100 ECM
HEAT RECOVERY VENTILATOR

LIFEBREATH®

ENGINEERING DATA

THERMALLY CONDUCTIVE, PATENTED ALUMINUM CORE
The counter-flow heat recovery core transfers heat between the two airstreams. It is easily removed for cleaning or service.

MOTORS AND BLOWERS
High efficiency electronic commutate ECM motor, for maximum energy savings. Each airstream has one centrifugal blower, with multiple fanspeed operations driven by one double shaft motor.

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

MOUNTING
Four threaded inserts at corners of the cabinet designed to accept the "s" hooks and hanging straps supplied with the unit.

DEFROST
Recirculating damper defrost system.

CASE
Twenty gauge prepainted galvanized steel for superior corrosion resistance. Insulated to prevent exterior condensation. Drain connections 2 - 1/2 in. (12 mm) OD. Balancing ports are located on door.

ELECTRONICS
The DXPL02 control included with the unit can be wall mounted in a central location of the home. 3 wire 20 gauge (min.) 100 ft length (max.).

WARRANTY
Units carry a lifetime warranty on the HRV core and a 5 year replacement parts warranty.

OPTIONAL ACCESSORIES:

Weather Hood
99-185
99-186
99-187

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

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
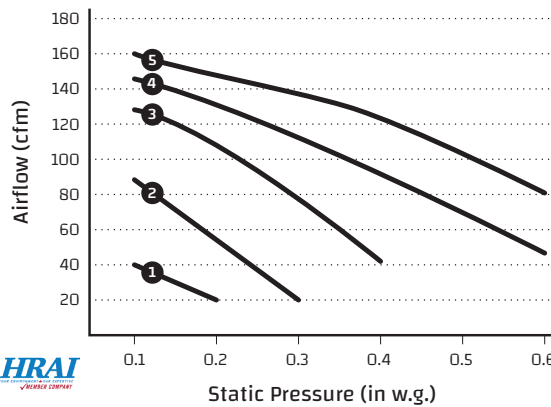
100 ECM
HEAT RECOVERY VENTILATOR

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)
Net Supply Airflow	161 (76)	143 (68)	129 (61)	114 (54)	97 (46)	78 (37)
Gross Supply Airflow	165 (78)	147 (69)	131 (62)	117 (55)	102 (48)	81 (38)
Gross Exhaust Airflow	229 (108)	215 (101)	210 (99)	203 (96)	184 (87)	142 (67)

ELECTRICAL SPECIFICATIONS

VAC @ 60Hz	120
Watts / Low Speed	40
Watts / High Speed	115
Amp Rating	1.75

Sensible Effectiveness (ASE) @ 64 CFM (30 L/s)	32°F (0°C)	78%
Sensible Efficiency (SRE) @ 64 CFM (30 L/s)	32°F (0°C)	71%
Sensible Efficiency (SRE) @ 95 CFM (45 L/s)	32°F (0°C)	69%
Sensible Efficiency (SRE) @ 68 CFM (32 L/s)	-13°F (-25°C)	64%

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

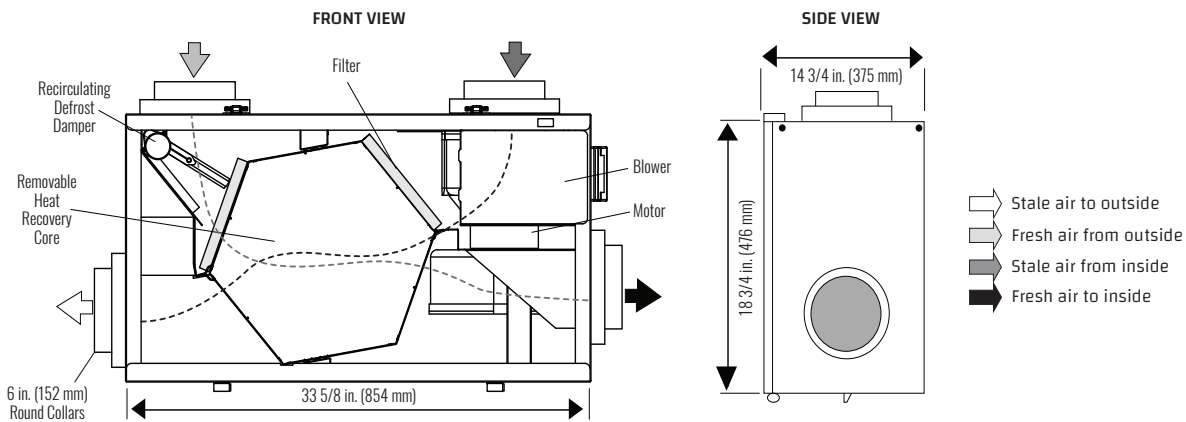**WEIGHT:**
71 LBS (32 KG)

SHIPPING WEIGHT:
73 LBS (33 KG)

NOTE:
Front clearance of 25 in. (635 mm) is recommended for servicing unit. All ducts use 6 in. (152 mm) round collars. Balancing dampers are located in all air streams.

ENERGY STAR · C CSA US Conforms to UL Standards · 2100 HVI CERTIFIED · ISO 9001 REGISTERED · HRAI MEMBER COMPANY

DIMENSIONS

FRONT VIEW

Recirculating Defrost Damper
Filter
Removable Heat Recovery Core
Blower
Motor
6 in. (152 mm) Round Collars
33 5/8 in. (854 mm)

SIDE VIEW

14 3/4 in. (375 mm)
18 3/4 in. (476 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

100ECM(9-11-18)

www.lifebreath.com