Frigate ERV 120R EC
ENERGY RECOVERY VENTILATION

DESCRIPTION
VENTS’ ERV 120 R EC 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. Five year warranty.

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

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

ENERGY RECOVERY CORE
Enthalpic core provides both heat & humidity recovery. For enthalpic core no drain required.

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

DEFROST SYSTEM
Recirculation or only exhaust defrost modes are available.

CONSTANT FLOW
Recirculation or only exhaust defrost modes are available. Frigate ERV 120 R EC CF has an automatic constant air flow control function to keep the air flow in supply and exhaust air ducts constant even in case of variable air resistance.
This function is provided with the integrated air flow control units. The electronic sensors convert the actual air flow to the analogue signal that is proportional to the air flow in the air duct. These signals are transmitted to the controller that controls the rotation speed of a respective fan in such a way that the actual rotations speed is equal to the set value.

MANUAL BALANCING
Manual balancing is a standard balancing system. Fan speed manually adjusted by operating on units controller (Built-in control panel with independent fan speed adjustment 0%-100%).

CONTROL BOARD
The unit incorporates an integrated 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).

SUITABLE FOR:
Bathroom / kitchen / apartments / cottages / small offices.

Tel: 888-640-0925 Sales@ventsus.com
513-348-3853 VentsUS.com
Fax: 513-268-4597 11013 Kenwood Road,
Cincinnati, Ohio 45242

2018/10
# Frigate ERV 120R EC

**ENERGY RECOVERY VENTILATION**

## PERFORMANCE

### EXTERNAL STATIC PRESSURE

<table>
<thead>
<tr>
<th>Pa</th>
<th>in. W.G.</th>
<th>L/s</th>
<th>CFM</th>
<th>L/s</th>
<th>CFM</th>
<th>L/s</th>
<th>CFM</th>
<th>Watts</th>
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### External Differential Pressure vs. Gross Airflow

- **Supply**
- **Exhaust**

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<th>MODE</th>
<th>SUPPLY TEMPERATURE</th>
<th>NET AIR FLOW</th>
<th>AVERAGE POWER</th>
<th>SENSIBLE RECOVERY EFFICIENCY</th>
<th>APPARENT SENSIBLE EFFECTIVENESS</th>
<th>NET MOISTURE TRANSFER</th>
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<td></td>
<td>°C</td>
<td>°F</td>
<td>L/s</td>
<td>CFM</td>
<td>(Watts)</td>
<td>SRE (%)</td>
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**Total Recovery Efficiency**

**Cooling**

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<th>°C</th>
<th>°F</th>
<th>L/s</th>
<th>CFM</th>
<th>(Watts)</th>
<th>SRE (%)</th>
<th>ASEF (%)</th>
<th>NET MOISTURE TRANSFER</th>
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<td>50</td>
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<td>62</td>
<td>0.34</td>
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**Indicates total recovery efficiency, not sensible recovery efficiency**

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**MODEL** | **Volts** | **Max. Watts** | **Max. Amps**
---|-----------------|----------------|-----------------|
ERV 120 R EC | 120V, 60Hz | 198 | 2.5

**SOUND**

- 1.5 Sones (30 L/s @ 0.2 in. W.G.)

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**Contact Information**

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DIMENSIONS

MODEL | QUANTITY | COMMENTS | PROJECT
--- | --- | --- | ---
location:
architect:
engineer:
contractor:
submitted by:

Supply filter
Control unit
Recirculation damper
FRESH AIR FROM OUTSIDE
Cross-flow heat recovery core
Extract fan
Backdraft damper
UTILIZED EXHAUST AIR
Recirculation unit
Condensate drain pipe
Extract filter

Supply fan
Swivel service panel

STALE AIR FROM ROOM
AIR SUPPLIED TO ROOM

Tel: 888-640-0925
Fax: 513-268-4597
Sales@ventsus.com
VentsUS.com
11013 Kenwood Road, Cincinnati, Ohio 45242

UL

Intertek

Hardi

HVI Member

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