

## Description:

Heat and Energy Recovery Ventilators are the complete whole house ventilation system designed to bring a continuous supply of fresh air into the house while exhausting an equal amount of stale air.

## Features

- 181 CFM airflow rate provides effective ventilation in apartment overcoming high pressure in condo tower duct systems.
- Cross flow core ensures up to 73% SRE.
- Slim casing design (9 1/8") is perfect for in-ceiling installation.
- Build in control board enables Supply and Exhaust fan independent speed adjustment from 0 to 100% right at the job side.
- Fast and simple mounting process thanks to brackets system.
- Automatic recirculation damper (R option) for effective cold protection.
- No drain needed (ERV).
- Up to 2.56 CFM/W (Energy Star requirement – 1.2 CFM/W).

## Casing

- Steel casing is covered with high-quality multilayer aluminium and zinc alloy to prevent corrosion. The casing is equipped with a switch to turn the ventilator off when the service panel is opened.

## Filter

- Washable MERV 6 air filters in exhaust and supply air streams.
- Optional supply: anti grease aluminum filter.

## Defrost system

- Defrost system is activated when the outdoor temperature falls below 23° F (-5° C).
- Recirculation defrost HRV/ERV 150R EC.
- Fan stop defrost HRV/ERV 150 EC.

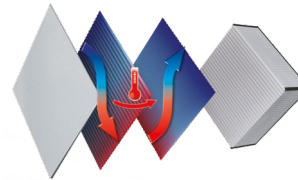
## Control

The unit incorporates an integrated automation and control system with following functions:

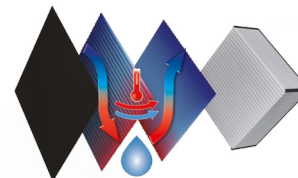
- Operation mode switch.
- Airflow balancing enabled by supply and exhaust fan independent speed adjustment from 0 to 100% (percentage is displayed on built in screen).
- Automatic recovery core frost protection.
- External control device connection (up to 5 at the same time).

## Heat recovery core

- Aluminum cross-flow core (HRV 150 (R) EC) ensures efficient heat recovery.



- Enthalpic core (ERV 150 (R) EC) provides both heat&humidity recovery. For enthalpic core no drain required.



## Fans

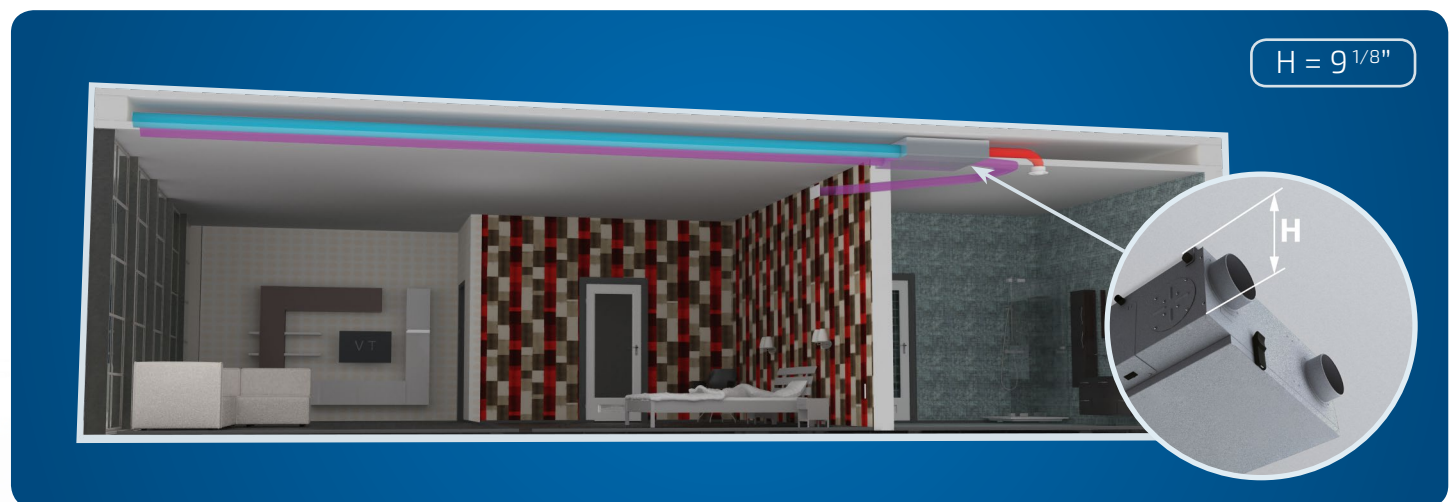
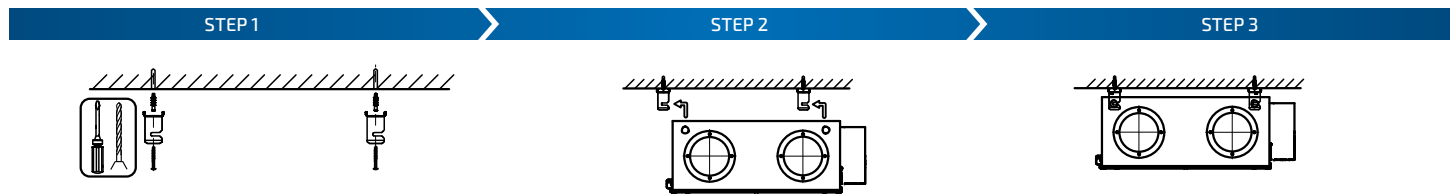
- High efficient electronically commutated motors with external motor and impeller with backward curved blades. EC motors are featured with high performance and total speed controllable range. The electric motors and impellers are dynamically balanced.

## Warranty

- 5 year warranty

## Mounting

- Due to low height of the casing the units offer perfect solution for the false ceiling installation in limited space.
- Brackets system makes mounting process easy and fast.



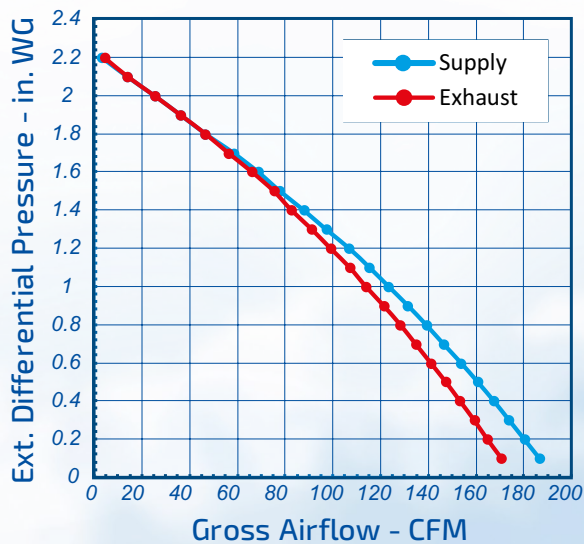
## Accessories



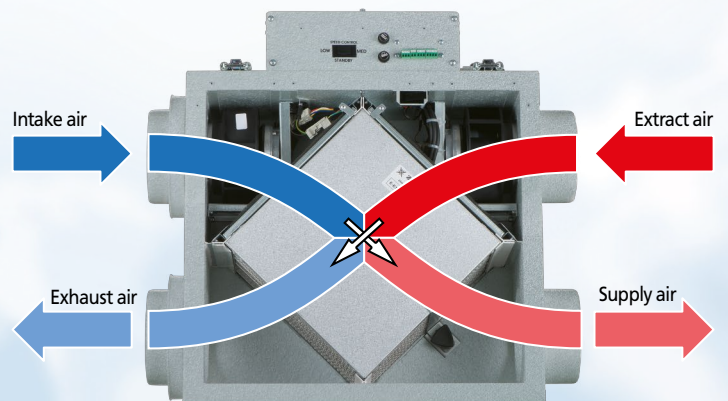
## Performance ERV 150 (R) EC

| External Static Pressure |          | Net Supply Air Flow |     | Gross Air Flow |     |         |     | Power |
|--------------------------|----------|---------------------|-----|----------------|-----|---------|-----|-------|
|                          |          |                     |     | Supply         |     | Exhaust |     |       |
| Pa                       | in. W.G. | L/s                 | cfm | L/s            | cfm | L/s     | cfm | Watts |
| 25                       | 0.1      | 85                  | 181 | 88             | 186 | 81      | 171 | 186   |
| 50                       | 0.2      | 82                  | 175 | 85             | 180 | 78      | 165 | 186   |
| 75                       | 0.3      | 80                  | 169 | 82             | 174 | 75      | 159 | 186   |
| 100                      | 0.4      | 77                  | 162 | 79             | 167 | 72      | 153 | 185   |
| 125                      | 0.5      | 74                  | 156 | 76             | 161 | 70      | 147 | 185   |
| 150                      | 0.6      | 70                  | 149 | 73             | 154 | 67      | 141 | 184   |
| 175                      | 0.7      | 67                  | 142 | 69             | 146 | 64      | 135 | 184   |
| 200                      | 0.8      | 64                  | 135 | 66             | 139 | 61      | 128 | 184   |
| 225                      | 0.9      | 55                  | 117 | 62             | 131 | 57      | 121 | 183   |
| 250                      | 1        | 52                  | 110 | 58             | 123 | 54      | 114 | 182   |
| 275                      | 1.1      | 49                  | 104 | 54             | 115 | 51      | 107 | 181   |
| 300                      | 1.2      | 45                  | 96  | 50             | 107 | 47      | 99  | 181   |
| 325                      | 1.3      | 42                  | 88  | 46             | 97  | 43      | 91  | 180   |
| 350                      | 1.4      | 38                  | 80  | 41             | 88  | 39      | 83  | 178   |
| 375                      | 1.5      | 34                  | 73  | 37             | 78  | 36      | 75  | 176   |
| 400                      | 1.6      | 30                  | 64  | 32             | 69  | 31      | 66  | 174   |
| 425                      | 1.7      | 26                  | 54  | 28             | 58  | 27      | 56  | 172   |
| 450                      | 1.8      | 21                  | 45  | 22             | 47  | 22      | 47  | 169   |
| 475                      | 1.9      | 16                  | 35  | 17             | 36  | 17      | 36  | 166   |
| 500                      | 2        | 12                  | 24  | 12             | 25  | 12      | 25  | 163   |
| 525                      | 2.1      | 6                   | 14  | 7              | 14  | 7       | 14  | 159   |
| 550                      | 2.2      | 2                   | 4   | 2              | 3   | 2       | 4   | 156   |

|                              |     | Supply Temperature |     | Net Airflow |     | Average Power (Watts) | Sensible Recovery Efficiency | Apparent Sensible Effectiveness | Net Moisture Transfer |
|------------------------------|-----|--------------------|-----|-------------|-----|-----------------------|------------------------------|---------------------------------|-----------------------|
|                              |     | °C                 | °F  | L/s         | cfm |                       |                              |                                 |                       |
| HEATING                      | I   | 0                  | 32  | 31          | 66  | 26                    | 73                           | 82                              | 0.46                  |
|                              | II  | 0                  | 32  | 46          | 97  | 42                    | 70                           | 78                              | 0.38                  |
|                              | III | 0                  | 32  | 50          | 107 | 52                    | 68                           | 75                              | 0.36                  |
|                              | IV  |                    |     |             |     |                       |                              |                                 |                       |
|                              | V   | -25                | -13 | 31          | 65  | 89                    | 63                           | 77                              | 0.37                  |
| ** Total Recovery Efficiency |     |                    |     |             |     |                       |                              |                                 |                       |
| COOLING                      | VI  | 35                 | 95  | 31          | 66  | 26                    | 50.1 **                      | 68                              | 0.42                  |



| Model       | Volts      | Max. Watts | Max. Amps |
|-------------|------------|------------|-----------|
| ERV 150R EC | 120V, 60Hz | 186        | 2.5       |



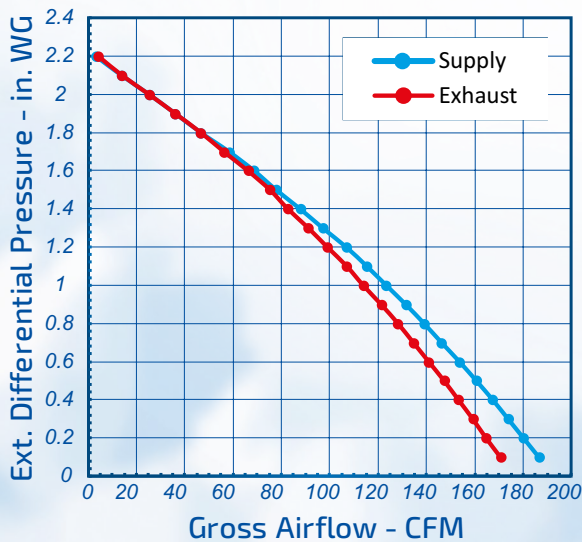
# Frigate HRV 150R EC, ERV 150R EC



## Performance HRV 150 (R) EC

| External Static Pressure |          | Net Supply Air Flow |     | Gross Air Flow |     |         |     | Power |
|--------------------------|----------|---------------------|-----|----------------|-----|---------|-----|-------|
| Pa                       | in. W.G. | L/s                 | cfm | Supply         |     | Exhaust |     | Watts |
|                          |          |                     |     | L/s            | cfm | L/s     | cfm |       |
| 25                       | 0.1      | 85                  | 181 | 88             | 186 | 81      | 171 | 186   |
| 50                       | 0.2      | 82                  | 175 | 85             | 180 | 78      | 165 | 186   |
| 75                       | 0.3      | 80                  | 169 | 82             | 174 | 75      | 159 | 186   |
| 100                      | 0.4      | 77                  | 162 | 79             | 167 | 72      | 153 | 185   |
| 125                      | 0.5      | 74                  | 156 | 76             | 161 | 70      | 147 | 185   |
| 150                      | 0.6      | 70                  | 149 | 73             | 154 | 67      | 141 | 184   |
| 175                      | 0.7      | 67                  | 142 | 69             | 146 | 64      | 135 | 184   |
| 200                      | 0.8      | 64                  | 135 | 66             | 139 | 61      | 128 | 184   |
| 225                      | 0.9      | 55                  | 117 | 62             | 131 | 57      | 121 | 183   |
| 250                      | 1        | 52                  | 110 | 58             | 123 | 54      | 114 | 182   |
| 275                      | 1.1      | 49                  | 104 | 54             | 115 | 51      | 107 | 181   |
| 300                      | 1.2      | 45                  | 96  | 50             | 107 | 47      | 99  | 181   |
| 325                      | 1.3      | 42                  | 88  | 46             | 97  | 43      | 91  | 180   |
| 350                      | 1.4      | 38                  | 80  | 41             | 88  | 39      | 83  | 178   |
| 375                      | 1.5      | 34                  | 73  | 37             | 78  | 36      | 75  | 176   |
| 400                      | 1.6      | 30                  | 64  | 32             | 69  | 31      | 66  | 174   |
| 425                      | 1.7      | 26                  | 54  | 28             | 58  | 27      | 56  | 172   |
| 450                      | 1.8      | 21                  | 45  | 22             | 47  | 22      | 47  | 169   |
| 475                      | 1.9      | 16                  | 35  | 17             | 36  | 17      | 36  | 166   |
| 500                      | 2        | 12                  | 24  | 12             | 25  | 12      | 25  | 163   |
| 525                      | 2.1      | 6                   | 14  | 7              | 14  | 7       | 14  | 159   |
| 550                      | 2.2      | 2                   | 4   | 2              | 3   | 2       | 4   | 156   |

|                              |     | Supply Temperature |     | Net Airflow |     | Average Power (Watts) | Sensible Recovery Efficiency | Apparent Sensible Effectiveness | Net Moisture Transfer |
|------------------------------|-----|--------------------|-----|-------------|-----|-----------------------|------------------------------|---------------------------------|-----------------------|
|                              |     | °C                 | °F  | L/s         | cfm |                       |                              |                                 |                       |
| HEATING                      | I   | 0                  | 32  | 31          | 66  | 26                    | 69                           | 78                              | 0.04                  |
|                              | II  | 0                  | 32  | 46          | 97  | 42                    | 67                           | 74                              | 0.05                  |
|                              | III | 0                  | 32  | 50          | 107 | 52                    | 65                           | 73                              | 0.05                  |
|                              | IV  |                    |     |             |     |                       |                              |                                 |                       |
|                              | V   | -25                | -13 |             |     |                       |                              |                                 |                       |
| ** Total Recovery Efficiency |     |                    |     |             |     |                       |                              |                                 |                       |
| COOLING                      | VI  | 35                 | 95  | 31          | 66  | 25.8                  | 40.2 **                      | 64                              | 0.04                  |

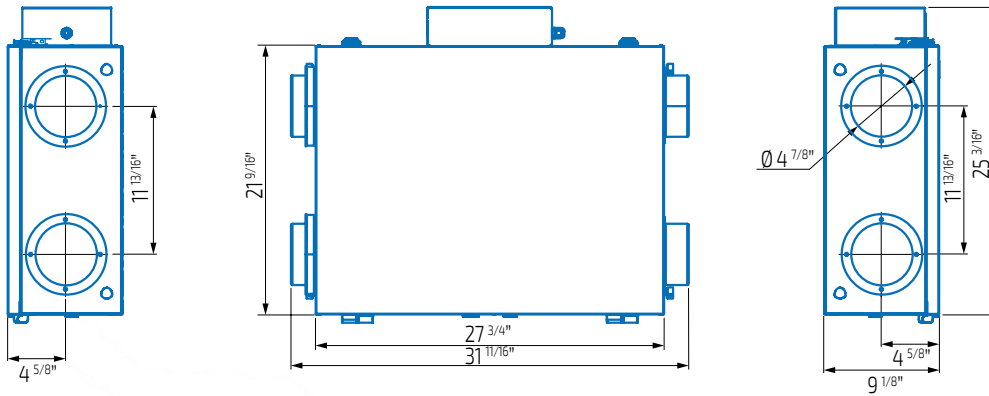


| Model       | Volts      | Max. Watts | Max. Amps |
|-------------|------------|------------|-----------|
| HRV 150R EC | 120V, 60Hz | 186        | 2.5       |



## Dimensions

FRIGATE HRV 150 EC | FRIGATE ERV 150 EC



FRIGATE HRV 150 R EC | FRIGATE ERV 150 R EC

