

SYNC180™
BY GREENHECK

Energy Recovery Ventilator Model SYNC-180SCE-S1

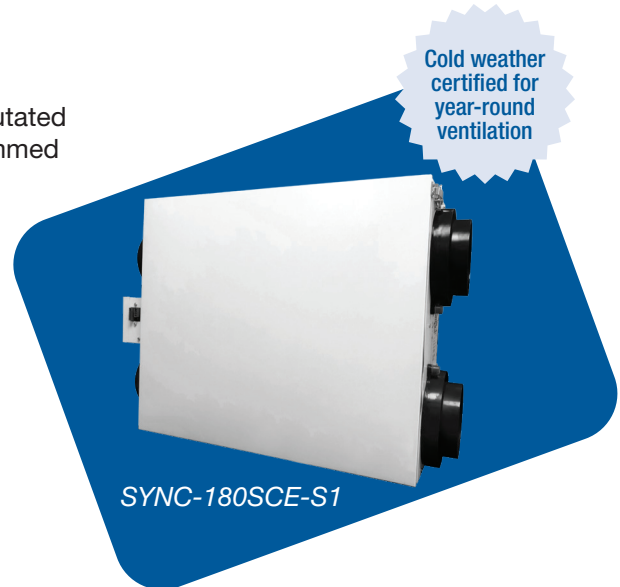


The Precision Balanced Ventilation Solution

Cold-weather Certified, Energy-Efficient, Precision Energy Recovery Ventilator

Features:

- The **SYNC-180SCE-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.
- **EXCLUSIVE! Precision Balancing:** When paired with the PrecisionSYNC control, the **SYNC-180SCE-S1** measures the maximum airflow capacity of the installation and enables the installer to dial in precise airflow to meet design and code requirements.
- **Best-in-class core efficiency** with a sensible recovery efficiency (SRE) of 84% at 32° F.
- 75-200 cfm operational range with three installer selectable 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.



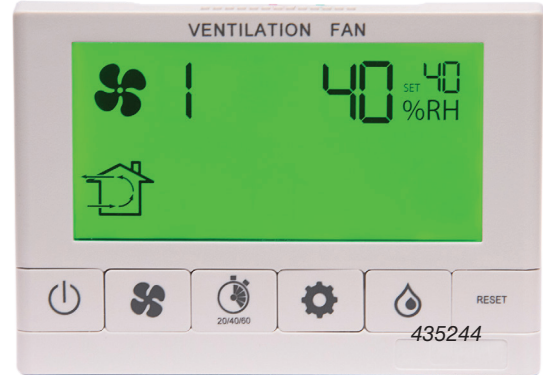
Additional Benefits

- The **SYNC-180SCE-S1** can be mounted to the ceiling or the wall with the included brackets, providing flexibility and easy installation. The design features a low profile with a slim height of 10 inches. This ERV fits in bulkhead and drop ceilings, ideal for homes or apartments with limited mechanical space.
- 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:

PrecisionSYNC Digital Wall Control

- Features an easy to read, backlit LCD Display, stylish slim design and five selection modes of operation. The control is simple to program with a touch of a button.
- **EXCLUSIVE!** Precision Balancing: When paired with the SYNC180 or SYNC270 ERV, the control measures the maximum airflow capacity of the installation and enables the installer to dial in precise airflow to meet design and code requirements.
- Includes 10 min. ON/ 50 min. standby, for when the home is unoccupied or activity is low, high speed fan override in 20, 40 or 60 min. intervals for high activity levels, maintenance reminder and a reset button.
- Connects wirelessly with the Wireless Timer (435248).



PRECISION SYNC™

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.



485673

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.



435247



435248

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 (485465)

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).

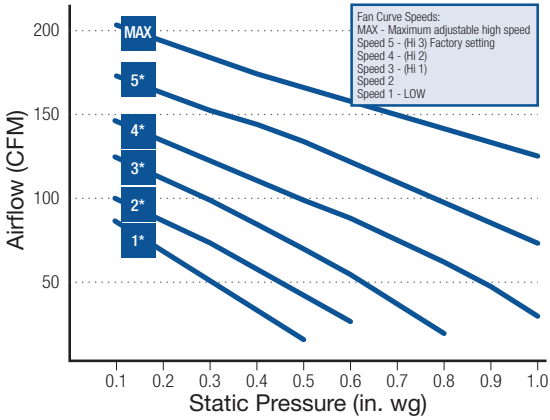


435250

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	191 (90)	184 (87)	176 (83)	167 (79)	159 (75)	150 (71)	140 (66)	133 (63)
Gross Supply Airflow	193 (91)	186 (88)	178 (84)	170 (80)	159 (75)	150 (71)	142 (67)	133 (63)
Gross Exhaust Airflow	201 (95)	193 (91)	184 (87)	176 (83)	167 (79)	159 (75)	148 (70)	140 (66)

WATTS/CFM

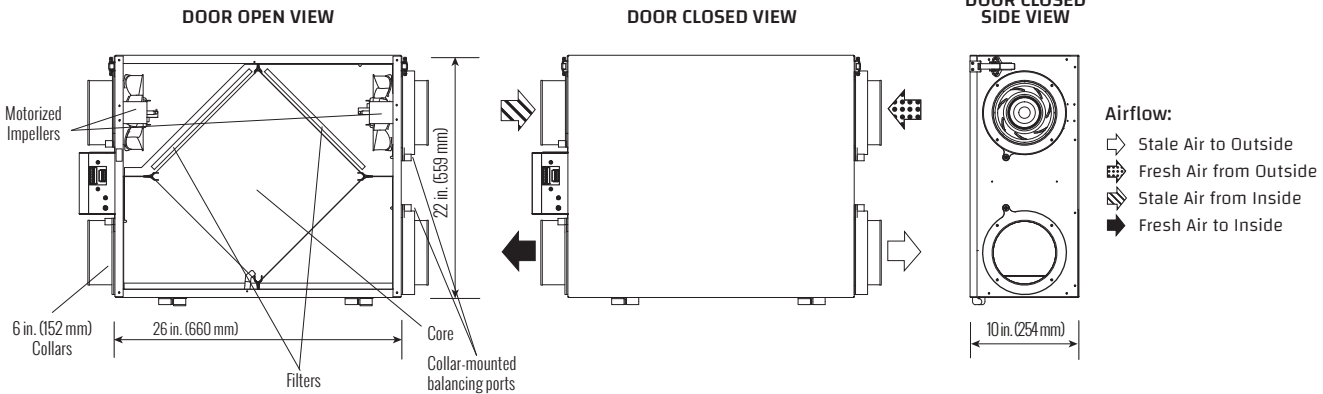
*Sensible Effectiveness (ASE) @ 64 cfm (30 L/s)	32°F (0°C)	88%	0.44
Sensible Efficiency (SRE) @ 64 cfm (30 L/s)	32°F (0°C)	84%	0.44
Sensible Efficiency (SRE) @ 72 cfm (34 L/s)	-13°F (-25°C)	62%	0.40
Total Efficiency (TRE) @ 64 cfm (30 L/s)	95°F (35°C)	60%	0.50



ELECTRICAL SPECIFICATIONS	
VAC @ 60Hz	120
Watts @ 64 cfm (30 L/s)	28
*Amp Rating	2.0



DIMENSIONS



NOTE: Front clearance of 22 in. (559 mm) is recommended for servicing unit. All ducts use 6 in. (152 mm) round collars. MERV 13 upgrade: 485465
 Weight: 42 lbs (19 KG) • Shipping weight: 44 lbs (20 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, either on the specific product page or in the literature section of the website at Greenheck.com/Resources/Library/Literature.

Visit Greenheck.com/residential-ventilation to learn more

