

AIREDALE

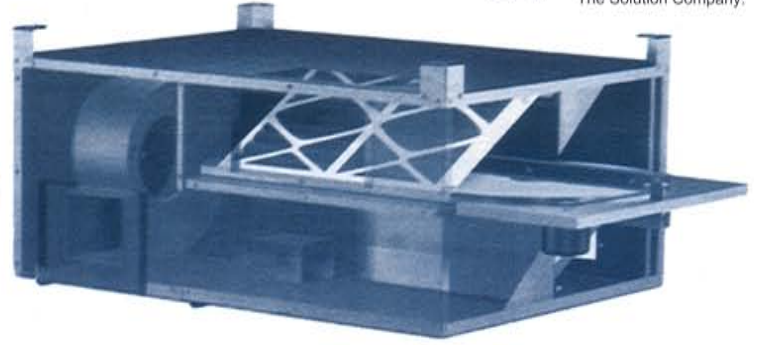
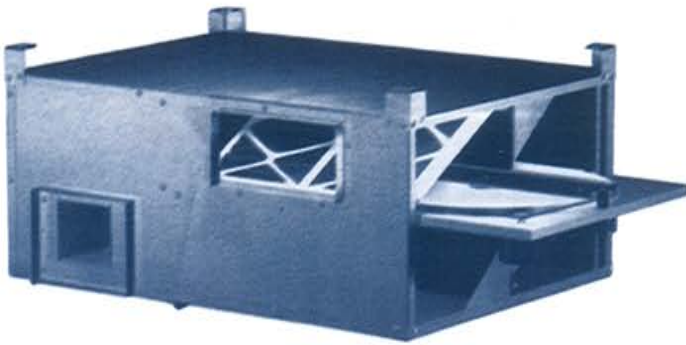
air conditioning for every environment

SLIMVENT

450 & 750

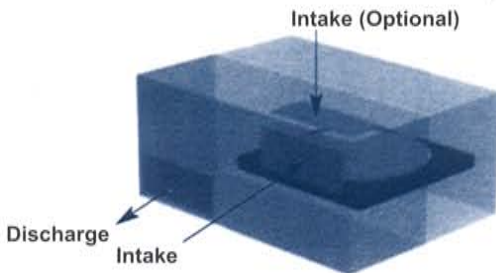
LOW PROFILE ENERGY RECOVERY VENTILATORS

by **GREENHECK**
The Solution Company.



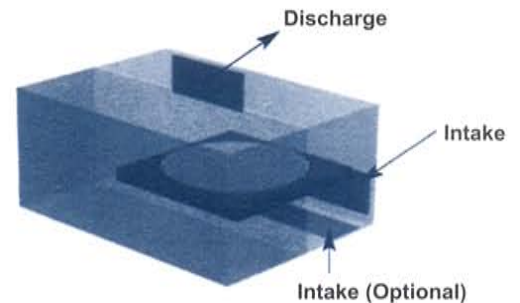
Intake And Discharge Locations

OUTDOOR AIR



Both intake locations are capable of being field located to suit installation needs (see optional locations).

EXHAUST AIR

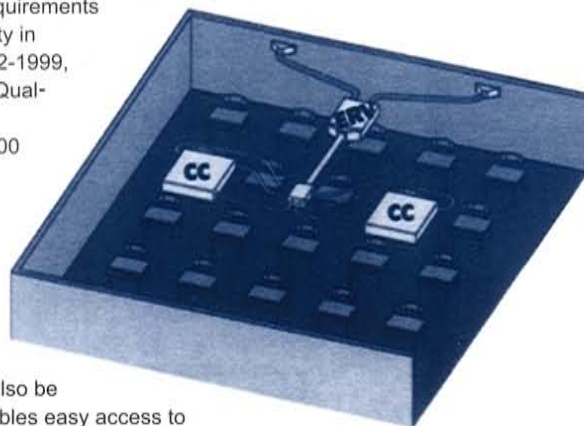


Maintaining healthy indoor air quality in high occupancy spaces, such as classrooms, is a critical issue facing the heating and air conditioning industry.

The Airedale SlimVent 450 & 750 are low profile Energy Recovery Ventilators (ERV) designed to meet ventilation requirements for the improvement of indoor air quality in accordance with ASHRAE Standard 62-1999, "Ventilation for Acceptable Indoor Air Quality". They are used in commercial and institutional applications that require 300 cfm to 800 cfm of ventilation air. The compact design provides an economical solution for individual spaces, such as school classrooms and small offices.

The SlimVent 450 & 750 are uniquely designed for quiet operation above suspended ceiling or may also be floor mounted. A removable panel enables easy access to filters and enthalpy wheel. Pleated 1 inch filters and back draft dampers are standard.

The illustration above shows the typical classroom application using our ERV in our SlimAire Ceiling System. The ERV draws outside air over its enthalpy wheel, picking up heat or releasing heat to the room exhaust air. The tempered outside air is then delivered to the ceiling cassettes (CC) where it is heated or cooled and mixed with room recirculated air.



SlimVent 450 & 750 Features

- Enthalpy wheel for both sensible and latent heat recovery
- Quiet operation
- Low profile
- Ducted to HVAC system or stand alone
- Integral backdraft dampers
- Pleated 1" deep filters
- Easy service access to filters and energy recovery wheel
- Factory installed fan speed control on supply and exhaust fans
- Factory supplied vibration isolation kits
- UL listed and tested in accordance with ASHRAE Standard 84

SLIMVENT 450 & 750

TECHNICAL INFORMATION

Performance Data

SlimVent 450

SUPPLY & EXHAUST

RPM		EXTERNAL STATIC PRESSURE (IN. WG)								Sones @ 0.25 in. wg
		0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.00	
1250	CFM	386	362	335	300	245				2.6
	Effect.	74%	75%	76%	77%	79%				
1680	CFM	542	512	480	442	402	352	295	227	3.6
	Effect.	68%	69%	70%	71%	73%	75%	77%	80%	

SlimVent 750

1250	CFM	693	678	657	631	597	559	527	497	5.9
	Effect.	79%	79%	79%	80%	81%	81%	82%	82%	
1680	CFM	865	854	842	825	807	785	761	731	6.5
	Effect.	75%	75%	76%	76%	77%	77%	78%	78%	

NOTES: (1) Deduct 0.16 IN. WG from the above available external static pressure when supplying air through an Airedale ceiling cassette.

(2) Fan speeds below maximum are obtained using speed controller.

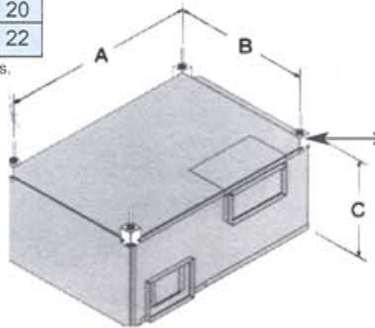
(3) Effectiveness values are total (latent and sensible).

(4) Sone values are at a distance of 5 feet from the exhaust air intake.

DIMENSIONS

SlimVent Model	A	B	C
450	40	29	20
750	46	36	22

All dimensions shown are in inches.



FAN SPEED CONTROL

Solid state speed controllers are factory installed for adjusting airflows to desired volumes. One speed controller is used for the outdoor air and one for the exhaust air fan.



HANGING VIBRATION ISOLATORS

Vibration isolator kits are supplied for suspended installations. Kits include all hardware necessary to mount one unit, with the exception of threaded rods to be supplied by others. Brackets for mounting vibration isolators are factory installed on the unit.



Specifications

GENERAL: Energy Recovery Ventilator shall be UL listed and bear the UL label. Energy transfer ratings shall be tested in accordance with ASHRAE Standard 84.

CASING AND ACCESS: Unit shall be constructed of G90 galvanized steel. All components shall be easily accessible through removable access panels. Access to filters and energy wheel shall not require tools. Energy recovery wheel shall be mounted in a slide-out track for ease of inspection, removal and cleaning. Housing shall be insulated with 1/2 in. insulation.

Outdoor air and exhaust air discharges shall have integral backdraft dampers. Duct adaptors shall be factory installed on all four intake/discharge ports.

ENERGY RECOVERY WHEEL: Energy recovery wheel shall be of the enthalpy type for both sensible and latent heat recovery, and be designed to ensure laminar flow. Desiccant shall be silica gel for maximum latent energy transfer. Silica gel desiccant shall be permanently bonded to wheel media to retain latent heat recovery after cleaning.

FANS AND MOTORS: Fans shall be double width, double inlet centrifugal forward curved type, statically and dynamically balanced. Fan motors shall be 115 volt, single phase, thermally protected and be compatible for use with speed controller.

FILTERS: The outdoor air shall be filtered with a 1 in. deep, 30% effective disposable filter. Filter rack shall be internal to the unit and factory installed.

ELECTRICAL: All internal electrical components shall be factory wired for single po0t power connection. All electrical components shall be UL listed, approved or classified where applicable and wired in accordance with the National Electrical Code.

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Represented By:

