SYNC-270
Residential Energy Recovery Ventilators

Construction Features

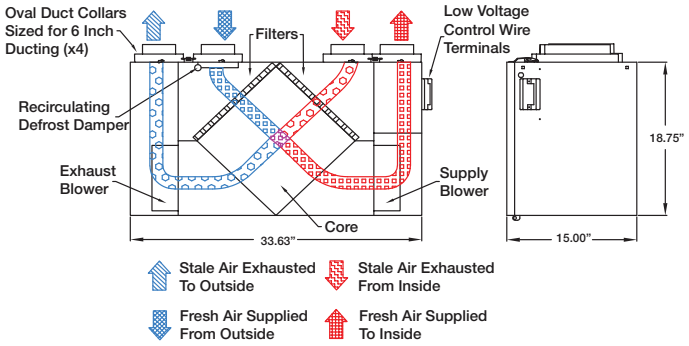
Housing
- Low profile
- Top port duct connection
- Hanging mount
- 20 ga. coated galvanized steel
- Sensor-controlled recirculating defrost
- Easily removable door panel

General
- AHU interlock, NC/NO low/high speed controls
- Cross flow energy recovery core
- Plug electrical connections
- Integral dehumidistat
- Fault indicator display available**
- Precision airflow balancing enabled
- Weight: 57 lbs.
- Factory-balanced airflow
- MERV 6 filters (standard)
- MERV 13 filters (optional)
- UL 1812 compliant
- Dual EC Motors

Warranty
- 5 year core and parts warranty

Accessories
- PrecisionSYNC™ control
- 20/40/60 minute timers
- Dual intake/exhaust hood

*Note: **Must be configured at the factory*



Note: Door clearance of 25 in. (635 mm) is recommended for servicing unit.

All duct uses 5 in. (125 mm) round collars. MERV 13 upgrade: 485467

Drawing represents standard configuration, winter season operation

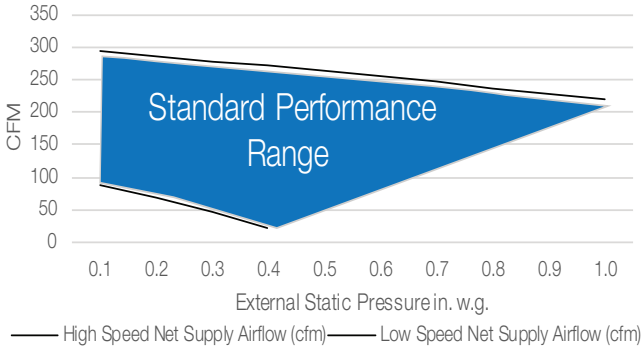
Energy Performance

	Outdoor Air Conditions		Indoor Air Conditions		Net Airflow (CFM)	Power (Watts)	CFM/ Watt	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Adjusted Sensible Recovery Efficiency	Latent Recovery	Total Recovery Efficiency	Adjusted Total Recovery Efficiency
	Temp	RH %	Temp	RH %									
Heating	32°F	75%	71.6°F	40%	64	30	2.1	77%	86%	81%	61%	-	-
	-13°F	-			72	97	0.7	56%	83%	59%	59%	-	-
Cooling	95° F	50%	75° F	50%	65	32	2.0	66%	79%	73%	39%	49%	51%
											= HVI Certified Point		

Electrical Specifications	
Voltage	120V
Cycle	60hz
Amps	1.4A

Airflow Performance

Ext. Static Pressure (in. wg)	High Speed Net Supply Airflow (CFM)	Power (Watts)	CFM/Watt
0.1	295	221	1.3
0.2	286	223	1.3
0.3	278	221	1.3
0.4	271	221	1.2
0.5	263	220	1.2
0.6	254	221	1.1
0.7	246	219	1.1
0.8	237	220	1.1
0.9	229	219	1.0
1.0	219	217	1.0



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SYNC-270TCEA-S1, Rev 4 March 2024
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Sound Performance

Speed Setting	Pressure (in wg)	Supply CFM	Sones	LwA	dBA	Octave Band (dB)							
						63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
1	0.1	89	0.5	46.0	31.4	49.7	52.8	50.1	44.2	36.5	34.3	22.2	20.8
1	0.2	68	0.5	46.6	31.9	50.5	54.7	50.2	44.9	36.8	34.5	22.6	20.8
1	0.3	46	0.8	47.7	33.1	52.9	57.6	51.5	44.8	37.5	35.4	24.3	21.3
1	0.4	22	0.8	47.5	32.9	53.7	58.0	50.6	43.9	38.0	36.7	26.8	22.2
2	0.1	150	1.7	53.2	38.5	55.5	53.9	56.9	52.0	44.3	43.0	33.4	29.3
2	0.2	140	1.7	53.4	38.7	54.9	54.9	57.9	51.8	43.9	42.8	33.1	29.0
2	0.3	125	1.7	53.5	38.9	55.1	55.7	58.0	51.9	44.1	42.8	33.1	28.9
2	0.4	104	1.9	54.4	39.8	55.0	56.6	59.3	52.6	44.7	43.1	33.6	29.3
2	0.5	86	2.2	55.4	40.7	56.2	58.2	60.8	52.9	45.0	43.6	34.8	30.2
2	0.6	66	2.3	55.7	41.1	56.5	61.0	61.3	52.4	45.0	44.0	35.7	31.1
2	0.7	42	2.4	55.8	41.1	58.4	63.4	60.8	52.0	45.4	44.7	37.4	32.7
3	0.1	211	3.0	57.9	43.3	58.7	58.3	60.3	56.0	51.0	49.3	41.3	38.3
3	0.2	202	2.9	57.8	43.2	61.0	57.9	60.3	56.1	50.6	49.1	41.1	38.1
3	0.3	188	3.0	57.9	43.2	61.3	57.8	60.9	56.1	50.3	48.8	40.8	38.0
3	0.4	181	3.0	58.0	43.4	61.4	57.6	61.4	56.3	50.1	48.7	40.7	37.9
3	0.5	164	3.1	58.5	43.8	61.3	57.7	62.4	56.7	50.1	48.7	40.7	37.8
3	0.6	150	3.4	59.2	44.6	60.2	58.2	63.6	57.4	50.5	48.9	41.2	38.0
3	0.7	134	3.6	59.8	45.1	61.4	58.8	64.4	57.9	50.8	49.2	41.7	38.4
3	0.8	115	3.7	60.3	45.6	61.6	59.2	65.2	58.3	51.0	49.4	42.1	38.7
4	0.1	255	4.1	61.6	46.9	63.6	59.9	62.0	60.7	55.3	52.6	45.0	42.1
4	0.2	245	4.0	61.5	46.8	62.4	60.2	62.2	60.6	55.0	52.3	44.8	41.9
4	0.3	232	4.0	61.4	46.8	63.3	59.9	62.2	60.7	54.9	52.0	44.5	41.7
4	0.4	225	4.0	61.4	46.7	63.1	59.9	62.4	60.7	54.7	51.9	44.4	41.7
4	0.5	215	4.0	61.4	46.7	62.4	60.0	62.8	60.7	54.4	51.8	44.4	41.6
4	0.6	202	3.9	61.2	46.5	62.0	59.9	63.3	60.1	54.2	51.7	44.4	41.6
4	0.7	192	3.9	61.2	46.5	62.9	59.9	63.7	59.8	54.1	51.7	44.5	41.7
4	0.8	177	4.1	61.5	46.8	62.2	60.3	64.6	59.9	54.1	51.9	44.9	41.9
4	0.9	165	4.3	61.9	47.3	63.7	60.7	65.3	60.3	54.4	52.2	45.4	42.3
4	1.0	155	4.5	62.3	47.7	63.7	61.4	66.0	60.5	54.7	52.5	45.8	42.5
5	0.1	295	6.5	68.4	53.7	68.2	63.7	65.4	69.3	60.4	58.7	51.3	47.4
5	0.2	286	6.4	68.0	53.4	65.1	64.1	65.9	68.7	60.2	58.6	51.2	47.3
5	0.3	278	6.4	68.1	53.5	65.7	64.3	65.8	69.0	60.0	58.3	51.0	47.3
5	0.4	271	6.4	68.1	53.4	65.5	64.4	65.8	69.0	59.8	58.1	50.9	47.3
5	0.5	263	6.3	68.1	53.5	65.3	64.3	65.6	69.2	59.7	57.9	50.8	47.3
5	0.6	254	6.3	67.9	53.3	65.4	64.8	65.6	68.9	59.6	57.8	50.8	47.2
5	0.7	246	6.2	67.7	53.1	65.1	64.3	65.7	68.6	59.5	57.7	50.8	47.2
5	0.8	237	6.1	67.3	52.7	65.4	64.3	65.6	67.9	59.6	57.6	50.8	47.3
5	0.9	229	6.1	67.2	52.6	65.2	64.3	65.7	67.7	59.6	57.5	50.8	47.4
5	1.0	218	6.0	66.8	52.1	65.5	63.9	65.8	66.8	59.7	57.4	50.8	47.6

Note: Data represents radiated sound, measured at five feet, in a spherical-free field, in an accredited AMCA sound testing facility

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