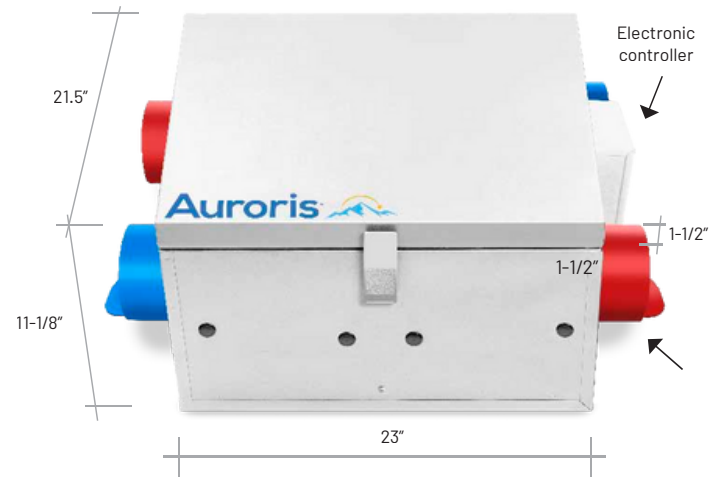


Features

- High efficiency energy saving permanently lubricated variable speed ECM 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 23" (W) x 21.5" (D) x 11.125" (H)
- Power ratings: 115V / 1 / 60 Hz, 1.1 Amp., Standby current is 3W only
- Weight approximately 60 lbs.
- Automatic fan-cycled defrost
- Suitable for horizontal & vertical installation
- Exhaust up to 3 washrooms
- Two Speed exhaust (High / Low) - up to 215 CFM maximum
- Continuous fresh air supply at Normal speed up to 218 CFM
- Furnace / Fan-coil / Heat Pump Interlock
- Dual Power Failure / Freeze Protection
- **Meets All LEED Standards and Building Code Requirements**
- **SMART IAQ™ Enabled**
- **5 Year Limited Warranty**



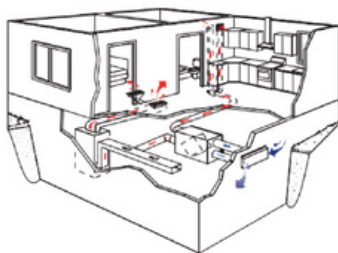
Accessories (Included):

- Webbing Installation Kit or 4 PS Mounting brackets

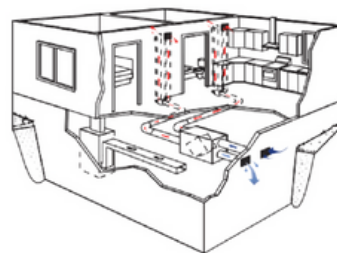
Optional:

- Intermittent Switch, 5VDC (IC100-5V)
- Smart IAQ™ Controller
- Push button timer switch (20/40/60 Min., 5VDC)
- Motorized Damper (120V AC), option 1 & 2
- Pipe and "T" connector

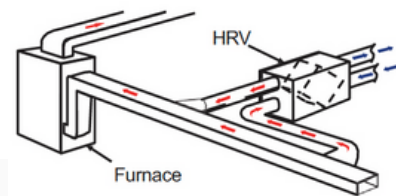
Residential Installation Options:



Fully Ducted System



Semi Ducted System



Furnace Return Air-duct Connection



Fully Ducted System



ERV with Fan Coil System



Installation options for Indoor Air Quality/Safety



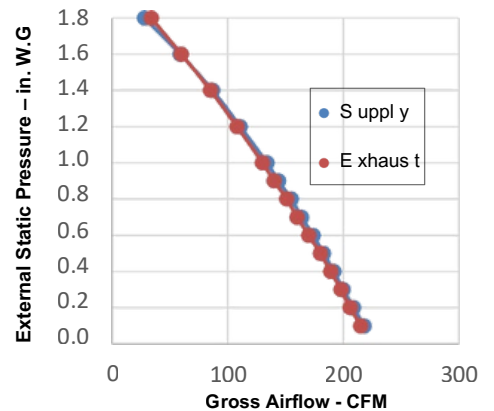
VENTILATION PERFORMANCE

External Static		Net Supply		Gross Air Flow				Power*
Pa	in.w.c.	L/s	Cfm	Supply		Exhaust		
		L/s	Cfm	L/s	cfm	L/s	cfm	Watts
25	0.1	102	216	102	218	101	215	134
50	0.2	98	208	98	209	97	206	134
75	0.3	94	199	94	200	93	198	134
100	0.4	90	190	90	192	89	189	134
125	0.5	85	182	86	183	85	180	134
150	0.6	81	172	82	174	80	170	134
175	0.7	77	163	77	164	76	160	134
200	0.8	72	153	73	155	71	151	134
225	0.9	67	143	68	144	66	140	134
250	1	63	133	63	134	61	130	134
300	1.2	52	111	52	111	51	108	134
350	1.4	40	86	41	87	40	85	132
400	1.6	27	59	28	59	28	60	126
450	1.8	13	28	13	28	16	34	118

SOUND: *

30 l/s (@ 0.2 in W.G)	1.5 Sones (@ 50Pa)
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FAN CURVE: *



ENERGY PERFORMANCE

ESH-190ES		Supply Temperature		Net Airflow		Average Power (Watts)	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency	Net Moisture Transfer
		°C	°F	L/S	CFM				
Heating	i	0	32	30	64	32	87 %	90 %	60 %
	ii	0	32	45	97	46	85 %	88 %	53 %
	iii	0	32	64	136	69	82 %	85 %	46 %
	iv	-25	-13	33	70	40	62 %	63 %	45 %
Cooling	i	35	95	32	68	39	56 %**	58 %**	45 %

*Sound and Fan Power are not certified by HVI.
**Indicate total recovery efficiency

