Panasonic

Ventilating Fans & Air Moving Equipments

Better Ventilation Better Living
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What’s new in Panasonic Ventilating Fan?

1 Super long time
   • Ball bearing Motor
     Life time of motor is twice longer than old motor.
     Lubricated ball bearing reduce friction on its surface
   • Tough body
     Tough steel casing with resist rust coating.

2 Super safety
   • Thermal fuse
     Safety function to stop motor operation when motor temperature irregularly rise up.
   • Tough condenser box
     Fire proof material for safety.
   • Safety Lead wiring
     Locking lead wire to prevent short circuit.

3 Super quiet
   • Newly designed fan blade
     Smoother air flow by optimizing the blade shape design and reduce acrostic noise.
Ceiling Mount Type

Ventilating Fan

Super Quiet Series
4-8

DC Motor Series
9
Ceiling Mount Type Ventilating Fans

1. **Long life motor**
   60,000 hours operation with ball bearing. Fire proof plastic cover and thermal fuse

2. **Super Quiet**
   Reduce acrostatic noise with additional noise absorber

3. **Easy maintenance**
   Motor can be easily replaced by removing grille and fan blade

4. **Safety box**
   All electrical parts are equipped inside fire proof box on the top

5. **Tough steel casing**
   Corrosion tolerance with tough steel body

6. **Smart design grille**
   Flat design to fit ceiling
Ceiling Mount Type

Ventilating Fan

FV-17CUT3 / FV-17CHT3
Super Quiet Series
- Condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Pre-installed power cord
- Resonance-Noise-Absorption Structure
- High performance taper blade designed sirocco fan

Dimension
Unit: mm

Performance Data
(220V 50Hz)

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume</th>
<th>Input (W)</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Blade (Ø) (mm.)</th>
<th>Installation Space W x L (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-17CUT3</td>
<td>85</td>
<td>11</td>
<td>790</td>
<td>26</td>
<td>1.9</td>
<td>105</td>
<td>177 x 177</td>
</tr>
<tr>
<td>FV-17CHT3</td>
<td>100</td>
<td>13</td>
<td>980</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: The value in Specification tables are representative characteristic value at 220V, 50Hz.
R.P.M. data is for reference only, values may vary subject to different conditions.
The noise level is measured at 1 meter from fan.
Super Quiet Series
- Condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Pre-installed power cord
- Resonance-Noise-Absorption Structure
- High performance taper blade designed sirocco fan

Performance Data
(220V 50Hz)

<table>
<thead>
<tr>
<th>Model</th>
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<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Blade (Ø) (mm.)</th>
<th>Installation Space W x L (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-24CUT3</td>
<td>140 CMH</td>
<td>14</td>
<td>705</td>
<td>26</td>
<td>2.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>82 CFM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FV-24CDT3</td>
<td>170 CMH</td>
<td>17</td>
<td>790</td>
<td>31</td>
<td>3.0</td>
<td></td>
<td>148.5</td>
</tr>
<tr>
<td></td>
<td>100 CFM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>240 x 240</td>
</tr>
<tr>
<td>FV-24CHT3</td>
<td>210 CMH</td>
<td>25</td>
<td>960</td>
<td>37</td>
<td>3.0</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>124 CFM</td>
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<td></td>
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</table>

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Ceiling Mount Type

Ventilating Fan

FV-27CH9
Super Quiet Series
- High-Low speed selectable
- Condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Pre-installed power cord
- Resonance-Noise-Absorption structure
- High performance taper blade designed sirocco fan

Dimension
Unit : mm

Performance Data
(220V 50Hz)

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume</th>
<th>InWG (Pa)</th>
<th>Static Pressure</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Blade (Ø) (mm.)</th>
<th>Installation Space (W x L (mm.))</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-27CH9</td>
<td>Hi</td>
<td>330</td>
<td>0.8-200</td>
<td>28</td>
<td>570</td>
<td>34</td>
<td>190</td>
<td>270 x 270</td>
</tr>
<tr>
<td></td>
<td>Lo</td>
<td>260</td>
<td></td>
<td>23</td>
<td>480</td>
<td>30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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The noise level is measured at 1 meter from fan.
Ceiling Mount Type

Ventilating Fan

FV-32CD9 / FV-32CH9
Super Quiet Series
- High-Low speed selectable
- Condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Pre-installed power cord
- Resonance-Noise-Absorption structure
- High performance taper blade designed sirocco fan

Dimension
Unit: mm

Performance Data
(220V 50Hz)

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume</th>
<th>Static Pressure</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Blade (Ø) (mm.)</th>
<th>Installation Space W x L (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-32CD9</td>
<td>Hi</td>
<td>430 CMH</td>
<td>590</td>
<td>36</td>
<td>5.2</td>
<td>190</td>
<td>320 x 320</td>
</tr>
<tr>
<td></td>
<td>Lo</td>
<td>300 CMH</td>
<td>460</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FV-32CH9</td>
<td>Hi</td>
<td>530 CMH</td>
<td>710</td>
<td>41</td>
<td>5.6</td>
<td>190</td>
<td>320 x 320</td>
</tr>
<tr>
<td></td>
<td>Lo</td>
<td>400 CMH</td>
<td>570</td>
<td>34</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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The noise level is measured at 1 meter from fan.
Ceiling Mount Type

Ventilating Fan

FV-38CD8 / FV-38CH8
Super Quiet Series
- High-Low speed selectable
- Condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- High performance sirocco fan

Performance Data
(220V 50Hz)

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume (W)</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg)</th>
<th>Blade (mm)</th>
<th>Installation Space (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-38CD8</td>
<td>Hi 640</td>
<td>104</td>
<td>645</td>
<td>44</td>
<td>230</td>
<td>385 x 385</td>
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<tr>
<td></td>
<td>Lo 430</td>
<td>66</td>
<td>456</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FV-38CH8</td>
<td>Hi 800</td>
<td>140</td>
<td>790</td>
<td>50</td>
<td>230</td>
<td>385 x 385</td>
</tr>
<tr>
<td></td>
<td>Lo 525</td>
<td>89</td>
<td>540</td>
<td>40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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R.P.M. data is for reference only, values may vary subject to different conditions.
The noise level is measured at 1 meter from fan.
Ceiling Mount Type

Ventilating Fan

FV-24JR1 / FV-24JA1
DC Motor Series
- DC (Direct Current) motor
- Auto operation by motion sensor (FV-24JR1 only)
- Constant airflow-Variable air volume
- Delay timer
- Resonance-Noise-Absorption Structure

Dimension
Unit : mm

Performance Data
(220V 50Hz)

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume</th>
<th>Input (W)</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Installation Space W x L (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-24JA1</td>
<td>160 CMH</td>
<td>94 CFM</td>
<td>7.5</td>
<td>725</td>
<td>31</td>
<td>240 x 240</td>
</tr>
<tr>
<td>FV-24JR1</td>
<td>160 CMH</td>
<td>94 CFM</td>
<td>8.3</td>
<td>725</td>
<td>31</td>
<td>240 x 240</td>
</tr>
</tbody>
</table>

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R.P.M. data is for reference only, values may vary subject to different conditions.
The noise level is measured at 1 meter from fan.
Wall Mount Type

Ventilating Fan

- Bathroom Series
  - 12

- Shutter Series
  - 13

- Rain Hood Series
  - 13

- Filter Series
  - 14

- Normal Shutter Series
  - Reversible Series
  - 15

- Automatic Shutter Series
  - Reversible Series
  - 16
Compared with previous models, new models adopt high performance condenser motor and long life bearing that prolong the product durability, from average 30,000 hours life time to 60,000 hours. They also enable energy saving by reducing power consumption down to average 13%.

New blade design applies advance aerodynamic principle that minimizes any obstacles against the airflow. Air foil Chip is to reduce turbulence at rear edge, and curvature of front edge is improved for smooth airflow that minimizes fan noise as well.

Leading Edge forms no obstacle to airflow that streamlines airflow from every direction.

General Features

1. Advanced Blade Design
   New blade design applies advance aerodynamic principle that minimizes any obstacles against the airflow.

2. New HP Motor & Bearing
   Compared with previous models, new models adopt high performance condenser motor and long life bearing that prolong the product durability, from average 30,000 hours life time to 60,000 hours. They also enable energy saving by reducing power consumption down to average 13%.

These fans shall be installed in and exhaust air through a wall. They are equipped with outside shutters which will open when the fan is on and vice versa. There is a wide range of products, either blade size or functions, that can fit to various requirements.

Filter type collects oil effectively that is ideal for the use in kitchen. Louver Type provides additional safety protection from finger reach while Reversible Type extends the flexibility of utilization by selection of exhaust or intake. Metallic Type is suitable for the place in where resin ventilating fan cannot be used.

Wall Mount Type

Ventilating Fan
Wall Mount Type

Entry Bath Fan

New Features for Bathroom Series

1. Compact & Stylish

Compact size with powerful exhaust capacity can fit most bathrooms up to 7.5m³ and 15m³ respectively.

Moreover, the slim and elegant design of front louver match any modern décor perfectly.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-10EGS1T / FV-10EGK1T</td>
<td>176</td>
<td>170</td>
</tr>
<tr>
<td>FV-15EGS1T / FV-15EGK1T</td>
<td>230</td>
<td>220</td>
</tr>
</tbody>
</table>

2. Easy Installation

The Exhauster is well-designed to facilitate the installation of product. With the supplied accessories, only few steps are required to complete the set up of fan.

Shutter Series (For Vertical Shaft)

<table>
<thead>
<tr>
<th>STEP 1</th>
<th>STEP 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insert and fix from inside wall, then caulk</td>
<td>Connect power wires and fix fan</td>
</tr>
</tbody>
</table>

Only 2 steps for installation

- The fan can be mounted in the shaft of building which is used for exhausting air or ducting.
- Be sure to be secured duct space as shown below. Otherwise, the fan cannot perform as designed.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-10EGS1T</td>
<td>&gt;210mm</td>
</tr>
<tr>
<td>FV-15EGS1T</td>
<td>&gt;250mm</td>
</tr>
</tbody>
</table>

Rain Hood Series

<table>
<thead>
<tr>
<th>STEP 1</th>
<th>STEP 2</th>
<th>STEP 3</th>
<th>STEP 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insert and fix from inside wall, then caulk</td>
<td>Connect power wires and fix fan</td>
<td>Screw and fix from outside wall</td>
<td>Hang and fix pipe hood, then caulk</td>
</tr>
</tbody>
</table>

Only 4 steps for installation
Wall Mount Type
Entry Bath Fan

FV-10EGS1T / FV-15EGS1T
Shutter Series (for Vertical Shaft)
- Powerful exhaust of moisture and smell
- Compact and stylish design
- Back draft shutter
- All accessories are included for most convenience
- Easy installation

FV-10EGK1T / FV-15EGK1T
Rain Hood Series
- Powerful exhaust of moisture and smell
- Compact and stylish design
- Prevent trace caused by rain water
- All accessories are included for most convenience
- Easy installation
- Wall thickness 100-150mm

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume</th>
<th>Input (W)</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Grill Size W x L (mm.)</th>
<th>Installation Space W x L (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-10EGS1T</td>
<td>75</td>
<td>5.5</td>
<td>2,706</td>
<td>35</td>
<td>0.9</td>
<td>170 x 176</td>
<td>Ø120 -125</td>
</tr>
<tr>
<td>FV-15EGS1T</td>
<td>150</td>
<td>6.2</td>
<td>2,329</td>
<td>36</td>
<td>1.1</td>
<td>220 x 230</td>
<td>Ø165 -170</td>
</tr>
<tr>
<td>FV-10EGK1T</td>
<td>75</td>
<td>5.5</td>
<td>2,706</td>
<td>33</td>
<td>1.2</td>
<td>170 x 176</td>
<td>Ø135 ±5</td>
</tr>
<tr>
<td>FV-15EGK1T</td>
<td>160</td>
<td>6.2</td>
<td>2,329</td>
<td>34</td>
<td>1.5</td>
<td>220 x 230</td>
<td>Ø180 ±5</td>
</tr>
</tbody>
</table>

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Wall Mount Type

New Features for Filter Series

Perforated Aluminum Filter - Durable
The filter adopts aluminum material to assure excellent durability, and it is easy detachable for cleaning and maintenance.

Oil Collecting - Environmental Friendly
The perforated filter is processed with an easy-clean coating name “Hydrophobic Coating”. It is basically a paint composed of fluorine compound particles that have small affinity with water or oil. This material has low surface tension allowing oil droplets falling on without adhering to the material.

Easy Clean Coating - Convenient
The perforated aluminum filter is processed with an easy-clean coating name “Hydrophobic Coating”. It is basically a paint composed of fluorine compound particles that have small affinity with water or oil. This material has low surface tension allowing oil droplets falling on without adhering to the material.

FV-25FUT1
Filter Series
- Recommend to use in kitchen
- Automatic Shutter
- Perforated aluminum filter
- Large capacity oil cup
- Oil Indicator on oil cup
- High exhaust air volume under actual usage condition (20Pa)

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume (CMH)</th>
<th>Input (W)</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Grill Size W x L (mm.)</th>
<th>Installation Space W x L (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-25FUT1</td>
<td>835</td>
<td>34</td>
<td>1,100</td>
<td>42</td>
<td>2.8</td>
<td>351 x 371</td>
<td>300 x 300</td>
</tr>
</tbody>
</table>

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Wall Mount Type

Ventilating Fan

Normal Shutter Series

FV-20RUT2 / FV-25RUT2 / FV-30RUT2
Reversible Series
- HP condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Propeller fan incorporated with advanced blade design
(except FV-30AUT3 and FV-30RUT2)
- For reversible series, on-off and reversible function
  operated by pull cord switch

Dimension
Unit: mm

<table>
<thead>
<tr>
<th>Model No.</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>
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<tbody>
<tr>
<td>FV-15AST1</td>
<td>155</td>
<td>254</td>
<td>195</td>
<td>240</td>
<td>170</td>
<td>52</td>
<td>75</td>
<td>54</td>
</tr>
<tr>
<td>FV-20AYT1</td>
<td>208</td>
<td>306</td>
<td>260</td>
<td>302</td>
<td>240</td>
<td>52</td>
<td>90</td>
<td>60</td>
</tr>
<tr>
<td>FV-20AUT3</td>
<td>200</td>
<td>306</td>
<td>260</td>
<td>302</td>
<td>240</td>
<td>52</td>
<td>90</td>
<td>80</td>
</tr>
<tr>
<td>FV-25AUT3</td>
<td>250</td>
<td>356</td>
<td>310</td>
<td>352</td>
<td>290</td>
<td>38</td>
<td>90</td>
<td>63</td>
</tr>
<tr>
<td>FV-30AUT3</td>
<td>300</td>
<td>406</td>
<td>360</td>
<td>402</td>
<td>340</td>
<td>38</td>
<td>90</td>
<td>78</td>
</tr>
<tr>
<td>FV-20RUT2</td>
<td>200</td>
<td>306</td>
<td>260</td>
<td>302</td>
<td>240</td>
<td>52</td>
<td>90</td>
<td>80</td>
</tr>
<tr>
<td>FV-25RUT2</td>
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<td>310</td>
<td>352</td>
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<td>38</td>
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<tr>
<td>FV-30RUT2</td>
<td>300</td>
<td>406</td>
<td>360</td>
<td>402</td>
<td>340</td>
<td>38</td>
<td>90</td>
<td>78</td>
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</table>

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume CMH</th>
<th>Input (W)</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Grill Size W x L (mm.)</th>
<th>Installation space W x L (mm.)</th>
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</thead>
<tbody>
<tr>
<td>FV-15AST1</td>
<td>290</td>
<td>170</td>
<td>17.3</td>
<td>1,480</td>
<td>31.0</td>
<td>1.4</td>
<td>240 x 254</td>
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<tr>
<td>FV-20AYT1</td>
<td>380</td>
<td>224</td>
<td>15</td>
<td>1,385</td>
<td>36.5</td>
<td>2.0</td>
<td>302 x 306</td>
</tr>
<tr>
<td>FV-20AUT3</td>
<td>580</td>
<td>341</td>
<td>20</td>
<td>1,250</td>
<td>37.5</td>
<td>2.0</td>
<td>302 x 306</td>
</tr>
<tr>
<td>FV-25AUT3</td>
<td>920</td>
<td>541</td>
<td>27</td>
<td>1,100</td>
<td>39.0</td>
<td>2.4</td>
<td>352 x 356</td>
</tr>
<tr>
<td>FV-30AUT3</td>
<td>1,152</td>
<td>678</td>
<td>31</td>
<td>890</td>
<td>39.0</td>
<td>2.7</td>
<td>402 x 406</td>
</tr>
<tr>
<td>FV-20RUT2</td>
<td>EX</td>
<td>580</td>
<td>20</td>
<td>1,260</td>
<td>36.0</td>
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<td>302 x 306</td>
</tr>
<tr>
<td></td>
<td>IN</td>
<td>405</td>
<td>15</td>
<td>1,150</td>
<td>46.0</td>
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<tr>
<td>FV-25RUT2</td>
<td>EX</td>
<td>945</td>
<td>27</td>
<td>1,090</td>
<td>38.0</td>
<td>2.4</td>
<td>352 x 356</td>
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<tr>
<td></td>
<td>IN</td>
<td>600</td>
<td>21</td>
<td>1,010</td>
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<tr>
<td>FV-30RUT2</td>
<td>EX</td>
<td>1,164</td>
<td>31</td>
<td>885</td>
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<td>2.8</td>
<td>402 x 406</td>
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<tr>
<td></td>
<td>IN</td>
<td>698</td>
<td>24</td>
<td>760</td>
<td>43.0</td>
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</tbody>
</table>

Note: The value in Specification tables are representative characteristic value at 220V, 50Hz.
R.P.M. data is for reference only; values may vary subject to different conditions.
The noise level is measured at 1 meter from fan.
FV-20LUT3 / FV-25LUT3 / FV-30LUT1
Automatic Shutter Series

FV-20RLT2 / FV-25RLT2 / FV-30RLT1
Reversible Series

- HP condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Propeller fan incorporated with advanced blade design (except FV-30LUT1 and FV-30LUT1)
- For reversible series, on-off and reversible function operated by pull cord switch

Wall Mount Type
Ventilating Fan

FV-20LUT3 / FV-25LUT3 / FV-30LUT1
Automatic Shutter Series

FV-20RLT2 / FV-25RLT2 / FV-30RLT1
Reversible Series

- HP condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Propeller fan incorporated with advanced blade design (except FV-30LUT1 and FV-30LUT1)
- For reversible series, on-off and reversible function operated by pull cord switch

Dimension
Unit: mm

<table>
<thead>
<tr>
<th>Model No.</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>
</tr>
</thead>
<tbody>
<tr>
<td>FV-20LUT3</td>
<td>200</td>
<td>306</td>
<td>260</td>
<td>302</td>
<td>240</td>
<td>68</td>
<td>90</td>
<td>80</td>
</tr>
<tr>
<td>FV-25LUT3</td>
<td>250</td>
<td>356</td>
<td>310</td>
<td>352</td>
<td>290</td>
<td>63</td>
<td>90</td>
<td>63</td>
</tr>
<tr>
<td>FV-30LUT1</td>
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<td>406</td>
<td>360</td>
<td>402</td>
<td>340</td>
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<td>90</td>
<td>78</td>
</tr>
<tr>
<td>FV-20RLT2</td>
<td>200</td>
<td>306</td>
<td>260</td>
<td>302</td>
<td>240</td>
<td>68</td>
<td>90</td>
<td>80</td>
</tr>
<tr>
<td>FV-25RLT2</td>
<td>250</td>
<td>356</td>
<td>310</td>
<td>352</td>
<td>290</td>
<td>63</td>
<td>90</td>
<td>63</td>
</tr>
<tr>
<td>FV-30RLT1</td>
<td>300</td>
<td>406</td>
<td>360</td>
<td>402</td>
<td>340</td>
<td>63</td>
<td>90</td>
<td>78</td>
</tr>
</tbody>
</table>

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume</th>
<th>Input (W)</th>
<th>Speed (rpm)</th>
<th>Noise (dB(A))</th>
<th>Weight (Kg.)</th>
<th>Grill Size W x L (mm.)</th>
<th>Installation space W x L (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-20LUT3</td>
<td>546</td>
<td>321</td>
<td>20</td>
<td>1,190</td>
<td>40</td>
<td>2.2</td>
<td>302 x 306</td>
</tr>
<tr>
<td>FV-25LUT3</td>
<td>835</td>
<td>491</td>
<td>27</td>
<td>1,060</td>
<td>43</td>
<td>2.7</td>
<td>352 x 356</td>
</tr>
<tr>
<td>FV-30LUT1</td>
<td>930</td>
<td>547</td>
<td>31</td>
<td>820</td>
<td>43</td>
<td>3.1</td>
<td>402 x 406</td>
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<tr>
<td>FV-20RLT2</td>
<td>546</td>
<td>321</td>
<td>20</td>
<td>1,240</td>
<td>39</td>
<td>2.4</td>
<td>302 x 306</td>
</tr>
<tr>
<td>FV-25RLT2</td>
<td>840</td>
<td>494</td>
<td>29</td>
<td>1,040</td>
<td>43</td>
<td>2.7</td>
<td>352 x 356</td>
</tr>
<tr>
<td>FV-30RLT1</td>
<td>990</td>
<td>583</td>
<td>33</td>
<td>880</td>
<td>44</td>
<td>3.1</td>
<td>402 x 406</td>
</tr>
</tbody>
</table>

Note: The value in Specification tables are representative characteristic value at 220V, 50Hz.
R.P.M. data is for reference only, values may vary subject to different conditions.
The noise level is measured at 1 meter from fan.
Features for Cord-operated Shutter Series

1 High performance condenser motor with long life bearing
   • Low power consumption (50% down VS previous model)
   • Low noise level (6% down VS previous model)
   • Long life up to 40,000 hours (1.5 time VS previous model)
   • Comply with IPX4 (outside)

2 Advanced Blade Design
   • High Air Volume
   • Low noise level (6% down VS previous model)

   Leading Edge forms no obstacle to airflow that streamlines airflow from every direction

3 Advanced Blade Design
   • Durable
   • Sustainable to strong wind

   Metallic Shutter axis is used as the supporter for movement of shutter that provides a better endurance.

Air Foil Chip is to reduce turbulence at rear edge, and curvature of front edge is improved for smooth airflow that minimizes fan noise as well.
Window Mount Type

Ventilating Fan

**FV-15WUT4 / FV-20WUT4**

Cord-operated Shutter Series
- HP condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Propeller fan incorporated with advanced blade design
- Shutter operated by pull cord

<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>
</tr>
</thead>
<tbody>
<tr>
<td>FV-15WUT4</td>
<td>150</td>
<td>210</td>
<td>97</td>
<td>43</td>
<td>54</td>
<td>37</td>
<td>177</td>
<td>149</td>
</tr>
<tr>
<td>FV-20WUT4</td>
<td>200</td>
<td>271</td>
<td>98</td>
<td>36</td>
<td>62</td>
<td>36</td>
<td>237</td>
<td>201</td>
</tr>
</tbody>
</table>

**FV-20WAT1**

Automatic Shutter Series
- HP condenser motor with thermal cut-off
- Well lubricated bearing for long life operation
- Propeller fan incorporated with advanced blade design
- Automatic Shutter

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume</th>
<th>Input (W)</th>
<th>Speed (RPM)</th>
<th>Noise (dB(A))</th>
<th>Weight (kg.)</th>
<th>Installation Space (WxL)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CMH</td>
<td>CFM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FV-15WUT4</td>
<td>210</td>
<td>124</td>
<td>8.1</td>
<td>1,463</td>
<td>35</td>
<td>Ø 186 - 188</td>
</tr>
<tr>
<td>FV-20WUT4</td>
<td>360</td>
<td>212</td>
<td>16.4</td>
<td>1,042</td>
<td>32</td>
<td>Ø 247 - 250</td>
</tr>
<tr>
<td>FV-20WAT1</td>
<td>360</td>
<td>212</td>
<td>21.6</td>
<td>1,400</td>
<td>39</td>
<td>Ø 278 - 280</td>
</tr>
</tbody>
</table>

Note: The value in Specification tables are representative characteristic value at 220V, 50Hz.
R.P.M. data is for reference only, values may vary subject to different conditions.
The noise level is measured at 1 meter from fan.
High Pressure Industrial Type

Ventilating Fan

Shutter Series
21

Single Phase
Three Phase
High Pressure Series
22
High Pressure Industrial Type

Ventilating Fan

Features of High Pressure Series

1. High Static Pressure, Low Power Consumption
   The Unique design of wave-shaped blade and bellmouth construction enable better performance in high static pressure and low power consumption.

2. Low Noise Design
   The Blade’s distinctive wave-shaped is developed by application of hydrodynamic analysis. It can deliver a smooth and turbulence free airflow, meaning the performance in big volume but with less noise.

3. Improved Durability
   Pressure is distributed more uniformly over the surface of the blade, making it more durable. A special polyester resin powder coating give a beautiful color and a highly rust-resistant finishing.

FV-30KUT / FV-40KUT / FV-50AET2
Shutter Series
- Durable powder coating
- High performance motor with thermal cut-off
- Able to be used over an ambient temperature range from -10ºC to +50ºC

Dimension
Unit: mm

<table>
<thead>
<tr>
<th>Model No.</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>FV-30KUT</td>
<td>420</td>
<td>385</td>
<td>305</td>
<td>116</td>
<td>34</td>
<td>40</td>
<td>141</td>
<td>90</td>
<td>340</td>
<td>10</td>
<td>164</td>
</tr>
<tr>
<td>FV-40KUT</td>
<td>510</td>
<td>480</td>
<td>410</td>
<td>133</td>
<td>40</td>
<td>52</td>
<td>141</td>
<td>90</td>
<td>434</td>
<td>10</td>
<td>181</td>
</tr>
<tr>
<td>FV-50AET2</td>
<td>650</td>
<td>600</td>
<td>520</td>
<td>181</td>
<td>48</td>
<td>63</td>
<td>-</td>
<td>175</td>
<td>526</td>
<td>12</td>
<td>283</td>
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</table>
High Pressure Industrial Type

Ventilating Fan

Single Phase

Three Phase
FV-45GT4 / FV-50GT4 / FV-60GT4

High Pressure Series
- Reversible
- Bellmouth construction with distinctive wave-shaped blade
- Durable powder coating
- High performance motor with thermal cut-off
- Able to be used over an ambient temperature range from -10°C to +50°C
- Possible to install horizontally or vertically
- Remark: Wire guard, rain hood and shutter are supplied as accessories

Dimension
Unit : mm

Specification

Note: The value in Specification tables are representative characteristic value at 220V, 0V, 50Hz. R.P.M. data is for reference only, values may vary subject to different conditions.
Oscilating Type

Electric Fan

Wall Type
24

Auto Type
24

Industrial Type
24

Ceiling Type
25
### Oscilating Type

#### Electric Fan

### Wall Type

- 

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Blade Size (Inch)</th>
<th>Air Volume (CMM)</th>
<th>Air Volume (CFM)</th>
<th>Input (W)</th>
<th>Electricity (A)</th>
<th>Speed Control</th>
<th>Speed (rpm)</th>
<th>Weight (kg.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-BU16C</td>
<td>16</td>
<td>74</td>
<td>2,613</td>
<td>52</td>
<td>0.23</td>
<td>1,180</td>
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<td>4.1</td>
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<tr>
<td>F-BU16T1</td>
<td>16</td>
<td>73</td>
<td>2,578</td>
<td>53</td>
<td>0.25</td>
<td>1,180</td>
<td>4.5</td>
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<tr>
<td>F-BR16A</td>
<td>18</td>
<td>80</td>
<td>2,825</td>
<td>77</td>
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<td>1,150</td>
<td>4.4</td>
<td></td>
</tr>
</tbody>
</table>

Note: The values in specification tables are representative characteristic values at 220V, 50Hz and 1 phase.

### Auto Type

#### Electric Fan

- 

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Blade Size (Inch)</th>
<th>Air Volume (CMM)</th>
<th>Air Volume (CFM)</th>
<th>Input (W)</th>
<th>Electricity (A)</th>
<th>Speed Control</th>
<th>Speed (rpm)</th>
<th>Weight (kg.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-BQ16B</td>
<td>16</td>
<td>62</td>
<td>2,189</td>
<td>52</td>
<td>0.24</td>
<td>1,180</td>
<td>3</td>
<td>4.1</td>
</tr>
<tr>
<td>F-BC16B</td>
<td>16</td>
<td>62</td>
<td>2,189</td>
<td>52</td>
<td>0.24</td>
<td>1,180</td>
<td>3</td>
<td>4.1</td>
</tr>
</tbody>
</table>

Note: The values in specification tables are representative characteristic values at 220V, 50Hz and 1 phase.

### Industrial Type

#### Electric Fan

- 

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Volume (CMM)</th>
<th>Input (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-50KR1</td>
<td>120</td>
<td>105</td>
</tr>
<tr>
<td>Mid</td>
<td>150</td>
<td>116</td>
</tr>
<tr>
<td>Hi</td>
<td>190</td>
<td>146</td>
</tr>
</tbody>
</table>

Note: The values in specification tables are representative characteristic values at 220V, 50Hz and 1 phase.
Ceiling Type

Electric Fan

Features

1. Cut-off Safety Switch:
   To prevent the possibility of falling of fan.

2. Blade Safety Plate:
   To secure the falling of blade from wearing.

3. Safety Wire:
   To secure the fan motor with the ceiling hook.

Dimension

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Length</th>
<th>Setting Length (X)</th>
<th>Total Length (Y)</th>
<th>Blade Length (Z)</th>
<th>Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-BY1254</td>
<td>291</td>
<td>396</td>
<td>439</td>
<td>1,200</td>
<td></td>
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<tr>
<td>F-BY1454</td>
<td>291</td>
<td>353</td>
<td>439</td>
<td>1,400</td>
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</tbody>
</table>

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Blade Size (inch)</th>
<th>Air Volume (CMH)</th>
<th>Air Volume (CFM)</th>
<th>Input (W)</th>
<th>Electricity (A)</th>
<th>Speed (rpm)</th>
<th>Speed Control</th>
<th>Weight (kg.)</th>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Hi</td>
<td>Low</td>
<td></td>
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<tr>
<td>F-BY1254</td>
<td>48</td>
<td>9,300</td>
<td>5,474</td>
<td>69</td>
<td>45</td>
<td>257–314</td>
<td>116–158</td>
<td>5</td>
</tr>
<tr>
<td>F-BY1454</td>
<td>56</td>
<td>13,200</td>
<td>7,769</td>
<td>67</td>
<td>72</td>
<td>241–295</td>
<td>88–118</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: The values in specification tables are representative characteristic values at 220V, 50Hz, 1 phase.
Hand Dryer

Features

Safe Operation
- Power Dry will stop after 60 seconds of continuous operation
- ‘Check’ indicator will light up when the unit detects overheated

Quick Response Sensor
- Automatic sensor operation, no physical contact is required to activate the unit

Heater ON/OFF Switch
- Heater can be switched off for energy saving in hot season

Full Tank Indicator (FJ-T09A3 only)
- Remind you for cleaning up the water tank when it is full

Easy Installation
- Metal bracket for wall hanging attached
- Stylish and streamline design fits most interior

Anti-bacteria Material
- The product body is adopted with anti-bacteria material to prevent the growth of bacteria and germs in the warm and humid environment at washroom

Drain Pan (FJ-T09A3 only)
- Drain pan can reduce water dripping on floor to avoid slippery

Super sferora-buster Filter
- The filter is equipped to ensure the air blow to your hand is clean

Specification

<table>
<thead>
<tr>
<th></th>
<th>FJ-T09A3</th>
<th>FJ-T09B3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>220V 50Hz</td>
<td>220V 50Hz</td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumption [W]</td>
<td>Heater ON</td>
<td>1,020</td>
</tr>
<tr>
<td></td>
<td>Heater OFF</td>
<td>650</td>
</tr>
<tr>
<td>Air Velocity [m/s]</td>
<td>90 - 110</td>
<td></td>
</tr>
<tr>
<td>Drying Time [second]</td>
<td>4 - 9</td>
<td></td>
</tr>
<tr>
<td>Noise [dB(A)]</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>Drain Pan</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Weight [kg]</td>
<td></td>
<td>3.5</td>
</tr>
</tbody>
</table>

Dimension

Unit: mm
Air Curtain

FY-10ESN / FY-12ESN / FY-14ESN
(Standard Type-900 mm.)
FY-10ELN / FY-12ELN / FY-14ELN
(Extra Type-1200 mm.)

- Unique Sirocco fan design
- Either wall hanging or suspending from ceiling
- Air deflection vent for adjust air flow direction
- 2-speed changeover by push button switch
- ABS resin casing provides better weather resistance
- Optional suspending hanger available

<table>
<thead>
<tr>
<th>Length of unit</th>
<th>900mm (3 feet)</th>
<th>1200mm (4 feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY-10ESN</td>
<td>45–65</td>
<td>4.0–6.5</td>
</tr>
<tr>
<td>FY-10ELN</td>
<td>45–65</td>
<td>4.0–6.5</td>
</tr>
<tr>
<td>FY-12ESN</td>
<td>3.0–4.0</td>
<td>3.0–4.0</td>
</tr>
<tr>
<td>FY-12ELN</td>
<td>3.0–4.0</td>
<td>3.0–4.0</td>
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<tr>
<td>FY-14ESN</td>
<td>2.5–3.0</td>
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<tr>
<td>FY-14ELN</td>
<td>2.5–3.0</td>
<td>2.5–3.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Air velocity chart (m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hi speed 50Hz</td>
</tr>
</tbody>
</table>

<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>
</tr>
</thead>
<tbody>
<tr>
<td>FY-10ESN</td>
<td>900</td>
<td>50</td>
<td>400</td>
<td>120</td>
<td>63</td>
<td>205</td>
<td>226</td>
<td>250</td>
</tr>
<tr>
<td>FY-12ESN</td>
<td>1200</td>
<td>200</td>
<td>400</td>
<td>120</td>
<td>63</td>
<td>205</td>
<td>226</td>
<td>250</td>
</tr>
<tr>
<td>FY-14ESN</td>
<td>1200</td>
<td>200</td>
<td>400</td>
<td>120</td>
<td>63</td>
<td>205</td>
<td>226</td>
<td>250</td>
</tr>
<tr>
<td>FY-10ELN</td>
<td>900</td>
<td>50</td>
<td>400</td>
<td>120</td>
<td>63</td>
<td>205</td>
<td>226</td>
<td>250</td>
</tr>
<tr>
<td>FY-12ELN</td>
<td>1200</td>
<td>200</td>
<td>400</td>
<td>120</td>
<td>63</td>
<td>205</td>
<td>226</td>
<td>250</td>
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<tr>
<td>FY-14ELN</td>
<td>1200</td>
<td>200</td>
<td>400</td>
<td>120</td>
<td>63</td>
<td>205</td>
<td>226</td>
<td>250</td>
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</table>

<table>
<thead>
<tr>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Model</td>
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<tr>
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</tr>
<tr>
<td>FY-10ESN</td>
</tr>
<tr>
<td>FY-10ELN</td>
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<td>FY-14ESN</td>
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<td>FY-10ELN</td>
</tr>
<tr>
<td>FY-12ELN</td>
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<tr>
<td>FY-14ELN</td>
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</tbody>
</table>

Note: The value in Specification tables are representative characteristic value at 220V, 50Hz.
R.P.M. data is for reference only, values may vary subject to different conditions.
Panasonic Duct Type Air Moving Equipment

High Efficiency • Low Noise • Easy Installation

Select the proper models according to location, application and required air volume.

### Main Feature & Applicable Venue

- **Category**
  - Type
  - Air Volume
  - Applicable Location
  - Installation Method

- **Main Feature**
  - Noise
  - Static
  - Power Consumption
  - Dimension

- **Compact Axial Fan • Axial Flow Fan**
  - Compact Axial Flow Fan
  - Small-Med Air Volume (10 Models)
  - Hanging
  - Indoor

- **Centrifugal Fan**
  - Mini Sirocco Fan
  - Small-Med Air Volume (8 Models)
  - Indoor
  - Hanging

- **DUCT Type In-line Fan**
  - Low Noise Type
  - Small-Med Air Volume (8 Models)
  - Indoor
  - Hanging

  - Large Air Volume
  - Indoor
  - Hanging

- **Other Features**
  - High Static Pressure
  - Compact

- **Additional Info**
  - The models require to have low noise and be able to be installed in narrow space, such as ceiling.
  - Office, Meeting Room, Shop, Hall, Kitchen, Bathroom, Cellar, etc.

- **Additional Info**
  - The models require to have low static pressure and noise with large air volume and low power consumption.
  - Machinery Workshop, Workshop, Warehouse, etc.

- **Additional Info**
  - The models require to have compact size and be able to use in high static pressure with floor standing for general application.
  - Machinery Workshop, Workshop, Warehouse, Kitchen, Bathroom, Cellar, etc.
Work With Various Requirements -

Operation Static Pressure Range

<table>
<thead>
<tr>
<th>Operation Static Pressure Range</th>
<th>Air Volume Range (Central value to maximum value) (CMH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>50~400Pa</td>
</tr>
<tr>
<td>Single Phase</td>
<td></td>
</tr>
<tr>
<td>Low Noise Type Cabinet Fan</td>
<td></td>
</tr>
<tr>
<td>Three Phase</td>
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<tr>
<td>Compact Axial</td>
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</tr>
<tr>
<td>Adjustable Pitch Axial Flow Fan</td>
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<td>VDA</td>
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<tr>
<td>Mini Sirocco</td>
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<tr>
<td>Centrifugal Fan</td>
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<tr>
<td>FCS/FCD</td>
<td></td>
</tr>
<tr>
<td>BCS/BCD</td>
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</tr>
</tbody>
</table>

* Static pressure range around central value of air volume