CJK/FILTER-EC

AIR PURIFYING UNITS

· PURIFIES INDOOR AIR
· DIFFERENT STAGES OF FILTERING
· UVc GERMICIDAL CHAMBER
· IDEAL FOR RETAIL AND OTHER PREMISES
· E.C. MOTOR TECHNOLOGY WITH LOW POWER CONSUMPTION
· 25 MM ACOUSTIC CASING
CJK/FILTER/EC

The CJK / FILTER / EC air purifying units have been designed for the movement, cleaning, odour removal and purification of air, **in high occupancy areas with high demands on soundproofing and versatility.**

**ENERGY SAVING**

The air inlet aperture has been designed to aid laminar air flow which, together with a dynamic pressure balancing chamber, helps to optimise efficiency.

**LOW SOUND LEVEL**

The 25mm thick noise reducing outer panels use bespoke, high quality insulating materials and make this ideal equipment for installation in areas where a low noise level is required.

**DURABILITY**

The outer panels of these units are made of pre-finished sheet metal with 40mm aluminium structural frames to maximise the life of the equipment, allowing it to be installed in outdoors corrosive areas. The installation of a rain cover is recommended to prevent entry of water.

**EASE OF INSTALLATION AND MAINTENANCE**

The access door allows quick access to clean the impeller and replace filters.
**FILTRATION STAGES**

The units incorporate two stages of F7 + F9 or F7 + HEPA H14 filtration, depending on the model, as well as an activated carbon filter for the elimination of odours, giving a combination with excellent filtration performance.

**EXAMPLE OF APPLICATION**

Indoor air purification

Capturing and purifying outdoor air

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**GERMICIDAL CHAMBER**

Depending on model, these purification units can be supplied with an integrated UVC ultraviolet germicidal chamber.
Air purifying units for circular ducts, with 25mm acoustic panels for noise reduction and E.C. motor Technology.

Characteristics:
• Frame made from 40mm profile aluminium.
• Outer panels made of 25 mm thick, high quality acoustic insulation, and pre-finished sheet metal.
• Backward curved impeller.
• Standard flanges on intake and discharge sides to facilitate installation in ducts.
• Filtration stages according to model:
  - F7 + F9
  - F7 + HEPA H14
  - Activated carbon filter odour removal.
• Control and alarm of dirty filters.
• Germicidal chamber with UVc (256 nm), depending on model.
• Inspection cover for maintenance and replacement of filters.
• Air inlet with diffusers to increase the efficiency of the fan.

Engine:
• High efficiency E.C. technology, external rotor motor, controllable by 0-10V signal.
• Single phase 200-240V~ 50 / 60Hz and three phase 380-480V~ 50 / 60Hz.
• Air temperature range of -25ºC to +60ºC.

Finish:
• Aluminium profile frame and pre-finished sheet metal with 25mm thick acoustically insulated panels.

On demand:
• Automatic control system.

Order code
CJK/FILTER/EC — 220 — F7+F9 — CG

Air purifying units for circular ducts
Impeller diameter in mm
Filter F7 + F9
Filter F7 + HEPA H14
Germicidal UVc chamber

Filters characteristics

<table>
<thead>
<tr>
<th>Filters</th>
<th>EN 779 Em</th>
<th>EN 1822</th>
<th>ISO 16890</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ISO ePM1</td>
<td>ISO ePM2</td>
<td>ISO ePM10</td>
</tr>
<tr>
<td>Q4</td>
<td>90%</td>
<td>-</td>
<td>&gt;90%</td>
</tr>
<tr>
<td>F7</td>
<td>90%</td>
<td>&gt;50%</td>
<td>&gt;65-95%</td>
</tr>
<tr>
<td>F9</td>
<td>95%</td>
<td>&gt;80%</td>
<td>&gt;95%</td>
</tr>
<tr>
<td>HEPA H14</td>
<td>&gt;99,995%</td>
<td>-</td>
<td>-</td>
</tr>
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</table>

Technical characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Recommended effective working area (m²)¹</th>
<th>Speed (r/min)</th>
<th>Power (W)</th>
<th>Power supply</th>
<th>Sound pressure level at 50% of max speed² dB(A)</th>
<th>Maximum flow (m³/h)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Filters (F7+F9)</td>
<td>Filters (F7+H14)</td>
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<td></td>
<td></td>
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<tr>
<td>CJK/FILTER/EC-220</td>
<td>85</td>
<td>3265</td>
<td>176</td>
<td>200-240V 50/60Hz 1Ph</td>
<td>36</td>
<td>850</td>
<td>-</td>
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<tr>
<td>CJK/FILTER/EC-250</td>
<td>120</td>
<td>2850</td>
<td>180</td>
<td>200-240V 50/60Hz 1Ph</td>
<td>38</td>
<td>1225</td>
<td>-</td>
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<tr>
<td>CJK/FILTER/EC-310</td>
<td>140</td>
<td>1920</td>
<td>175</td>
<td>200-240V 50/60Hz 1Ph</td>
<td>29</td>
<td>1450</td>
<td>510</td>
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<tr>
<td>CJK/FILTER/EC-400</td>
<td>220</td>
<td>130</td>
<td>1550</td>
<td>200-240V 50/60Hz 1Ph</td>
<td>38</td>
<td>2200</td>
<td>1300</td>
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<tr>
<td>CJK/FILTER/EC-500</td>
<td>300</td>
<td>325</td>
<td>1250</td>
<td>380-480V 50/60Hz 3Ph</td>
<td>36</td>
<td>2990</td>
<td>3250</td>
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</table>

¹ Recommended effective area with premises 3 meters high. ² Radiated sound pressure level in dB (A) at 1.5 m distance at maximum flow.

Technical characteristics of the UVc germicidal chamber

Depending on model, these purification units can integrate a germicidal chamber, built on the basis of UVc ultraviolet lamps in a 256 nm spectrum, a wave amplitude indicated to inactivate a wide variety of microorganisms by absorbing short wavelength energy through DNA and RNA. For specific types of viruses or bacteria that are affected by the radiation dose from the germicidal chamber, consult the specific document.

<table>
<thead>
<tr>
<th>Model</th>
<th>Number of lamps</th>
<th>Total electric power (W)</th>
<th>Total UVc radiation power (W)</th>
<th>Radiation dose* (µJ/cm²)</th>
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</thead>
<tbody>
<tr>
<td>CJK/FILTER/EC-220</td>
<td>6</td>
<td>66</td>
<td>16,8</td>
<td>6,0</td>
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<td>66</td>
<td>16,8</td>
<td>5,8</td>
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<tr>
<td>CJK/FILTER/EC-310</td>
<td>6</td>
<td>66</td>
<td>16,8</td>
<td>5,9</td>
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<td>4</td>
<td>100</td>
<td>28</td>
<td>5,6</td>
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<td>CJK/FILTER/EC-500</td>
<td>6</td>
<td>150</td>
<td>42</td>
<td>4,5</td>
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*Minimum dose calculated based on flow with F7HEPA H14 filters.
Information on Directive 2009/125 / EC downloadable from the SODECA website or QuickFan selection program.

**Erp. (Energy Related Products)**

**Acoustic characteristics**

<table>
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<tr>
<th>Model</th>
<th>63</th>
<th>125</th>
<th>250</th>
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<th>2000</th>
<th>4000</th>
<th>8000</th>
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<td>50</td>
<td>43</td>
<td>50</td>
<td>44</td>
<td>42</td>
<td>45</td>
<td>45</td>
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<tr>
<td>CJK/FILTER/EC-250</td>
<td>46</td>
<td>44</td>
<td>43</td>
<td>45</td>
<td>55</td>
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<td>34</td>
<td>30</td>
</tr>
<tr>
<td>CJK/FILTER/EC-310</td>
<td>30</td>
<td>44</td>
<td>33</td>
<td>32</td>
<td>44</td>
<td>25</td>
<td>24</td>
<td>19</td>
</tr>
<tr>
<td>CJK/FILTER/EC-400</td>
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<td>52</td>
<td>41</td>
<td>42</td>
<td>34</td>
<td>29</td>
<td>27</td>
<td>27</td>
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<tr>
<td>CJK/FILTER/EC-500</td>
<td>30</td>
<td>42</td>
<td>45</td>
<td>50</td>
<td>50</td>
<td>47</td>
<td>41</td>
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</tbody>
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**Dimensions mm**

**Accessories**

**Characteristic curves**

Q= Flow in m³/h, m³/s and cfm. Pe= Static pressure in mmH₂O, Pa and inwg.

**CJK/FILTER/EC-220**
Characteristic curves

Q = Flow in m³/h, m³/s and cfm.

Pe = Static pressure in mmH₂O, Pa and inwg.
Characteristic curves

$Q =$ Flow in m$^3$/h, m$^3$/s and cfm.  $P_e =$ Static pressure in mmH$_2$O, Pa and inwg.

**CJK/FILTER/EC-400**

**CJK/FILTER/EC-500**
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