AUTOMATIC EXTRACT UNITS FOR DWELLINGS AND MULTI-ROOM DOMESTIC BUILDINGS

CJV/EW

- HIGH-EFFICIENCY (IE4) E.C. TECHNOLOGY MOTOR
- CONSTANT PRESSURE CONTROL
- ELECTRONIC VARIABLE SPEED DRIVE (VSD) INCLUDED
- F-400 CERTIFICATION (CJV/EW/T)

SODECA

ACCORDING ErP 2018
Better energy performance E.C. Technology
High-performance, high-efficiency motor and control combinations to optimise energy savings.

CONTROLLED MECHANICAL VENTILATION SYSTEM

The system uses an electrically driven fan to supply and extract air. Separate fans can be used to supply or extract or alternatively, a centralised system can be used to perform both functions at the same time.

Air intake can be located in rooms such as bedrooms and dining rooms with extract points through rooms such as kitchens and bathrooms. The system can also accommodate a heat recovery unit, to gather heat from the exhaust air which is then used to warm the supply air coming in from the outside, thus obtaining a significant reduction in energy use.

VENTILATION SYSTEMS FOR HOMES

Many countries have regulations that require dwelling places to have good internal air quality, with a supply of fresh outside air and exhaust of stale internal air.

The purpose of these regulations is to ensure that these types of buildings get good ventilation rates to prevent condensation and to contribute towards the health and wellbeing of the occupants.
The CJV/EW series of fans has been specially designed for controlled mechanical ventilation systems in multi-room or communal buildings.

The CJV/EW model is used to extract the air from bathrooms, kitchens and washrooms. The CJV/EW/T model can also be used as an extract fan and has F-400 certification, making it suitable for smoke extract in the event of a fire.

**HEAT RECOVERY UNIT IN HOMES**

This system allows each home to use its own dedicated heat recovery unit. With their high efficiency heat exchangers, these units can re-use 93% of the heat that would normally be lost.

**VENUS:** High-performance heat recovery units for residential buildings or homes. With a low power consumption and heat recovery efficiency of up to 93%. For technical ceiling installation.
**CJV/EW**

Extraction units with vertical air outlet and E.C. motors to automatically maintain constant pressure for use in domestic VMC systems.

**Fan:**
- Extractor fan units with vertical outlet and two circular inlets.
- Galvanised sheet steel casing.
- Impeller made of galvanised sheet steel.
- Comes with single-phase speed controller (variable speed drive).

**Motor:**
- High-efficiency (IE4) synchronous E.C. motors. Fitted with high-intensity neodymium magnets.
- Reliable, sensor free and maintenance free control.
- IP55 protection.
- Fan operating temperature: -25°C +60°C.
- CJV/EW-1800/T: Fan operating temperature: S1 -25°C +60°C continuous operation. 400°C/2 h S2 operation.
- Approved in accordance with standard EN 12101-3.

**Electronic variable speed drive:**
- Speed adjusted based on pressure setpoint.
- Automatic PI control built into the variable speed drive and differential pressure probe.
- Variable speed drive parameters easily configurable via Display and Keypad.
- Fitted with on/off isolator switch.
- Available with single-phase 220-240 V 50/60 Hz input.
- VSD operating temperature: -25°C +50°C.

**Finish:**
- Anti-corrosive galvanised finish for outside use.

On request:
- Fan with horizontal outlet.

### Technical characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Min/Max speed</th>
<th>Single-phase VSD 230 V 50/60 Hz</th>
<th>Maximum electric power</th>
<th>Sound pressure level min./max.</th>
<th>Approx. weight</th>
<th>According to ErP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>l/min</td>
<td>Maximum inlet current (A)</td>
<td>(W)</td>
<td>Lp dB(A)</td>
<td>(kg)</td>
<td></td>
</tr>
<tr>
<td>CJV/EW-1800</td>
<td>300/1800</td>
<td>5.2</td>
<td>660</td>
<td>21/60</td>
<td>35</td>
<td>2018</td>
</tr>
<tr>
<td>CJV/EW-1800/T</td>
<td>300/1800</td>
<td>5.2</td>
<td>660</td>
<td>21/60</td>
<td>35</td>
<td>2018</td>
</tr>
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</table>

### Acoustic characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>8000</th>
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</thead>
<tbody>
<tr>
<td>CJV/EW-1800</td>
<td>44</td>
<td>54</td>
<td>65</td>
<td>72</td>
<td>76</td>
<td>73</td>
<td>71</td>
<td>64</td>
</tr>
<tr>
<td>CJV/EW-1800/T</td>
<td>44</td>
<td>54</td>
<td>65</td>
<td>72</td>
<td>76</td>
<td>73</td>
<td>71</td>
<td>64</td>
</tr>
</tbody>
</table>

### Accessories

- Input and output kits
- Rectangular grilles
- Protective grilles
- Circular grilles
- Electric coils
- Butterfly valves
- Outlet nozzles
- Intake nozzles
- Inlet/discharge nozzles
- Over pressure blinds
- Air filter boxes
- Outlet nozzles for homes

See accessories section

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**AUTOMATIC EXTRACT UNITS FOR DWELLINGS AND MULTI-ROOM DOMESTIC BUILDINGS**
**Dimensions mm**

![Diagram of dimensions mm]

**Characteristic curves**

Flow rate in m³/h. | Static pressure in Pa. | Electrical power in W. | Irradiated sound pressure at 4 m.
--|--|--|--

![Graphs of characteristic curves]
High-performance heat recovery units for installation in residential buildings. With a low power consumption and heat recovery efficiency of up to 93%. For technical ceiling installation.

Finish:
- Body made of lightweight expanded polypropylene and with low noise emissions.
- Low profile for installation in false ceilings.
- 160 mm spigots (models 150 and 300) and 250 mm spigots (models 500 and 700).

Characteristics of all versions:
- Counterflow heat exchanger.
- Flow rate adjustment capacity through external control signal.
- Condensate purge system with built-in siphon.
- Access to filters and purging of condensates from the top and bottom.

Additional characteristics of E.C. version:
- 50/60 Hz compatible operation.
- F7 efficiency supply filters.
- High efficiency E.C. fans.
- Built-in digital remote control panel.
- Anti-freeze protection and free cooling.
- Multizone control through the optional connection of CO2, PIR (presence detection) and HR (relative humidity) sensors. ALL/NOTHING type signal.

### Version Control

#### Technical characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum flow rate (m³/h)</th>
<th>Total power (w)</th>
<th>Recovery efficiency (%)</th>
<th>Max. admissible current 220-240 V (A)</th>
<th>Irradiated 3 m sound level dB(A)</th>
<th>Weight (kg)</th>
<th>According to ErP</th>
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<tbody>
<tr>
<td>VENUS-150-AC</td>
<td>185</td>
<td>105</td>
<td>93</td>
<td>2 x 0.23</td>
<td>37.3</td>
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<tr>
<td>VENUS-150-EC</td>
<td>175</td>
<td>65</td>
<td>93</td>
<td>2 x 0.14</td>
<td>37.7</td>
<td>17.2</td>
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<td>VENUS-300-AC</td>
<td>265</td>
<td>145</td>
<td>93</td>
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<td>170</td>
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</tr>
<tr>
<td>VENUS-500-AC</td>
<td>515</td>
<td>230</td>
<td>93</td>
<td>2 x 0.5</td>
<td>47.1</td>
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<tr>
<td>VENUS-500-EC</td>
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<td>VENUS-700-AC</td>
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<tr>
<td>VENUS-700-EC</td>
<td>785</td>
<td>430</td>
<td>93</td>
<td>2 x 0.93</td>
<td>53.6</td>
<td>40.7</td>
<td>2018</td>
</tr>
</tbody>
</table>
### Dimensions mm

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENUS 150/300</td>
<td>1114</td>
<td>1000</td>
<td>1051</td>
<td>193</td>
<td>555</td>
<td>159</td>
<td>270</td>
<td>135</td>
<td>166</td>
<td>265</td>
<td>125</td>
</tr>
<tr>
<td>VENUS 500/700</td>
<td>1505</td>
<td>1391</td>
<td>1441</td>
<td>248</td>
<td>846</td>
<td>249</td>
<td>360</td>
<td>180</td>
<td>235</td>
<td>420</td>
<td>190</td>
</tr>
</tbody>
</table>

### Characteristic curves

- **AC**
  - $P_e$ (Pa) vs. $Q$ (m³/h)
  - Key:
    - 150
    - 300
    - 500
    - 700

- **EC**
  - $P_e$ (Pa) vs. $Q$ (m³/h)
  - Key:
    - 150
    - 300
    - 500
    - 100

### Installation

- **In false ceilings**
- **Floor mounted**

Enables settings to be chosen by turning the equipment 180°. Access to filters and purge from lower and upper part.

**AF**: Fresh external air  /  **IL**: Delivery of air to premises

**SV**: Exit of exhaust air  /  **EL**: Air extraction from premises