



HEAT & ENERGY RECOVERY



Light Commercial Heat & Energy Recovery

735-1925 CFM

TECHNICAL COMMERCIAL DOCUMENTATION

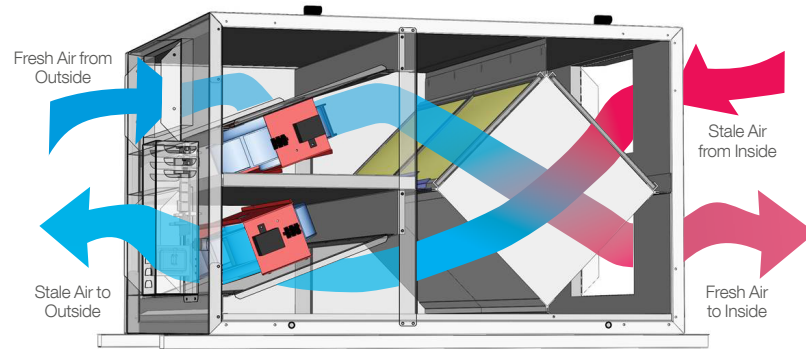
ALDES products

Every dollar counts when running a business. Reducing operating costs is one of the best ways to improve the bottom line. Series Light Commercial Heat and Energy Recovery Ventilators (HRV/ERV) by ALDES are effective ways of recovering energy and reducing the load on heating and cooling systems. These units recover up to 70% of the energy exhausted by traditional ventilation systems. ALDES HRV/ERVs are a small investment with huge return potential.

Quiet, efficient, and easy to install, are specially designed for light-commercial use. Offices, medical buildings, stores, salons, restaurants, schools, theatres, daycare centers, retirement homes, and even high-humidity spaces like indoor pools and spas—these are just a few examples of businesses that can use ALDES technology to save money. The benefits are not purely fiscal. Employees and customers alike will enjoy better thermal comfort and improved indoor air quality, and the business can lower its carbon footprint.

ALDES has manufactured ventilation systems and solutions for more than 30 years. Every ALDES product is equal parts innovation and experience. Make ALDES Heat & Energy Recovery Ventilators part of your successful business plan.

How They Work



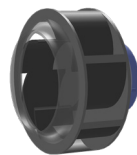
In the heating season, Heat Recovery Ventilators (HRV) and Energy Recovery Ventilators (ERV) draw in fresh air from outside while stale, humid air is exhausted. As the fresh and stale airstreams pass through the unit's core, the fresh air is tempered with heat recovered from the exhaust air. In the cooling season, fresh outdoor air is cooled by the air-conditioned exhaust air. An ERV will also transfer moisture to improve comfort in homes.



Features

Effective

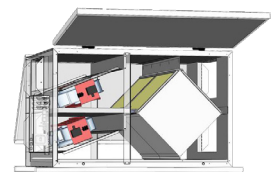
- **Efficient Performance:** Units recover energy that would otherwise be exhausted, shrinking heating and cooling bills.
- **Core Options:** Polypropylene (sensible heat recovery), aluminum (sensible heat recovery), and High Latent transfer enthalpy cores are durable and designed for any climate zone.
- **Silently Powerful:** High-efficiency motors are quiet and designed to consume very little power.
- **Verified Technology:** All cores are AHRI Certified to Standard 1060.



Backward-Inclined Impellers

Balanced

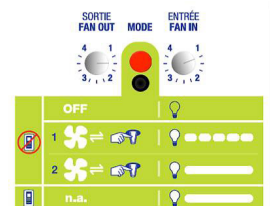
- **Built-In Defrost:** Fan exhaust or recirculation modes protect the core from freezing in cold climates. Recirculation can be selected initially, or added later using the retrofit kit. *
- **Complete Climate Control:** Compatible controllers are available to automate the unit's response to changes in the indoor environment.
- **Speed Options:** Continuous variable speed with 0-10V inputs, or configurable normal and boost speeds.



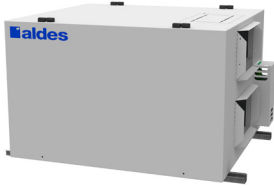
Front and Back Access Doors

Smart

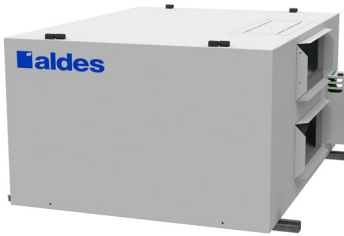
- **Quick Calibration with FLEXControl:** Airflow circuits can be electronically calibrated without the need for resistance-inducing balancing dampers. Blowers are electronically and independently adjustable.
- **Continuous Duty:** Backward-inclined impellers and high-efficiency enclosed motors are not susceptible to dust loading and do not need cleaning or maintenance.
- **Superior Insulation:** Rigid insulation with FSK non-porous coating is lightweight and keeps moisture out so it does not get trapped in the unit and cause mold to grow.
- **Advanced Electronics:** The circuit board is conveniently accessible, and the terminal block can be removed for easy wiring to controllers. Optional BACnet™ interface available.



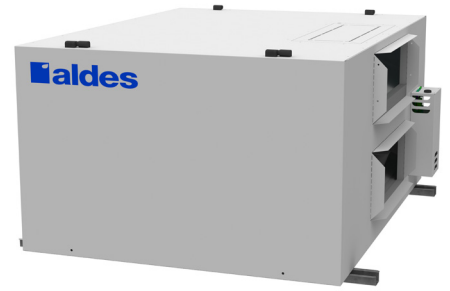
Control Board



H/E650 models
36 1/4 in (L) x 32 1/8 (W) in x 23 7/8 in (H)
(921 mm x 816 mm x 606 mm)



H/E1100 models
36 1/4 in (L) x 47 1/4 in (W) x 23 7/8 in (H)
(921 mm x 1200 mm x 606 mm)



H/E1800 models
45 5/8 in (L) x 48 7/8 in (W) x 29 5/8 in (H)
(1158 mm x 1242 mm x 753 mm)

Model	Nominal Airflow Rate at 0.4 in. w.g.	Unit Type	Core Type	Defrost Mode	Motor	Recirculation kit	Unit Weight **
H650-Fi-N	735 CFM	HRV	Polypropylene	Fan Exhaust	PSC 120 VAC	683900	147 lbs (67 kg)
H650-Fi-P-N	735 CFM	HRV	Polypropylene	Fan Exhaust	PSC 120 VAC	683900	147 lbs (67 kg)
H650A-Fi-N	735 CFM	HRV	Aluminum	Fan Exhaust	PSC 120 VAC	683900	147 lbs (67 kg)
H650-Fi-EC-N	660 CFM	HRV	Polypropylene	Fan Exhaust	EC 208-230 VAC	683900	147 lbs (67 kg)
H650A-Fi-EC-N	660 CFM	HRV	Aluminum	Fan Exhaust	EC 208-230 VAC	683900	147 lbs (67 kg)
E650L-Fi-N	645 CFM	ERV	High latent transfer (HLT)	Fan Exhaust	PSC 120 VAC	683900	147 lbs (67 kg)
E650L-Fi-EC-N	575 CFM	ERV	High latent transfer (HLT)	Fan Exhaust	EC 208-230 VAC	683900	147 lbs (67 kg)
H1100-Fi-N	1245 CFM	HRV	Polypropylene	Fan Exhaust	PSC 120 VAC	683950	204 lbs (93 kg)
H1100A-Fi-N	1245 CFM	HRV	Aluminum	Fan Exhaust	PSC 120 VAC	683950	204 lbs (93 kg)
H1100-Fi-P-N	1245 CFM	HRV	Polypropylene	Fan Exhaust	PSC 120 VAC	683950	204 lbs (93 kg)
H1100-Fi-EC-N	1170 CFM	HRV	Polypropylene	Fan Exhaust	EC 208-230VAC	683950	204 lbs (93 kg)
H1100A-Fi-EC-N	1170 CFM	HRV	Aluminum	Fan Exhaust	EC 208-230 VAC	683950	204 lbs (93 kg)
E1100L-Fi-N	1100 CFM	ERV	High latent transfer (HLT)	Fan Exhaust	PSC 120 VAC	683950	204 lbs (93 kg)
E1100L-Fi-EC-N	1000 CFM	ERV	High latent transfer (HLT)	Fan Exhaust	EC 208-230 VAC	683950	204 lbs (93 kg)
H1800-Fi-N	1580 CFM	HRV	Polypropylene	Fan Exhaust	PSC 120 VAC	683960	245 lbs (111 kg)
H1800-Fi-P-N	1580 CFM	HRV	Polypropylene	Fan Exhaust	PSC 120 VAC	683960	245 lbs (111 kg)
H1800-Fi-EC-N	2075 CFM	HRV	Polypropylene	Fan Exhaust	EC 208-230VAC	683960	245 lbs (111 kg)
H1800A-Fi-N	1580 CFM	HRV	Aluminum	Fan Exhaust	PSC 120 VAC	683960	245 lbs (111 kg)
H1800A-Fi-EC-N	2100 CFM	HRV	Aluminum	Fan Exhaust	EC 208-230 VAC	683960	245 lbs (111 kg)
E1800L-Fi-N	1380 CFM	ERV	High latent transfer (HLT)	Fan Exhaust	PSC 120 VAC	683960	245 lbs (111 kg)
E1800L-Fi-EC-N	1925 CFM	ERV	High latent transfer (HLT)	Fan Exhaust	EC 208-230 VAC	683960	245 lbs (111 kg)

* Recirculation defrost available for factory installation; Recirculation defrost conversion kit available for field installation on standard fan exhaust defrost models (except pool models)

** Shipping weight may vary



For more information, contact your
ALDES sales advisor, visit ALDES-na.com,
or find us on



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USA 800.255.7749 CAN 800.262.0916

