METRO 120ERVD-ECM
ENERGY RECOVERY VENTILATOR

ENGINEERING DATA

TOTAL RECOVERY CORE
Cross-flow energy recovery core transfers heat and water vapor between two air-streams. Easily removed for cleaning or service.

MOTORS AND BLOWERS
Each airstream has an independant centrifugal blower with ECM motor with multiple fan speed operations.

INTELLIGENT DEFROST DAMPER MOTOR
- Smart damper motor with integrated circuit board
- Energy efficient DC motor
- Power saving standby mode when not cycling
- Integrated ice breaker technology
- Temperature compensated torque for reliable operation in any application
- Auto-sensed memory storage of opened and closed positions
- Soft sealing for extended part life

FILTERS
Washable antimicrobial MERV 6 air filters in exhaust and supply air streams.

MOUNTING
Mounting brackets supplied

DEFROST
Recirculating damper defrost system.

CASE
Twenty gauge prepainted galvanized steel for superior corrosion resistance. Insulated to prevent exterior condensation.

ELECTRONICS
Main control can be wall mounted in a central location. 3 wire 20 gauge (min.) 100 ft. length (max.)

OPTIONAL ACCESSORIES:

TechGrille
99-EAG4
99-EAG5
99-EAG6
99-EAG8

Terminator Fitting
99-TM4
99-TM5
99-TM6

Wireless 20/40/60 Min Timer
99-DET02

Dual Hood
99-190
99-194

Weather Hoods
99-185
99-186
99-187

LIFEBREATH CONTROL OPTIONS

FEATURES	99-DXPL02	99-BC02	99-BC03	99-BC04
5 speed fan operation on each mode	✓			
2 speed fan operation (Low/High)		✓		✓
Continuous low speed fan operation			✓	
Humidity control through adjustable Dehumidistat	✓	✓	✓	
Large digital LCD screen	✓			
LED status indicator lights		✓	✓	✓
Continuous Ventilation	✓		✓	
Continuous Recirculation	✓		✓	
20 ON/40 OFF	✓			
10 ON/50 OFF	✓			
20 ON/40 Recirculation	✓		✓	✓
20/40/60 min. High speed override button	✓			
Compatible with 99-DET02 Wireless Timer	✓	✓	✓	✓
3 wire connection	✓	✓	✓	✓

TIMER OPTIONS

99-DET01 - Lifebreath 20/40/60 Minute Timer
Initiates high speed Ventilation for 20, 40 or 60 minutes. 3 wire connection.

99-DET02
Wireless Lifebreath 20/40/60 Minute Timer
Initiates high speed Ventilation for 20, 40 or 60 minutes. Wirelessly connects to main control for ease of installation. 40' approximate range. **Excusive to Lifebreath.**

99-RX02 - Wireless Lifebreath Repeater
Extends range of 99-DET02 Wireless Timers. Plugs into 120V power outlet. Wirelessly connects to main control and 99- DET02. Install at halfway point between timer and main wall control if timer is out of range.

99-DXPL02

99-DET02

LIFEBREATH®
Indoor Air Systems

METRO 120 ERVD-ECM (05-19)

www.lifebreath.com

METRO 120ERVD-ECM
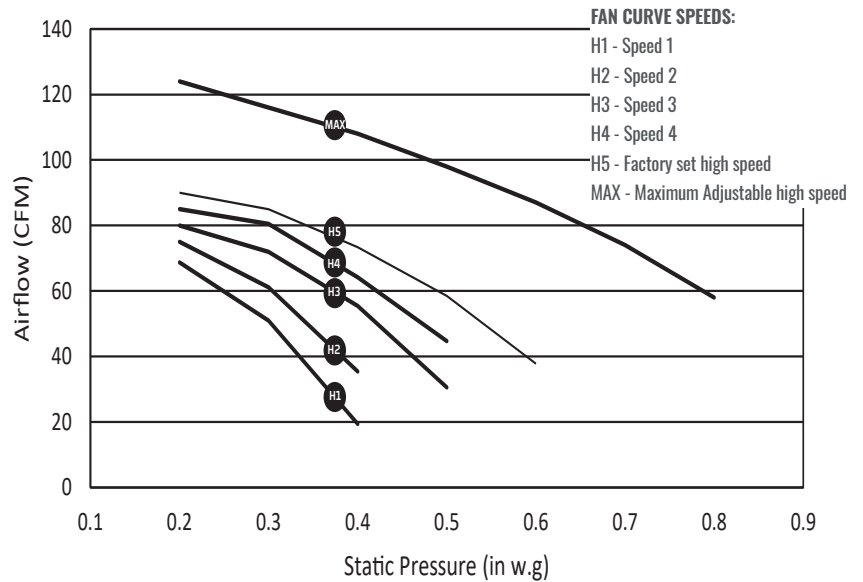## ENERGY RECOVERY VENTILATOR

PERFORMANCE (HVI CERTIFIED)

IN. W.G. (PA)	0.1 (25) CFM (L/s)	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)
Net Supply Airflow	131 (62)	124 (58)	116 (55)	108 (51)	98 (46)	87 (41)	74 (35)	58 (27)
Gross Supply Airflow	132 (63)	125 (59)	118 (56)	109 (52)	100 (47)	88 (42)	75 (35)	59 (28)
Gross Exhaust Airflow	130 (61)	122 (57)	116 (55)	110 (52)	103 (49)	93 (44)	78 (37)	57 (27)

ELECTRICAL SPECIFICATIONS

VAC @ 60Hz	120
Watts / Low Speed	20
Watts / High Speed	78
Amp Rating	0.8

			WATTS/ CFM
Sensible Effectiveness (ASE) @ 64 CFM (30 L/s)	32°F (0°C)	81%	.410
Sensible Efficiency (SRE) @ 64 CFM (30 L/s)	32°F (0°C)	72%	.410
Sensible Efficiency (SRE) @ 49 CFM (23 L/s)	32°F (0°C)	74%	.411
Total Efficiency (TRE) @ 64 CFM (30 L/s)	95°F (35°C)	46%	.440
Sensible Efficiency (SRE) @ 57 CFM (27 L/s)	-13°F (-25°C)	57%	–

FAN CURVE SPEEDS:
H1 - Speed 1
H2 - Speed 2
H3 - Speed 3
H4 - Speed 4
H5 - Factory set high speed
MAX - Maximum Adjustable high speed

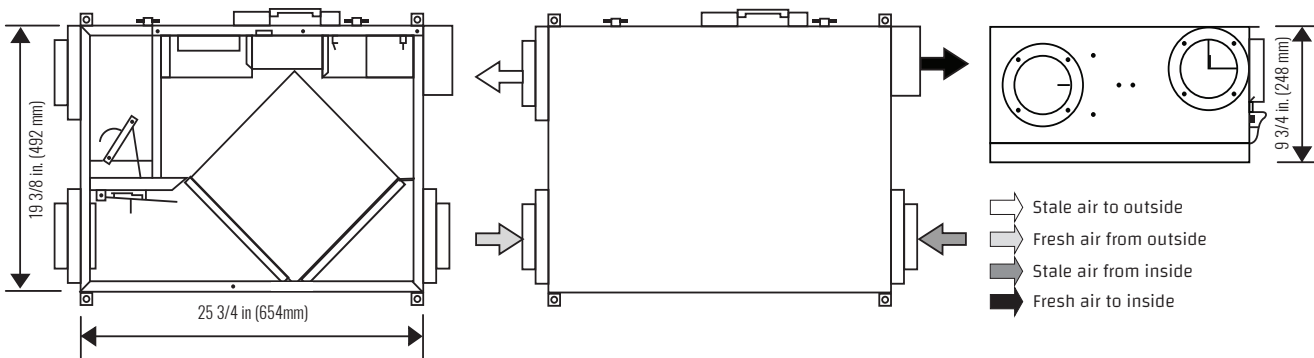
Airflow (CFM) vs Static Pressure (in w.g.)

WEIGHT:
57 LBS (25.8 KG)

SHIPPING WEIGHT:
67 LBS (30 KG)

NOTE:
Front clearance of 25 in. (635 mm) is recommended for servicing unit.

DIMENSIONS

19 3/8 in. (492 mm)

25 3/4 in (654mm)

9 3/4 in. (248 mm)

▷ Stale air to outside
▷ Fresh air from outside
▶ Stale air from inside
▶ Fresh air to inside

Date: _____

Tag: _____

Project: _____ Qty: _____

Engineer: _____

Control: _____

Contractor: _____

Supplier: _____

Quote # : _____

Submitted By: _____

Timer: _____ Timer Qty: _____

LIFEBREATH Indoor Air Systems