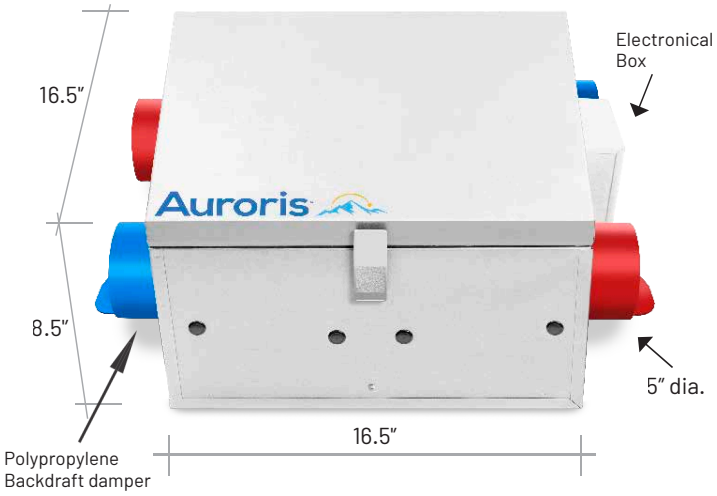
SOLAS™ ERV by Auroris Inc. Pristine Air Solutions

Model: ESM-80 Specifications

Features

- **High efficiency, energy saving, permanently lubricated, backward inclined, non- over loading, variable speed PSC motors for air balancing**
- **Tilted core design for maximum efficiency**
- **Constructed using UL certified sound insulation.**
- **The Quietest in its class**
- **Military Grade Specification: constructed using heavy gauge steel, welded joints, individually powder coated**
- Over all size 16.5" (W) x 16.5" (D) x 8.5" (H)
- Power ratings: 115V / 1 / 60 Hz, 0.75 Amp., Standby current is 7W only
- Washable high efficiency Dpoint Enthalpy core suitable for -25 C, Drainless Design
- Suitable for horizontal & vertical installation
- Two Speed exhaust (High / Low) - up to 90 CFM maximum
- Continuous fresh air supply at Normal speed up to 60 CFM
- Furnace / Fan-coil / Heat Pump Interlock
- Dual Protection: If exhaust fan fails, the outside fresh-air supply will be closed automatically (by optional motorized damper) and interlocking relay contact will be opened. Fan Coil/Furnace low speed will be stopped and at normal operation no air will enter into the system.
- Weight approximately 20 lbs.
- **Meets All LEED Standards and Building Code Requirements**
- **SMART IAQ™ Enabled**
- **5 Year Limited Warranty**



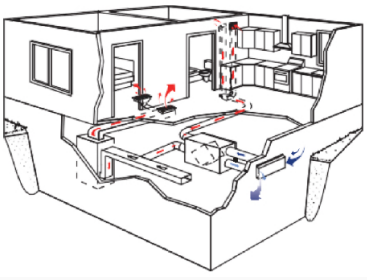
Accessories (Included):

- Mounting brackets

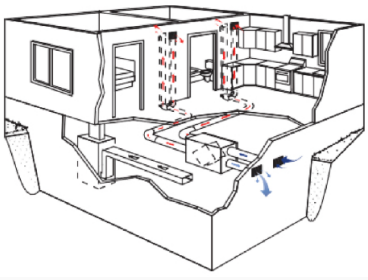
Optional:

- Intermittent Switch, 5VDC (IC100-5V)
- Smart IAQ™ Controller
- Push button timer switch (20/40/60 Min., 5VDC)
- Time Delay Switch (5VDC or 120VAC)
- Motorized Damper (120V AC), option 1 & 2
- Dehumidistat

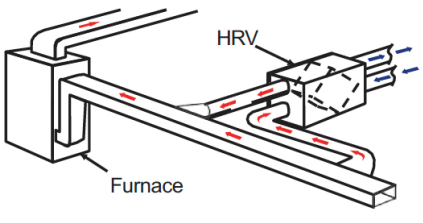
Residential Installation Options:



Fully Ducted System



Semi Ducted System



Furnace Return Air-duct Connection

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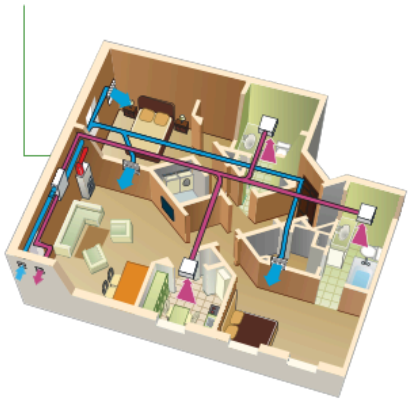
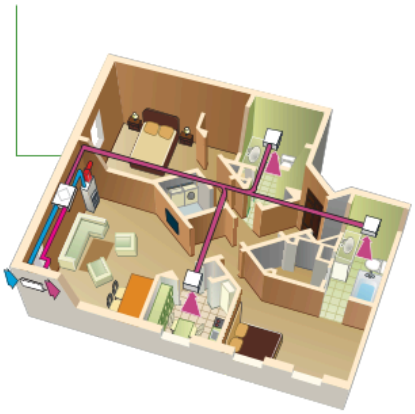
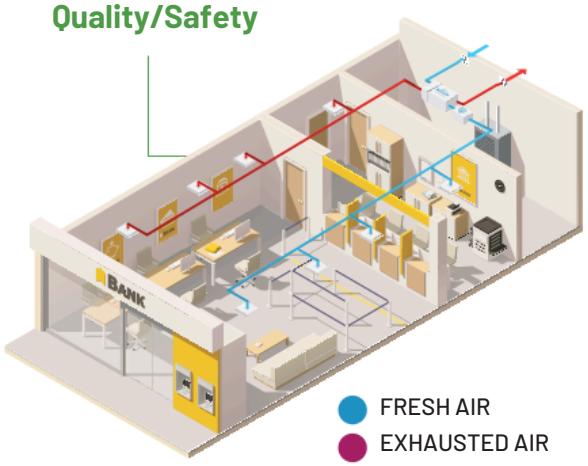


ERV with Fan Coil System

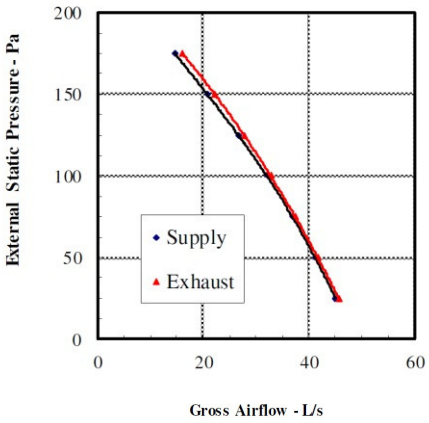


Installation options for Indoor Air Quality/Safety



Ventilation Performance

Exhaust static Pressure		Net Supply air flow		Gross Air Flow				Power*
				Supply		Exhaust		
Pa	in. W.C.	L/s	cfm	L/s	cfm	L/s	cfm	W atts
25	0.1	44	94	45	95	45	96	63
50	0.2	40	86	41	87	41	88	63
75	0.3	36	77	36	78	37	79	63
100	0.4	31	67	32	67	32	69	62
125	0.5	26	55	26	56	27	58	61
150	0.6	20	43	20	44	22	47	60
175	0.7	14	30	14	30	16	33	58
NOTE: FAN CURVE PERFORMED ON THE HIGHEST SPEED								



Energy Performance

RERV-80		Supply T em perature		Net Airflow		Average Power (Watts)	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency	Net Moisture Transfer
		°C	°F	L/s	CFM				
Heating	I	0	32	20	44	31	61%	66%	0.42
	II	0	32	30	64	41	57%	61%	0.35
	III	0	32	35	75	46	55%	58%	0.32
Cooling	IV	35	95	30	64	43	40%**	42%**	0.38

*Fan Power are not certified by HVI.
**Indicates total recovery efficiency not sensible recovery efficiency

Auroris Smart IAQ Indoor Air Quality Excellence Compliant

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