About Lifebreath

For 30 years Airia Brands Inc. has manufactured indoor air quality products to a worldwide customer base. Product development, research, testing, manufacturing, marketing, sales and technical support are headquartered at our 65,000 square foot facility in London, Ontario, Canada. We are recognized worldwide for the quality and performance of our Lifebreath product line, our customer service and our technical support. We will continue to lead the industry with technical innovations in our products, the highest level of customer support, superior warranties, and proven proficiency in manufacturing.

Products

We hold seven U.S. patents including some of the most important and leading edge technologies in the industry, including: heat recovery ventilator, air to air exchanger core (HRV core), combined furnace and heat recovery system, and more. Many more patents are pending.

Our eco-friendly and energy efficient solutions include ECM motors in many models and standard state-of-the-art digital controls that allow customers to personalize HRV operation for their environment. We proudly manufacture the only five speed HRV available, with an included wall control. Our patented aluminum HRV core carries a lifetime guarantee and is easily maintained. Just wash and return. Our new ERV non-cellulose core will not deteriorate with moisture and is the only water-washable ERV core available today. Everything in our line is designed for superior performance and low maintenance to ensure complete installer and customer satisfaction.

Energy Star

A new ENERGY STAR® specification was introduced to the Canadian residential energy and heat recovery ventilator (ERV/HRV) industry beginning January 2010. Airia Brands Inc., proud manufacturers of Lifebreath® products are an active participant of this prominent program. The ENERGY STAR® symbol identifies products that meet or exceed stringent energy efficiency criteria achieving uncompromised performance. Our commitment to high performance and energy efficiency has always been of paramount importance to Airia Brands, and most Lifebreath® residential products qualify for this important energy efficiency benchmark. ENERGY STAR® products may qualify for energy efficiency rebates. Incentive programs vary by geography and date. Check industry programs in your area for qualifying incentives.

Look For This Symbol

This product earned the ENERGY STAR by meeting strict energy efficiency guidelines set by Natural Resources Canada and the US EPA. This meets ENERGY STAR requirements only when used in Canada.

Certified Lifebreath® HRV products include: RNC5-TPD, RNC 95, RNC 200, 95 MAX, 155 ECM, 195 ECM, 200 MAX, 200 MAX RX, 195 DCS and 300 DCS. See Ventilation section, pages 3-16 for more details.
# INDEX

## NEW FROM AIRIA

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For additional information about Lifebreath® products in this catalogue, downloads and much more, visit us at [www.lifebreath.com](http://www.lifebreath.com)
AIR QUALITY AND ENERGY PERFORMANCE AT ITS BEST

Highest efficiency single core HRV on the market

- Recovers 85% of the heat energy maximizing savings
- Easy Maintenance with Lifetime Warranty on core
- Counter-flow design for maximum recovery
- Meets Energy Star Certifications
- 5 speed, 4 mode operation
- Patented Aluminum core
- Includes digital control
- Door port balancing

Visit us at www.lifebreath.com

Manufacturer reserves the right to change specifications without notice.
MAX SERIES
HEAT RECOVERY VENTILATORS

95 MAX
155 MAX / 155 MAX RX
155 ECM
195 ECM
200 MAX / 200 MAX RX
195 DCS
300 DCS

Setting a new standard for energy efficient, clean air homes.

Visit us at www.lifebreath.com

Manufacturer reserves the right to change specifications without notice.
# Model Selection

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Airflow cfm (L/s)</th>
<th>Effectiveness @ 0 °C (32 °F)</th>
<th>Performance Highlights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>.1 (25 Pa)</td>
<td>.2 (50 Pa)</td>
<td>.3 (75 Pa)</td>
</tr>
<tr>
<td>95 MAX</td>
<td>Recirculating Defrost</td>
<td>24.5 x 16.5 x 16</td>
<td>76</td>
<td>73</td>
</tr>
<tr>
<td>155 MAX</td>
<td>Recirculating Defrost</td>
<td>33.62 x 14.75</td>
<td>144</td>
<td>134</td>
</tr>
<tr>
<td>155 MAX RX</td>
<td>Recirculating Defrost</td>
<td>33.62 x 14.75</td>
<td>184</td>
<td>157</td>
</tr>
<tr>
<td>155 ECM</td>
<td>Recirculating Defrost</td>
<td>33.62 x 14.75</td>
<td>191</td>
<td>184</td>
</tr>
<tr>
<td>195 ECM</td>
<td>Damper Defrost</td>
<td>19.49 x 14.75</td>
<td>207</td>
<td>200</td>
</tr>
<tr>
<td>200 MAX</td>
<td>Recirculating Defrost</td>
<td>33.62 x 14.75</td>
<td>203</td>
<td>191</td>
</tr>
<tr>
<td>200 MAX RX</td>
<td>Recirculating Defrost</td>
<td>33.62 x 14.75</td>
<td>265</td>
<td>260</td>
</tr>
<tr>
<td>195 DCS</td>
<td>Damper Defrost</td>
<td>19.49 x 14.75</td>
<td>265</td>
<td>260</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Control Options</th>
</tr>
</thead>
</table>

**Lifestyle MAX Digital Control #99-DXPL01 (included)**
- 5-speed operation
- 4 user operational modes:
  - continuous ventilation
  - 20 min. ON, 40 min. OFF
  - 20 min. ON, 40 min. recirculation
  - continuous recirculation

**or choose...**

**Lifestyle MAX Programmable Control #99-LS01**
- **DELUXE** fully featured 5-speed, 4 mode unit
- Fully PROGRAMMABLE allowing you to customize for your specific lifestyle:
  - Built-in interface to furnace
  - Automatic service reminder
  - Automatic control based on outdoor temperature sensing.

**Timers**

**Lifestyle 20/40/60 Minute Timer #99-DET01**
- Initiates high-speed operation for 20, 40 or 60 minutes.

**Lifestyle 20 Minute Timer #99-20M01**
- Initiates high-speed operation for 20 minutes.

[Image of HRV systems with text: 95 MAX, 155 MAX, 155 MAX RX, 155 ECM, 195 ECM, 200 MAX, 200 MAX RX, 195 DCS, 300 DCS]
**Engineering Data**

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

155 MAX & 200 MAX: NEW Counter-flow heat recovery core.

**MOTORS AND BLOWERS**
Each air stream has one centrifugal blower driven by a common PSC motor. 5 speed fan operation.

**FILTERS**
Washable air filters in exhaust and supply air streams.

**MOUNTING - NEW!**
Four threaded inserts at corners of the cabinet designed to accept the “s” hooks and hanging straps supplied with the unit.

**DEFROST - 2 Styles**
Recirculating defrost system or damper defrost.

**CASE**
Twenty gauge prepainted galvanized steel for superior corrosion resistance. Insulated to prevent exterior condensation. Drain connections 2 - 1/2” (12 mm) OD. Door balancing ports.

**CONTROLS & ELECTRONICS**

99-DXPL01 (included)
Lifestyle MAX Digital Control
Can be wall mounted in a central location of the home. Connects to (3 wire) 20 gauge wire (min.) 100’ length.

**Electronic features include:**
- 5 Speed Operation on each mode
- 4 user selectable operational modes: Continuous Ventilation, 20 ON/40 OFF, 20 ON/40 Recirculation, Continuous Recirculation (not available on all models)
- Humidity Control through dehumidistat
- Adjustable Dehumidistat function built into the main wall control
- Built-in Relay for interfacing to furnace

**OPTIONAL EQUIPMENT**

**CONTROLS**

99-LS01
Lifestyle MAX Programmable Control
Contains all the features of the Lifestyle MAX Digital Control with 7/24 programmable ventilation, 4 event feature permits lifestyle programming. Connects to (3 wire) 20 gauge wire (min.) 100’ length.

**TIMERS**

99-DETO1
Lifestyle 20/40/60 Minute Timer - Initiates high speed ventilation for 20, 40, or 60 minutes. Connects to (3 wire) 20 gauge wire (min.) 100’ length.

99-20M01
Lifestyle 20 Minute Timer - Initiates high speed ventilation for 20 minutes. Connects to (3 wire) 20 gauge wire (min.) 100’ length.

**ACCESSORIES**

99-190 Dual Hood - Suitable for 5” or 6” connections

99-185 Weatherhoods - Two - 5” (125 mm) comes with 1/4” (6 mm) mesh screen for 95 MAX.

99-186 Weatherhoods - Two 6” for all other MAX series units.

Many more accessory options available. See Accessories section for details.

**WARRANTY**

Units carry a LIFETIME warranty on the heat recovery core and a 5 year replacement parts warranty.
The RX version of this model is reverse flow. The cold side ducting to the weatherhoods and damper are located on the opposite side of the unit.
155 ECM

Performance (HVI certified)

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 0.1&quot; (25 Pa)</td>
<td>161 (76)</td>
</tr>
<tr>
<td>@ 0.2&quot; (50 Pa)</td>
<td>143 (68)</td>
</tr>
<tr>
<td>@ 0.3&quot; (75 Pa)</td>
<td>128 (61)</td>
</tr>
<tr>
<td>@ 0.4&quot; (100 Pa)</td>
<td>114 (54)</td>
</tr>
<tr>
<td>@ 0.5&quot; (125 Pa)</td>
<td>98 (46)</td>
</tr>
<tr>
<td>@ 0.6&quot; (150 Pa)</td>
<td>78 (37)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery: 79%

Sensible Efficiency:

@ 66 cfm (31 L/s) 32°F (0°C) 78%
* Sensible Efficiency:

@ 66 cfm (31 L/s) 32°F (0°C) 71%

* Sensible Efficiency:

@ 66 cfm (31 L/s) -13°F (-25°C) 64%

VAC @ 60HZ: 120
WATTs / Low speed: 40
WATTs / High speed: 115
Amp rating: 1.4

*Sensible Efficiency: thermal

Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

Weight: 71lbs (32.5Kg)
Dimensions: Inches (mm)

---

195 ECM

Performance (HVI certified)

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 0.1&quot; (25 Pa)</td>
<td>191 (90)</td>
</tr>
<tr>
<td>@ 0.2&quot; (50 Pa)</td>
<td>184 (86)</td>
</tr>
<tr>
<td>@ 0.3&quot; (75 Pa)</td>
<td>177 (83)</td>
</tr>
<tr>
<td>@ 0.4&quot; (100 Pa)</td>
<td>169 (80)</td>
</tr>
<tr>
<td>@ 0.5&quot; (125 Pa)</td>
<td>159 (75)</td>
</tr>
<tr>
<td>@ 0.6&quot; (150 Pa)</td>
<td>152 (71)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery: 88%

Sensible Efficiency:

@ 117 cfm (55 L/s) 32°F (0°C) 85%
* Sensible Efficiency:

@ 117 cfm (55 L/s) 32°F (0°C) 78%

* Sensible Efficiency:

@ 117 cfm (55 L/s) -13°F (-25°C) 69%

VAC @ 60HZ: 120
WATTs / Low speed: 34
WATTs / High speed: 129
Amp rating: 1.4

*Sensible Efficiency: thermal

Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

Weight: 88lbs (40Kg)
Dimensions: Inches (mm)
### MAX SERIES
**HEAT RECOVERY VENTILATORS**

#### 200 MAX / 200 MAX RX

**Performance (HVI certified)**

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1&quot; (25 Pa)</td>
<td>184 (87)</td>
</tr>
<tr>
<td>0.2&quot; (50 Pa)</td>
<td>163 (77)</td>
</tr>
<tr>
<td>0.3&quot; (75 Pa)</td>
<td>146 (69)</td>
</tr>
<tr>
<td>0.4&quot; (100 Pa)</td>
<td>132 (62)</td>
</tr>
<tr>
<td>0.5&quot; (125 Pa)</td>
<td>115 (54)</td>
</tr>
<tr>
<td>0.6&quot; (150 Pa)</td>
<td>92 (43)</td>
</tr>
<tr>
<td>0.7&quot; (175 Pa)</td>
<td>60 (28)</td>
</tr>
</tbody>
</table>

**Max. Temperature Recovery**: 86%

*Sensible Efficiency: thermal

Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

**Weight**: 88 lbs (40 kg)

**Dimensions (mm)**

**NOTE**

The RX version of this model is reverse flow. The cold side ducting to the weatherhoods and damper are located on the opposite side of the unit.

#### 195 DCS

**Performance (HVI certified)**

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1&quot; (25 Pa)</td>
<td>216 (101)</td>
</tr>
<tr>
<td>0.2&quot; (50 Pa)</td>
<td>195 (92)</td>
</tr>
<tr>
<td>0.3&quot; (75 Pa)</td>
<td>181 (85)</td>
</tr>
<tr>
<td>0.4&quot; (100 Pa)</td>
<td>158 (74)</td>
</tr>
<tr>
<td>0.5&quot; (125 Pa)</td>
<td>144 (68)</td>
</tr>
<tr>
<td>0.6&quot; (150 Pa)</td>
<td>125 (59)</td>
</tr>
<tr>
<td>0.7&quot; (175 Pa)</td>
<td>107 (50)</td>
</tr>
</tbody>
</table>

**Max. Temperature Recovery**: 92%

*Sensible Efficiency: thermal

Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

**Weight**: 71 lbs (32.5 kg)

**Dimensions (mm)**
### MAX SERIES
HEAT RECOVERY VENTILATORS

**300 DCS**

#### Performance (HVI certified)

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1” (25 Pa)</td>
<td>232 (110)</td>
</tr>
<tr>
<td>0.2” (50 Pa)</td>
<td>212 (100)</td>
</tr>
<tr>
<td>0.3” (75 Pa)</td>
<td>202 (92)</td>
</tr>
<tr>
<td>0.4” (100 Pa)</td>
<td>183 (86)</td>
</tr>
<tr>
<td>0.5” (125 Pa)</td>
<td>163 (77)</td>
</tr>
<tr>
<td>0.6” (150 Pa)</td>
<td>144 (68)</td>
</tr>
<tr>
<td>0.7” (175 Pa)</td>
<td>123 (58)</td>
</tr>
<tr>
<td>0.8” (200 Pa)</td>
<td>92 (43)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery: 70%

*Sensible Efficiency: thermal

Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

**Weight:** 88lbs (40Kg)

**Dimensions:** Inches (mm)
LIFE BREATH
INDOOR AIR SYSTEMS

RNC SERIES
HEAT RECOVERY VENTILATORS

RNC 95
RNC-5TPD
RNC 120D
RNC 155
RNC 200
RNC 10
RNC 20

Setting a new standard for energy efficient, clean air homes.

Visit us at www.lifebreath.com

Manufacturer reserves the right to change specifications without notice.

AIRIA BRANDS INC.
# RNC SERIES
## Heat Recovery Ventilators

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Airflow cfm (L/s) @ 0 °C (32 °F)</th>
<th>Effectiveness</th>
<th>Performance Highlights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>.1 (25 Pa) .2 (50 Pa) .3 (75 Pa)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RNC 95</td>
<td>Recirculating Defrost</td>
<td>76 (36) 73 (34) 70 (33)</td>
<td>88%</td>
<td>Top ported, compact unit. Ideally suited to narrow installations.</td>
</tr>
<tr>
<td></td>
<td>24.5 x 18.5 x 16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RNC5-TPO</td>
<td>Recirculating Defrost</td>
<td>156 (74) 146 (69) 134 (63)</td>
<td>74%</td>
<td>Top ported, compact unit with door port balancing. Adjustable high speed (3) settings.</td>
</tr>
<tr>
<td></td>
<td>18.75 x 27 x 15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RNC 1200</td>
<td>Recirculating Defrost</td>
<td>142 (64) 137 (61) 131 (60)</td>
<td>66%</td>
<td>Only 9 inches tall. Can be mounted horizontally or vertically for maximum installation flexibility.</td>
</tr>
<tr>
<td></td>
<td>22 x 22.13 x 9.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RNC 155</td>
<td>Recirculating Defrost</td>
<td>144 (68) 134 (60) 125 (56)</td>
<td>82%</td>
<td>Horizontal model, with door port balancing. One of our most popular units.</td>
</tr>
<tr>
<td></td>
<td>19 x 33.62 x 14.75</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RNC 200</td>
<td>Recirculating Defrost</td>
<td>207 (97) 200 (94) 194 (87)</td>
<td>73%</td>
<td>Horizontal model, with door port balancing. Same design as RNC 155 with greater airflow.</td>
</tr>
<tr>
<td></td>
<td>19 x 33.62 x 14.75</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RNC 10</td>
<td>Damper Defrost</td>
<td>177 (83) 164 (77) 158 (73)</td>
<td>74%</td>
<td>Horizontal model with 5 ports and damper defrost. Best value for new construction.</td>
</tr>
<tr>
<td></td>
<td>19 x 33.62 x 14.75</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RNC 20</td>
<td>Damper Defrost</td>
<td>214 (101) 206 (97) 193 (91)</td>
<td>67%</td>
<td>Same design as RNC 10. Ideally suited to larger applications.</td>
</tr>
<tr>
<td></td>
<td>19 x 33.62 x 14.75</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Control Options
- **Lifestyle Dehumidistat #99-DH01**
  - Initiates high speed ventilation when indoor humidity level is above the set point.
  - 2 Speed operation
  - Standby
  - Unit On/Off
  - Dehumidistat

- **Lifestyle RNC Ventilation Control #99-BC01**
  - 4 selectable operational modes*
  - Not available on all models
  - 2 speed operation on each mode
  - Adjustable dehumidistat function
  - Dehumidistat disable

### Timers
- **Lifestyle 20/40/60 Minute Timer #99-DET01**
  - Initiates high speed operation for 20, 40 or 60 minutes

- **Lifestyle 20 Minute Timer #99-20M01**
  - Initiates high speed operation for 20 minutes

### Accessories
- Weatherhoods - 5", 6" or 7"
- Tech Grilles - 4", 5", 6" or 8"
- Kitchen Grille - 6" x 10"
Engineering Data

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

MOTORS AND BLOWERS
Each air stream has one centrifugal blower driven by a common PSC motor. 2-speed fan operation.
RNC5-TPD and RNC 120 have two motors; one in each airstream. RNC5-TPD has three selectable high speeds

FILTERS
Washable air filters in exhaust and supply air streams.

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

DEFROST - 2 Styles
Recirculating defrost system or damper defrost.

CASE
Twenty gauge prepainted galvanized steel for superior corrosion resistance. Insulated to prevent exterior condensation. Drain connections 2 - 1/2” (12 mm) OD.

CONTROLS & ELECTRONICS
• Built-in Relay for Interfacing to furnace
• A standard ON/OFF switch can be added to provide Low/High Ventilation or ON/OFF functionality in order to meet building standards.
• Optional controls can be installed at the time of the installation or at a later date to upgrade the basic features of the ventilation system.

OPTIONAL EQUIPMENT

CONTROLS
99-DX01 Lifestyle RNC Digital Control
• 2-Speed operation on each mode
• 4 user selectable operational modes: Continuous Ventilation, 20 ON/40 OFF, 20 ON/40 Recirculation, Continuous Recirculation
• Adjustable Dehumidistat function built into the main wall control
• Connect to (3 wire) 20 gauge wire (min.) 100’ length.

99-BC01 Lifestyle RNC Ventilation Control
• 2-Speed Fan setting (Low/High)
• Standby
• Dehumidistat
• Connect to (3 wire) 20 gauge wire (min.) 100’ length.

TIMERS
99-DET01 Lifestyle 20/40/60 Minute Timer - Initiates high speed ventilation for 20, 40, or 60 minutes, (3 wire) 20 gauge wire (min.) 100’ length.
99-20M01 Lifestyle 20 Minute Timer - Initiates high speed ventilation for 20 minutes, (3 wire) 20 gauge wire (min.) 100’ length.

ACCESSORIES
99-DH-01 Lifestyle Dehumidistat - Initiates high speed ventilation when the indoor humidity level is above the set point. (3 wire) 20 gauge wire (min.) 100’ length.
99-190 Dual Hood - Suitable for 5” or 6” connections
99-185 Weatherhoods - Two - 5” (125 mm) c/w 1/4” (6 mm) mesh screen
99-186 Weatherhoods - Two - 6” (150 mm) c/w 1/4” (6mm) mesh screen.

Many more accessory options available. See Accessories section for details.

WARRANTY

Units carry a LIFETIME warranty on the heat recovery core and a 5 year replacement parts warranty.

All units conform to CSA and UL Standards.
RNC SERIES
HEAT RECOVERY VENTILATORS

RNC 95

**Performance** (HVI certified)
Net supply air flow in cfm (L/s) against external static pressure

<table>
<thead>
<tr>
<th>E.S.P. (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1&quot; (25 Pa)</td>
<td>76 (36)</td>
</tr>
<tr>
<td>0.2&quot; (50 Pa)</td>
<td>73 (34)</td>
</tr>
<tr>
<td>0.3&quot; (75 Pa)</td>
<td>70 (33)</td>
</tr>
<tr>
<td>0.4&quot; (100 Pa)</td>
<td>66 (31)</td>
</tr>
<tr>
<td>0.5&quot; (125 Pa)</td>
<td>60 (29)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery 88%

*Sensible Efficiency: thermal

Weight: 61 lbs (28Kg)
Dimensions: Inches (mm)

RNC 120D

**Performance** (HVI certified)
Net supply air flow in cfm (L/s) against external static pressure

<table>
<thead>
<tr>
<th>E.S.P. (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1&quot; (25 Pa)</td>
<td>125 (59)</td>
</tr>
<tr>
<td>0.2&quot; (50 Pa)</td>
<td>120 (56)</td>
</tr>
<tr>
<td>0.3&quot; (75 Pa)</td>
<td>114 (54)</td>
</tr>
<tr>
<td>0.4&quot; (100 Pa)</td>
<td>109 (51)</td>
</tr>
<tr>
<td>0.5&quot; (125 Pa)</td>
<td>106 (50)</td>
</tr>
<tr>
<td>0.6&quot; (150 Pa)</td>
<td>99 (47)</td>
</tr>
<tr>
<td>0.7&quot; (175 Pa)</td>
<td>94 (44)</td>
</tr>
<tr>
<td>0.8&quot; (200 Pa)</td>
<td>89 (42)</td>
</tr>
</tbody>
</table>

Sensible Effectiveness
- 65 cfm (33 L/s) 32°F (0°C) 72%
- *Sensible Efficiency: thermal

Weight: 61 lbs (28Kg)
Dimensions: Inches (mm)
**RNC5-TPD**

**Performance (HVI certified)**
Net supply air flow in cfm (L/s) against external static pressure

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 0.1&quot; (25 Pa)</td>
<td>156 (74)</td>
</tr>
<tr>
<td>@ 0.2&quot; (50 Pa)</td>
<td>146 (69)</td>
</tr>
<tr>
<td>@ 0.3&quot; (75 Pa)</td>
<td>134 (63)</td>
</tr>
<tr>
<td>@ 0.4&quot; (100 Pa)</td>
<td>124 (59)</td>
</tr>
<tr>
<td>@ 0.5&quot; (125 Pa)</td>
<td>115 (54)</td>
</tr>
<tr>
<td>@ 0.6&quot; (150 Pa)</td>
<td>104 (49)</td>
</tr>
<tr>
<td>@ 0.7&quot; (175 Pa)</td>
<td>95 (45)</td>
</tr>
<tr>
<td>@ 0.8&quot; (200 Pa)</td>
<td>85 (40)</td>
</tr>
<tr>
<td>@ 0.9&quot; (225 Pa)</td>
<td>69 (33)</td>
</tr>
<tr>
<td>@ 1.0&quot; (250 Pa)</td>
<td>58 (27)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery: 78%

*Sensible Efficiency: thermal

Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

---

**RNC5-TPF**

**Performance (HVI certified)**
Net supply air flow in cfm (L/s) against external static pressure

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 0.1&quot; (25 Pa)</td>
<td>174 (82)</td>
</tr>
<tr>
<td>@ 0.2&quot; (50 Pa)</td>
<td>165 (77)</td>
</tr>
<tr>
<td>@ 0.3&quot; (75 Pa)</td>
<td>154 (73)</td>
</tr>
<tr>
<td>@ 0.4&quot; (100 Pa)</td>
<td>143 (67)</td>
</tr>
<tr>
<td>@ 0.5&quot; (125 Pa)</td>
<td>132 (62)</td>
</tr>
<tr>
<td>@ 0.6&quot; (150 Pa)</td>
<td>120 (56)</td>
</tr>
<tr>
<td>@ 0.7&quot; (175 Pa)</td>
<td>107 (51)</td>
</tr>
<tr>
<td>@ 0.8&quot; (200 Pa)</td>
<td>95 (45)</td>
</tr>
<tr>
<td>@ 0.9&quot; (225 Pa)</td>
<td>83 (39)</td>
</tr>
<tr>
<td>@ 1.0&quot; (250 Pa)</td>
<td>71 (33)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery: 79%

*Sensible Efficiency: thermal

Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

---

**Weight:** 51lbs (23Kg)
**Dimensions:** Inches (mm)

---

**Weight:** 43lbs (19.5Kg)
**Dimensions:** Inches (mm)
# MAX SERIES
## HEAT RECOVERY VENTILATORS

### Residential

**RNC 155**

<table>
<thead>
<tr>
<th>Performance (HVI certified)</th>
<th>Net supply air flow in cfm (L/s) against external static pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>E.S.P.</strong> (external static pressure)</td>
<td>[cfm (L/s)]</td>
</tr>
<tr>
<td>@ 0.1&quot; (25 Pa)</td>
<td>144 (68)</td>
</tr>
<tr>
<td>@ 0.2&quot; (50 Pa)</td>
<td>134 (63)</td>
</tr>
<tr>
<td>@ 0.3&quot; (75 Pa)</td>
<td>125 (59)</td>
</tr>
<tr>
<td>@ 0.4&quot; (100 Pa)</td>
<td>113 (53)</td>
</tr>
<tr>
<td>@ 0.5&quot; (125 Pa)</td>
<td>92 (43)</td>
</tr>
<tr>
<td>@ 0.6&quot; (150 Pa)</td>
<td>73 (34)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery 78%

<table>
<thead>
<tr>
<th>Sensible Effectiveness</th>
<th>65 cfm (31 L/s)</th>
<th>32°F (0°C)</th>
<th>73%</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Sensible Efficiency</td>
<td>65 cfm (31 L/s)</td>
<td>32°F (0°C)</td>
<td>64%</td>
</tr>
<tr>
<td>*Sensible Efficiency</td>
<td>68 cfm (32 L/s)</td>
<td>-13°F (-25°C)</td>
<td>66%</td>
</tr>
</tbody>
</table>

| VAC @ 60HZ | 120 |
| WATTS / Low speed | 49 |
| WATTS / High speed | 120 |
| Amp rating | 1.4 |

*Sensible Efficiency: thermal  **Latent Efficiency – moisture \nEffectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

| Weight: 71lbs (32.5Kg) | Dimensions: Inches (mm) |

### RNC 200

<table>
<thead>
<tr>
<th>Performance (HVI certified)</th>
<th>Net supply air flow in cfm (L/s) against external static pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>E.S.P.</strong> (external static pressure)</td>
<td>[cfm (L/s)]</td>
</tr>
<tr>
<td>@ 0.1&quot; (25 Pa)</td>
<td>207 (97)</td>
</tr>
<tr>
<td>@ 0.2&quot; (50 Pa)</td>
<td>200 (94)</td>
</tr>
<tr>
<td>@ 0.3&quot; (75 Pa)</td>
<td>184 (87)</td>
</tr>
<tr>
<td>@ 0.4&quot; (100 Pa)</td>
<td>171 (80)</td>
</tr>
<tr>
<td>@ 0.5&quot; (125 Pa)</td>
<td>152 (71)</td>
</tr>
<tr>
<td>@ 0.6&quot; (150 Pa)</td>
<td>130 (61)</td>
</tr>
<tr>
<td>@ 0.7&quot; (175 Pa)</td>
<td>116 (55)</td>
</tr>
<tr>
<td>@ 0.8&quot; (200 Pa)</td>
<td>86 (40)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery 74%

<table>
<thead>
<tr>
<th>Sensible Effectiveness</th>
<th>66 cfm (31 L/s)</th>
<th>32°F (0°C)</th>
<th>74%</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Sensible Efficiency</td>
<td>66 cfm (31 L/s)</td>
<td>32°F (0°C)</td>
<td>64%</td>
</tr>
<tr>
<td>*Sensible Efficiency</td>
<td>109 cfm (51 L/s)</td>
<td>-13°F (-25°C)</td>
<td>62%</td>
</tr>
</tbody>
</table>

| VAC @ 60HZ | 120 |
| WATTS / Low speed | 87 |
| WATTS / High speed | 164 |
| Amp rating | 1.4 |

*Sensible Efficiency: thermal  **Latent Efficiency – moisture \nEffectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

| Weight: 71lbs (32.5Kg) | Dimensions: Inches (mm) |
RNC SERIES
HEAT RECOVERY VENTILATORS

RNC 10

Performance (HVI certified)
Net supply air flow in cfm (L/s) against external static pressure

<table>
<thead>
<tr>
<th>E.S.P. (external static pressure)</th>
<th>[cfm (L/s)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 0.1' (25 Pa)</td>
<td>177 (83)</td>
</tr>
<tr>
<td>@ 0.2' (50 Pa)</td>
<td>164 (77)</td>
</tr>
<tr>
<td>@ 0.3' (75 Pa)</td>
<td>156 (73)</td>
</tr>
<tr>
<td>@ 0.4' (100 Pa)</td>
<td>143 (67)</td>
</tr>
<tr>
<td>@ 0.5' (125 Pa)</td>
<td>123 (58)</td>
</tr>
<tr>
<td>@ 0.6' (150 Pa)</td>
<td>100 (47)</td>
</tr>
<tr>
<td>@ 0.7' (175 Pa)</td>
<td>38 (18)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery 78%

*Sensible Efficiency: thermal
Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

<table>
<thead>
<tr>
<th>VAC @ 60Hz</th>
<th>WATTS / Low speed</th>
<th>WATTS / High speed</th>
<th>Amp rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>63</td>
<td>173</td>
<td>1.4</td>
</tr>
</tbody>
</table>

Weight: 63lbs (28.7Kg)
Dimensions: Inches (mm)

RNC 20

Performance (HVI certified)
Net supply air flow in cfm (L/s) against external static pressure

<table>
<thead>
<tr>
<th>E.S.P. (external static pressure)</th>
<th>[cfm (L/s)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 0.1' (25 Pa)</td>
<td>214 (101)</td>
</tr>
<tr>
<td>@ 0.2' (50 Pa)</td>
<td>206 (97)</td>
</tr>
<tr>
<td>@ 0.3' (75 Pa)</td>
<td>193 (91)</td>
</tr>
<tr>
<td>@ 0.4' (100 Pa)</td>
<td>184 (87)</td>
</tr>
<tr>
<td>@ 0.5' (125 Pa)</td>
<td>170 (80)</td>
</tr>
<tr>
<td>@ 0.6' (150 Pa)</td>
<td>155 (73)</td>
</tr>
<tr>
<td>@ 0.7' (175 Pa)</td>
<td>137 (65)</td>
</tr>
</tbody>
</table>

Max. Temperature Recovery 69%

*Sensible Efficiency: thermal
Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

<table>
<thead>
<tr>
<th>VAC @ 60Hz</th>
<th>WATTS / Low speed</th>
<th>WATTS / High speed</th>
<th>Amp rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>70</td>
<td>182</td>
<td>1.4</td>
</tr>
</tbody>
</table>

Weight: 63lbs (28.7Kg)
Dimensions: Inches (mm)
Improve the Indoor Air Quality of your home or business

- Reduces energy load on air conditioning and heating systems
- Uses membrane technology to transfer moister and energy
- Counter-flow design for maximum recovery of energy
- Proprietary non-cellulose core material will not deteriorate with moisture
- Patented Water Washable Core
- Maintenance-free energy efficient motors
- Installs easily in new or existing homes and buildings

Visit us at www.lifebreath.com

Manufacturer reserves the right to change specifications without notice.
Why you need a Lifebreath ERV

- Nearly 90% of the energy used to cool your home or business is required to remove humidity. With a Lifebreath ERV, humidity is removed from the air before it is exchanged with stale air from your home or business – greatly reducing your cooling costs.
- The Lifebreath ERV core reduces humidity by transferring water molecules from one air stream to the other.
- Utilizes a non-cellulose membrane that won’t deteriorate with exposure to moisture.

Exhausting stale air and introducing fresh air are critical to improving indoor air quality.

- ERV’s are recommended in regions where high outdoor humidity is cause for operating air conditioning/dehumidification systems more frequently.

Visit us at www.lifebreath.com

Manufacturer reserves the right to change specifications without notice.
**Engineering Data**

**CORES**
All units incorporate AHRI certified energy recovery core(s) with multiple non-cellulosic fixed plates stacked and bonded together, designed to maximize sensible and latent energy transfer between airstreams. Membrane media will not deteriorate due to moisture and are designed so as not to support microbial growth. Core warranty is 10 years.

*Model 500ERV incorporates cores as described above plus aluminum sensible only cores in its design*

**MOTORS & BLOWERS**
120ERV: 2 - (1 per airstream) 120v PSC maintenance free external rotor motors with backward incline impellers. Motors incorporate permanently lubricated sealed ball bearings and thermal overload protection for long-life and smooth operation. 2 speed operation with high speed selectable

150/150D/200 ERV: 1 - 120v PSC motor with thermal overload protection, double shafted with 2 centrifugal blowers (1 per airstream), 5 speed operation

500 ERV: 2 – 120v PSC motors with thermal overload protection, double shafted with 4 centrifugal blowers (2 per airstream), 5 speed operation

700 ERV: 2 – 120v PSC motors with thermal overload protection, single shaft with 2 centrifugal blowers (1 per airstream), 3 speed operation

1200 ERV: 2 – 120v PSC motors with thermal overload protection, double shafted with 4 centrifugal blowers (2 per airstream) 3 speed operation

**FILTERS**
Washable air filters in exhaust and supply air streams.

**MOUNTING - NEW!**
120/150/200 ERV: Four threaded inserts at corners of the cabinet designed to accept the “s” hooks and hanging straps supplied with the unit.

500 / 700 / 1200 ERV: Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not included).

**Cabinet**
All models use 20 gauge pre-painted galvanized steel for superior corrosion resistance and clean look and Insulated with foil faced insulation (except 120 ERV) where needed so as to prevent condensation. Model 120ERV uses the same metal as above combined with injection molded EPS for insulation

**Frost prevention (If Applicable)**
Model 150D ERV and 500 ERV come with a damper mechanism, temperature sensor and drain pan enabling them to be installed in regions that experience more severe winter conditions than where ERVs without frost prevention would be installed.

Model 120 ERV comes with a unique non-damper frost prevention strategy which does not require any drainage as water vapor is transferred between airstreams without condensing.

Except as noted above all other ERV models should typically not be installed in regions where winter temperature fall below 23F (-5C) for several-continuous days combined with high indoor humidity without incorporating a frost prevention strategy. Frost prevention devices (except the 150D) will be provided by others if required by design/application.

**Controls**
Models 700/1200 have contacts for controls located in the electrical box accessed through the cabinet

120/150D/200/500 ERV include a furnace blower interlock which allows a furnace or air handler blower to energize on call for ventilation, should the installation type chosen require such a connection.

150/200 include a “ERV Ventilation Control” allowing for turning the unit on/off and resetting the service reminder light found on the control itself.

150D and 500 ERV include a Lifestyle Digital control allowing for accessing 5 speeds operation, on/off, cycle timing, dehumidistat, and from a remote location

---

**WARRANTY**

Units carry a 5 year warranty on the energy recovery core and a 5 year replacement parts warranty.

All units conform to CSA and UL Standards.
120 ERV

**Performance** (HVI Certified)
Net supply air flow in cfm (L/s) against external static pressure

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1&quot; (25 Pa)</td>
<td>98 (46)</td>
</tr>
<tr>
<td>0.2&quot; (50 Pa)</td>
<td>93 (44)</td>
</tr>
<tr>
<td>0.3&quot; (75 Pa)</td>
<td>91 (43)</td>
</tr>
<tr>
<td>0.4&quot; (100 Pa)</td>
<td>88 (42)</td>
</tr>
<tr>
<td>0.5&quot; (125 Pa)</td>
<td>86 (40)</td>
</tr>
<tr>
<td>0.6&quot; (150 Pa)</td>
<td>82 (39)</td>
</tr>
<tr>
<td>0.7&quot; (175 Pa)</td>
<td>79 (37)</td>
</tr>
<tr>
<td>0.8&quot; (200 Pa)</td>
<td>74 (35)</td>
</tr>
</tbody>
</table>

*Sensible Effectiveness*
@ 64 cfm (30 L/s) 32°F (0°C) 71%
*Sensible Efficiency*
@ 64 cfm (30 L/s) 32°F (0°C) 60%
Total Efficiency
@ 64 cfm (30 L/s) 95°F (35°C) 45%

**VAC @ 60 Hz**
WATTS / Low speed 63
WATTS / High speed 150
Amp rating 1.5

*Sensible Efficiency: thermal  **Latent Efficiency: moisture
Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

**Weight:** 63lbs (28.7Kg)
**Dimensions:** Inches (mm)

---

150 ERV

**Performance** (HVI Certified)
Net supply air flow in cfm (L/s) against external static pressure

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1&quot; (25 Pa)</td>
<td>151 (71)</td>
</tr>
<tr>
<td>0.2&quot; (50 Pa)</td>
<td>141 (67)</td>
</tr>
<tr>
<td>0.3&quot; (75 Pa)</td>
<td>132 (62)</td>
</tr>
<tr>
<td>0.4&quot; (100 Pa)</td>
<td>124 (59)</td>
</tr>
<tr>
<td>0.5&quot; (125 Pa)</td>
<td>107 (50)</td>
</tr>
<tr>
<td>0.6&quot; (150 Pa)</td>
<td>98 (46)</td>
</tr>
<tr>
<td>0.7&quot; (175 Pa)</td>
<td>81 (38)</td>
</tr>
<tr>
<td>0.8&quot; (200 Pa)</td>
<td>60 (28)</td>
</tr>
</tbody>
</table>

*Sensible Effectiveness*
@ 64 cfm (30 L/s) 32°F (0°C) 81%
*Sensible Efficiency*
@ 64 cfm (30 L/s) 32°F (0°C) 69%
Total Efficiency
@ 64 cfm (30 L/s) 95°F (35°C) 47%

**VAC @ 60 Hz**
WATTS / Low speed 34
WATTS / High speed 93
Amp rating 1.4

*Sensible Efficiency: thermal  **Latent Efficiency: moisture
Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

---

*Note: All duct connections are 6" (150mm)*

**Dimensions:** Inches (mm)
# ERV SERIES

**ENERGY RECOVERY VENTILATORS**

## 200 ERV

### Performance (HV1 Certified)

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 0.1&quot; (25 Pa)</td>
<td>180 (85)</td>
</tr>
<tr>
<td>@ 0.2&quot; (50 Pa)</td>
<td>169 (80)</td>
</tr>
<tr>
<td>@ 0.3&quot; (75 Pa)</td>
<td>157 (74)</td>
</tr>
<tr>
<td>@ 0.4&quot; (100 Pa)</td>
<td>146 (68)</td>
</tr>
<tr>
<td>@ 0.5&quot; (125 Pa)</td>
<td>132 (62)</td>
</tr>
<tr>
<td>@ 0.6&quot; (150 Pa)</td>
<td>118 (56)</td>
</tr>
<tr>
<td>@ 0.7&quot; (175 Pa)</td>
<td>101 (48)</td>
</tr>
</tbody>
</table>

- Sensible Effectiveness: 76%
- *Sensible Efficiency: 69%
- Total Efficiency: 50%

### Specifications
- **Vac at 60Hz**: 120 WATTS
- **Low speed**: 68 WATTS
- **High speed**: 97 WATTS
- **Amp rating**: 1.4

### Notes
- Sensible Efficiency: thermal
- Latent Efficiency: moisture

Effectiveness based on temperature differential between the 2 airstreams. Efficiency takes into account all power inputs.

### Dimensions
- **Weight**: 63lbs (28.7Kg)
- **Dimensions**: Inches (mm)

### Diagrams
- 200 ERV performance chart
- 200 ERV installation details

## 500 ERV

### Performance (HV1 Certified)

<table>
<thead>
<tr>
<th>E.S.P (external static pressure)</th>
<th>cfm (L/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 0.1&quot; (25 Pa)</td>
<td>415 (195)</td>
</tr>
<tr>
<td>@ 0.2&quot; (50 Pa)</td>
<td>392 (185)</td>
</tr>
<tr>
<td>@ 0.3&quot; (75 Pa)</td>
<td>371 (175)</td>
</tr>
<tr>
<td>@ 0.4&quot; (100 Pa)</td>
<td>344 (162)</td>
</tr>
<tr>
<td>@ 0.5&quot; (125 Pa)</td>
<td>315 (149)</td>
</tr>
<tr>
<td>@ 0.6&quot; (150 Pa)</td>
<td>277 (131)</td>
</tr>
</tbody>
</table>

### Specifications
- **Vac at 60Hz**: 120 WATTS
- **Low speed**: 187 WATTS
- **High speed**: 610 WATTS
- **Amp rating**: 2.9

### Notes
- **Weight**: 178lbs (81Kg)

### Dimensions
- **Dimensions**: Inches (mm)

### Diagrams
- 500 ERV performance chart
- 500 ERV installation details

---

*NOTE: Exhaust Relative Humidity (RH) at 60%*
700 ERV

PERFORMANCE
AIRFLOWS (Each Air Stream)

TOTAL EFFECTIVENESS

NOTE: Exhaust Relative Humidity (RH) at 40%

ERV SERIES
ENERGY RECOVERY VENTILATORS

Weight: 178lbs (81Kg)
Dimensions: Inches (mm)

1200 ERV

PERFORMANCE
AIRFLOWS (Each Air Stream)

TOTAL EFFECTIVENESS

NOTE: Exhaust Relative Humidity (RH) at 40%

ERV SERIES
ENERGY RECOVERY VENTILATORS

Weight: 191lbs (87Kg)
Dimensions: Inches (mm)
• Commercial Office Area
• Health Clubs & Spas
• Schools
• Portable Classrooms
• Day Care Centers
• Restaurants
• Night Clubs
• Beauty/Nail Salons
• Swimming Pool Enclosures
• Bingo Halls
<table>
<thead>
<tr>
<th>Model Description</th>
<th>Airflow cfm (L/s)</th>
<th>Effectiveness @ 0 °C</th>
<th>H x W x D (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>.1 (25 Pa)</td>
<td>.2 (50 Pa)</td>
<td>.3 (75 Pa)</td>
</tr>
<tr>
<td>5000CS-REV</td>
<td>488</td>
<td>481</td>
<td>440</td>
</tr>
<tr>
<td></td>
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<td>(614)</td>
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**Manufacturers reserves the right to change specifications without notice.**

Setting a new standard for energy efficient, clean air homes

Visit us at www.lifebreath.com

98-COMM (10-10)
Engineering Data

**CORES**
Modular (4 section) patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

**MOTORS**
Two PSC, 5 speed double shafted, 120 VAC, 3.1 Amps each (6.2 total on high speed). HP – 1/3, 1620 RPM. Watts – total on high speed – 610.

**FILTERS**
Washable air filters in exhaust and supply air streams.

**BLOWERS**
Centrifugal type rated at 530 cfm (250 L/s) free air delivery. Each air stream has two centrifugal blowers driven by two PSC motors.

**CONNECTION DUCT SIZES**
Four – 14” x 8” (356mm x 200mm)

**MOUNTING**
Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not included).

**CASE**
20 gauge pre-painted galvanized steel for superior corrosion resistance. Insulated with foil faced insulation duct liner where required to prevent exterior condensation. Drain connection, One – 1/2” (12mm) O.D.

**DEFROST**
Supply bypass damper routes indoor air to defrost cores.

**CONTROLS & ELECTRONICS**
The Lifestyle MAX Digital Control (99-DXPL01 included) can be wall mounted in a central location. Connects to (3 wire) 20 gauge wire (min.) 100’ length. Features include:
- 5 speed operation on each mode
- 2 user selectable operational modes:
  - Continuous ventilation, 20 ON / 40 OFF
  - Humidity Control through dehumidistat
  - Adjust. Dehumidistat function built into main wall control
  - Built-in relay for interfacing to furnace

**OPTIONS**
99-DETO1 Digital Electronic Timer – 20/40/60 min
99-LS01 Lifestyle MAX Programmable Control

---

**WARRANTY**
2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.

---

**500 DCS / 500 DCS-REV**

**PERFORMANCE**
Net supply airflow in cfm (L/s) against external static pressure

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<th>E.S.P.</th>
<th>cfm</th>
<th>L/s</th>
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<td>(229)</td>
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<td>@ 0.2” (50 Pa)</td>
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<td>@ 0.3” (75 Pa)</td>
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<td>@ 0.4” (100 Pa)</td>
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<td>(205)</td>
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<tr>
<td>@ 0.5” (125 Pa)</td>
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<td>(174)</td>
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<tr>
<td>@ 0.6” (125 Pa)</td>
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</table>

**VAC @ 60HZ**
120

**WATTs / Low speed**
187

**WATTs / High speed**
610

**Amp rating**
2.9

**AIRFLOWS (Each Air Stream)**

**TEMPERATURE EFFECTIVENESS**

**Weight:** 178lbs (81Kg)
**Dimensions:** Inches (mm) (500 DCS-REV Shown)

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**ISO 9001 REGISTERED**

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**25**
Engineering Data

CORES
Modular (6 section) patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS
Two PSC, 3 speed double shafted, 120 VAC, 3.95 Amps each (7.9 total on high speed). HP – 1/4, 1625 RPM. Watts – total on high speed – 848.

FILTERS
Washable air filters in exhaust and supply air streams.

BLOWERS
Centrifugal type rated at 950 cfm (448 L/s) free air delivery. Each air stream has one double shafted motor driving a centrifugal blower.

CONNECTION DUCT SIZES
Three – 20” x 8” (508mm x 200mm). Stale air intake – 26” x 8” (660mm x 200mm). Model 850DD – additional 20” x 8” defrost port.

MOUNTING
Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not included).

CASE
20 gauge pre-painted galvanized steel for superior corrosion resistance. Insulated with foil faced insulation duct liner where required to prevent exterior condensation. Drain connections, two – 1/2” (12mm) O.D.

DEFROST
850 FD: Interrupts supply air while exhaust air defrosts core.
850 DD: Supply bypass routes indoor air to defrost core.

(CONTROLS & ELECTRONICS

OPTIONS New
99-DETO1 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
99-500 3 Speed Control

WARRANTY
2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.
Engineering Data

CORES
Modular (2 section) patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS
Two PSC, 3 speed single shafted, 120 VAC, 2.8 Amps each (5.6 total on high speed). HP – 1/5, 1625 RPM. Watts – total on high speed – 648.

FILTERS
Washable air filters in exhaust and supply air streams.

BLOWERS
Centrifugal type rated at 700 cfm (329 L/s) free air delivery. Each air stream has one single shafted motor driving a centrifugal blower.

CONNECTION DUCT SIZES
Four – 14” x 8” (356mm x 200mm)

MOUNTING
Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not included).

CASE
20 gauge pre-painted galvanized steel for superior corrosion resistance. Insulated with foil faced insulation duct liner where required to prevent exterior condensation. Drain connections, two – 1/2” (12mm) O.D.

DEFROST
700 FD: Interrupts supply air while exhaust air defrosts core.
700 DD: Supply bypass routes indoor air to defrost core.

CONTROLS & ELECTRONICS

OPTIONS
99-DETO1 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
99-500 3 Speed Control

WARRANTY
2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.
**Engineering Data**

**CORES**
Modular (2 section) patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

**MOTORS**
Two PSC, 3 speed single shafted, 120 VAC, 4.5 Amps each (9 total on high speed). HP – 1/4, 1450 RPM. Watts – total on high speed – 1032.

**FILTERS**
Washable air filters in exhaust and supply air streams.

**BLOWERS**
Centrifugal type rated at 700 cfm (329 L/s) @ .5 in w.c. Each air stream has one single shafted motor driving a centrifugal blower.

**CONNECTION DUCT SIZES**
Four – 14” x 8” (356mm x 200mm)

**MOUNTING**
Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not included).

**CASE**
20 gauge pre-painted galvanized steel for superior corrosion resistance. Insulated with foil faced insulation duct liner where required to prevent exterior condensation. Drain connections, two – 1/2” (12mm) O.D.

**DEFROST**
**700 FD PLUS:** Interrupts supply air while exhaust air defrosts core.
**700 DD PLUS:** Supply bypass routes indoor air to defrost core.

**CONTROLS & ELECTRONICS**

**OPTIONS**
99-DETO1 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
99-500 3 Speed Control

**WARRANTY**
2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.
**Engineering Data**

**CORES**
Modular (3 section) patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

**MOTORS**
Two PSC, 3 speed double shafted, 120 VAC, 4 Amps each (8.1 total on high speed). HP – 1/4, 1625 RPM. Watts – total on high speed – 972.

**FILTERS**
Washable air filters in exhaust and supply air streams.

**BLOWERS**
Centrifugal type rated at 1200 cfm (566 L/s) @ .5 in w.c. Each air stream has one double shafted motor driving a centrifugal blower.

**CONNECTION DUCT SIZES**
Four – 20” x 8” (508mm x 200mm)

**MOUNTING**
Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not included).

**CASE**
20 gauge pre-painted galvanized steel for superior corrosion resistance. Insulated with foil faced insulation duct liner where required to prevent exterior condensation. Drain connections, two – 1/2” (12mm) O.D.

**DEFROST**
1200 FD: Interrupts supply air while exhaust air defrosts core
1200 DD: Supply bypass routes indoor air to defrost core.

**CONTROLS & ELECTRONICS**

**OPTIONS**
99-DETO1 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
99-500 3 Speed Control

**WARRANTY**
2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.
Engineering Data

CORES
Modular (3 section) patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS
Two PSC, 3 speed double shafted, 120 VAC, 9.4 Amps each (18.8 total on high speed).
HP – 1/2, 1625 RPM. Watts – total on high speed – 2256.

FILTERS
Washable air filters in exhaust and supply air streams.

BLOWERS
Centrifugal type rated at 1200 cfm (566 L/s) @ .5 in w.c.
Each air stream has one double shafted motor driving a centrifugal blower.

CONNECTION DUCT SIZES
Four – 20" x 8" (508mm x 200mm)

MOUNTING
Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not included).

CASE
20 gauge pre-painted galvanized steel for superior corrosion resistance. Insulated with foil faced insulation duct liner where required to prevent exterior condensation. Drain connections, two – 1/2" (12mm) O.D.

DEFROST
1200 FD PLUS: Interrupts supply air while exhaust air defrosts core.
1200 DD PLUS: Supply bypass routes indoor air to defrost core.

CONTROLS & ELECTRONICS
Optional remote speed control.

OPTIONS
99-DETO1 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
99-500 3 Speed Control

WARRANTY
2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.
Engineering Data
1500 IFD / 1500 EFD

AIRFLOW
1500 cfm (705 L/s) at 1.0” wg ESP.

PERFORMANCE
65% effective at 1500 cfm (705 L/s).

CORES
Six patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS
Two single shaft ECM variable speed, 208/240V, 9.1 Amps, 1 ph, 1 hp, (18.2 amps total).

BLOWERS
Two direct drive centrifugal blowers, one per airstream.

FILTERS
Two – 20” x 16” x 2” (508mm x 406mm x 50 mm) pleated filters in each airstream. MERV 6.

CONNECTION DUCT SIZES
1500 IFD: Four – 18” x 18” (457mm x 457mm).
1500 EFD: Two 19” x 16” (482mm x 406mm) to and from building, under cabinet. Two 18” x 17” (457mm x 431mm) hoods included on side of cabinet, with washable screens.

CABINET
20 gauge powder-coated galvanized steel 1” (25mm) thick. Elastomeric insulation.

DEFROST
Factory set defrost time. Supply motor is shut off while exhaust air defrosts core.

DRAIN
Two powder coated steel drain pans with 1/2” (12mm) O.D. drain connections.

MOUNTING
Rooftop mounted on optional roof curb. (Part No. 53-1500)

CONTROLS & FUNCTION
Integrated microprocessor circuit board. Three independently adjustable motor speeds.

OPTIONS
99-DETO1 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
99-500 3 Speed Control

WARRANTY
2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.

Engineering Data
2000 IFD / 2000 EFD

AIRFLOW
2000 cfm (940 L/s) at 1.0” wg ESP.

PERFORMANCE
65% effective at 2000 cfm (940 L/s).

CORES
Eight patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS
Two PSC. 2 hp, 1 ph, single speed, single shaft, 208/240VAC, 9.0 Amps (18 total). Optional 460 V, 570 V, 3 phase

BLOWERS
Two belt drive centrifugal blowers with adjustable pulleys, one per airstream.

FILTERS
Two – 16” x 25” x 2” (406mm x 635mm x 50 mm) pleated filters in each airstream.

CONNECTION DUCT SIZES
2000 IFD: Four – 18” x 22” (457mm x 558mm).
2000 EFD: Two 20” x 19” (508mm x 482mm) hoods included with washable screens. Two 25” x 16” (635mm x 406mm) connections to and from building, under cabinet.

CABINET
20 gauge powder-coated galvanized steel exterior for superior corrosion resistance. Unit includes metal lined sides and roof panels with 2” fiberglass insulation (R8) between linings.

DEFROST
Factory set defrost time. Supply motor is shut off while exhaust air defrosts core.

DRAIN
Two powder coated galvanized steel drain pans with 1/2” (12mm) O.D. drain connections.

MOUNTING
2000 IFD: Unit to be set on support brackets hung by threaded rod type apparatus (brackets / rods not included).

CONTROLS & FUNCTION
Integrated microprocessor circuit board.

OPTIONS
99-DETO1 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
COMMERCIAL HEAT RECOVERY VENTILATORS

1500 IFD / 1500 EFD

- Dimensions 1500 IFD:
  - Weight: 480lbs (218Kg)
  - Dimensions 1500 EFD:
  - Weight: 480lbs (218Kg)

2000 IFD / 2000 EFD

- Dimensions 2000 IFD:
  - Weight: 750lbs (340Kg)
  - Dimensions 2000 EFD:
  - Weight: 750lbs (340Kg)
Engineering Data

AIRFLOW
2500 cfm (1175 L/s) at 1.0" wg ESP.

PERFORMANCE
70% effective at 2500 cfm (1172 L/s).

CORES
Single aluminum sensible heat recovery core. Plate-to-plate type. Slides out of either side of cabinet for service.

MOTORS
Two single shaft PSC, 208/230V, 5.1 Amps, 1hp, 1ph, 3 speed motor (2 speeds selectable)

BLOWERS
Two direct-drive centrifugal blowers, one per air stream.

FILTERS
Two – 18” x 24” (457mm x 610mm) 4-inch pleated filters in each air stream.

CONNECTION DUCT SIZES
Four – 24” x 16” (610mm x 406mm).

CABINET
20 gauge powder-coated galvanized steel exterior for superior corrosion resistance. 16 gauge galvanized frame, insulated with 1” fiberglass insulation to prevent condensation.

DEFROST
Factory set defrost time. Supply motor is shut off while exhaust air defrosts core. Two defrost times available.

DRAIN
Two stainless steel drain pans with 1/2” (12mm) NPT drain spouts.

MOUNTING
Unit can be set on floor or support brackets hung by threaded rod type apparatus. Brackets and rods not included.

CONTROLS & FUNCTION
Integrated microprocessor circuit board, optional remote 2 speed control, built in interlock contacts.

OPTIONS
99-DET01 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
99-500 3 Speed Control

WARRANTY

2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.
**Engineering Data**

**AIRFLOW**
2500 cfm (1175 L/s) at 1.0" wg ESP.

**PERFORMANCE**
70% effective at 2500 cfm (1172 L/s).

**CORES**
Single aluminum sensible heat recovery core. Plate-to-plate type. Slides out of either side of cabinet for service.

**MOTORS**
Two single shaft PSC, 208/230V, 5.1 Amps, 1hp, 1ph, 3 speed motor (2 speeds selectable)

**BLOWERS**
Two direct-drive centrifugal blowers, one per air stream.

**FILTERS**
Two – 18" x 24" (457mm x 610mm) 4-inch pleated filters in each air stream.

**CONNECTION DUCT SIZES**
Two - 24" x 16" (610mm x 406mm) to and from the building, under cabinet. Two 28" x 18" (711mm x 457mm) hoods, included on side of cabinet with screens.

**CABINET**
20 gauge powder-coated galvanized steel exterior for superior corrosion resistance. 16 gauge galvanized frame, insulated with 1” fiberglass insulation to prevent condensation.

**DEFROST**
Factory set defrost time. Supply motor is shut off while exhaust air defrosts core. Two defrost times available.

**DRAIN**
Two stainless steel drain pans with 1/2” (12mm) NPT drain spouts.

**MOUNTING**
Rooftop mounted on optional roof curb. Part No. 53-2500.

**CONTROLS & FUNCTION**
Integrated microprocessor circuit board, optional remote 2 speed control, built in interlock contacts.

**OPTIONS**
99-DET01 Digital Electronic Timer – 20/40/60 min
99-BC01 Lifestyle RNC Ventilation Control
99-DH01 Remote Wallmount Dehumidistat Control
99-500  3 Speed Control

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**WARRANTY**

2 year limited.
15 year HRV Core, 5 year ERV Core.

All units conform to CSA and UL Standards.
Engineering Data
700 POOL / 1200 POOL

CORES

MOTORS
700 POOL: Two PSC, 3 speed single shafted, 120 VAC, 4.5 Amps each (9 total on high speed). HP - 1/4, 1450 RPM.
1200 POOL: Two PSC, 3 speed double shafted, 120 VAC, 9.4 Amps each (18.8 total on high speed). HP - 1/2, 1625 RPM.

FILTERS
Washable air filters in exhaust and supply air streams.

BLOWERS
700 POOL: Each air stream has one single shafted motor driving a centrifugal blower.
1200 POOL: Each air stream has one double shafted motor driving 2 centrifugal blowers.

CONNECTION DUCT SIZES
700 POOL: Five - 14” x 8” H (356 mm x 200 mm).
1200 POOL: Five - 20” x 8” H (305 mm x 200 mm).

MOUNTING
Unit to be set on brackets or suspended by threaded rod. (brackets and rod not provided).

CASE
Prepainted galvanized steel for superior corrosion resistance. Insulated with closed cell foam insulation where required to prevent exterior condensation. Drain connections; two - 1/2” (12 mm) O.D.

CONTROLS & FUNCTION

DEFROST
Supply bypass routes indoor air to defrost core.

WEIGHT
700 POOL: Weight 155 lbs. (70 kg).
1200 POOL: Weight 210 lbs. (95 kg).
COMMERCIAL-POOL
HEAT RECOVERY VENTILATORS

700 POOL

PERFORMANCE

AIRFLOWS (Each Air Stream)

TEMPERATURE EFFECTIVENESS

NOTE: Exhaust Relative Humidity (RH) at 40%

Weight: 155lbs (70Kg)
Dimensions: Inches (mm)

1200 POOL

PERFORMANCE

AIRFLOWS (Each Air Stream)

TEMPERATURE EFFECTIVENESS

NOTE: Exhaust Relative Humidity (RH) at 40%

Weight: 210lbs (95Kg)
Dimensions: Inches (mm)
**Engineering Data**

**MOTOR AND BLOWER**
2 speed, high efficiency PSC Motor - 150 cfm/75 cfm. 110 watts - 120 VAC - standard three prong plug to receptacle. The TFP is equipped with a standard power cord 5'5" (1.6 meters) long.

**OFF/LOW/HIGH SPEED SELECTOR SWITCH**
Select 75 cfm (Low) or 150 cfm (High).

**AIRFLOW**
150 cfm @ .4" WC (High Speed)
75 cfm @ .4" WC (Low Speed)

**COLLECTORS**
One replaceable TFP collector and one replaceable HEPA filter
- Easy to remove for cleaning and replacement
- Annual inspection recommended

**CASE**
Twenty gauge prepainted galvanized steel for superior corrosion resistance

**WEIGHT**
55 lbs. (24.4 Kgs)

**ELECTRICAL CODES**
Conforms to CSA and UL standards

**MOUNTING THE WHOLE HOME TFP - VERY FLEXIBLE**
- Mount to the furnace return
- Mount between the HRV and the furnace
- Hang from a joist and duct to the furnace

**REPLACEMENT OPTIONS**
65-503R - One replacement TFP collector
65-502R - One replacement HEPA filter

Optional Installation Kit: Part # 99-TFP
Includes:
- Two 7” duct connection collars
- 12.5’ of 7” non-insulated flex duct
- Four nylon duct zip ties

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**TFP 3000 HEPA**

**Dimensions: Inches (mm)**

- All duct connections are 7” (178 mm)

**TFP3000 HEPA**

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<tr>
<th>Particle Size (microns)</th>
<th>Percentage Caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 0.3</td>
<td>99.97%</td>
</tr>
</tbody>
</table>

**WARRANTY**

Five year warranty on all replacement parts except the collectors/filters.

Conforms to CSA and UL Standards.
Lifbreath Clean Air Furnace combines the benefits of an air exchanger with a heating system.

Breathe new life into your home!
Indoor comfort in a small package

The patented Lifebreath Clean Air Furnace (hydronic model) combines the fresh air benefits of the Heat Recovery Ventilator (HRV) with the comfort and efficiency of the water heater and air handler. This combination heating system provides constant ventilation and a steady stream of warm air for the healthiest, most comfortable home environment possible. This occurs with a system efficiency of up to 90%.

Fresh air for your home:
1. Warm, stale air from the home is returned to the Lifebreath Clean Air Furnace.
2. Outdoor air travels through the fresh air intake and is brought into the aluminum heat recovery core.
3. The fresh and stale air pass through opposite sides of the HRV's aluminum heat exchange core.
4. Heat from the stale air is transferred to the fresh air.
5. Stale indoor air is exhausted outside.

Meanwhile, in Lifebreath's ultra-efficient heating coil:
6. Hot water is sent from the water heater or boiler to the furnace heating coil.
7. A PSC type high-efficiency fan motor blows the tempered fresh air from the HRV into the coil. *ECM upgrade recommended for maximum energy savings.
8. The circulation pump distributes hot water through the coil.
9. The circulating hot water heats the air to the desired temperature.
10. Warm, fresh air is distributed to registers throughout the house.
11. The hot water travels through the coil and returns to the water heater or boiler.

The heat recovery core works year-round to ensure that your home is always fresh, while the heating function operates only when required. Enjoy the comfort, convenience, and economy of a Lifebreath Clean Air Furnace. Hot water remains potable for domestic use when connecting to the water heater.
A fresh new heating concept
Benefits for your health and your pocketbook

The Lifebreath Clean Air Furnace creates a healthier, more comfortable home environment while lowering energy bills. In conjunction with a high-efficiency water heater, this combination system can achieve 90+% Combined Annual Efficiency (CAE) ratings.

Lifebreath operates safely and quietly. Instead of the periodic bursts of hot air distributed by conventional furnaces, a steady stream of warm air is released throughout the house — reducing drafts and creating a more even temperature distribution. With a Clean Air Furnace, the atmosphere in your home will be noticeably improved.

**Combat asthma and other respiratory problems**

Today’s homes are built to promote energy efficiency. This “air-tight” construction lowers heating bills, but it also restricts the flow of fresh air into the house. The Environmental Protection Agency estimates the number of pollutants found in indoor air to be as much as 70 times greater than outdoors, even in urban areas. An increase in the levels of pollen, dust, insect dander, tobacco smoke and other pollutants in indoor air has been blamed for a doubling of the incidence of asthma and allergies in children and adults over the past 15 years.

No longer do you need to sacrifice your health for low energy costs. Lifebreath offers a solution to protect your family from the pollutants in your home while reducing heating and air conditioning costs. The high-efficiency Clean Air Furnace has a built-in heat recovery ventilator (HRV) that replaces stale air with fresh.

The HRV removes stale, contaminated air from inside the house to the outdoors. At the same time, it draws fresh, oxygen-laden air from outside and distributes it throughout the house.

As the two air streams pass through the HRV, heat from the warm, stale air is transferred to the fresh air before being distributed throughout your home. In a typical 1,600 sq. ft. home, the air is completely changed every 3-4 hours, so you are always breathing healthy, fresh air.

**Quiet, Clean, Hydronic Heat**

The Lifebreath CAF distributes a steady stream of uniform, temperate air throughout the home. This provides a more comfortable environment than conventional furnaces, which emit periodic bursts of very hot air. The CAF heating coil is sized to meet warm air demand in the coldest months.

**Efficiency brings Economy**

The Lifebreath water heater/air handler concept minimizes fuel consumption. In conjunction with a high-efficiency water heater, the CAF can achieve 90+% CAE ratings, making it among the most efficient systems available. You’ll reap benefits every month with lower utility bills.

**Fresh Air Ventilation for Monthly Savings**

The Lifebreath CAF costs about the same as high-efficiency furnaces that don’t provide whole house ventilation, while the HRV achieves significant energy savings.

**Safer than Ever**

By eliminating the need for gas or oil flames, fumes, or fluctuating gases, the Lifebreath CAF ensures that safety is never an issue. Because it doesn’t require a flue, installation costs can be lowered by up to $500.

**No Shoehorn Required**

The compact dimensions and flexible duct connections of the Lifebreath CAF make it easy-to-install in new or existing homes, as well as condominiums.

**Long-term Reliability**

The clean operation of the Lifebreath CAF ensures a long life. Lifebreath provides a lifetime warranty on the aluminum heat recovery core and a five-year replacement parts warranty on all other components.

**Easy Maintenance**

The Lifebreath CAF is designed as a low maintenance, easily serviced system. Routine maintenance can be performed simply and quickly. The pleated furnace filter should be checked regularly and replaced as needed. The HRV/ERV core should be cleaned twice a year.
Making your home healthier

Airia Brands Inc., developer of the Lifebreath line of climate and air quality control products, is a world leader in the increasingly important field of Indoor Air Quality Management. Airia’s mission is to improve the quality of the indoor air we breathe.

In addition to the Clean Air Furnace, Lifebreath offers the TFP Air Cleaner and a full lineup of Heat Recovery Ventilators with over 300,000 installations across North America.

Visit www.lifetbreath.com to locate your nearest dealer and learn how we can make your home healthier.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>CAF-U-S4A-24-P16</th>
<th>CAF-U-L4A-36-P16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>115 VAC 60 Hz</td>
<td>115 VAC 60 Hz</td>
</tr>
<tr>
<td>HP</td>
<td>1/3</td>
<td>1/2</td>
</tr>
<tr>
<td>Amps</td>
<td>7.0</td>
<td>8.8</td>
</tr>
<tr>
<td>Water Connections</td>
<td>1/2&quot; Copper Soldered Connection</td>
<td>3/4&quot; Copper Soldered Connection</td>
</tr>
<tr>
<td>Ventilation Duct Size</td>
<td>6&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>Airflow</td>
<td>1030 CFM @.25 ESP</td>
<td>1350 CFM @ .25 ESP</td>
</tr>
<tr>
<td></td>
<td>800 CFM @ .5 ESP</td>
<td>1180 CFM @ .5 ESP</td>
</tr>
<tr>
<td>Heat Delivery Capacity</td>
<td>36,000 - 94,000 BTUH</td>
<td>38,000 - 120,000 BTUH</td>
</tr>
<tr>
<td>Ventilation Airflow</td>
<td>up to 140 CFM</td>
<td>up to 140 CFM</td>
</tr>
<tr>
<td>Combined System Efficiency</td>
<td>up to 90%</td>
<td>up to 90%</td>
</tr>
</tbody>
</table>

Note: These specifications are only for CAF-U-S4A-24-P16 and CAF-U-L4A-36-P16 versions of the CAF. For information on the electric and other models of the CAF, contact Airia or visit www.lifetbreath.com.

Dimensions & Clearances

For More Information Contact:

AIRIA BRANDS INC
511 McCormick Blvd
London, Ontario N5W 4C8
T (519) 457-1904
F (519) 457-1678
Email info@lifetbreath.com

270 Regency Ridge, Suite 210
Dayton, Ohio 45429
T (937) 439-4670
F (937) 439-4685
Website: www.lifetbreath.com
Model Number Nomenclature Breakdown

Example Model Number  CAF - U - S2A - 24 - P16

Model Configuration
CAF - Clean Air Furnace (Built-in HRV)
Refer to AH (Air Handler) specifications if a built-in HRV is not required

Configuration
U - Upflow - Return Air off Left or Right side
D - Downflow - Return air off Left side, Right side or Top
(not available for L2A or 00 Coils)
H - Horizontal - Return on Left side only
(not available for L2A or 00 Coils)

Available Clean Air Furnace Models
CAF-U-S4A-24-P16(E16)
CAF-D-S4A-24-P16(E16)
CAF-H-S4A-24-P16(E16)
CAF-U-L4A-36-P16(E16)
CAF-D-L4A-36-P16(E16)
CAF-H-L4A-36-P16(E16)
CAF-U-L2A-48-P16(E16)
CAF-U-00-24-P16(E16)
CAF-U-00-36-P16(E16)
CAF-U-00-48-P16(E16)

Hydronic Coil Size
S4A - Small Coil - 4 Row Coil
L2A - Large Coil - 2 Row Coil
(available in upflow only)
L4A - Large Coil - 4 Row Coil
00 - No Hydronics - No Heating Coil, No Pump
(available in upflow only)

* CFM (High Speed)
Cooling Capacity
24 - 2 tons
30 - 2.5 tons
36 - 3.0 tons
48 - 4.0 tons
*Cooling coils not available from Airia

Motor Configuration
P16 - Standard PSC Motor 120V/60Hz
E16 - Upgrade ECM Motor 120V/60Hz

ATTENTION
Refer to individual specification pages for Hydronic Coil and Blower outputs and configurations.

WARRANTY
Units carry a lifetime warranty on the heat recovery (aluminum) core, a five year warranty on the energy recovery (enthalpic) core and a five year replacement parts warranty on all other components.

All units conform to CSA and UL Standards.
Coil Output (1000’s of BTUH)
CAF-D-S4A-24-P16 / CAF-H-S4A-24-P16 / CAF-U-S4A-24-P16

<table>
<thead>
<tr>
<th>CFP @ 25-WC</th>
<th>CPM @ 5-WC</th>
</tr>
</thead>
<tbody>
<tr>
<td>890</td>
<td>130</td>
</tr>
<tr>
<td>790</td>
<td>140</td>
</tr>
<tr>
<td>740</td>
<td>150</td>
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<td>660</td>
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<td>1030</td>
<td>160</td>
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<td>900</td>
<td>170</td>
</tr>
<tr>
<td>825</td>
<td>180</td>
</tr>
<tr>
<td>740</td>
<td>180</td>
</tr>
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</table>

Technical Specifications

CAF-D-S4A-24-P16
CAF-H-S4A-24-P16
CAF-U-S4A-24-P16

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>1/3</td>
</tr>
<tr>
<td>Amps (Input)</td>
<td>8</td>
</tr>
<tr>
<td>Water Connections</td>
<td>1/2” (12 mm) Copper Soldered Connection</td>
</tr>
<tr>
<td>Airflow (High)</td>
<td>25 in wg 5 in wg 890 CFM</td>
</tr>
<tr>
<td>Ventilation Airflow</td>
<td>100-140 CFM</td>
</tr>
<tr>
<td>Effectiveness (Aluminum Core)</td>
<td>70%</td>
</tr>
<tr>
<td>Total Efficiency (Enthalpic Core)</td>
<td>50%</td>
</tr>
<tr>
<td>Net Weight</td>
<td>150 lbs.</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>165 lbs.</td>
</tr>
</tbody>
</table>

Dimensions

CAF-D-S4A-24-P16

Engineering Data

CORE
Ventilation system has patented aluminum heat recovery core (standard) or an enthalpic energy recovery core (optional) for energy-efficient ventilation. Enthalpic cores are recommended for regions where temperature does not drop below 25F (-4C).

FILTERS
Washable air filters in exhaust and supply air streams of ventilation section. 1” (25mm) pleated in return plenum side.

CASE
Pre-painted galvanized steel for superior corrosion resistance.

OPTIONS
99-186 Weatherhoods, Two - 6” (150cm) c/w 1/4” (6mm) mesh screen
99-DH01 Remote wall mount dehumidistat control
99-RSK6 6” (150mm) Backdraft damper
99-DET01 Digital Electronic Timer
Coil Output (1000's of BTUH)

| Water Temperature | 130 | 140 | 150 | 160 | 170 | 180 | 130 | 140 | 150 | 160 | 170 | 180 | 130 | 140 | 150 | 160 | 170 | 180 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3 GPM             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4 GPM             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5 GPM             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

Technical Specifications

### CAF-D-L4A-36-P16
- **Voltage**: 120 VAC 60 Hz
- **Hp**: 1/2
- **Amps (total)**: 10.6
- **Water Connections**: 3/4" (19 mm) Copper Soldered Connection
- **Airflow (High)**: 1840 CFM
- **Enthalpy Recovery**: 1180 CFM
- **Effective Airflow**: 100 - 140 CFM
- **Total Efficiency (Enthalpic Core)**: 100 - 140 CFM
- **Net Weight**: 150 lbs.
- **Shipping Weight**: 165 lbs.

### CAF-H-L4A-36-P16
- **Voltage**: 120 VAC 60 Hz
- **Hp**: 1/2
- **Amps (total)**: 10.6
- **Water Connections**: 3/4" (19 mm) Copper Soldered Connection
- **Airflow (High)**: 1840 CFM
- **Enthalpy Recovery**: 1180 CFM
- **Effective Airflow**: 100 - 140 CFM
- **Total Efficiency (Enthalpic Core)**: 100 - 140 CFM
- **Net Weight**: 115 lbs.
- **Shipping Weight**: 130 lbs.

### CAF-U-L4A-36-P16
- **Voltage**: 120 VAC 60 Hz
- **Hp**: 1/2
- **Amps (total)**: 10.6
- **Water Connections**: 3/4" (19 mm) Copper Soldered Connection
- **Airflow (High)**: 1840 CFM
- **Enthalpy Recovery**: 1180 CFM
- **Effective Airflow**: 100 - 140 CFM
- **Total Efficiency (Enthalpic Core)**: 100 - 140 CFM
- **Net Weight**: 150 lbs.
- **Shipping Weight**: 165 lbs.

### CAF-U-00-36-P16
- **Voltage**: 120 VAC 60 Hz
- **Hp**: 1/2
- **Amps (total)**: 10.6
- **Water Connections**: 3/4" (19 mm) Copper Soldered Connection
- **Airflow (High)**: 1840 CFM
- **Enthalpy Recovery**: 1180 CFM
- **Effective Airflow**: 100 - 140 CFM
- **Total Efficiency (Enthalpic Core)**: 100 - 140 CFM
- **Net Weight**: 115 lbs.
- **Shipping Weight**: 130 lbs.

*Airflow performance assumes an evaporator coil static pressure loss of 0.25" WC*

Engineering Data

**CORE**
Ventilation system has patented aluminum heat recovery core (standard) or an enthalpic energy recovery core (optional) for energy-efficient ventilation. Enthalpic cores are recommended for regions where temperature does not drop below 25°F (-4°C).

**FILTERS**
Washable air filters in exhaust and supply air streams of ventilation section. 1" (25mm) pleated in return plenum side.

**CASE**
Pre-painted galvanized steel for superior corrosion resistance.

**OPTIONS**
- 99-186: Weatherhoods, Two - 6" (150cm) c/w 1/4" (6mm) mesh screen
- 99-DH01: Remote wall mount dehumidistat control
- 99-RSK6: 6" (150mm) Backdraft damper
- 99-DET01: Digital Electronic Timer
### Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>H P</th>
<th>Water Connections</th>
<th>Airflow (High)</th>
<th>Ventilation Airflow</th>
<th>Effectiveness (Aluminum Core)</th>
<th>Total Efficiency (Enthalpic Core)</th>
<th>Net Weight</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAF-U-L2A-48-P16</td>
<td>120 VAC 60 Hz</td>
<td>1/2</td>
<td>1/2 (12 mm) Copper Gasketed Connection</td>
<td>1888 CFM</td>
<td>100 - 140 CFM</td>
<td>70%</td>
<td>50%</td>
<td>150 lbs.</td>
<td>185 lbs.</td>
</tr>
<tr>
<td>CAF-U-00-48-P16</td>
<td>120 VAC 60 Hz</td>
<td>1/2</td>
<td>1/2 (12 mm) Copper Gasketed Connection</td>
<td>1989 CFM</td>
<td>100 - 140 CFM</td>
<td>70%</td>
<td>50%</td>
<td>132 lbs.</td>
<td>147 lbs.</td>
</tr>
</tbody>
</table>

* Airflow performance assumes an evaporator coil static pressure loss of .25" WC.

### Dimensions

**Dimensions**

- **Height:** 24" (600 mm)
- **Width:** 18" (450 mm)
- **Depth:** 18" (450 mm)

**Service C clearances:** 12" (300 mm)

### Engineering Data

#### CORE

Ventilation system has patented aluminum heat recovery core (standard) or an enthalpic energy recovery core (optional) for energy-efficient ventilation. Enthalpic cores are recommended for regions where temperature does not drop below 25°F (-4°C).

#### FILTERS

Washable air filters in exhaust and supply air streams of ventilation section. 1" (25mm) pleated in return plenum side.

#### CASE

Pre-painted galvanized steel for superior corrosion resistance.

#### OPTIONS

- **99-186** Weatherhoods, Two - 6" (150cm) c/w 1/4" (6mm) mesh screen
- **99-DH01** Remote wall mount dehumidistat control
- **99-RSK6** 6" (150mm) Backdraft damper
- **99-DET01** Digital Electronic Timer
Hydronic heat produces a uniform and temperate supply air temperature eliminating hot/cold spikes in the home

- Significant energy savings:
  - ECM motor available on all models
- Heating Capacity: 25,000 to 110,000 BTU.
- Add on air conditioning capacity: 2 to 4 tons.
- Compatible with a hot water heater or boiler.
- Simple, straightforward installation. Saves time.
- May qualify for energy efficiency programs or rebates in your area.

Output

Model AH-U-S4A-24-P16 (34,000 to 85,000 BTUH)
Install up to 2 tons of add-on air conditioning

Model AH-U-S2A-30-P16 (25,000 to 56,000 BTUH)
Install up to 2.5 tons of add-on air conditioning

Model AH-U-L2A-36-P16 (25,000 to 68,000 BTUH)
Install up to 3 tons of add-on air conditioning

Model AH-U-L4A-36-P16 (37,000 to 110,000 BTUH)
Install up to 3 tons of add-on air conditioning

Model AH-U-L2B-48-P16 (37,000 to 79,000 BTUH)
Install up to 4 tons of add-on air conditioning
Specifications

**Models**
AH-U-S4A-24-P16  
AH-U-S2A-30-P16

**Models**
AH-U-L4A-36-P16  
AH-U-L2A-36-P16  
AH-U-L2B-48-P16

**Note:** All units have an upflow configuration.

*5 year replacement parts warranty.*

---

**Model**  
AH-U-L4A-36-P16

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hp</td>
<td>1/2</td>
</tr>
<tr>
<td>Amps (total)</td>
<td>10.6</td>
</tr>
<tr>
<td>Water Connections</td>
<td>3/4&quot; (19 mm) Copper Soldered Connection</td>
</tr>
<tr>
<td>Airflow (High) .25 in wg</td>
<td>1350 CFM</td>
</tr>
<tr>
<td>Airflow (High) .5 in wg</td>
<td>1180 CFM</td>
</tr>
<tr>
<td>Net Weight</td>
<td>121 lbs.</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>140 lbs.</td>
</tr>
</tbody>
</table>

**Model**  
AH-U-L2A-36-P16

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hp</td>
<td>1/2</td>
</tr>
<tr>
<td>Amps (total)</td>
<td>10.6</td>
</tr>
<tr>
<td>Water Connections</td>
<td>1/2&quot; (12 mm) Copper Soldered Connection</td>
</tr>
<tr>
<td>Airflow (High) .25 in wg</td>
<td>1402 CFM</td>
</tr>
<tr>
<td>Airflow (High) .5 in wg</td>
<td>1220 CFM</td>
</tr>
<tr>
<td>Net Weight</td>
<td>121 lbs.</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>140 lbs.</td>
</tr>
</tbody>
</table>

**Model**  
AH-U-L2B-48-P16

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hp</td>
<td>1/2</td>
</tr>
<tr>
<td>Amps (total)</td>
<td>12.2</td>
</tr>
<tr>
<td>Water Connections</td>
<td>1/2&quot; (12 mm) Copper Soldered Connection</td>
</tr>
<tr>
<td>Airflow (High) .25 in wg</td>
<td>1967 CFM</td>
</tr>
<tr>
<td>Airflow (High) .5 in wg</td>
<td>1639 CFM</td>
</tr>
<tr>
<td>Net Weight</td>
<td>136 lbs.</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>155 lbs.</td>
</tr>
</tbody>
</table>
Model Number Nomenclature Breakdown

Example Model Number  AH - U - S2A - 24 - P16

Model Configuration
AH - Air Handler (No HRV)
Refer to CAF (Clean Air Furnace) specifications if a built-in HRV is required

Configuration
U - Upflow - Return Air off Left or Right side
D - Downflow models are unavailable for Air Handlers
H - Horizontal models are unavailable for Air Handlers

Available Air Handler Models
AH-U-S2A-30-P16(E16)
AH-U-S4A-24-P16(E16)
AH-U-L2A-48-P16(E16)
AH-U-L4A-36-P16(E16)
AH-U-L2B-48-P16(E16)

Hydronic Coil Size
S2A - Small Coil - 2 Row Coil
S4A - Small Coil - 4 Row Coil
L2A - Large Coil - 2 Row Coil
L4A - Large Coil - 4 Row Coil
L2B - Large Coil - 2 Row Coil

* CFM (High Speed)
Cooling Capacity
24 - 2 tons
30 - 2.5 tons
36 - 3.0 tons
48 - 4.0 tons
*Cooling coils not available from Airia

Motor Configuration
P16 - Standard PSC Motor 120V/60Hz
E16 - Upgrade ECM Motor 120V/60Hz

ATTENTION
Refer to individual specification pages for Hydronic Coil and Blower outputs and configurations.

WARRANTY
Units carry a five year replacement parts warranty on all components.

All units conform to CSA and UL Standards.
Coil Output (1000's of BTUH)
AH-U-S4A-24-P16

<table>
<thead>
<tr>
<th>Water Temp.</th>
<th>3 GPM</th>
<th>4 GPM</th>
<th>5 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>130</td>
<td>140</td>
<td>150</td>
<td>160</td>
</tr>
<tr>
<td>170</td>
<td>180</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130</td>
<td>140</td>
<td>150</td>
<td>160</td>
</tr>
<tr>
<td>170</td>
<td>180</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical Specifications
AH-U-S4A-24-P16

- Voltage: 120 VAC 60 Hz
- Hp: 1/3
- Amps (total): 8
- Water Connections: 1/2" (13 mm) Copper Soldered Connection
- Airflow (High): 25 in wg .5 in wg
- 250 CFM 890 CFM
- Net Weight: 111 lbs. (50.3 kg)
- Shipping Weight: 130 lbs. (59 kg)

Dimensions
AH-U-S4A-24-P16 / AH-U-S2A-30-P16

- Top: 19" (483 mm)
- Side: 30" (762 mm)
- Front: 35.5" (902 mm)

Coil Output (1000's of BTUH)
AH-U-S2A-30-P16

<table>
<thead>
<tr>
<th>Water Temp.</th>
<th>3 GPM</th>
<th>4 GPM</th>
<th>5 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>130</td>
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<td>130</td>
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<td>150</td>
<td>160</td>
</tr>
<tr>
<td>170</td>
<td>180</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical Specifications
AH-U-S2A-30-P16

- Voltage: 120 VAC 60 Hz
- Hp: 1/3
- Amps (total): 8
- Water Connections: 1/2" (13 mm) Copper Soldered Connection
- Airflow (High): 25 in wg .5 in wg
- 1280 CFM 1075 CFM
- Net Weight: 111 lbs. (54.9 kg)
- Shipping Weight: 130 lbs. (59 kg)
**Coil Output (1000’s of BTUH)**

<table>
<thead>
<tr>
<th>AH-U-L2A-36-P16</th>
<th>AH-U-L4A-36-P16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Temp.</strong></td>
<td><strong>Water Temp.</strong></td>
</tr>
<tr>
<td><strong>3 GPM</strong></td>
<td><strong>3 GPM</strong></td>
</tr>
<tr>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td>140</td>
<td>140</td>
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<td>150</td>
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<tr>
<td>170</td>
<td>170</td>
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<tr>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td><strong>4 GPM</strong></td>
<td><strong>4 GPM</strong></td>
</tr>
<tr>
<td>130</td>
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<td>170</td>
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<tr>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td><strong>5 GPM</strong></td>
<td><strong>5 GPM</strong></td>
</tr>
<tr>
<td>130</td>
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<td>140</td>
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<td>170</td>
<td>170</td>
</tr>
<tr>
<td>180</td>
<td>180</td>
</tr>
</tbody>
</table>

**Technical Specifications**

**AH-U-L2A-36-P16**

- **Voltage**: 120 VAC 60 Hz
- **Hp**: 1/2
- **Amps (total)**: 10.6
- **Water Connections**: 1/2” (13 mm) Copper Soldered Connection
- **Airflow (High)**: 1402 CFM
- **.25 in wg**
- **.5 in wg**
- **Net Weight**: 121 lbs. (50.3 kg)
- **Shipping Weight**: 140 lbs. (59 kg)

**AH-U-L4A-36-P16**

- **Voltage**: 120 VAC 60 Hz
- **Hp**: 1/2
- **Amps (total)**: 10.6
- **Water Connections**: 3/4” (19 mm) Copper Soldered Connection
- **Airflow (High)**: 1350 CFM
- **.25 in wg**
- **.5 in wg**
- **Net Weight**: 121 lbs. (54.9 kg)
- **Shipping Weight**: 140 lbs. (63.6 kg)

**Dimensions**

**AH-U-L2A-36-P16 / AH-U-L4A-36-P16**

**NOTE**

All units have an upflow configuration.
Coil Output (1000’s of BTUH)
AH-U-L2B-48-P16

<table>
<thead>
<tr>
<th>Water Temp</th>
<th>3 GPM</th>
<th>4 GPM</th>
<th>5 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1639</td>
<td>37.5</td>
<td>37.3</td>
<td>36.9</td>
</tr>
<tr>
<td>1618</td>
<td>43.9</td>
<td>43.7</td>
<td>43.2</td>
</tr>
<tr>
<td>1575</td>
<td>50.3</td>
<td>50.0</td>
<td>49.5</td>
</tr>
<tr>
<td>1967</td>
<td>56.8</td>
<td>56.5</td>
<td>55.8</td>
</tr>
<tr>
<td>1866</td>
<td>63.3</td>
<td>62.9</td>
<td>62.2</td>
</tr>
<tr>
<td>1728</td>
<td>69.7</td>
<td>69.3</td>
<td>68.6</td>
</tr>
<tr>
<td>1489</td>
<td>47.2</td>
<td>47.2</td>
<td>46.7</td>
</tr>
<tr>
<td>1460</td>
<td>40.7</td>
<td>40.4</td>
<td>39.9</td>
</tr>
<tr>
<td>1441</td>
<td>54.5</td>
<td>54.2</td>
<td>53.5</td>
</tr>
<tr>
<td>1492</td>
<td>61.5</td>
<td>61.1</td>
<td>60.3</td>
</tr>
<tr>
<td>1503</td>
<td>68.5</td>
<td>68.0</td>
<td>67.2</td>
</tr>
<tr>
<td>1514</td>
<td>75.5</td>
<td>75.0</td>
<td>74.0</td>
</tr>
<tr>
<td>1525</td>
<td>42.8</td>
<td>42.5</td>
<td>41.9</td>
</tr>
<tr>
<td>1536</td>
<td>50.0</td>
<td>49.7</td>
<td>49.0</td>
</tr>
<tr>
<td>1547</td>
<td>57.3</td>
<td>56.9</td>
<td>56.1</td>
</tr>
<tr>
<td>1558</td>
<td>64.6</td>
<td>64.2</td>
<td>63.3</td>
</tr>
<tr>
<td>1569</td>
<td>71.9</td>
<td>71.5</td>
<td>70.5</td>
</tr>
<tr>
<td>1580</td>
<td>79.3</td>
<td>78.7</td>
<td>77.7</td>
</tr>
</tbody>
</table>

Technical Specifications
AH-U-L2B-48-P16

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hp</td>
<td>1/2</td>
</tr>
<tr>
<td>Amps (total)</td>
<td>12.2</td>
</tr>
<tr>
<td>Water Connections</td>
<td>1/2&quot; (13 mm) Copper Soldered Connection</td>
</tr>
<tr>
<td>Airflow (High)</td>
<td>1967 CFM</td>
</tr>
<tr>
<td>Airflow (Low)</td>
<td>1639 CFM</td>
</tr>
<tr>
<td>Net Weight</td>
<td>135 lbs. (61.2 kg)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>155 lbs. (70.3 kg)</td>
</tr>
</tbody>
</table>

Dimensions
AH-U-L2B-48-P16

NOTE
All units have an upflow configuration.
Occupant controlled, energy efficient ventilation with heat recovery

The Integrated Vertical Stack (IVS) with Heat Recovery Ventilator (HRV) is the first of its kind, giving high-rise condos, apartments, and hotels a complete ventilation option.

Occupants can control their own energy efficient ventilation system incorporating a hydronic coil for heating and cooling, together with an HRV.

www.lifebreath.com
### Specifications and Dimensional Data

**TOP VIEW OF 2 PIPE SYSTEM SHOWN**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Powder Coated Galvanized Drain Pan</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Coll Assembly</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Control Valve Package</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Electrical Panel</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Blower Assembly</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>Electric Heating Coil (1.0, 1.5kw)</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>Fresh Air Damper Assembly</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>Fresh Air Supply Collar 4&quot;</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>Stale Air Exhaust Collar 5&quot;</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>Stale Air in Collar 5&quot;</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>Air To Air Heat Exchanger</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>Fresh Air Supply Fan (Where Required)</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>Return Air Grille/Access Panel</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>Double Deflection Supply Grille</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>Airflow Regulating Valve</td>
</tr>
</tbody>
</table>

**SECTIONS A-A**

---

**Integrated Vertical Stack**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>NOMINAL SPECS</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Supply Air Quantity</td>
<td>Total Cooling Capacity</td>
</tr>
<tr>
<td>IVS 1.0</td>
<td>400</td>
<td>12,000</td>
</tr>
<tr>
<td>IVS 1.5</td>
<td>600</td>
<td>16,000</td>
</tr>
<tr>
<td>IVS 2.0</td>
<td>800</td>
<td>23,000</td>
</tr>
</tbody>
</table>

* Risers not included.

**Benefits of Heat Recovery Ventilation now available in a patented Integrated Heat/Cool Vertical Unit.**

Specially designed for highrise residential applications. Call us today for details.

---

511 McCormick Blvd
London, Ontario, N4W 4C6
T 519-477-1934
F 519-477-1076
Email: Info@lifebreath.com

275 Regency Ridge, Suite 210
Dayton, Ohio 45409
T 937-436-6676
F 937-436-6675
WebSite: www.lifebreath.com

Revised: 05/06
A Quantum Leap
in Fan Technology

Setting a new standard
for energy efficient, clean air homes

Visit us at www.lifebreath.com

Manufacturer reserves the right to change specifications without notice.
A Dramatic Advance in Ventilation

Definition
Quantum \( \text{ˈkwɒnt-} \) n adj: Large Significant Improvement or Dramatic Advance!

The Quantum Inline Fan Series will revolutionize the way you ventilate. Today’s homes require mechanical ventilation systems* to remove moisture and stale unhealthy air. Our homes are built tight to help reduce heating and air-conditioning costs while at the same time trapping contaminated moisture laden air generated in bathrooms, kitchens, laundry rooms and basements.

With over 25 years of ventilation experience Airia Brands has redefined Inline Fans with the Quantum Series. Our resin fans are rated for both residential and commercial applications including:

- Bathroom Exhaust
- Dryer Booster
- Radon Remediation
- General Ventilation

Engineered Options and Accessories:
- Packaged Kits
- Timers
- Dehumidistats
- Grills

*Ashe 62.2 requires mechanical ventilation in all new homes

No More Noisy Bathroom Fans
Quantum Series Inline Fans are designed for remote mounting away from inlet grills and room occupants. Engineered with superior air flow capabilities, Quantum Inline Fans are more efficient and effective at moving moist air and odors than conventional bathroom fans.

Kit: 99-BEK-4

Dryer Booster Kits
Long duct runs for a clothes dryer can cause problems including significant reduction in drying performance. Quantum Series Fans boost airflow dramatically improving exhaust flow of moist warm air from the dryer. A current sensor is included in the kit to automatically turn the Quantum Fan on when the dryer is operational.

Kit: 99-NBO-DBK-4

Accurate, Reliable Current Sensing
Stack effect, wind and installation can interfere with the operation of pressure switches by starting the fan unnecessarily or simply not turning the fan on when required.

Quantum current sensors are 100% reliable and only operate the booster fan when the dryer is turned on.
Quantum’s COMBI 4, 5, 6, 3-in-1 Fan

Many Applications, One Solution

Quantum Series Inline fans are the next generation in fan technology. The revolutionary COMBI fan provides a convenient cost effective solution to today’s diverse demands. Complete with adaptable collars for 4”, 5” and 6” duct sizes, with the COMBI you always have the correct size fan!

Quantum Ventilation System (QVS)

The Quantum Ventilation System (QVS) is a complete exhaust system for your home or office. The system is a cost effective alternative to noisy surface mount fans. QVS is capable of multi-point exhaust to ventilate your entire home with easy to use controls and dehumidistat. Your home can now be ventilated using a single, quiet, efficient fan that is upgradable at any time to a heat recovery ventilator (HRV) or energy recovery ventilator (ERV).

Quantum Metal Fans

Quantum Metal Fans are ideal for high airflow applications. The mixed flow impeller combined with a tough epoxy coating makes our 8, 10 and 12 inch fans the most durable and competitive on the market. The space saving design, two-speed motors and quick fit mounting bracket provides the best solution for residential and commercial ventilation needs.
Typical Applications

Ventilation Guidelines

For bathrooms up to 100 square feet in area, HVI recommends that an exhaust fan provide 1 CFM per square foot (approximately eight air changes per hour) to properly ventilate the bathroom.

Example:
Bathroom is 8’ x 11’ with 8’ ceilings. Multiply 8 x 11 = 88 sq. ft.
At 1 CFM per sq. ft., the minimum recommendation is a fan rated at 88 CFM.

For bathrooms above 100 square feet in area, HVI recommends a ventilation rate based on the number and type of fixtures present, according to the following table:

<table>
<thead>
<tr>
<th>Size</th>
<th>Model Number</th>
<th>CFM vs Static Pressure (inches w.g.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.2&quot;</td>
</tr>
<tr>
<td>4'</td>
<td>99-N80-125-4</td>
<td>120</td>
</tr>
<tr>
<td>6'</td>
<td>99-N80-325-6</td>
<td>350</td>
</tr>
<tr>
<td>10'**</td>
<td>99-N80-700-10</td>
<td>690/430</td>
</tr>
<tr>
<td>12'**</td>
<td>99-N80-950-12</td>
<td>950/800</td>
</tr>
</tbody>
</table>

*Two speed fans

NOTE: Enclosed toilet rooms must have an operable window or a fan for ventilation.

Example:
Bathroom contains:
1 Toilet + 1 Shower + 1 Whirlpool tub = 200 CFM

Bathroom contains:
1 Toilet + 1 Shower + 1 tub = 150 CFM

We recommend the use of insulated flex duct. Always check local building codes for requirements in your area.

511 McCormick Blvd.
London, Ontario, Canada. NSW 4CB
Ph: (519) 457-1904
Toll Free: 1-855-AIRIA-00
1 (855) 247-4200

www.lifebreath.com
Quantum® In-Line Fan Series

All fans are commercial and residential certified; temperature rated -40°F to 140°F, 120 Volt/60Hz

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Features</th>
<th>Airflow CFM (L/s)</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBQ-COMBI-4/5/6</td>
<td>• Field selectable 4&quot;, 5&quot; or 6&quot; duct connection collars incl. • Multi-position metal bracket included</td>
<td>180/240/270 CFM</td>
<td>99-NBQ-COMBI 4/5/6</td>
<td>Combi fan. Plastic 4&quot;/5&quot;/6&quot;.</td>
</tr>
<tr>
<td>NBQ325-6</td>
<td>• Multi-position metal bracket included</td>
<td>350 CFM</td>
<td>99-NBQ325-6</td>
<td>6&quot; Dedicated Plastic</td>
</tr>
<tr>
<td>NBQ-440-8</td>
<td>• 8&quot; pre-painted galvanized steel • Multi-position metal bracket included</td>
<td>440 CFM on Hi 350 CFM on Low</td>
<td>99-NBQ-440-8</td>
<td>6&quot; Dedicated Plastic</td>
</tr>
<tr>
<td>NBQ-700-10</td>
<td>• 10&quot; pre-painted galvanized steel • Multi-position metal bracket included</td>
<td>690 CFM on Hi 350 CFM on Low</td>
<td>99-NBQ-700-10</td>
<td>Mixed flow inline duct exhaust fan</td>
</tr>
<tr>
<td>NBQ-950-12</td>
<td>• 10&quot; pre-painted galvanized steel • Multi-position metal bracket included</td>
<td>950 CFM on Hi 600 CFM on Low</td>
<td>99-NBQ-950-12</td>
<td>Mixed flow inline duct exhaust fan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fan Kits</th>
<th>Components</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>QVS KIT</td>
<td>Includes: NBQ-COMBI 4/5/6 fan, E-Box, 99-BC-01 (Ventilation Control), 2 x 99-DET01 (20/40/60 Minute Timers) and fan mounting bracket.</td>
<td>93-QVS KIT PLUS</td>
</tr>
<tr>
<td>QVS KIT PLUS</td>
<td>Includes: NBQ-COMBI 4/5/6 fan, E-Box, 99-DX-01 (Digital Control), 2 x 99-DET01 (20/40/60 Minute Timers) and fan mounting bracket.</td>
<td>93-QVS KIT PLUS</td>
</tr>
<tr>
<td>QVS KIT -001</td>
<td>Remote E-Box only, for QVS Kit</td>
<td>93-QVS KIT-001</td>
</tr>
</tbody>
</table>
Bathroom Exhaust Kits

<table>
<thead>
<tr>
<th>Bath Exhaust Kit Options</th>
<th>Features</th>
<th>Airflow CFM (L/s) .2 (95 Pa)</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bath Exhaust Kit 4</td>
<td>4” Plastic Fan with mounting bracket, 4” Tech grille and 4” Damper/collar.</td>
<td>120 CFM</td>
<td>99-BEK-4</td>
<td>4” Plastic Fan</td>
</tr>
<tr>
<td>Bath Exhaust Kit Combi</td>
<td>COMBI 4/5/6 Fan with mounting bracket, (2) 6” Tech grilles, 2 (6”) dampers.</td>
<td>180 CFM, 270 CFM</td>
<td>99-BEK-COMBI</td>
<td>Combi Fan</td>
</tr>
<tr>
<td>Bath Exhaust System</td>
<td>COMBI 4/5/6 Fan, BES Control Box, Fan Speed Selection</td>
<td></td>
<td>99-CAF-BESKIT</td>
<td>For use with a Lifebreath Clean Air Furnace. (See illustration below)</td>
</tr>
</tbody>
</table>

Dryer Exhaust Kits

<table>
<thead>
<tr>
<th>Dryer Exhaust Kit Options</th>
<th>Features</th>
<th>Airflow CFM (L/s) .2 (95 Pa)</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Switch</td>
<td>Superior to different pressure switches</td>
<td>120 VAC @ 2.5 Amps Max</td>
<td>99-CSS</td>
<td></td>
</tr>
</tbody>
</table>

*Features:
- **Bath Exhaust Kit 4**: 4” Plastic Fan with mounting bracket, 4” Tech grille and 4” Damper/collar.
- **Bath Exhaust Kit Combi**: COMBI 4/5/6 Fan with mounting bracket, (2) 6” Tech grilles, 2 (6”) dampers.
- **Bath Exhaust System**: COMBI 4/5/6 Fan, BES Control Box, Fan Speed Selection

*Current Switch*: Superior to different pressure switches 120 VAC @ 2.5 Amps Max

---

*Diagram*: Diagram showing the connection of components such as the Thermostat, Optional 24V/60-Minute Timer, Optional Remote Dehumidistat, BES Control Box Terminal Strip, and Speed Control Knob. Diagram text: "The Quantum COMBI Fan Refer to the "Cross Section of Duct System" Illustrations."
### Ventilation Accessories

<table>
<thead>
<tr>
<th>Features</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dual Hood</strong></td>
<td>99-190</td>
<td>A breakthrough design. Requires only one 6” opening for intake/exhaust connections. Ideal for space constrained HRV or ERV applications.</td>
</tr>
<tr>
<td>• Requires only one 6” opening for intake/exhaust</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Robust design, with damage-resistant metal construction for exterior wall connection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Durable rigid plastic for duct connections</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Fire-rated, UV resistant materials</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weatherhood Kits</strong></td>
<td>99-185</td>
<td>Ideal for HRV, ERV and Inline apps. Two 5” diameter hoods, 12” wall sleeve, duct collar, white plastic, ideal for HRV, ERV and Inline apps.</td>
</tr>
<tr>
<td>• High density polyethylene for long life even in severe climates</td>
<td>99-186</td>
<td>As above - 6” option</td>
</tr>
<tr>
<td>• Screens include to block entry by small animals, large insects</td>
<td>99-187</td>
<td>As above - 7” option</td>
</tr>
<tr>
<td>• No moving parts, eliminates freezing or sticking potential</td>
<td>99-186-LT</td>
<td>Two 6” diameter hoods without sleeve or collar</td>
</tr>
<tr>
<td><strong>Flow-Thru Humidifier</strong></td>
<td>99-Flothru</td>
<td>Electronic controller pulses solenoid water supply valve for 4 sec ON and 30 sec OFF, allowing evaporator pad to be fully saturated while drastically limiting water waste.</td>
</tr>
<tr>
<td>• Suits any forced warm air heating system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Unique electronically pulsed; reduces water consumption by up to 80%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Left/right side flexible duct installation; mounts on supply or return duct</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bathroom Exhaust System (BES)</strong></td>
<td>99-CAF-BESKIT</td>
<td>Perfect way to ventilate specific locations with a Clean Air Furnace.</td>
</tr>
<tr>
<td>• Exhausts multiple areas quietly and economically, while providing heat recovery thru the CAF.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Includes: BES Control box, 4/5/6 Combi Fan, Fan speed selection.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>In-Line Duct Heater</strong></td>
<td>99-160</td>
<td>7” diameter, 1KW, 120V/1phase.</td>
</tr>
<tr>
<td>• Equipped with highly advanced Electronic Modulating Controller (SCR) and Air Flow Sensor to minimize operating cost</td>
<td>99-161</td>
<td>7” diameter, 2KW, 120V/1phase.</td>
</tr>
<tr>
<td>• 120V, 1 phase</td>
<td>99-163</td>
<td>6” diameter, 1KW, 120V/1phase.</td>
</tr>
<tr>
<td>• Automatic reset prevents overheating, manual reset, coil elements made of nickel-chrome resistance wire, corrosion-resistant galvanized steel enclosure, air flow sensor, built-in electronic temperature control and sensor, round collars simplify installation and reduce labour time.</td>
<td>99-164</td>
<td>6” diameter, 2KW, 120V/1phase.</td>
</tr>
<tr>
<td>• 99-159</td>
<td></td>
<td>Special Orders. Call for info. Allows HRV to recover maximum heat, and duct heater modulates output required to reheat air to the desired temperature. This system is generally only used when the HRV has a fully dedicated duct system.</td>
</tr>
<tr>
<td><strong>Scrubber™ Air Treatment System</strong></td>
<td>94-600</td>
<td>6” ports; includes one filter pack</td>
</tr>
<tr>
<td>• Combats wood smoke, outside odours, dust, pollen and airborne pollutants from entering the home.</td>
<td>94-600-7</td>
<td>7” ports; includes one filter pack</td>
</tr>
<tr>
<td>• Pre-filter mesh polyester fibre traps larger particles</td>
<td>94-601</td>
<td>Filter pack replacement</td>
</tr>
<tr>
<td>• Media Filter is a large (50mm/2in) pleated filter</td>
<td></td>
<td>Scrubber is installed after the HRV/ERV in supply air.</td>
</tr>
<tr>
<td>• Activated carbon filters function as purifying absorption nets, trapping odours and impurities.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Includes: 1 pre-filter, 1 pleated filter, and 5 carbon filters</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## EasyAir Grilles and Fittings

<table>
<thead>
<tr>
<th>Features</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TechGrille™</strong></td>
<td>99-EAG4</td>
<td>4” diameter</td>
</tr>
<tr>
<td>• Fully adjustable ventilation grille.</td>
<td>99-EAG5</td>
<td>5” diameter</td>
</tr>
<tr>
<td>• Center adjustment cone spins in-and-out, providing variable ventilation capacity.</td>
<td>99-EAG6</td>
<td>6” diameter</td>
</tr>
<tr>
<td>• No screws required.</td>
<td>99-EAG8</td>
<td>8” diameter</td>
</tr>
<tr>
<td>• Compression spring tabs clip the grille into 4”, 5”, 6” or 8” round duct.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Cool white, non-corrosive material</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stack Head Elbow</strong></td>
<td>99-WF4</td>
<td>4” elbow</td>
</tr>
<tr>
<td>• Adapts to 4”/6” Tech Grille (see above)</td>
<td>99-WF6</td>
<td>6” elbow</td>
</tr>
<tr>
<td>• Fits neatly in 2”x4” walls</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Quick rough-in, and easy to secure</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Quick Mount Fittings</strong></td>
<td>99-QM4</td>
<td>4” diameter</td>
</tr>
<tr>
<td>• All plastic design, will not sweat or rust</td>
<td>99-QM5</td>
<td>5” diameter</td>
</tr>
<tr>
<td>• Simple to install, saves time</td>
<td>99-QM6</td>
<td>6” diameter</td>
</tr>
<tr>
<td>• Suitable for ceiling or wall applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ceiling/Wall Fittings</strong></td>
<td>99-CF4</td>
<td>4” diameter</td>
</tr>
<tr>
<td>• Complements Tech Grille; choose size to match</td>
<td>99-CF5</td>
<td>5” diameter</td>
</tr>
<tr>
<td>• Cool white, all plastic design</td>
<td>99-CF6</td>
<td>6” diameter</td>
</tr>
<tr>
<td>• All plastic design, will not sweat or rust</td>
<td>99-CF-8</td>
<td>8” diameter</td>
</tr>
<tr>
<td><strong>Rough In Metal Fitting</strong></td>
<td>99-RIMF4</td>
<td>4” diameter</td>
</tr>
<tr>
<td>• Metal</td>
<td>99-RIMF5</td>
<td>5” diameter</td>
</tr>
<tr>
<td>• Straps onto floor joists</td>
<td>99-RIMF6</td>
<td>6” diameter</td>
</tr>
<tr>
<td>• Available in 4 sizes</td>
<td>99-RIMF8</td>
<td>8” diameter</td>
</tr>
<tr>
<td><strong>Lay In Ceiling Diffuser</strong></td>
<td>99-LIP8</td>
<td>Fits 8” round duct</td>
</tr>
<tr>
<td>• Full adjustable air flow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Non-sweating, won’t rust or dent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• White finish, paintable, washable</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Kitchen Grille</strong></td>
<td>10-002</td>
<td>Kit, includes 1 grease filter.</td>
</tr>
<tr>
<td>• White, Hinged 6”x10” exhaust grille.</td>
<td>10-002-2</td>
<td>Replacement Grease filter only</td>
</tr>
<tr>
<td>• Easy access to washable aluminum grease filter (included).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Installation and Replacement Accessories

<table>
<thead>
<tr>
<th>Features</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hanging Strap System</strong></td>
<td>99-80-102</td>
<td>Includes 4 heavy duty straps and 4 S-hooks</td>
</tr>
<tr>
<td>• INCLUDED with all MAX &amp; RNC products (except RNC 120D)</td>
<td>99-80-102</td>
<td>Includes 4 heavy duty straps and 4 S-hooks</td>
</tr>
<tr>
<td>• Easy mount system enables pre-assembly on floor</td>
<td>99-80-102</td>
<td>Includes 4 heavy duty straps and 4 S-hooks</td>
</tr>
<tr>
<td>• Adjustable clip simplifies leveling procedure</td>
<td>99-80-102</td>
<td>Includes 4 heavy duty straps and 4 S-hooks</td>
</tr>
</tbody>
</table>

| **Airflow Measuring Equipment** | 99-150 | 5” Diameter |
| Flow Measuring Station | 99-152 | 6” Diameter |
| Balancing Kit (Flow Station Style): Magnehelic gauge. Includes flow stations, hoses and carrying case. | 99-153 | 7” Diameter |
| Pitot Tube Balancing Kit, Magnehelic gauge, Pitot Tube, Hoses and Carrying Case. | 99-155 | 8” Diameter |
| Balancing kit for models 155 MAX, 200 MAX and RNC5-TPD | 99-166-5 | 5” Diameter |
| | 99-166-6 | 6” Diameter |
| | 99-167 | Kit |
| | 99-168 | Pitot Tube only |
| | 99-181 | Magnehelic Gauge only. |
| | 99-200 | |

| **HRV Miscellaneous** | 99-165 | 5” ID Clear flexible vinyl drain hose, 100’/box |
| .5” ID Clear flexible vinyl drain hose, 100’/box | 99-150 | 5” Diameter |
| 6” Diameter Balancing Collar | 99-152 | 6” Diameter |
| 6” Spring-Loaded Back-draft Damper | 99-153 | 7” Diameter |
| Merv 8 Pleated filter Pack (6) | 99-155 | 8” Diameter |
| 6” Duct Silencer | 99-MERV8-6 | 5” Diameter |
| | 99-SILENCER-6 | 6” Diameter |
| | 10-001P | |
| | 10-001 | |
| | 10-095 | |
| | 10-096 | |

| **Mitre Elbows** | 99-136 | Metal, with removable 2 ply lint screen |
| 4” Diameter, Plastic | 99-136 | Metal, with removable 2 ply lint screen |
| 4” Diameter, Galvanized | 99-136 | Metal, with removable 2 ply lint screen |
| 5” Diameter, Galvanized | 99-136 | Metal, with removable 2 ply lint screen |
| 6” Diameter, Galvanized | 99-136 | Metal, with removable 2 ply lint screen |

| **Lint Trap** | 99-136 | Metal, with removable 2 ply lint screen |
| Lint Trap, Pull out door with view window. | 99-136 | Metal, with removable 2 ply lint screen |

| **TFP Accessories** | 65-503R | Annual replacement recommended |
| Replacement TFP3000 Collector | 65-503R | Replace every 2-3 years. |
| Replacement HEPA Filter (for TFP3000) | 65-502R | Includes 7” Flex Duct, 2 – 7” Collars, 4 Nylon Ties. |
| Installation Kit. | 99-7TFP | 6 Filters – approx 20”x20”x1”. |
| Replacement filter kit (for TFP2000) | 99-179 | |
Intelligent Controls at Your Fingertips

Lifestyle MAX Programmable Control
- 4 mode, 5-speed ventilation with user selected 24/7 programming
- 4 event feature permits lifestyle programming

Lifestyle MAX Digital Control 5-Speed / 4 Mode Operation
- 5-speed operation
- 4 user selectable operational modes*
- Easy-to-read backlit LCD Screen
- Built-in relay for interfacing to furnace
- Automatic dehumidistat disable

Lifestyle RNC Digital Control
- 4 selectable operational modes*
- 2-speed operation on each mode
- Adjustable dehumidistat function
- Dehumidistat disable

Lifestyle RNC Ventilation Control
- 2-speed operation
- Standby
- Dehumidistat

Lifestyle Dehumidistat
- Initiates high speed ventilation when indoor humidity level is above set point

* Not available on all models

Setting a new standard for energy efficient, clean air homes

Visit us at www.lifebreath.com
Lifestyle Controls

99-DXPL01 Digital Control
- 5-speed operation
- 4 user operational modes
  - continuous ventilation
  - 20 min. ON, 40 min. OFF
  - 20 min. ON, 40 min. recirculation*
  - Continuous recirculation*
  *Not available on all models
- Built-in interface to furnace
- Automatic service reminder
- Automatic control based on outdoor temperature sensing.

99-LS01 Programmable Control
All Features of 99-DXPL01, plus:
- DELUXE fully featured 5-speed, 4 mode unit.
- Fully PROGRAMMABLE, 4-event feature allows customization according to lifestyle.

99-DX01 Digital Control
- 4 selectable operational modes*
  *Not available on all models
- 2 speed operation on each mode
- Adjustable dehumidistat function
- Dehumidistat disable

99-BC01 Ventilation Control
- 2 Speed operation
- Standby
- Unit On/Off
- Dehumidistat

99-DH01 Dehumidistat
- Initiates high speed ventilation when the indoor humidity level is above the set point.

Timers

99-20M01 20 Minute Timer
- Initiates high speed operation for 20 minutes.

(Both timers available on MAX and RNC Series)
Selecting the Right Size HRV

RESIDENTIAL Applications

The home ventilation system can be sized using room counts or by using whole-house ventilation. Using a whole-house ventilation rate of 0.3 ACH (Air Changes per Hour) the HRV CFM has been determined for the following homes (basement included in calculations).

<table>
<thead>
<tr>
<th>Square Footage (Including Basement (FT²))</th>
<th>Ceiling Height (FT)</th>
<th>Square Footage (Including Basement (FT²))</th>
<th>Ceiling Height (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>8</td>
<td>1500</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>8</td>
<td>2000</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>10</td>
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</tr>
<tr>
<td>2500</td>
<td>8</td>
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</tr>
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<td></td>
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<td></td>
<td>9</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>3000</td>
<td>8</td>
<td>3000</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>3500</td>
<td>8</td>
<td>3500</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000</td>
<td>8</td>
<td>4000</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>23</td>
</tr>
<tr>
<td>4500</td>
<td>8</td>
<td>4500</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>26</td>
</tr>
</tbody>
</table>

**RECOMMENDED RESIDENTIAL HRV**

- 95 MAX RNC 95
- RNC 120D
- 155 MAX RNC 155
- 155 MAX RNC 155
- RNC 5-TPD
- 195 ECM 195 DCS
- 200 MAX 200 MAX RNC 200
- 300 DCS

**ERV's Recommended in Regions Where High Humidity Causes Operation of Air Conditioning/Dehumidification More Frequently Than a Heating System.**

**ERV's Are Not Recommended Where Temperatures Fall Below 25 °F (-4 °C) for More Than Five Days.**

COMMERCIAL & INDUSTRIAL Applications

For outdoor air requirements, ASHRAE has produced the Ventilation Standard 62.1-2007 that is used to determine acceptable ventilation rates. This standard is referenced directly or used as "Good Engineering practice" in most Code documents or design criteria.

<table>
<thead>
<tr>
<th>Occupants</th>
<th>Small Restaurants, Coffee Shops</th>
<th>Beauty &amp; Nail Salon</th>
<th>Bar, Cocktail Lounge</th>
<th>Health Club, Dance Club, Disco</th>
<th>Classrooms &amp; School Portables (Age 9+)</th>
<th>Large Public Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>40</td>
<td>18</td>
<td>100</td>
<td>180</td>
<td>35</td>
<td>125</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
<td>50</td>
<td>150</td>
<td>200</td>
<td>36</td>
<td>150</td>
</tr>
<tr>
<td>Total</td>
<td>45</td>
<td>23</td>
<td>115</td>
<td>200</td>
<td>36</td>
<td>150</td>
</tr>
<tr>
<td>ASHRAE req (per person)</td>
<td>10 CFM (5L/s)</td>
<td>20 CFM (10L/s)</td>
<td>7.5 CFM (3.75L/s)</td>
<td>20 CFM (10L/s)</td>
<td>10 CFM (5L/s)</td>
<td>5 CFM (2.5L/s)</td>
</tr>
<tr>
<td>Ventilation req (total xASHRAE)</td>
<td>450 cfm (225 L/s)</td>
<td>460 cfm (230 L/s)</td>
<td>862.5 cfm (431.25 L/s)</td>
<td>4000 cfm (2000 L/s)</td>
<td>360 cfm (180 L/s)</td>
<td>750 cfm (375 L/s)</td>
</tr>
</tbody>
</table>
Selecting the Right Size CAF / Air Handler

CLEAN AIR FURNACE - Hydronic

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Output Range</th>
<th>Add on A/C Capacity (Tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD PSC MOTOR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAF-U-S4A-24-P16</td>
<td>Upflow</td>
<td>34,000 to 85,000</td>
<td>2</td>
</tr>
<tr>
<td>CAF-L4A-36-P16</td>
<td>Upflow</td>
<td>38,000 to 110,000</td>
<td>3</td>
</tr>
<tr>
<td>CAF-U2A-48-P16</td>
<td>Downflow</td>
<td>25,000 to 68,000</td>
<td>4</td>
</tr>
<tr>
<td>CAF-D-S4A-24-P16</td>
<td>Downflow</td>
<td>34,000 to 85,000</td>
<td>2</td>
</tr>
<tr>
<td>CAF-D-L4A-36-P16</td>
<td>Downflow</td>
<td>38,000 to 110,000</td>
<td>3</td>
</tr>
<tr>
<td>CAF-H-S4A-24-P16</td>
<td>Horizontal</td>
<td>34,000 to 85,000</td>
<td>2</td>
</tr>
<tr>
<td>CAF-H-L4A-36-P16</td>
<td>Horizontal</td>
<td>38,000 to 110,000</td>
<td>3</td>
</tr>
<tr>
<td>CAF-U00-24-P16</td>
<td>Upflow</td>
<td>NO Heat</td>
<td>2</td>
</tr>
<tr>
<td>CAF-U00-36-P16</td>
<td>Upflow</td>
<td>NO Heat</td>
<td>3</td>
</tr>
<tr>
<td>CAF-U00-48-P16</td>
<td>Upflow</td>
<td>NO Heat</td>
<td>4</td>
</tr>
<tr>
<td>UPGRADE ECM MOTOR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAF-U-S4A-24-E16</td>
<td>Upflow</td>
<td>34,000 to 85,000</td>
<td>2</td>
</tr>
<tr>
<td>CAF-L4A-36-E16</td>
<td>Upflow</td>
<td>38,000 to 110,000</td>
<td>3</td>
</tr>
<tr>
<td>CAF-L2A-48-E16</td>
<td>Upflow</td>
<td>25,000 to 68,000</td>
<td>4</td>
</tr>
<tr>
<td>CAF-H-S4A-24-E16</td>
<td>Horizontal</td>
<td>34,000 to 85,000</td>
<td>2</td>
</tr>
<tr>
<td>CAF-H-L4A-36-E16</td>
<td>Horizontal</td>
<td>38,000 to 110,000</td>
<td>3</td>
</tr>
<tr>
<td>99-CAF-BESKIT</td>
<td>Kit (3-items) Includes: BES control box, Quantum 4/5/6 Combi Fan, Fan speed selection</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Lifebreath Hydronic Clean Air Furnace uses the heat from a hot water heater or boiler system to warm the circulating air. Air returning to the furnace passes through an integral heat recovery ventilator. Users enjoy a constant supply of fresh healthy air and minimal energy costs.

SELECTING THE CORRECT AIR HANDLER

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Output Range</th>
<th>Add on A/C Capacity (Tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDRONIC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AH-U-S4A-24-P16</td>
<td>Upflow</td>
<td>34,000 to 85,000</td>
<td>2</td>
</tr>
<tr>
<td>AH-L4A-36-P16</td>
<td>Upflow</td>
<td>38,000 to 110,000</td>
<td>3</td>
</tr>
<tr>
<td>AH-S2A-30-P16</td>
<td>Upflow</td>
<td>27,000 to 56,000</td>
<td>2.5</td>
</tr>
<tr>
<td>AH-L2A-36-P16</td>
<td>Upflow</td>
<td>25,000 to 68,000</td>
<td>3</td>
</tr>
<tr>
<td>AH-L2B-48-P16</td>
<td>Upflow</td>
<td>38,000 to 79,000</td>
<td>4</td>
</tr>
</tbody>
</table>

The Lifebreath Air Handler is a forced air combo type heating system. Combo systems use the hot water supplied by a water heater or boiler. Thus, only one heating appliance is needed to meet hot water and home heating demands. System maximizes efficiency by minimizing "stand-by losses." When heat is required, hot water is circulated through the coil in the air handler and air blown through the coil picks up the heat and delivers to the home. The water is then returned to the water heater for water or heating use.

Lifebreath Academy

Our Residential HRV course and Membership helps prepare you for the installation and promotion of Lifebreath Heat Recovery Ventilators. HRV Duct Sizing Software is included with the course materials.

The topics covered include:
- benefits of ventilation
- calculating the amount of ventilation required
- designing a simplified, partially dedicated, and fully dedicated duct system
- correctly sizing the system
- selecting the controls

Successful completion of the course and exam qualifies you to promote yourself as a "factory trained" member of the Lifebreath Academy. Membership also qualifies you to participate in Lifebreath’s customer referral program.

Visit www.lifebreath.com for more information or speak to your local Territory Manager.
Terms and Conditions

TERMS OF SALE
1. Payment: Net 30 days, from invoice date.
2. Canadian Customers – Taxes:
   a. G.S.T. will be charged on all products, and shown separately on each invoice.
   b. P.S.T (where/as applicable) are extra and will be charged unless AIRIA is supplied with a Provincial Sales Tax license number.
   c. H.S.T (where/as applicable) will be charged on all products, and shown separately on each invoice.
   a. Federal I.D. # is mandatory for all shipments.
   b. Taxes not applicable.
4. Ownership of the product remains the property of AIRIA until the invoice is paid in full.

SHIPPING AND DELIVERY
1. Order lead times (target timeframes):
   • Residential units – as little as 5 business days
   • Commercial – 10 business days
   • Large Commercial – 15-20 business days
   • Parts – 2 business days
2. To protect your product during transport, protective packaging, containers or skids can increase shipping weight by 5 - 20%. Exact weight can be confirmed at time of order.
3. All orders are shipped via courier, and delivered during normal business hours. Shipping charges are included to most major centers in the U.S. Additional charges may apply for shipments beyond those centers. You will be notified of extra charges prior to order entry.
4. We regret that we cannot ship to a Post Office (P.O.) Box address.

PRICING
See pricing lists (available separately) for details

FREIGHT CLAIMS
1. All return Freight charges are the responsibility of the sender.
2. Extra freight duty or brokerage costs charged to Airia Brands Inc., will be deducted from your credit.

GOODS RETURNED FOR CREDIT
1. Authorization must be obtained prior to returning any goods. Use the Return Goods Authorization Form (SM-01F) found on the front of the parts list.
2. Once authorized you will receive an RMA number/#; this RMA number/# must be tagged on the returned product.
3. Returned products must be freight prepaid and adequately packaged to prevent damage. If damaged or unusable, credit will be denied.
4. A minimum 15% restocking charge will apply.
5. Custom products and non-stock products are non-returnable and non-refundable.
6. AIRIA reserves the right to refuse any request for return.

WARRANTY POLICY, REPLACEMENT PARTS, RETURNS
Airia Brands Inc. is proud to stand behind our products. Should replacement parts be required, while under warranty, they will be provided at no charge. Refer to the warranty card enclosed with the product. Replacement parts installed in units under warranty will assume the original machine warranty remaining OR one year, whichever is longer. Note, warranty is for parts only. Freight or labor incurred is the responsibility of the homeowner. Refer to the warranty card enclosed with the product manual documentation.

Should a warranty claim for replacement parts be necessary, please complete the following procedure:

1. Replacement warranty parts are invoiced on order.
2. When defective parts are ready for return for warranty credit, complete RMA Form SM-01F noting the machine model, serial number, date and explanation of failure.
3. Fax completed form for authorization before returning defective parts to Airia. Defective parts being returned must have an authorized SM-01F to receive credit.
4. Upon authorization, return the completed form together with the defective part, Pre-Paid. U.S. returns should be sent via Postal service (versus courier).
5. Address your prepaid, insured package to: Airia Brands Inc, Attn: Returns, 511 McCormick Blvd, London, Ontario, Canada N5W 4C8. COD deliveries will not be accepted.
6. After completing the above, your account will be credited within 30 days.
Leading the Way to Total Home Comfort...

by improving your indoor air quality, and reducing energy consumption. Are you ready to step up to Lifebreath?

(Name of Dealer) carries our full line including our high efficiency Hydronic air handler with built-in air exchanger, the TFP HEPA Air Cleaner and the industry leading HRV with patented aluminum core.

Lifebreath products are designed for one reason - to give your home or business a healthier indoor air environment. Visit any of our locations and let (Name of Dealer) show you how.

Let us show you how to give your home or business a healthier indoor air environment.

Residential Warranty

We proudly stand behind our products with a Full Warranty.

LIFETIME on HRV aluminum cores
5 YEAR on ERV Enthalpic cores
5 YEAR on replacement components

Commercial Warranty

We proudly stand behind our products with a Full Warranty.

15 YEAR on HRV aluminum cores
5 YEAR on the ERV Enthalpic cores
2 YEAR limited on replacement components