

**SYNC110™**  
BY GREENHECK

# Energy Recovery Ventilator Model SYNC-110SE-S1



## The Affordable Balanced Ventilation Solution

Compact, Energy-Efficient Energy Recovery Ventilator

### Features:

- The **SYNC-110SE-S1** energy recovery ventilator (ERV) is the perfect high-performance solution for single or multifamily installations with limited mechanical space.
- The **low-profile design** (9.75-inch height) simplifies installations in bulkheads and drop ceilings.
- The **SYNC-110SE-S1** is powered by two electronically commutated motors (ECM) with adaptive, variable speed technology programmed to adapt to the static pressure associated with a dirty filter or core. The motor reacts to increased static pressure by increasing its speed to ensure you have the airflow required to maintain a healthy balance.
- 50-130 cfm operational range with high-speed selections.
- **Total Recovery Core:** The cross-flow energy recovery core transfers heat and moisture between two airstreams without allowing cross contamination. Used for balanced mechanical ventilation in humid environments to reduce air conditioning (AC) energy costs. In colder climates, moisture transfer is reversed. The unit helps to moderate humidity and the core is a highly efficient heat exchanger. Can be easily removed for cleaning or service.
- **HVI Certified**
- **Frost Prevention:** Temperature sensor activated. Supply air shuts off to defrost core with warm exhaust air at high speed. Condensation lines are not required.



### Additional Benefits

- A convenient hinged door without screws and a removable motor and electronic assembly allow for easy maintenance and service.
- Swing open junction box cover for quick access to the circuit board and DIP switches.
- Washable antimicrobial MERV-6 air filters in exhaust and supply airstreams. MERV-13 upgrade option is available.
- Brackets included for easy ceiling installation.
- 20-gauge prepainted galvanized steel for superior corrosion resistance, insulated to prevent exterior condensation.
- Available in mirrored and hardwired configurations upon request.

## OPTIONAL ACCESSORIES:

### Control Options

All controls offer continuous ventilation, continuous low-speed operation, 3-wire connection and are compatible with the Wireless Timer (435248).

Additional Features	Precision-SYNC Digital Wall Control (435244)	Two-Speed Switch with Humidity Sensor (435245)	Two-Speed Switch with Intermittent Mode (435246)
5-speed fan operation on each mode	✓		
2-speed fan operation (Low/High)		✓	✓
Humidity control with adjustable dehumidistat	✓	✓	
Large digital LCD screen	✓		
LED status indicator lights		✓	✓
20 ON/40 OFF	✓		✓
10 ON/50 OFF	✓		
20/40/60 min. high-speed override button	✓		

### HAVEN IAQ Control Bundle

Using the HAVEN Central Air Monitor and Central Air Controller (485673) in combination with your Greenheck ASSURE or SYNC ERV and up to one additional HVAC device (e.g. dehumidifier) provides automated indoor air quality management for a **simple, affordable indoor air quality system**.

The Monitor measures whole-house air flow and detects particles (PM2.5), chemicals (VOC), temperature, and relative humidity in the air and uses its readings to inform the Controller when to automate your ERV to temporarily initiate HIGH Fan speed ventilation. The ERV will return to the selected operational mode and fan speed setting when the detected event is cleared from the Central Air Monitor.

### Timer Options

#### 20/40/60 Minute Timer (435247)

Initiates high speed ventilation for 20, 40 or 60 minutes. 3-wire connection.

#### 20/40/60 Minute Wireless Timer (435248)

Initiates high speed ventilation for 20, 40 or 60 minutes. Wirelessly connects to main control for ease of installation. 40 ft approximate range. Pair with the Wireless Repeater (435249) to extend the range of the timer.

### Additional Accessories

#### Dual Intake and Exhaust Hood (435250)

Features a 5-inch dual hood. Ideal for space constrained ERV applications, with only one 6-inch opening required for intake/exhaust.

#### MERV 13 Filter (485463)

MERV 13 filters are designed to offer added protection from dust, pollen, mold, bacteria, and any airborne particles with a size of 0.3 microns (µm).

## PRECISION SYNC™



435244



435245



435246



485673



435247



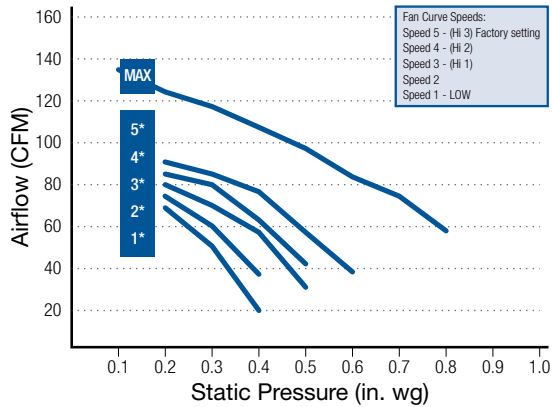
435248



435250

IN. WG (PA)	0.2 (50) cfm (L/s)	0.3 (75) cfm (L/s)	0.4 (100) cfm (L/s)	0.5 (125) cfm (L/s)	0.6 (150) cfm (L/s)	0.7 (175) cfm (L/s)	0.8 (200) cfm (L/s)	0.9 (225) cfm (L/s)
Net Supply Airflow	123 (58)	117 (55)	108 (51)	97 (46)	87 (41)	74 (35)	57 (27)	40 (19)
Gross Supply Airflow	125 (59)	119 (56)	110 (52)	100 (47)	89 (42)	74 (35)	59 (28)	40 (19)
Gross Exhaust Airflow	121 (57)	117 (55)	110 (52)	104 (49)	93 (44)	78 (37)	57 (27)	28 (13)

*Sensible Effectiveness (ASE) @ 49 cfm (23 L/s)	32°F (0°C)	80%
Sensible Efficiency (SRE) @ 49 cfm (23 L/s)	32°F (0°C)	72%
Total Efficiency (TRE) @ 49 cfm (23 L/s)	95°F (35°C)	51%

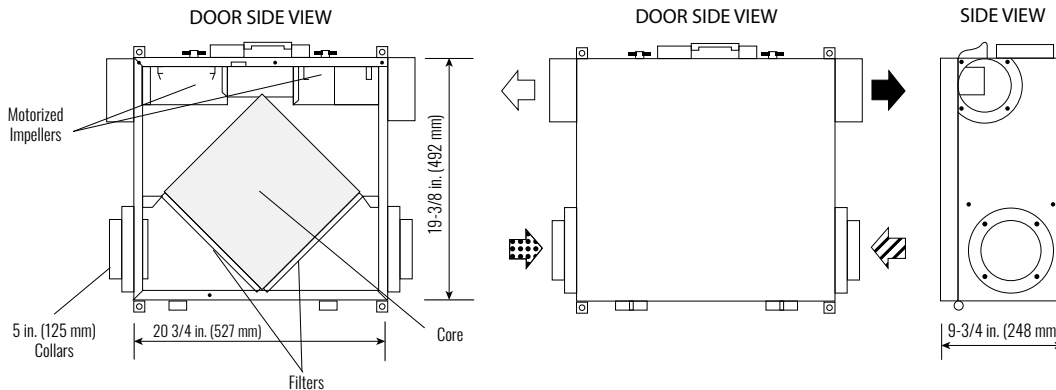


ELECTRICAL SPECIFICATIONS	
VAC @ 60Hz	120
*Watts / Low Speed	22
*Watts / High Speed	50
*Amp Rating	1.4



\* Not an HVI certified data point

## DIMENSIONS



**Airflow:**

- ↔ Stale Air to Outside
- ↔ Fresh Air from Outside
- ↔ Stale Air from Inside
- ↔ Fresh Air to Inside

NOTE: Front clearance of 25 in. (635 mm) is recommended for servicing unit. All ducts use 5 in. (125 mm) round collars. MERV 13 upgrade: 485463

Weight: 34 lbs (15.5 kg) • Shipping weight: 36 lbs (16 kg)

## Our Commitment

*As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.*

Product warranties can be found online at [Greenheck.com](http://Greenheck.com), either on the specific product page or in the literature section of the website at [Greenheck.com/Resources/Library/Literature](http://Greenheck.com/Resources/Library/Literature).

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