**Frigate HRV 120R EC**

**DESCRIPTION**
VENTS’ HRV 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.

**HEAT RECOVERY CORE**
Polystyrene cross-flow core ensures efficient heat recovery.

**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 HRV 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.

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11013 Kenwood Road,  
Cincinnati, Ohio 45242  

**TECHNICAL DATA**

**PRODUCT SPECIFICATIONS**
## PERFORMANCE

<table>
<thead>
<tr>
<th>EXTERNAL STATIC PRESSURE</th>
<th>NET SUPPLY AIR FLOW</th>
<th>GROSS AIR FLOW</th>
<th>POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L/s</td>
<td>CFM</td>
<td>L/s</td>
</tr>
<tr>
<td>Pa</td>
<td>in. W.G.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>0.1</td>
<td>89</td>
<td>189</td>
</tr>
<tr>
<td>50</td>
<td>0.2</td>
<td>87</td>
<td>185</td>
</tr>
<tr>
<td>75</td>
<td>0.3</td>
<td>85</td>
<td>180</td>
</tr>
<tr>
<td>100</td>
<td>0.4</td>
<td>82</td>
<td>175</td>
</tr>
<tr>
<td>125</td>
<td>0.5</td>
<td>80</td>
<td>169</td>
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<tr>
<td>150</td>
<td>0.6</td>
<td>78</td>
<td>165</td>
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<tr>
<td>175</td>
<td>0.7</td>
<td>76</td>
<td>160</td>
</tr>
<tr>
<td>200</td>
<td>0.8</td>
<td>74</td>
<td>156</td>
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<tr>
<td>225</td>
<td>0.9</td>
<td>68</td>
<td>144</td>
</tr>
<tr>
<td>250</td>
<td>1</td>
<td>66</td>
<td>140</td>
</tr>
<tr>
<td>275</td>
<td>1.1</td>
<td>64</td>
<td>135</td>
</tr>
<tr>
<td>300</td>
<td>1.2</td>
<td>61</td>
<td>128</td>
</tr>
<tr>
<td>325</td>
<td>1.3</td>
<td>57</td>
<td>121</td>
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<td>350</td>
<td>1.4</td>
<td>52</td>
<td>110</td>
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<tr>
<td>375</td>
<td>1.5</td>
<td>43</td>
<td>91</td>
</tr>
<tr>
<td>400</td>
<td>1.6</td>
<td>30</td>
<td>64</td>
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<td>425</td>
<td>1.7</td>
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<tr>
<td>450</td>
<td>1.8</td>
<td>8</td>
<td>16</td>
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</tbody>
</table>

### SOUND

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

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**MODEL**

<table>
<thead>
<tr>
<th>Volts</th>
<th>Max. Watts</th>
<th>Max. Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRV 120R EC</td>
<td>120V, 60Hz</td>
<td>204</td>
</tr>
</tbody>
</table>

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## Frigate HRV 120R EC

**HEAT RECOVERY VENTILATION**

### PRODUCT SPECIFICATIONS

#### TECHNICAL DATA

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**Frigate HRV 120R EC**

### MODEL SPECIFICATIONS

<table>
<thead>
<tr>
<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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>°C °F L/s CFM (Watts)</td>
<td>SRE (%)</td>
<td>ASEF (%)</td>
<td><strong>Total Recovery Efficiency</strong></td>
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<td></td>
</tr>
<tr>
<td>HEATING</td>
<td>0 32 31 66 23</td>
<td>62</td>
<td>69</td>
<td>0.5</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>0 32 45 95 50</td>
<td>60</td>
<td>67</td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 32 50 106 66</td>
<td>58</td>
<td>65</td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>COOLING 35 95 31 66 23</td>
<td>37 **</td>
<td>61</td>
<td>0.04</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Recovery Efficiency**

**Indicates total recovery efficiency, not sensible recovery efficiency**

### DIMENSIONS

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**MODE**

**QUANTITY**

**COMMENTS**

**PROJECT**

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2018/10

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**UL**

**HVI MEMBER**

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**Intertek**

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2018/10