

ET-255MF-P340-XC0 INDOOR UNIT

For Residential Use Only and Patent Pending



Note: There are multiple control options designed to address individual climate conditions. Please consult your local installer for the best installation controls for your climate.

SPECIFICATIONS

Ventilation Type: Static plate, heat and humidity transfer

Typical Airflow Range: 35–255 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol:
Using one L-50-G5 Core

Standard Features:

EPP cabinet
Snap-N-Go™ duct collars
Top port connections
Line-cord power supply
Low-voltage circuit for controls
Cross-core differential pressure ports
Smart constant volume airflow setpoints (5)
Dial-A-Flow: balance and airflow adjustment
Variable speed
2 speeds: low (continuous) and high/boost-mode (intermittent)

Controls: Onboard digital controller with independent variable speeds

Filters:

Total qty. 2, MERV 8, spun-polyester media:
10 1/2" x 10 1/2" x 1"

Unit Weight: 25 lbs.

Max. Shipping Dimensions & Weight (in carton):

34" L x 14.5" W x 30" H
30 lbs.

Units Per Pallet: 6

Motor(s): Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8"
Automatic balancing damper: 4", 5", 6"
Motorized Dampers: 6", 8"
Concentric Vent: 6" (CV6-110)
Louvered wall vent 6": white, brown
Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanized
Louvered wall vent with 8" round duct connection: 12" W x 8" H
Hooded wall vent 8": galvanized, paintable galvanized
Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)
Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
Push-button boost timer (PBT)
Percentage timer control (PTL)
Percentage timer control with furnace interlock (FM)
Push-button point-of-use controls (PBL), PTL req'd.
BACnet fan control: wall mount (BACNETFC-W)
MERV 13 filter: OA airstream (shipped loose)
Electric duct heater: RH series (1–8 kW); designed for indoor ductwork installation only

CORE PERFORMANCE, CONSTANT VOLUME AIRFLOW SETPOINTS

| Airflow (CFM) | External Static Pressure (Inches Water Column) | Unit Power Consumption (Watts) | Sensible EFF% | Total EFF% Winter/Summer |
|---------------------------------|--|--------------------------------|---------------|--------------------------|
| Max. Speed | | | | |
| 263 | 0.10 | 260 | 54 | 43/23 |
| 256 | 0.20 | 260 | 55 | 44/24 |
| 248 | 0.30 | 260 | 56 | 45/26 |
| 239 | 0.40 | 260 | 57 | 47/28 |
| 231 | 0.50 | 260 | 58 | 48/29 |
| 225 | 0.60 | 260 | 59 | 49/31 |
| 216 | 0.70 | 260 | 60 | 51/33 |
| 208 | 0.80 | 260 | 61 | 52/34 |
| 199 | 0.90 | 260 | 62 | 53/36 |
| 191 | 1.00 | 260 | 64 | 55/37 |
| 173 | 1.20 | 260 | 66 | 58/41 |
| 156 | 1.40 | 260 | 68 | 60/44 |
| Constant Volume Airflows | | | | |
| 190 | 0.20 | 160 | 64 | 55/37 |
| 150 | 0.20 | 104 | 69 | 61/45 |
| 110 | 0.20 | 62 | 74 | 68/53 |
| 70 | 0.20 | 22 | 79 | 74/61 |
| 35 | 0.20 | 15 | 84 | 80/68 |

| Constant Volume Airflow Setpoints | | | | |
|--|---|-----------------|--------------------------|-----------------|
| Setpoint | External Static Pressure (Inches Water Column) | | | |
| | 0.20 to 0.60 | | > 0.60 to 1.00 | |
| | Nominal (CFM) | Tolerance (CFM) | Nominal (CFM) | Tolerance (CFM) |
| 1 | 35 | +/- 5 | 35 | +/- 5 |
| 2 | 70 | +/- 10 | 70 | +/- 10 |
| 3 | 110 | +/- 15 | 100 | +/- 15 |
| 4 | 150 | +/- 15 | 140 | +/- 15 |
| 5 | 190 | +/- 25 | 180 | +/- 20 |

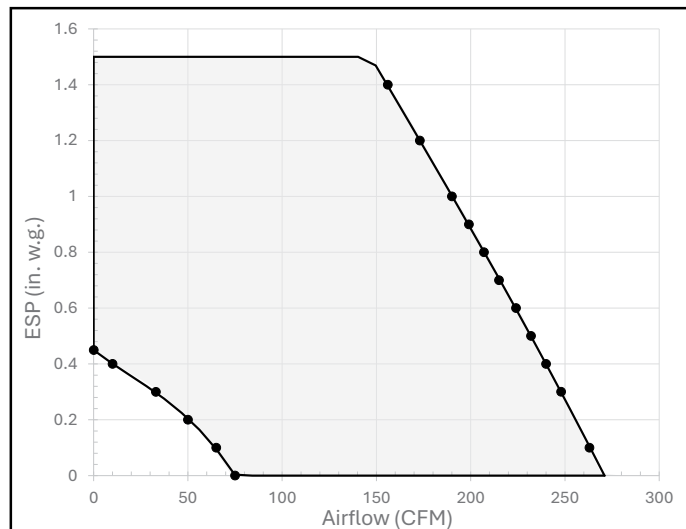
Note: For design static pressures beyond the provided for constant volume setpoints, please contact factory for application support.

Notes:

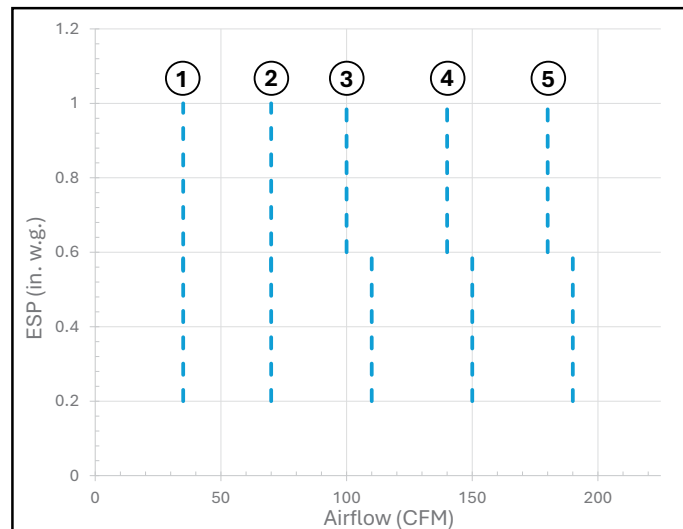
- Watts is for the entire unit.
- Airflow performance includes effect of clean, standard filter supplied with unit.
- Refer to CORES for specific operating point electrical data.
- These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings.

EC MOTOR OPERATING RANGE

Dial-A-Flow Operating Airflows



Constant Volume Airflows



● = Actual tested sample points | = Operating curves, airflow is held constant as static pressure varies ⋮ = Nominal constant volume airflow setpoints

ELECTRICAL DATA

| Watts | Volts | Hz | Phase | FLA per motor | Minimum Circuit Amps | Max Overcurrent Protection Device |
|-------|-------|----|-------|---------------|----------------------|-----------------------------------|
| 130 | 120 | 60 | 1 | 1.8 | 15 | 15 |