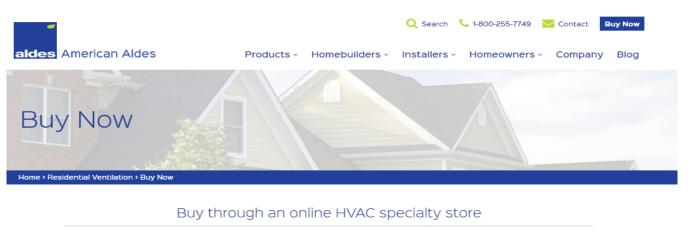
www.aldes.us

- Our website is a great resource for you
- We add new information regularly





www.aldes.us/residential-ventilation/buy-now/ Starting point for Homeowners, Contractors & Specifiers





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www.aldes.us/residential-ventilation/wholesalers/

Includes all wholesalers grouped by state



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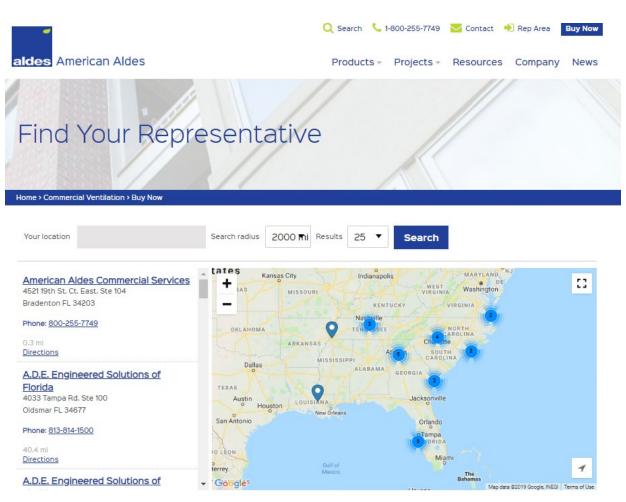
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<u>www.aldes.us/commercial-ventilation/buy-now/</u> Includes all Plan & Sepc Reps grouped by state





www.aldes.us/commercial-ventilation/resources/



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