



ERV Series

Models 60Hz - HFC - 410A

The energy recovery wheel inside the ERV unit transfers energy from the warmer to the cooler air stream through counter-flowing supply and exhaust air streams through a

slow rotating wheel. The large energy transfer surface arranged to provide laminar air flow through the wheel causes the constant flow of recovered energy to represent up to 80% of the difference in total energy contained within the two air streams. The Rx (ERV) Series is designed as a stand-alone unit for use in applications requiring maximum energy efficiency in a make-up air unit, up to 100% outside air.

Advantages of the ERV Series:

- Avoids using large gas makeup air units and complicated refrigeration controls to handle outside air
- Simple operation facilitates ease of maintenance and troubleshooting
- Decreases building equipment tonnage required, which reduces installation costs component for electrical and fire safety
- Available with enthalpy or sensible only wheel for a variety of applications
- Available in downflow, over/under and side-by-side configurations for rooftop applications
- Over/under and side-by-side configurations available in interior mounted versions
- Centrifugal belt-driven forward-curved blowers with adjustable pulleys and isolation pads. High efficiency motors are thermally protected
- AirXchange ARI 1060 certified energy recovery wheels are used and carry a 5 year limited warranty
- Internal enthalpy wheels are easily cleanable. All wheels over 29" are segmented into easily removable pie segments
- All wheels are designed to easily slide in and out of the ERV for servicing

Unit Size

Model	Height in. [cm]	Width in. [cm]	Depth in. [cm]
ERV "B" Cabinet	33.5 [85.1]	44.8 [113.7]	32.1 [81.6]
ERV "C" Cabinet	37.5 [95.3]	54.4 [138.1]	37.3 [94.6]
ERV "D" Cabinet	43.6 [110.6]	52.3 [132.7]	42.6 [108.3]
ERV "E" Cabinet	57.4 [145.7]	60 [152.4]	46.7 [118.6]
ERV "F" Cabinet	57.4 [145.7]	60 [152.4]	52.7 [133.8]
ERV "G" Cabinet	63.6 [161.6]	72 [182.9]	70.9 [180]
ERV "H" Cabinet	71.3 [181.2]	101.4 [257.5]	78.4 [199.1]
ERV "J" Cabinet	86.6 [220.0]	120.4 [305.8]	88.4 [224.5]

Physical Data

Model	EROB, ERWB	ERDB, ERSB, ERTB	EROC, ERWC, ERDC, ERSC, ERTC	EROD, ERWD, ERDD, ERSD, ERTD	EROE, ERWE, ERDE, ERSE, ERTE	EROF, ERWF, ERDF, ERSF, ERTF	EROG, ERWG, ERDG, ERSG, ERTG	ERDH	ERDJ
Fresh Air Blower									
(hp) [kw]	1.5 [1.12]	1.5 [1.12]	2 [1.49]	3 [2.24]	3 [2.24]	5 [3.73]	5 [3.73]	10 [7.46]	15 [11.19]
Motor Speed -rpm	1725								
Blower Size (in) [cm]	9 x 4 [22.9 x 10.2]	9 x 4 [22.9 x 10.2]	9 x 9 [22.9 x 22.9]	10 x 10 [25.4 x 25.4]	12 x 9 [30.5 x 22.9]	12 x 12 [30.5 x 30.5]	15 x 15 [38.1 x 38.1]	15 x 15 [38.1 x 38.1]	22 x 15 [55.9 x 38.1]
Blower Speed	Adj Sheave								
Type Drive	Belt								
Exhaust Air Blower									
(hp) [kw]	1.5 [1.12]	1.5 [1.12]	2 [1.49]	3 [2.24]	3 [2.24]	5 [3.73]	5 [3.73]	7.5 [5.59]	10 [7.46]
Motor Speed -rpm	1725								
Blower Size (in) [cm]	9 x 4 [22.9 x 10.2]	9 x 4 [22.9 x 10.2]	9 x 9 [22.9 x 22.9]	10 x 10 [25.4 x 25.4]	12 x 9 [30.5 x 22.9]	12 x 12 [30.5 x 30.5]	12 x 12 [30.5 x 30.5]	18 x 18 [45.7 x 45.7]	22 x 22 [55.9 x 55.9]
Blower Speed	Adj Sheave								
Type Drive	Belt								
Wheel Data									
Wheel Depth (in) [cm]	3 [7.62]								
Wheel Diameter (in) [cm]	25.3 [64.3]	25.3 [64.3]	30.3 [77.0]	37.8 [96.0]	41.8 [106.2]	46.8 [118.9]	52.0 [132.1]	58.0 [147.3]	74.0 [188.0]
Construction	Segmented								
Media	Polymeric								
Wheel Motor Speed	1050	1050	1050	825	1075	1075	1075	1725	1725
HP	Frac.	Frac.	Frac.	0.05	0.17	0.17	0.17	0.25	0.25
Weights									
Shipping Weights (lb)	389	389	650	876	950	1228	1380	2800	3000
Net Weight (lb)	314	314	570	801	854	1113	1205	2600	2800
Curb Height (in) [cm]	14 [35.6]								

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