ELICENT
advanced ventilation

CATALOGUE
GUIDELINES FOR A CORRECT VENTILATION

Selecting the correct fan

Extraction is always made from humid/polluted premises:
kitchens, laundries, toilets, bathrooms, bars... To choose the fan airflow needed
for a specific application, use the following calculation:

\[
\text{Airflow} = \text{volume of the room in m}^3 \times \text{number of air changes per hour}
\]

<table>
<thead>
<tr>
<th>Type of room</th>
<th>Air change per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchens</td>
<td>6 - 10</td>
</tr>
<tr>
<td>Bathrooms and shower rooms</td>
<td>8 - 12</td>
</tr>
<tr>
<td>Toilets</td>
<td>8 - 10</td>
</tr>
<tr>
<td>Public toilets</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Restaurants and bars</td>
<td>10 - 12</td>
</tr>
</tbody>
</table>

Setting the fan correctly

- Fans should always be mounted in the furthest window, wall or ceiling from
  the main source of air replacement to ensure airflow across the room and
  avoiding short circuiting of air movement.
- Air replacement should be ensured via internal grilles in the door, ceiling or wall.
- Fans should be located as high as possible in the window or wall nearest to
  smells or streams but not directly above eye-level grilles or cooker hoods.
- If installing in a bathroom, the fan must be located where it cannot be tou-
  ched by a person. Elicent range of 12 Volt SELV fans (Safety Extra Low Voltage)
  can be installed in zone 1.
  Fans with IPX4 protection can be installed in zone 2.
  Fans with an IPX2 protection must be installed in zone 3.

Choosing the right Elicent fan

<table>
<thead>
<tr>
<th>Axial Fans</th>
<th>Centrifugal fans</th>
<th>Centrifugal in-line fans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axial fans are designed to extract large volumes of low pressure air directly to the outside and over short distances (max. duct length 3 m). Suitable for wall, window, duct and ceiling application.</td>
<td>Centrifugal fans are designed to extract air over long distances and to overcome the resistance of long length and curved ducting. Suitable for wall, ceiling, roof (MRF) application.</td>
<td>Centrifugal in-line fans have a powerful centrifugal impeller and their special shaped housing allows the air to be drawn over its axis (inline). Suitable for duct installation.</td>
</tr>
</tbody>
</table>

Elicent wall axial fans:
Elegance - E-Style - Ecoline - Minstyle - Built-in

Elicent window axial fans:
Vitro

Elicent centrifugal fans:
Elix - Elprex - Radia - Flux - Chef - EXT - MRF

Elicent centrifugal in-line range:
AXL - AXIC1P - AXIM
Choosing the right Elicent version

<table>
<thead>
<tr>
<th>TYPE OF PREMISE</th>
<th>STANDARD</th>
<th>PULL CORD SWITCH</th>
<th>TIMER/COMFORTIMER</th>
<th>MHT/COMFORT HYGRO</th>
<th>MHY SMART</th>
<th>PIR</th>
<th>2 SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOILET</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>PUBLIC TOILET</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>BATHROOM</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>SHOWER ROOM</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>KITCHEN</td>
<td>✗</td>
<td>✗</td>
<td>✔</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td>✗</td>
</tr>
<tr>
<td>LAUNDRY</td>
<td>✔</td>
<td>✔</td>
<td>✗</td>
<td>✔</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>OFFICE</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td>✗</td>
</tr>
</tbody>
</table>

IDEAL SOLUTION ✔ SUITABLE ✗ NOT RECOMMENDED

STANDARD version

Light/remote control switch.

PULL CORD switch

TIMER

Integral electronic timer adjustable from 3 to 25 minutes.

COMFORTIMER

Microchip Timer version adjustable from 3 to 25 mn with overrunning at low speed for an energy saving up to 64% compared to a standard timer version. The low speed guarantees increased silence and energy saving though maintaining a fully satisfying exhausting efficiency. Version particularly suitable for hotels, hospitals, private homes and for all those applications where silence is a must.

MHY Smart humidity control

Provided with the latest microchip technology. Operation: automatic and progressive increase / decrease of the motor speed according to the percentage of R.H.

COMFORT HYGRO

Combines to Comfortimer technology a microchip humidity sensor adjustable from 40 to 80% of R.H.

P.I.R.

Passive infra-red sensor with integral adjustable timer from 3 to 25 minutes.

12 VOLT

Low voltage version.

2 V

Double speed version (24 hours running at the lowest speed).

EC MOTOR

High efficiency, electronically controlled, brushless motor.

Operation

Product Specification

INSTALLATION

Direct exhaust to the outside

Ducted installation

CERTIFICATIONS

IMQ approved

Product compliance with EC Directive

PROTECTION

Double insulation - Class II earth connection not required

International Protection rating

Splash proof protection (EN 60335-2-80)

Drop protection (EN 60335-2-80)

Maximum operating temperature
## VENTILATION WITH HEAT RECOVERY

**REC Smart - Single Room HRU**

## EXTRACT VENTILATION

### Centralized extract ventilation

- MICROBOX
- MULTIBOX
- AXM
- EXT
- MRF
- AXC
- AXC TP

### Decentralized extract ventilation

**AXIAL FANS**

- ELEGANCE
- E-STYLE PRO - E-STYLE TREND
- ECOLINE
- MINISTYLE

- TUBO
- BUILT-IN
- VITRO

### CENTRIFUGAL FANS

- ELIX
- ELPREX
- FLUX
- RADIA
HEAT RECOVERY UNITS

SAVINGS  WELLBEING  PROTECTING YOUR PROPERTY  COMFORT

Decentralized HRU

- 3 models with duct diameter 100 mm and 3 standard lengths for wall thickness up to 600 mm.
- Suitable for any kind of room. Ideal for wet rooms like kitchens and bathrooms.
- Easy to install: no ducting system or heavy masonry required. A hole of ø100 mm is sufficient.
- Ideal for refurbishment and energy requalification.
- Drastic solution to humidity and condensate problems.
- EC motors

RECsmart+  Full optional version with remote control or touch panel.

Versions

STANDARD version

24/7 running at the minimum speed.
The unit switches at the highest speed through a manual command or a remote control (switch, push button or RLS controller). The highest speed is provided with a timer (adjustable from 0 to 30 minutes). At the end of the delay running, the fans automatically turn back to the minimum speed.

MHY Version

24/7 running at the minimum speed.
The unit switches to the highest speed automatically through the humidity sensor. The maximum speed is reached progressively according to the humidity level of the room. Once the humidity goes under the pre-set level (adjustable from 40 to 90% of R.H.), the unit automatically switches to the minimum speed. Also the MHY version is provided with a timer adjustable from 0 to 30 minutes for the manual boost at the maximum speed. The function is useful in case it is necessary to have the fan running at the maximum speed independently from the humidity level.
For single rooms up to 40 m²

ERCE SMART

Heat Recovery Unit

Decentralized single room Heat Recovery Unit

For single rooms up to 40 m²

- Easy to install: no ducting system or heavy masonry required. A hole of ø 100 mm is sufficient.
- Ideal for refurbishment and energy requalification.
- Drastic solution to humidity and condensate problems.
- EC motors.

ACCESSORY

RLS 2V
- ON/OFF switch
- Min / Max Speed
See pag. 62

VERSUS

STANDARD Version
- 3 models with duct ø 100 mm and 3 standard lengths for wall thickness up to 600 mm.
- Suitable for any kind of room. Ideal for wet rooms like kitchens and bathrooms.
- Extremely compact and versatile: can be installed in horizontal or vertical position.
- High energy saving thanks to EC motors
- Integrate by-pass and antifreeze functions.
- Provided with 3 filters: the air is filtered in both flows before entering the heat exchanger.
- Easy maintenance and cleaning: filters and heat exchanger are removable and washable.
- Comply with EN 60335-2-80, B.T. 2006/95/CE, EMC 2004/108/CE.

OPERATION

- Tubular heat exchanger with separate flows for a perfect hygiene.
- Balanced double flow, 24/7 running.

FEATURES

- 3 models with duct ø 100 mm and 3 standard lengths for wall thickness up to 600 mm.
- Suitable for any kind of room. Ideal for wet rooms like kitchens and bathrooms.
- Extremely compact and versatile: can be installed in horizontal or vertical position.
- High energy saving thanks to EC motors
- Integrate by-pass and antifreeze functions.
- Provided with 3 filters: the air is filtered in both flows before entering the heat exchanger.
- Easy maintenance and cleaning: filters and heat exchanger are removable and washable.
- Comply with EN 60335-2-80, B.T. 2006/95/CE, EMC 2004/108/CE.

MHY Version
- Humidity control

Also the MHY version is provided with a timer adjustable from 0 to 30 minutes for the manual boost at the maximum speed. The function is useful in case it is necessary to have the fan running at the maximum speed independently from the humidity level (see point III standard version).
**REC SMART+** is the full optional version of REC Smart, available in a range composed of 6 models, with Radio Control (RC versions) or Touch Panel Control (TC versions). The new version is available with the 3 length units (400, 500 and 600 mm).

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DUCT LENGTH (mm)</th>
<th>CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC Smart Plus 400 RC</td>
<td>400</td>
<td>Radio Control</td>
</tr>
<tr>
<td>REC Smart Plus 500 RC</td>
<td>500</td>
<td>Radio Control</td>
</tr>
<tr>
<td>REC Smart Plus 600 RC</td>
<td>600</td>
<td>Radio Control</td>
</tr>
<tr>
<td>REC Smart Plus 400 TC</td>
<td>400</td>
<td>Touch Panel Control</td>
</tr>
<tr>
<td>REC Smart Plus 500 TC</td>
<td>500</td>
<td>Touch Panel Control</td>
</tr>
<tr>
<td>REC Smart Plus 600 TC</td>
<td>600</td>
<td>Touch Panel Control</td>
</tr>
</tbody>
</table>

All models of REC Smart+ are provided with by-pass, antifreeze and Humidity control functions. They are designed for a 24 hours running at the minimum speed.

The boost can be activated:
- **manually** through the remote radio control or Touch panel (RLS 2V)
- **automatically** through the humidistat or the weekly programming on the Touch Panel

**Rec Smart Plus RC- Radio Control**
The models are supplied with a radio control. The heat recovery is provided with 3 different running lights (LED) that indicate the operation mode of the ventilation unit, including a sleep mode and an extract ventilation operation mode.

**Rec Smart Plus TC- Touch Control**
The models are supplied with a remote and coloured screen Touch Panel Control. Through the panel it is possible to manage the speed and some indoor comfort parameters like temperature and humidity level.
REMOVE THE MOULD AND BREATH A HEALTHIEST AIR!
RESIDENTIAL AND COMMERCIAL EXTRACT VENTILATION

Centralized extract ventilation

High efficiency central ventilation solutions for air extract: the stale air is exhausted from humid rooms (kitchen, bathroom, toilets, laundry). The fresh air is supplied by specific air entrance points.

- High energy efficiency with EC motors.
- Designed for ease of installation and low noise running
- All models available with EC motors.

New advanced AC versions of Multibox and Microbox with VSD controller or VSD + remote control

Decentralized extract ventilation - Design and Performance

ELEGANCE
Axial fans
EC MOTOR

ELPREX
Centrifugal fans
EC MOTOR (Elix)

eSmile
Powerflow fans
LOW WATT

WALL
CEILING
MULTIPLE DUCT
SINGLE DUCT
WALL
CEILING
DUCT
**MICROBOX**

Whole-house mechanical extract ventilation
Super-slim centrifugal box

- **High energy saving**
- **SUPER-SLIM**
- **Extreme ease of installation and maintenance**
- **All versions are speed controllable**

Comply with ErP Directive and UE Regulation 1253/2014
Ventilation Unit (VU)

- **RLS 1WR**
  - Suitable for Microbox EC. See pag. 62
  - Supplied with Microbox Control

- **RLS 3V**
  - Suitable for Microbox 3V. See pag. 62
  - Supplied with Microbox Control+

---

**VERSIONS**

- **MICROBOX 3V**
  - AC motor
  - 3 speed version with continuous running at the minimum speed.
  - Speed are controllable through the accessory RLS 3V (not supplied)

- **MICROBOX CONTROL**
  - AC motor
  - Speed controllable through the new VSD controller in a range from 100 to 246 m³/h.
  - The VSD is supplied with the fan.

- **MICROBOX CONTROL +**
  - AC motor
  - Speed controllable through the new VSD and remote controllers in a range from 100 to 246 m³/h.
  - The VSD and the remote control are supplied with the fan.

- **MICROBOX EC**
  - EC motor
  - Speed controllable through the accessory RLS 1WR (not supplied) in a range from 125 to 310 m³/h.

---

**ACCESSORIES**

**SUPPLIED**

- **VSD**
  - Supplied with Microbox Control

---

**DIMENSIONS (mm)**

- **TYPE**
  - **A**
  - **B**
  - **C**
  - **D**
  - **E**
  - **F**
  - **Kg**

| MICROBOX | 241 | 384 | 446 | 135 | 125 | 80 | 5,9 |
Comply with ErP Directive and UE Regulation 1253/2014
Ventilation Unit (VU)

- High energy saving
- Provided with 3xØ80 + 1xØ125 mm inlet spigots and 1xØ125mm outlet spigot
- Silent operation
- Extreme ease of installation and maintenance
- Silent operation thanks to acoustic insulation lining
- All versions speed controllable

**VERSIONS**

- **MULTIBOX 3V**
  - AC motor
  - 3 speed version with continuous running at the minimum speed.
  - Speed are controllable through the accessory RLS 3V (not supplied)

- **MULTIBOX CONTROL**
  - AC motor
  - Speed controllable through the new VSD controller in a range from 100 to 246 m³/h.
  - The VSD is supplied with the fan.

- **MULTIBOX CONTROL +**
  - AC motor
  - Speed controllable through the new VSD and remote controllers in a range from 100 to 246 m³/h.
  - The VSD and the remote control are supplied with the fan.

- **MULTIBOX EC**
  - EC motor
  - Speed controllable through the accessory RLS 1WR (not supplied) in a range from 125 to 310 m³/h.

**ACCESSORIES**

- **RLS 1WR**
  - Suitable for Microbox EC.
  - See pag. 62

- **RLS 3V**
  - Suitable for Microbox 3V.
  - See pag. 62

**SUPPORTED**

- VSD
  - Supplied with Multibox Control

- Remote Control
  - Supplied with Multibox Control+

**CURVES**

- MULTIBOX 3V
- MULTIBOX CONTROL
- MULTIBOX CONTROL+
- MULTIBOX EC

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Ø E</th>
<th>Ø F</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULTIBOX</td>
<td>345</td>
<td>437</td>
<td>523</td>
<td>174</td>
<td>125</td>
<td>80</td>
<td>6,2</td>
</tr>
</tbody>
</table>

*Lp(A) measured at 3m in open field 230V-50Hz.
Mixed flow In-line duct fans

Duct fans, entirely made of polypropylene.
- For direct installation between ducts.
- Easy inspection and maintenance by simply opening the clamp and removing the fan.
- Helicocentrifugal mixed flow impeller with downstream stator. Made in ABS.
- Asynchronous motor, 2 and 3 speeds, depending on model.
- IP 44 Protection, Motor Class B.
- Robust motor with ball bearings, maintenance-free.
- 220 - 240 V at 50 Hz.
- Speed control using phase control or transformer (exception: Version with timer).
- Thermal overload protection as a standard feature.
- Externally fitted terminal box with cable entry grommet.

<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>l/s</th>
<th>W</th>
<th>A</th>
<th>dB(A)* at 3 m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lw</td>
</tr>
<tr>
<td>AXM 100</td>
<td>160/250</td>
<td>44/69</td>
<td>35</td>
<td>0.1/0.18</td>
<td>55</td>
</tr>
<tr>
<td>AXM 125</td>
<td>180/280</td>
<td>50/83</td>
<td>36</td>
<td>0.1/0.18</td>
<td>54</td>
</tr>
<tr>
<td>AXM 150</td>
<td>340/480</td>
<td>94/133</td>
<td>70</td>
<td>0.27/0.36</td>
<td>66</td>
</tr>
<tr>
<td>AXM 160</td>
<td>340/480</td>
<td>94/133</td>
<td>70</td>
<td>0.27/0.36</td>
<td>65</td>
</tr>
<tr>
<td>AXM 200</td>
<td>720/920/910</td>
<td>200/226/253</td>
<td>75</td>
<td>0.24/0.27/0.34</td>
<td>58</td>
</tr>
</tbody>
</table>

* Lp(A) measured at 3m in open field 230V-50Hz.

BENEFITS
- High efficiency resulting in minimum energy costs.
- Quiet running thanks to optimized aerodynamics and guide vanes.
- Easy installation: pre-installed mounting brackets and external connection box.
- Simplified maintenance by loosening the clamps (no need to handle the duct).
- Versatile installation.

VERSIONS
- Timer

ACCESSORIES
- R10
  Electronic speed controller max load 1A

- RS
  4 steps speed controller with transformer max load 0.37 A

- RVS
  5 steps speed controller with transformer max load 0.5 A

See pag. 62

Comply with ErP Directive 2009/125/CE and EU Regulation 327/2011. FAN.
**Centrifugal fans for outdoor installation**

High performance centrifugal fans for outdoor installation.

- Ideal in environments where aesthetics, space or noise level are of concern.
- Easy and cost-effective solution for a centralized ventilation requirement.
- 8 models Ø100 to 200 mm
- Steel housing with epoxy finish.
- Ball bearing motor. Backward curved blades.

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>A</th>
<th>dB(A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXT 100</td>
<td>217</td>
<td>60</td>
<td>269</td>
<td>28</td>
<td>0,13</td>
<td>44</td>
</tr>
<tr>
<td>EXT 125</td>
<td>269</td>
<td>75</td>
<td>299</td>
<td>28</td>
<td>0,13</td>
<td>44</td>
</tr>
<tr>
<td>EXT 150 A</td>
<td>426</td>
<td>118</td>
<td>322</td>
<td>56</td>
<td>0,24</td>
<td>56</td>
</tr>
<tr>
<td>EXT 150 B</td>
<td>708</td>
<td>197</td>
<td>467</td>
<td>119</td>
<td>0,48</td>
<td>59</td>
</tr>
<tr>
<td>EXT 160 A</td>
<td>433</td>
<td>120</td>
<td>309</td>
<td>56</td>
<td>0,24</td>
<td>56</td>
</tr>
<tr>
<td>EXT 160 B</td>
<td>755</td>
<td>210</td>
<td>486</td>
<td>120</td>
<td>0,53</td>
<td>61</td>
</tr>
<tr>
<td>EXT 200 A</td>
<td>793</td>
<td>220</td>
<td>486</td>
<td>120</td>
<td>0,53</td>
<td>61</td>
</tr>
<tr>
<td>EXT 200 B</td>
<td>908</td>
<td>252</td>
<td>609</td>
<td>158</td>
<td>0,70</td>
<td>65</td>
</tr>
</tbody>
</table>

* LpA measured at 3m in open field 230V-50Hz.

**INSTALLATION**


**Residential Ventilation Unit.**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>ØE</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXT 100</td>
<td>260</td>
<td>355</td>
<td>92</td>
<td>131</td>
<td>98</td>
<td>4,8</td>
</tr>
<tr>
<td>EXT 125</td>
<td>260</td>
<td>355</td>
<td>92</td>
<td>131</td>
<td>122</td>
<td>4,8</td>
</tr>
<tr>
<td>EXT 150 A</td>
<td>260</td>
<td>355</td>
<td>92</td>
<td>131</td>
<td>148</td>
<td>5</td>
</tr>
<tr>
<td>EXT 150 B</td>
<td>360</td>
<td>450</td>
<td>116</td>
<td>155</td>
<td>184</td>
<td>7,4</td>
</tr>
<tr>
<td>EXT 160 A</td>
<td>260</td>
<td>355</td>
<td>92</td>
<td>131</td>
<td>158</td>
<td>5</td>
</tr>
<tr>
<td>EXT 160 B</td>
<td>360</td>
<td>450</td>
<td>116</td>
<td>155</td>
<td>184</td>
<td>7,4</td>
</tr>
<tr>
<td>EXT 200 A</td>
<td>360</td>
<td>450</td>
<td>116</td>
<td>155</td>
<td>198</td>
<td>7,4</td>
</tr>
<tr>
<td>EXT 200 B</td>
<td>360</td>
<td>450</td>
<td>116</td>
<td>155</td>
<td>198</td>
<td>7,4</td>
</tr>
</tbody>
</table>

**CURVES**
Centrifugal roof fans

- High performance centrifugal fans for roof installation.
- Compact sizes, available with or without square roof curb.
- Easy and cost-effective solution for a centralized ventilation requirement.
- 7 models Ø100 to 315 mm
- Made in aluminium and steel sheet with epoxy finish, highly resistant to atmospheric agents.
- Ball bearing motor.

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>A</th>
<th>dB(A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRF100</td>
<td>318</td>
<td>88</td>
<td>415</td>
<td>74</td>
<td>0.22</td>
<td>52</td>
</tr>
<tr>
<td>MRF125</td>
<td>342</td>
<td>96</td>
<td>395</td>
<td>75</td>
<td>0.22</td>
<td>52</td>
</tr>
<tr>
<td>MRF150</td>
<td>579</td>
<td>161</td>
<td>459</td>
<td>80</td>
<td>0.37</td>
<td>52</td>
</tr>
<tr>
<td>MRF160</td>
<td>736</td>
<td>204</td>
<td>515</td>
<td>116</td>
<td>0.47</td>
<td>54</td>
</tr>
<tr>
<td>MRF200</td>
<td>794</td>
<td>280</td>
<td>503</td>
<td>120</td>
<td>0.48</td>
<td>55</td>
</tr>
<tr>
<td>MRF250</td>
<td>866</td>
<td>240</td>
<td>602</td>
<td>203</td>
<td>0.65</td>
<td>51</td>
</tr>
<tr>
<td>MRF315</td>
<td>1222</td>
<td>339</td>
<td>838</td>
<td>247</td>
<td>1.10</td>
<td>55</td>
</tr>
</tbody>
</table>

*Models with square roof curb

**INSTALLATION**


**VERSIONS**

- MRF
- MRF with square roof curb

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>D1</th>
<th>D2</th>
<th>H</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Kg</th>
<th>Kg*</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRF100</td>
<td>98</td>
<td>333</td>
<td>225</td>
<td>300</td>
<td>265</td>
<td>36</td>
<td>3.1</td>
<td>4.6</td>
</tr>
<tr>
<td>MRF125</td>
<td>122</td>
<td>333</td>
<td>225</td>
<td>300</td>
<td>265</td>
<td>36</td>
<td>3.1</td>
<td>4.6</td>
</tr>
<tr>
<td>MRF150</td>
<td>147</td>
<td>405</td>
<td>266</td>
<td>400</td>
<td>360</td>
<td>36</td>
<td>4.2</td>
<td>6.2</td>
</tr>
<tr>
<td>MRF160</td>
<td>157</td>
<td>405</td>
<td>266</td>
<td>400</td>
<td>360</td>
<td>36</td>
<td>5.5</td>
<td>6.8</td>
</tr>
<tr>
<td>MRF200</td>
<td>198</td>
<td>405</td>
<td>266</td>
<td>400</td>
<td>360</td>
<td>36</td>
<td>6</td>
<td>7.3</td>
</tr>
<tr>
<td>MRF250</td>
<td>248</td>
<td>405</td>
<td>266</td>
<td>400</td>
<td>360</td>
<td>36</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>MRF315</td>
<td>314</td>
<td>484</td>
<td>322</td>
<td>400</td>
<td>360</td>
<td>36</td>
<td>7</td>
<td>10</td>
</tr>
</tbody>
</table>

* Models with square roof curb

**CURVES**

- MRF 100
- MRF 125
- MRF 150
- MRF 160
- MRF 200
- MRF 250
- MRF 315

*LpA measured at 3m in open field 230V-50Hz.
High performance centrifugal fans for in-line duct installation.

- Easy and cost-effective solution for a centralized ventilation requirement.
- 11 models Ø100 to 315 mm.
- Steel housing with epoxy finish inside and outside.
- Ball-bearing motor. Backward curved blades.

**Indoor fans**


<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>A</th>
<th>dB(A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXC 100 A</td>
<td>260</td>
<td>72</td>
<td>333</td>
<td>50</td>
<td>0.23</td>
<td>36</td>
</tr>
<tr>
<td>AXC 100 B</td>
<td>260</td>
<td>72</td>
<td>333</td>
<td>50</td>
<td>0.23</td>
<td>36</td>
</tr>
<tr>
<td>AXC 125 A</td>
<td>337</td>
<td>94</td>
<td>189</td>
<td>29</td>
<td>0.14</td>
<td>33</td>
</tr>
<tr>
<td>AXC 125 B</td>
<td>337</td>
<td>94</td>
<td>189</td>
<td>29</td>
<td>0.14</td>
<td>33</td>
</tr>
<tr>
<td>AXC 150 A</td>
<td>537</td>
<td>149</td>
<td>406</td>
<td>80</td>
<td>0.37</td>
<td>39</td>
</tr>
<tr>
<td>AXC 150 B</td>
<td>537</td>
<td>149</td>
<td>406</td>
<td>80</td>
<td>0.37</td>
<td>39</td>
</tr>
<tr>
<td>AXC 160 A</td>
<td>365</td>
<td>101</td>
<td>203</td>
<td>29</td>
<td>0.14</td>
<td>31</td>
</tr>
<tr>
<td>AXC 160 B</td>
<td>754</td>
<td>209</td>
<td>476</td>
<td>110</td>
<td>0.50</td>
<td>38</td>
</tr>
<tr>
<td>AXC 200</td>
<td>807</td>
<td>214</td>
<td>541</td>
<td>122</td>
<td>0.65</td>
<td>40</td>
</tr>
<tr>
<td>AXC 250</td>
<td>1141</td>
<td>313</td>
<td>745</td>
<td>159</td>
<td>0.90</td>
<td>43</td>
</tr>
<tr>
<td>AXC 315</td>
<td>1439</td>
<td>400</td>
<td>742</td>
<td>260</td>
<td>1.14</td>
<td>43</td>
</tr>
<tr>
<td>AXC 355 A</td>
<td>2200</td>
<td>611</td>
<td>902</td>
<td>240</td>
<td>1.12</td>
<td>43</td>
</tr>
<tr>
<td>AXC 355 B</td>
<td>2350</td>
<td>653</td>
<td>902</td>
<td>240</td>
<td>1.12</td>
<td>43</td>
</tr>
</tbody>
</table>

* dB(A) measured at 3m in open field 230V-50Hz.

**Available for extra UE markets only without CE marking.**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>ØD</th>
<th>Ød</th>
<th>E</th>
<th>Kg</th>
<th>A</th>
<th>dB(A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXC 100 A</td>
<td>125</td>
<td>245</td>
<td>245</td>
<td>98</td>
<td>38</td>
<td>3</td>
</tr>
<tr>
<td>AXC 100 B</td>
<td>125</td>
<td>245</td>
<td>245</td>
<td>98</td>
<td>38</td>
<td>3</td>
</tr>
<tr>
<td>AXC 125 A</td>
<td>125</td>
<td>245</td>
<td>245</td>
<td>122</td>
<td>38</td>
<td>3</td>
</tr>
<tr>
<td>AXC 125 B</td>
<td>125</td>
<td>245</td>
<td>245</td>
<td>122</td>
<td>38</td>
<td>3</td>
</tr>
<tr>
<td>AXC 150 A</td>
<td>125</td>
<td>245</td>
<td>245</td>
<td>147</td>
<td>38</td>
<td>3</td>
</tr>
<tr>
<td>AXC 150 B</td>
<td>125</td>
<td>245</td>
<td>245</td>
<td>147</td>
<td>38</td>
<td>3</td>
</tr>
<tr>
<td>AXC 160 A</td>
<td>245</td>
<td>245</td>
<td>245</td>
<td>157</td>
<td>38</td>
<td>3</td>
</tr>
<tr>
<td>AXC 160 B</td>
<td>245</td>
<td>245</td>
<td>245</td>
<td>157</td>
<td>38</td>
<td>3</td>
</tr>
<tr>
<td>AXC 200</td>
<td>333</td>
<td>333</td>
<td>333</td>
<td>198</td>
<td>38</td>
<td>5</td>
</tr>
<tr>
<td>AXC 250</td>
<td>333</td>
<td>333</td>
<td>333</td>
<td>198</td>
<td>38</td>
<td>5</td>
</tr>
<tr>
<td>AXC 315</td>
<td>404</td>
<td>404</td>
<td>404</td>
<td>314</td>
<td>38</td>
<td>8</td>
</tr>
<tr>
<td>AXC 355 A</td>
<td>484</td>
<td>484</td>
<td>484</td>
<td>355</td>
<td>38</td>
<td>12</td>
</tr>
<tr>
<td>AXC 355 B</td>
<td>484</td>
<td>484</td>
<td>484</td>
<td>355</td>
<td>38</td>
<td>12</td>
</tr>
</tbody>
</table>

**Axial fans**

Permissible sound levels for wall fixation brackets.
AXC TP

Centrifugal in line duct fans
TP Version

- Lightweight and silent
- Made in self-extinguishing V2 technopolymer
- Backward curved blades and ball bearing motor provided with thermal cut-out
- 4 models with Ø from 100 to 160 mm
- IMQ mark on models 150 and 160

PERFORMANCES

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DUCT Ø mm</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>A</th>
<th>W</th>
<th>dB (A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXC 100 TP</td>
<td>100</td>
<td>211</td>
<td>58</td>
<td>263</td>
<td>0,127</td>
<td>27</td>
<td>36,1</td>
</tr>
<tr>
<td>AXC 125 TP</td>
<td>125</td>
<td>265</td>
<td>73</td>
<td>251</td>
<td>0,129</td>
<td>27</td>
<td>37,1</td>
</tr>
<tr>
<td>AXC 150 TP</td>
<td>150</td>
<td>415</td>
<td>115</td>
<td>301</td>
<td>0,290</td>
<td>65</td>
<td>38,1</td>
</tr>
<tr>
<td>AXC 160 TP</td>
<td>160</td>
<td>431</td>
<td>120</td>
<td>294</td>
<td>0,284</td>
<td>65</td>
<td>39,1</td>
</tr>
</tbody>
</table>

*LpA measured at 3m in open field 230V-50Hz.

DIMENSIONS (mm)

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>B</th>
<th>ø C</th>
<th>ø D</th>
<th>Kg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXC 100 TP</td>
<td>238</td>
<td>25</td>
<td>98</td>
<td>212</td>
<td>1,5</td>
</tr>
<tr>
<td>AXC 125 TP</td>
<td>238</td>
<td>25</td>
<td>123</td>
<td>212</td>
<td>1,5</td>
</tr>
<tr>
<td>AXC 150 TP</td>
<td>232</td>
<td>28</td>
<td>147</td>
<td>253</td>
<td>2</td>
</tr>
<tr>
<td>AXC 160 TP</td>
<td>232</td>
<td>28</td>
<td>157</td>
<td>253</td>
<td>2</td>
</tr>
</tbody>
</table>

INSTALLATION

CURVES


* LpA measured at 3m in open field 230V-50Hz.
To exhaust air directly to the outside or into a short length ducting (max 3 m length).

- Suitable for toilets, bathrooms, WC’s, shower-rooms, utility rooms and kitchens.
- Innovative design with flat cover and lateral intake.
- Provided with ball bearing motor long Life 30,000 hours and backdraught shutters.
- Advanced profile which optimizes the fluid dynamic performance of the fan.

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>PROTECTION</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB(A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard - Timer - Pull cord - MHY smart</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEGANCE 100</td>
<td>IPX4</td>
<td>90</td>
<td>25</td>
<td>42</td>
<td>14</td>
<td>31,4</td>
</tr>
<tr>
<td>ELEGANCE 120</td>
<td>IPX4</td>
<td>165</td>
<td>46</td>
<td>55</td>
<td>15</td>
<td>36,7</td>
</tr>
<tr>
<td>ELEGANCE 150</td>
<td>IPX4</td>
<td>315</td>
<td>87</td>
<td>71</td>
<td>25</td>
<td>43,9</td>
</tr>
<tr>
<td>Comfortimer - 2 speed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEGANCE 100</td>
<td>IPX4</td>
<td>90 / 58</td>
<td>25 / 16</td>
<td>42 / 21</td>
<td>14 / 6</td>
<td>31,4 / 27,4</td>
</tr>
<tr>
<td>ELEGANCE 120</td>
<td>IPX4</td>
<td>165 / 103</td>
<td>46 / 29</td>
<td>55 / 21</td>
<td>15 / 8</td>
<td>36,7 / 28,4</td>
</tr>
<tr>
<td>ELEGANCE 150</td>
<td>IPX4</td>
<td>315 / 182</td>
<td>87 / 50</td>
<td>71 / 16</td>
<td>25 / 13</td>
<td>43,9 / 39,5</td>
</tr>
</tbody>
</table>

* Lp(A) measured at 3m in open field 230V-50Hz.

**VERSIONS**

- **STANDARD** - On/off through light or remote control switch
- **PULL CORD** - On/off through pull cord switch
- **TIMER** - Integral electronic timer adjustable from 3 to 25 minutes
- **COMFORTIMER** - Overrun timer at low speed
- **MHY** - Smart Humidity control automatic progressive increase/decrease of fan speed according to the percentage of R.H.
- **2 SPEED** - 24 hours running at the lowest speed
- **2 SPEED MHT** - 2 speed MHT with humidity control

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>ØB</th>
<th>C</th>
<th>D</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEGANCE 100</td>
<td>160</td>
<td>96</td>
<td>80</td>
<td>38</td>
<td>0,9</td>
</tr>
<tr>
<td>ELEGANCE 120</td>
<td>180</td>
<td>119</td>
<td>91</td>
<td>44</td>
<td>1,1</td>
</tr>
<tr>
<td>ELEGANCE 150</td>
<td>200</td>
<td>149</td>
<td>105</td>
<td>56</td>
<td>1,3</td>
</tr>
</tbody>
</table>

**CURVES**

**ELEGANCE**

- 100
- 120
- 150

- Q(m³/h) vs Pa
- Q(l/s) vs Q(m³/h)
ELEGANCE EC 2V

- Energy efficient EC motor.
- Choice of 2 low speeds at installation.
- Provides low level continuous ventilation to control condensation.
- For any domestic wet room.
- Low noise levels and running costs.
- Wall, ceiling or window (with additional window kit) installation.

GENERAL FEATURES

- Exhausts directly to the outside (through wall, or window installation with additional window kit, or with medium length ducting - up to 6m).
- Runs continuously at pre-selected choice of two speeds (fixed at installation).
- Speed 1 operates at 31 m³/h (9 l/s) (factory set).
- Speed 2 operates at 54 m³/h (15 l/s).
- Anti-vibration gasket.
- Speed boosted to maximum 99 m³/h (27.5 l/s) using integral pull cord or by:
  - Remote switch/light switch
  - Remote PIR sensor
  - Humidistat
- Patented anti-turbulence deflectors ensure very low noise levels and optimum performance.
- Energy saving ventilation.
- Extremely low running costs.
- Low carbon footprint.

TECHNICAL FEATURES

- Shockproof, high quality technopolymer casing.
- Designed using latest wind tunnel technology and CFD simulations.
- EC induction motor with thermal protection.
- 43,000 hour life motors with maintenance free and long life ball bearings.
- Operates in ambient temperatures up to 40°C.
- Double insulated - no earth required.
- IPX4 - Splashproof rated - can safely be installed in Zones I and II.

VERSIONS

**EC 2V DT**
24 hours running at low speed (selectable between 2 at installation). Speed boosts to maximum via control switch. The maximum speed is provided with a timer (adjustable from 0 to 30 minutes) which activation can be delayed up to 2 minutes to avoid unnecessary night-time operation at the highest speed. (DT option, selectable at installation).

**EC 2V HDT**
24 hours running at low speed (selectable between 2 at installation). Speed boosts to maximum automatically or manually:
- automatically via humidistat (adjustable from 40 to 90% of R.H). The fan switches back to the low speed when the humidity level goes beneath the pre-selected threshold and once concluded the pre-selected overrun via timer (adjustable from 0 to 30 min).
- manually via control switch (remote or pull cord). The fan switches back to the low speed once concluded the pre-selected overrun via timer (adjustable from 0 to 30 min). The activation of the timer can be delayed up to 2 minutes to avoid unnecessary night-time operation at the highest speed. (DT option, selectable at installation).

All EC models (100 2 speed, 2V DT, 2V HDT) are also available in SELV version, low voltage 12V.
### PERFORMANCE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AIRFLOW m³/h - l/s</th>
<th>POWER - Watt</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Speed 1</td>
<td>Speed 2</td>
<td>max</td>
</tr>
<tr>
<td>ELEGANCE 100 EC 2V</td>
<td>31 / 9</td>
<td>54 / 15</td>
<td>99 / 27,5</td>
</tr>
</tbody>
</table>

*Lp(A) measured at 3m in open field 230V-50Hz.

### CURVES

![ELEGANCE EC CURVES](image)

### DIMENSIONS (mm)

![DIMENSIONS](image)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>ØB</th>
<th>C</th>
<th>D</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEGANCE 100 EC 2V</td>
<td>160</td>
<td>98</td>
<td>80</td>
<td>38</td>
<td>0,9</td>
</tr>
</tbody>
</table>

### INSTALLATION

- Wall installation
- Ceiling installation
Ultra-Slim wall axial fans

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-STYLE 90</td>
<td>80</td>
<td>22</td>
<td>23</td>
<td>10</td>
<td>30,1</td>
</tr>
<tr>
<td>E-STYLE 100</td>
<td>95</td>
<td>26</td>
<td>42</td>
<td>14</td>
<td>31,4</td>
</tr>
<tr>
<td>E-STYLE 120</td>
<td>165</td>
<td>46</td>
<td>55</td>
<td>15</td>
<td>36,7</td>
</tr>
<tr>
<td>E-STYLE 150</td>
<td>295</td>
<td>82</td>
<td>71</td>
<td>25</td>
<td>43,9</td>
</tr>
</tbody>
</table>

*Lp(A) measured at 3m in open field 230V-50Hz.

**CURVES**

**INSTALLATION**

- To exhaust air directly to the outside or into a short length ducting (max 3 m length).
- Suitable for toilets, bathrooms, WC’s, shower-rooms, utility rooms and kitchens.
- Provided with back draught shutters on models 100, 120, 150
- Neon running light
- Style, technology

**VERSIONS**

- **STANDARD** On/off through light or remote control switch.
- **TIMER** Integral electronic timer adjustable from 3 to 25 minutes.
- **MHT** Humidity control, adjustable from 40 to 80% of R.H.
- **SELV** SELV 12 V a.c.

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Ee</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-STYLE 90</td>
<td>160</td>
<td>160</td>
<td>81</td>
<td>17</td>
<td>92</td>
<td>0,4</td>
</tr>
<tr>
<td>E-STYLE 100</td>
<td>160</td>
<td>160</td>
<td>95</td>
<td>17</td>
<td>98</td>
<td>0,4</td>
</tr>
<tr>
<td>E-STYLE 120</td>
<td>180</td>
<td>180</td>
<td>101</td>
<td>18</td>
<td>119</td>
<td>0,6</td>
</tr>
<tr>
<td>E-STYLE 150</td>
<td>200</td>
<td>200</td>
<td>119</td>
<td>22</td>
<td>149</td>
<td>1,0</td>
</tr>
</tbody>
</table>

Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014 (Classification: Residential Ventilation Unit)

**ACCESSORY**

- Chrome
- Inox satin
To exhaust air directly to the outside or into a short length ducting (max 3 m length).

Suitable for toilets, bathrooms, WC's, shower-rooms, utility rooms and kitchens.

Basic version of e-style pro (no neon running light - back draught shutters upon request)

Complete range and high aeraulic performances.

Back drought shutter upon request.

Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014 (Classification: Residential Ventilation Unit)

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>PROTECTION</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB(A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Style 100 TREND</td>
<td>IPX4</td>
<td>85</td>
<td>24</td>
<td>32</td>
<td>11</td>
<td>26,4</td>
</tr>
<tr>
<td>E-Style 120 TREND</td>
<td>IPX4</td>
<td>165</td>
<td>46</td>
<td>54</td>
<td>15</td>
<td>36,7</td>
</tr>
<tr>
<td>E-Style 150 TREND</td>
<td>IPX4</td>
<td>295</td>
<td>82</td>
<td>71</td>
<td>25</td>
<td>43,9</td>
</tr>
</tbody>
</table>

*Lp(A) measured at 3m in open field 230V-50Hz.

**CURVES**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>ØE</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Style 100 TREND</td>
<td>160</td>
<td>160</td>
<td>95</td>
<td>17</td>
<td>98,2</td>
<td>0,45</td>
</tr>
<tr>
<td>E-Style 120 TREND</td>
<td>180</td>
<td>180</td>
<td>101</td>
<td>18</td>
<td>119</td>
<td>0,66</td>
</tr>
<tr>
<td>E-Style 150 TREND</td>
<td>200</td>
<td>200</td>
<td>119</td>
<td>22</td>
<td>149</td>
<td>1,04</td>
</tr>
</tbody>
</table>
**Wall / window axial fans**

**ECO LINE**

**ECO GF** Fixed grille

**ECO GG** Gravity shutter

**ECO A** Automatic

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>Iₜ</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 100</td>
<td>90</td>
<td>25</td>
<td>26</td>
<td>11</td>
<td>39</td>
</tr>
<tr>
<td>ECO 120</td>
<td>170</td>
<td>47</td>
<td>39</td>
<td>15</td>
<td>42</td>
</tr>
<tr>
<td>ECO 150</td>
<td>320</td>
<td>89</td>
<td>69</td>
<td>25</td>
<td>49</td>
</tr>
</tbody>
</table>

* LpA measured at 3 m in open field 230v - 50Hz.

**VERSIONS**

- **STANDARD**
  On/off through light or remote control switch

- **PULL CORD**
  On/off through pull cord switch

- **TIMER**
  Integral electronic timer adjustable from 3 to 25 minutes

- **MHT**
  Humidity control, adjustable from 40 to 80% of R.H.

- **2 SPEED**
  24 hours running at the lowest speed

- **SELV**
  SELV 12 V a.c. (only GG and GF models)

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 100 GF</td>
<td>155</td>
<td>155</td>
<td>92</td>
<td>35</td>
<td>97</td>
<td>0,5</td>
</tr>
<tr>
<td>ECO 120 GF</td>
<td>180</td>
<td>180</td>
<td>121</td>
<td>51</td>
<td>119</td>
<td>0,8</td>
</tr>
<tr>
<td>ECO 150 GF</td>
<td>209</td>
<td>209</td>
<td>137</td>
<td>52</td>
<td>149</td>
<td>1,2</td>
</tr>
<tr>
<td>ECO 100 GG</td>
<td>155</td>
<td>155</td>
<td>92</td>
<td>35</td>
<td>97</td>
<td>0,5</td>
</tr>
<tr>
<td>ECO 120 GG</td>
<td>180</td>
<td>180</td>
<td>121</td>
<td>51</td>
<td>119</td>
<td>0,8</td>
</tr>
<tr>
<td>ECO 150 GG</td>
<td>209</td>
<td>209</td>
<td>137</td>
<td>52</td>
<td>149</td>
<td>1,2</td>
</tr>
<tr>
<td>ECO 100 A</td>
<td>155</td>
<td>155</td>
<td>101</td>
<td>44</td>
<td>97</td>
<td>0,6</td>
</tr>
<tr>
<td>ECO 120 A</td>
<td>180</td>
<td>180</td>
<td>121</td>
<td>51</td>
<td>119</td>
<td>0,8</td>
</tr>
<tr>
<td>ECO 150 A</td>
<td>209</td>
<td>209</td>
<td>137</td>
<td>52</td>
<td>149</td>
<td>1,2</td>
</tr>
</tbody>
</table>

**INSTALLAZIONI**

- To exhaust air directly to the outside or into a short length ducting (max 3 m length).
- Suitable for toilets, bathrooms, WC’s, shower-rooms, utility rooms and kitchens.
- Wide range: 27 models all suitable for wall, window and ceiling installation.
- Low energy consumption and high performance for a quick and efficient extraction of stale air.

**ErP**

Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014
(Classification: Residential Ventilation Unit)
WINDOW KIT

**WINDOW KIT GG**  
(gravity shutter)  
Suitable for ECO LINE GF  

**MODEL**  
- WINDOW KIT GG 100  
- WINDOW KIT GG 120  
- WINDOW KIT GG 150

**WINDOW KIT GF**  
(grille fixed)  
Suitable for ECO LINE GG and A  

**MODEL**  
- WINDOW KIT GF 100  
- WINDOW KIT GF 120  
- WINDOW KIT GF 150

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Ø glass hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINDOW KIT 100</td>
<td>157</td>
<td>157</td>
<td>66</td>
<td>150</td>
</tr>
<tr>
<td>WINDOW KIT 120</td>
<td>178</td>
<td>178</td>
<td>82</td>
<td>175</td>
</tr>
<tr>
<td>WINDOW KIT 150</td>
<td>208</td>
<td>208</td>
<td>95</td>
<td>175</td>
</tr>
</tbody>
</table>
MINISTYLE

Wall axial fans

![MINISTYLE Wall Axial Fans]

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINISTYLE</td>
<td>90</td>
<td>25</td>
<td>26</td>
<td>14</td>
<td>39</td>
</tr>
<tr>
<td>MINISTYLE TIMER</td>
<td>90</td>
<td>25</td>
<td>26</td>
<td>14</td>
<td>39</td>
</tr>
</tbody>
</table>

* Lp(A) measured at 3m in open field 230V-50Hz.

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Kg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINISTYLE</td>
<td>140</td>
<td>140</td>
<td>65</td>
<td>17</td>
<td>98</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**INSTALLAZIONI**

- Ideal for small premises
- Easy to install and extremely compact (front cover 17 mm, height and width 14 mm)
- Made in high quality antistatic technopolymer
- Available with back draught shutters on request

**VERSIONS**

- **STANDARD**
  On/off through light or remote control switch.
- **PULL CORD**
  On/off through pull cord switch.
- **TIMER**
  Integral electronic timer adjustable from 3 to 25 minutes.

**Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014**

(Classification: Residential Ventilation Unit)

**ErP**

- Compliant with ErP Directive 2009/125/CE and EU Regulation 1253/2014 (Classification: Residential Ventilation Unit)

**CURVE**

![MINISTYLE Performance Curve]

**VERSIONS**

- **STANDARD**
  On/off through light or remote control switch.
- **PULL CORD**
  On/off through pull cord switch.
- **TIMER**
  Integral electronic timer adjustable from 3 to 25 minutes.

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Kg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINISTYLE</td>
<td>140</td>
<td>140</td>
<td>65</td>
<td>17</td>
<td>98</td>
<td>0.5</td>
</tr>
</tbody>
</table>
Axial in-line duct fans

PERFORMANCES

<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUBO 100</td>
<td>90</td>
<td>25</td>
<td>25</td>
<td>12</td>
<td>38</td>
</tr>
<tr>
<td>TUBO 120</td>
<td>180</td>
<td>50</td>
<td>35</td>
<td>18</td>
<td>44</td>
</tr>
<tr>
<td>TUBO 150</td>
<td>320</td>
<td>89</td>
<td>69</td>
<td>40</td>
<td>51</td>
</tr>
</tbody>
</table>

* Lp(A) measured at 3m in open field 230V-50Hz.

CURVES

VERSIONS

- **STANDARD**
  - On/off through light or remote control switch.

- **TIMER**
  - Integral electronic timer adjustable from 3 to 25 minutes (available on TUBO TP only).

DIMENSIONS (mm)

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>Ø B</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUBO 100</td>
<td>92</td>
<td>97</td>
<td>0.4</td>
</tr>
<tr>
<td>TUBO 120</td>
<td>97</td>
<td>119</td>
<td>0.6</td>
</tr>
<tr>
<td>TUBO 150</td>
<td>125</td>
<td>151</td>
<td>0.8</td>
</tr>
</tbody>
</table>

Comply with ErP Directive 2009/125/CE and EU Regulation 327/2011 (Classification: FAN)

Suitable for intake / extract ventilation

Ideal for conveying air between two separate rooms

Invisible and efficient: no fan into the room

Metal or Technopolymer versions

Long Life sleeve bearing motor
Extract/Intake models available in 2 sizes: 9” and 12” (with same wall hole sizes)
Built-in 9 available in Low capacity version
Stylish profile and unobtrusive installation
High efficiency (up to 1630 m³/h)
Silent shutter operation via thermal actuator
Made in shockproof high quality technopolymer
Sleeve bearing motor

Built-in 9LC available in Low capacity version

COMPLIANCE

- Comply with ErP Directive 2009/125/CE and EU Regulation 327/2011 (Classification: FAN)

PERFORMANCES

<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)**</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUILT-IN 9</td>
<td>*740/480</td>
<td>205/133</td>
<td>46 / 35</td>
<td>46</td>
<td>48</td>
<td>11,5</td>
</tr>
<tr>
<td>BUILT-IN 12</td>
<td>*1630/850</td>
<td>453/236</td>
<td>75 / 48</td>
<td>106</td>
<td>58</td>
<td>12,5</td>
</tr>
<tr>
<td>BUILT-IN 9 LC</td>
<td>*600/374</td>
<td>167/104</td>
<td>42 / 35</td>
<td>29</td>
<td>48</td>
<td>11,5</td>
</tr>
</tbody>
</table>

* Extract / Intake
** LpA(A) measured at 3m in open field 230V-50Hz

DIMENSIONS (mm)

- Hole dimensions (same hole size for 9” and 12”)
- 370 x 370 x 370
- 430 x 430 x 190 ± 380
VITRO

Wall / window axial fans

PERFORMANCES

<table>
<thead>
<tr>
<th>MODELS</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>VITRO 6/150 M LC</td>
<td>200</td>
<td>56</td>
<td>36</td>
<td>24</td>
<td>40</td>
</tr>
<tr>
<td>VITRO 6/150 A LC</td>
<td>200</td>
<td>61</td>
<td>36</td>
<td>28</td>
<td>40</td>
</tr>
<tr>
<td>VITRO 6/150 PM</td>
<td>300</td>
<td>83</td>
<td>74</td>
<td>41</td>
<td>48</td>
</tr>
<tr>
<td>VITRO 6/150 PA</td>
<td>300</td>
<td>83</td>
<td>74</td>
<td>45</td>
<td>48</td>
</tr>
<tr>
<td>VITRO 9/230 LCM</td>
<td>600</td>
<td>167</td>
<td>42</td>
<td>29</td>
<td>50</td>
</tr>
<tr>
<td>VITRO 9/230 LC-AR*</td>
<td>600 / 374</td>
<td>167 / 104</td>
<td>42 / 35</td>
<td>29</td>
<td>50</td>
</tr>
<tr>
<td>VITRO 9/230 PM</td>
<td>700</td>
<td>194</td>
<td>52</td>
<td>43</td>
<td>50</td>
</tr>
<tr>
<td>VITRO 9/230 PAR *</td>
<td>700 / 400</td>
<td>194 / 111</td>
<td>55</td>
<td>46</td>
<td>50</td>
</tr>
<tr>
<td>VITRO 12/300 AR *</td>
<td>1.400 / 800</td>
<td>389 / 222</td>
<td>83</td>
<td>106</td>
<td>59</td>
</tr>
</tbody>
</table>

* Extract / Intake
** Lp(A) measured at 3m in open field 230V-50Hz.

VERSIONS

- MANUAL - Pull cord switch.
- AUTOMATIC
- AUTOMATIC REVERSIBLE
- POTENTIATED
  Potentiated motor for higher airflow performance.
- LOW CAPACITY
  (LCM - Low capacity Manual / LC-AR Low capacity Automatic Reversible).

CURVES
**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Ø D</th>
<th>E</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>VITRO 6/150</td>
<td>195</td>
<td>195</td>
<td>126</td>
<td>184-188</td>
<td>102</td>
<td>1,7</td>
</tr>
<tr>
<td>VITRO 9/230</td>
<td>287</td>
<td>287</td>
<td>138</td>
<td>254-258</td>
<td>122</td>
<td>3,5</td>
</tr>
<tr>
<td>VITRO 12/300</td>
<td>364</td>
<td>364</td>
<td>162</td>
<td>324-329</td>
<td>137</td>
<td>5</td>
</tr>
</tbody>
</table>

Thermoactuator for the electrical opening of the grille.

**INSTALLATION**

**WINDOW**

Glass thickness 3 + 25 mm

**DOUBLE WINDOW**

**WALL**

**DOUBLE GLASS**

Pull cord switch version.
Centrifugal duct fans with axial flow discharge
Linea Design

PERFORMANCES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DUCT Ø</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB(A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard - Pull cord - Timer - MHY smart - SELV</td>
<td>ELIX 100</td>
<td>100</td>
<td>97</td>
<td>27</td>
<td>151</td>
<td>29</td>
</tr>
<tr>
<td>Comfortimer - 2 speed</td>
<td>ELIX 100</td>
<td>100</td>
<td>97 / 54</td>
<td>27 / 15</td>
<td>151 / 116</td>
<td>29 / 14</td>
</tr>
</tbody>
</table>

* LpA measured at 3m in open field 230V-50Hz.

** Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014 (Classification: Residential Ventilation Unit)**

- Centrifugal duct fan Ø 100 mm with central outlet.
- Innovative design with flat front cover and lateral intake.
- Available with EC motor for a perfect combination of style and performance.
- Provided with sliding filter in PP removable and washable in dishwasher and with back-draught shutters.

CURVES

![Curves Graph](image)

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>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIX 100</td>
<td>180</td>
<td>180</td>
<td>116</td>
<td>87</td>
<td>99</td>
<td>29</td>
<td>2.6</td>
</tr>
</tbody>
</table>
**ELIX EC 2V**

- Energy efficient EC motor
- Provides low level continuous ventilation to control condensation
- Choice of 2 low speeds at installation
- For wall or ceiling installation
- For any domestic wet room
- Low noise levels and running costs

**GENERAL FEATURES**

- Exhausts directly to the outside or through long lengths of ducting (up to 15m).
- Runs continuously at pre-selected choice of two speeds (fixed at installation).
- Speed 1 operates at 29 m³/h (8 l/s) (factory set).
- Speed 2 operates at 50 m³/h (14 l/s).
- Max speed boosted to maximum 100 m³/h (28 l/s) using integral pull cord or by:
  - Remote switch/light switch
  - Remote PIR sensor
  - Humidistat
- Anti-vibration gasket.
- Easily removable, washable polypropylene filter.
- Energy saving ventilation.
- Extremely low running costs.
- Low carbon footprint.

**TECHNICAL FEATURES**

- Shockproof, high quality technopolymer casing.
- Designed using latest wind tunnel technology and CFD simulations.
- Profile increases the fluid dynamics.
- EC induction motor with thermal protection.
- 43,000 hour life motors with maintenance free and long life ball bearings.
- Operates in ambient temperatures up to 40°C.
- Double insulated - no earth required.
- IPX4 - Splashproof rated - can safely be installed in Zones I and II.

**VERSIONS**

**EC 2V DT**

24 hours running at low speed (selectable between 2 at installation). Speed boosts to maximum via control switch. The maximum speed is provided with a timer (adjustable from 0 to 30 minutes) which activation can be delayed up to 2 minutes to avoid unnecessary night-time operation at the highest speed. (DT option, selectable at installation).

**EC 2V HDT**

24 hours running at low speed (selectable between 2 at installation). Speed boosts to maximum automatically or manually:

- automatically via humidistat (adjustable from 40 to 90% of RH). The fan switches back to the low speed when the humidity level goes beneath the pre-selected threshold and once concluded the pre-selected overrun via timer (adjustable from 0 to 30 min).
- manually via control switch (remote or pull cord). The fan switches back to the low speed once concluded the pre-selected overrun via timer (adjustable from 0 to 30 min). The activation of the timer can be delayed up to 2 minutes to avoid unnecessary night-time operation at the highest speed. (DT option, selectable at installation).

All EC models (100 2 speed, 2V DT, 2V HDT) are also available in SELV version, low voltage 12V.
### PERFORMANCE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AIRFLOW m³/h - l/s</th>
<th>PRESSURE - Pa</th>
<th>POWER - Watt</th>
<th>dB(A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Speed 1</td>
<td>Speed 2</td>
<td>max</td>
<td>Speed 1</td>
</tr>
<tr>
<td>ELIX 100 EC 2V</td>
<td>29 / 8</td>
<td>50 / 14</td>
<td>105 / 29</td>
<td>14</td>
</tr>
</tbody>
</table>

* Lp(A) measured at 3m in open field 230V-50Hz.

### CURVES

![Performance Curves](image)

### DIMENSIONS (mm)

![Dimensions Diagram](image)

<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>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIX 100 EC 2V</td>
<td>180</td>
<td>180</td>
<td>116</td>
<td>87</td>
<td>99</td>
<td>29</td>
<td>2.6</td>
</tr>
</tbody>
</table>

### INSTALLATION

- **Single duct**
- **Multiple duct**
Centrifugal duct fans with decentral flow discharge
Linea Design

- Powerful centrifugal duct fan ø 100 mm with decentralised outlet.
- Innovative design with flat front cover and lateral intake. Suitable for surface or built-in installation (wall/ceiling mounted).
- Casing for built-in installation on request
- Provided with removable filter in PP washable in dishwasher and with back-draught shutters.

Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014 (Classification: Residential Ventilation Unit)

PERFORMANCES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DUCT Ø</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD / PULL CORD / TIMER / MHY</td>
<td>100</td>
<td>221</td>
<td>61</td>
<td>208</td>
<td>29</td>
<td>41</td>
</tr>
<tr>
<td>ELPREX 100</td>
<td>100</td>
<td>221</td>
<td>61</td>
<td>15,82 / 11,10</td>
<td>38,8 / 8,20</td>
<td>41 / 15,80</td>
</tr>
<tr>
<td>COMFORTIMER / 2 SPEED / HT 2 SPEED</td>
<td>ELPREX 100</td>
<td>100</td>
<td>221</td>
<td>61</td>
<td>15,82 / 11,10</td>
<td>38,8 / 8,20</td>
</tr>
</tbody>
</table>

* LpA measured at 3m in open field 230V-50Hz.

VERSIONS

- STANDARD
  on/off through light or remote control switch.
- PULL CORD
  on/off through pull cord switch.
- TIMER
  integral electronic timer adjustable from 3 to 25 minutes.
- COMFORTIMER
  overrun timer at low speed.
- MHT
  Humidity control, adjustable from 40 to 80% of R.H.
- 2 SPEED
  24 hours running at the lowest speed.

CURVES

![CURVES Graph]

Notes:
- 24 hours running at the lowest speed.
- * LpA measured at 3m in open field 230V-50Hz.
DIMENSIONS (mm)

<table>
<thead>
<tr>
<th>TYPE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>ØE</th>
<th>F</th>
<th>G</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELPREX</td>
<td>280</td>
<td>280</td>
<td>135</td>
<td>120</td>
<td>99</td>
<td>16</td>
<td>58</td>
<td>2.8</td>
</tr>
</tbody>
</table>

Casing for built-in installation (to be ordered separately)

INSTALLATION

SURFACE

SINGLE DUCT

MULTIPLE DUCT

BUILT-IN

REAR OUTLET

VERTICAL OUTLET
Centrifugal duct fans with axial flow discharge

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DUCT Ø</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard - Timer - HT</td>
<td>FLUX 100</td>
<td>100</td>
<td>90</td>
<td>25</td>
<td>124</td>
<td>30</td>
</tr>
<tr>
<td>2V - HT 2V</td>
<td>FLUX 100</td>
<td>100</td>
<td>90/38</td>
<td>25/10</td>
<td>124/78</td>
<td>30/12</td>
</tr>
<tr>
<td>Selv - Selv Timer</td>
<td>FLUX 100 SELV</td>
<td>100</td>
<td>90</td>
<td>25</td>
<td>124</td>
<td>26</td>
</tr>
<tr>
<td>Standard - Timer - HT</td>
<td>FLUX 250/Ø 100</td>
<td>100</td>
<td>201</td>
<td>56</td>
<td>195</td>
<td>29</td>
</tr>
<tr>
<td>FLUX 250/Ø 120</td>
<td>120</td>
<td>232</td>
<td>64</td>
<td>195</td>
<td>29</td>
<td>52</td>
</tr>
</tbody>
</table>

* LpA measured at 3m in open field 230V-50Hz.

**VERSIONS**

- STANDARD - On/off through light or remote control switch.
- PULL CORD - On/off through pull cord switch.
- TIMER - Integral electronic timer adjustable from 3 to 25 minutes.
- MHT - Humidity control, adjustable from 40 to 80% of R.H.
- 2 SPEED - 24 hours running at the lowest speed.

**CURVES**

![FLUX 100 Performance Curve](image)

![FLUX 250 Performance Curve](image)

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>ØE</th>
<th>F</th>
<th>Kg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUX 100</td>
<td>160</td>
<td>160</td>
<td>119</td>
<td>89</td>
<td>97</td>
<td>30</td>
<td>0,8</td>
</tr>
<tr>
<td>FLUX 250/100</td>
<td>210</td>
<td>210</td>
<td>156</td>
<td>131</td>
<td>97</td>
<td>25</td>
<td>1,8</td>
</tr>
<tr>
<td>FLUX 250/120</td>
<td>210</td>
<td>210</td>
<td>156</td>
<td>131</td>
<td>119</td>
<td>25</td>
<td>1,8</td>
</tr>
</tbody>
</table>

Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014 (Classification: Residential Ventilation Unit)

- Centrifugal duct fans with central outlet
- 2 models: 100 and 250, Ø 100 and 120 mm
- IMQ mark on Flux 100 (all versions)
Classical centrifugal fans designed to overcome the pressure and resistance caused by long lengths of ducting.

Provided with back draught shutter and removable filter.

IMQ mark on RADIA 80 and 130.

On Request, 2V and 2V HT versions.

Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014 (Classification: Residential Ventilation Unit)

**PERFORMANCES**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DUCT Ø</th>
<th>m³/h</th>
<th>l/s</th>
<th>Pa</th>
<th>W</th>
<th>dB (A)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard - Timer - HT</td>
<td>RADIA 80</td>
<td>80/100</td>
<td>80</td>
<td>22</td>
<td>108</td>
<td>23</td>
</tr>
<tr>
<td>Standard - Timer - HT</td>
<td>RADIA 130</td>
<td>100</td>
<td>130</td>
<td>36</td>
<td>177</td>
<td>29</td>
</tr>
<tr>
<td>Standard - Timer - HT</td>
<td>RADIA 220</td>
<td>100</td>
<td>214</td>
<td>60</td>
<td>277</td>
<td>29</td>
</tr>
</tbody>
</table>

* Lp(A) measured at 3m in open field 230V-50Hz.

**CURVES**

RADIA 80 / 130 / 220

**VERSIONS**

- **STANDARD**
  - On/off through light or remote control switch.

- **PULL CORD**
  - On/off through pull cord switch.

- **TIMER**
  - Integral electronic timer adjustable from 3 to 25 minutes.

**INSTALLATION**

1 - SINGLE DUCT

2 - MULTIPLE DUCT

- Decentral outlet
- Backdraught shutter

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Ø D</th>
<th>E</th>
<th>F</th>
<th>Kg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADIA 80</td>
<td>206</td>
<td>180</td>
<td>135</td>
<td>80</td>
<td>48</td>
<td>47</td>
<td>1,2</td>
</tr>
<tr>
<td>RADIA 130</td>
<td>237</td>
<td>211</td>
<td>146</td>
<td>98</td>
<td>57</td>
<td>56</td>
<td>1,8</td>
</tr>
<tr>
<td>RADIA 220</td>
<td>304</td>
<td>256</td>
<td>171</td>
<td>98</td>
<td>56</td>
<td>61</td>
<td>3</td>
</tr>
</tbody>
</table>

* Supplied with adaptor for ducts Ø100 mm
**R10 series**

**R10 TIMER**
- Remote timer
- Electronic timer, adjustable from 3 to 25 minutes
- The fan to which it is connected will overrun after switch-off for the pre-set time.
- Time adjustment via external knob
- ON/OFF light switch
- New design with protection cover
- Suitable for surface and built-in installation
- Ease of connection by means of removable terminals
- Provided with protection fuse
- Max load 4 A
- Single-phase: 117-230V / 50-60 Hz
- Class II protection, no earth connection is needed
- Weight: 0.5 Kg
- Dimensions: 110x80x42 mm

**R10 HY**
- Remote Humidity Sensor
- The sensor automatically switches ON/OFF the fan according to the detected level of relative humidity, adjustable from 40 to 90%.
- Suitable for surface and built-in installation
- Ease of connection by the means of removable terminals
- Provided with protection fuse
- Max load 4 A
- Single-phase: 117-230V / 50-60 Hz
- Weight: 0.5 Kg
- Dimensions: 110x80x42 mm

**R10 P.I.R**
- Remote Passive Infrared Sensor
- The fan can be on anytime the sensor detects a human presence in the room
- Provided with integral delay timer adjustable from 3 to 25 minutes, which keeps the fan running for the pre-set period after the room is vacated
- Ideal solution for public toilets
- The green led indicates that the sensor is detecting
- New design with protection cover
- Suitable for surface and built-in installation
- Ease of connection by means of removable terminals
- Provided with protection fuse
- Max load 4 A
- Single-phase: 230V / 50-60 Hz (different voltage upon request)
- Class II protection, no earth connection is needed
- Weight: 0.5 Kg
- Dimensions: 110x80x42 mm

**R10 AQS**
- Remote Air Quality Sensor
- The sensor reacts to tobacco smoke and unpleasant odours
- It automatically switches the fan ON/OFF according to the detected air quality level, manually adjustable.
- Suitable for surface and built-in installation
- The permanent control of indoor air quality offers important advantages: maximum comfort for the user and energy saving as the fan is activated only if necessary.
- Ideal for public premises
- Easiest of connection by means of removable terminals
- Provided with protection fuse
- Max load 4 A
- Single-phase: 230V / 50-60 Hz
- Class II protection, no earth connection is needed
- Weight: 0.5 Kg
- Dimensions: 110x80x42 mm

**R10 series**

**R10 P.I.R**
- Remote Passive Infrared Sensor
- The green led indicates that the sensor is detecting
- New design with protection cover
- Suitable for surface and built-in installation
- Ease of connection by the means of removable terminals
- Provided with protection fuse
- Max load 4 A
- Single-phase: 230V / 50-60 Hz
- Class II protection, no earth connection is needed
- Weight: 0.5 Kg
- Dimensions: 110x80x42 mm

**R10 AQS**
- Remote Air Quality Sensor
- The sensor reacts to tobacco smoke and unpleasant odours
- It automatically switches the fan ON/OFF according to the detected air quality level, manually adjustable.
- Suitable for surface and built-in installation
- The permanent control of indoor air quality offers important advantages: maximum comfort for the user and energy saving as the fan is activated only if necessary.
- Ideal for public premises
- Provided with protection fuse
- Max load 4 A
- Single-phase: 230V / 50-60 Hz
- Class II protection, no earth connection is needed
- Weight: 0.5 Kg
- Dimensions: 110x80x42 mm

**R15 series**

**R15 TIMER**
- Infinity variable electronic speed controller by potentiometer
- ON/OFF light switch
- New design with cover
- Suitable for surface and built-in application
- Ease of connection by the means of removable terminals
- External trimmer for the adjustment of the fan minimum speed
- Protection fuse
- Max load 1.5 A
- Protection IP42
- Weight: 0.5 Kg
- Dimensions: 138x80x42 mm

**RV1 series**

**RV1**
- Electronic speed controller
- Infinitely variable speed control by potentiometer.
- ON/OFF switch
- IP42 protection
- Max. load: 800 W (4A)
- Min. load: 400 W (1A)
- Supply voltage: 230V-50 / 60 Hz
- Sizes: 110x100x58 mm
- Weight: 0.5 Kg
### CONTROLLERS WITH TRANSFORMER

| Model      | Type                  | Speeds | Description                                                                 | Protection | Load   | Voltage            | Dimensions | Weight |  |
|------------|-----------------------|--------|----------------------------------------------------------------------------|------------|--------|--------------------|------------|--------|  |
| RVS1       | Speed controller      | 6      | - 6 speeds                                                                  | IP55       | 1,5 A  | 230V-50 Hz         | 166 x 142 x 66 mm | 2.4 kg |  |
| RVS/R      | Reversible multi      | 3      | - 3 speeds                                                                  | IP42       | 0,5 A  | 230V-50/60 Hz      | 118 x 118 x 58 mm | 0,7 kg |  |
| RVS/RL     | Control to be used    | 5      | - 5 speeds                                                                  | IP42       | 0,5 A  | 230V-50/60 Hz      | 118 x 118 x 58 mm | 0,7 kg |  |
| RVS/PLUS   | Reversible multi      | 6      | - 6 speeds                                                                  | IP42       | 1,5 A  | 230V-50/60 Hz      | 158 x 118 x 76 mm | 1,8 kg |  |
| RLS 2V     | Remote speed control  | 2      | - 2 speeds                                                                  | IP42       | 0,40 kg| 230V-50/60 Hz      | 110 x 80 x 42   | 0,40 kg |  |
| RLS 3V     | Remote speed control  | 3      | - 3 speeds                                                                  | IP42       | 0,40 kg| 230V-50/60 Hz      | 110 x 80 x 42   | 0,40 kg |  |

### SPEED CONTROLLERS

| Model      | Type                  | Speeds | Description                                                                 | Protection | Load   | Voltage            | Dimensions | Weight |  |
|------------|-----------------------|--------|----------------------------------------------------------------------------|------------|--------|--------------------|------------|--------|  |
| RVS/R      | Reversible speed      | 3      | - 3 speeds                                                                  | IP42       | 0,5 A  | 230V-50/60 Hz      | 118 x 118 x 58 mm | 0,7 kg |  |
| RVS/R PLUS | Reversible multi      | 6      | - 6 speeds                                                                  | IP42       | 1,5 A  | 230V-50/60 Hz      | 158 x 118 x 76 mm | 1,8 kg |  |
| RVS/R      | Reversible speed      | 5      | - 5 speeds                                                                  | IP42       | 0,5 A  | 230V-50/60 Hz      | 118 x 118 x 58 mm | 0,7 kg |  |
| RVS/PLUS   | Reversible multi      | 6      | - 6 speeds                                                                  | IP42       | 1,5 A  | 230V-50/60 Hz      | 158 x 118 x 76 mm | 1,8 kg |  |
| RLS 1 WR   | Remote control        | 3      | - 3 speeds                                                                  | IP42       | 0,40 kg| 230V-50/60 Hz      | 75 x 75 x 30    | 0,40 kg |  |
| RLS 3V     | Remote control        | 3      | - 3 speeds                                                                  | IP42       | 0,40 kg| 230V-50/60 Hz      | 110 x 80 x 42   | 0,40 kg |  |

---

**SENSORS AND CONTROLLERS**

- **RS - 4 speeds**
  - Speed controller
  - New design with cover
  - Suitable for surface or built-in installation
  - Ease of connection by the means of removable terminals
  - Running LED On/Off
  - Supply voltage 230V – 50/60 Hz
  - Provided with protection fuse
  - Max. load: 0,37 A
  - Protection IP2
  - Weight: 0,54 Kg
  - Dimensions: 138 x 80 x 56

- **RS/R - 4 speeds**
  - Reversible speed controller
  - New design with cover
  - Suitable for surface or built-in installation
  - Ease of connection by the means of removable terminals
  - Running LED On/Off
  - Supply voltage 230V – 50/60 Hz
  - Provided with protection fuse
  - Max. load: 0,37 A
  - Protection IP2
  - Weight: 0,54 Kg
  - Dimensions: 138 x 80 x 56

- **RVS - 5 speeds**
  - 5 steps speed controller
  - New design with cover
  - Suitable for surface or built-in installation
  - Ease of connection by the means of removable terminals
  - Running LED On/Off
  - Supply voltage 230V – 50/60 Hz
  - Provided with protection fuse
  - Max. load: 0,37 A
  - Protection IP2
  - Weight: 0,54 Kg
  - Dimensions: 138 x 80 x 56

- **RVS/R - 3 speeds**
  - Reversible speed controller
  - New design with cover
  - Suitable for surface or built-in installation
  - Ease of connection by the means of removable terminals
  - Running LED On/Off
  - Supply voltage 230V – 50/60 Hz
  - Provided with protection fuse
  - Max. load: 0,37 A
  - Protection IP2
  - Weight: 0,54 Kg
  - Dimensions: 138 x 80 x 56

- **RVS/RL - 5 speeds**
  - Speed controller to be used with POLAR ceiling fans
  - New design with cover
  - Suitable for surface or built-in installation
  - Ease of connection by the means of removable terminals
  - Running LED On/Off
  - Supply voltage 230V – 50/60 Hz
  - Provided with protection fuse
  - Max. load: 0,37 A
  - Protection IP2
  - Weight: 0,54 Kg
  - Dimensions: 138 x 80 x 56

---

**RS/R - 4 speeds**

- Reversible speed controller
  - New design with cover
  - Suitable for reversible fans Vitro and Built-in
  - Ease of connection by the means of removable terminals
  - Running LED On/Off
  - Supply voltage 230V – 50/60 Hz
  - Provided with protection fuse
  - Max. load: 0,37 A
  - Protection IP2
  - Weight: 0,54 Kg
  - Dimensions: 138 x 80 x 56

---

**RVS/R PLUS - 6 speeds**

- Reversible multi controller
  - New design with cover
  - Suitable for surface or built-in installation
  - Ease of connection by the means of removable terminals
  - Running LED On/Off
  - Supply voltage 230V – 50/60 Hz
  - Provided with protection fuse
  - Max. load: 1,5 A
  - Protection IP2
  - Weight: 1,8 Kg
  - Dimensions: 158 x 118 x 76 mm

---

**RLS 1 WR**

- Remote control
  - Manual selection of three modality of continuous running
  - Low ventilation modality
  - Intermediate ventilation modality
  - Intensive ventilation modality
  - Supply voltage 230V – 50/60 Hz
  - Weight: 0,50 Kg
  - Dimensions: 75 x 75 x 30

---

**RLS 3V**

- Remote speed control (Min/Max)
  - New design with cover
  - Suitable for surface or built-in installation
  - Ease of connection by the means of removable terminals
  - Protection IP42
  - Weight: 0,40 Kg
  - Supply voltage 230V – 50/60 Hz
  - Dimensions: 110 x 80 x 42

---

**RLS 2V**

- Remote speed control (Min/Max)
  - New design with cover
  - Suitable for surface or built-in installation
  - Ease of connection by the means of removable terminals
  - Protection IP42
  - Weight: 0,40 Kg
  - Supply voltage 230V – 50/60 Hz
  - Dimensions: 110 x 80 x 42

---

**Supplied with REC in linea EC 140 - 180 - 220**

**Accessory for AC versions of Rec in linea 180 - 220, REC 280-320 and AC versions of Microbox and Multibox.**
### Choose the right controller

<table>
<thead>
<tr>
<th>FANS</th>
<th>TRANSFORMER</th>
<th>ELECTRONIC</th>
<th>BUILT-IN ELECTRONIC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RS</td>
<td>RVS</td>
<td>RVS1</td>
</tr>
<tr>
<td>AXC 100 A/B - 125 A/B - 150 A - 160 A</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>AXC 150 B - 160 B</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>AXC 200</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>AXC 200 - 250 - 315</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>AXC 315 B</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>AXC 355 A</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>AXC 355 B</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>AXCTP 100-125-150-160</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>BUILT-IN 9</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>BUILT-IN 12</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>ECO LINE</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>ELEGANCE</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>ELIX</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>ELPREX</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>E-SMILE</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>E-STYLE</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>EXT 100 - 125 - 150 A - 160 A</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>EXT 150 B - 160 B - 200 A/B</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>JOLLY</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>FLUX</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MICROBOX 3V</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MULTIBOX 3V</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MINISTYLE</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MURU</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MRF 100 - 125 - 150</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MRF 160 - 200 - 250</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MRF 315</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>RADIA</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>REC SMART</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>REC IN LINEA / AC</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>REC 280 / 320 AC</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>TUBO</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>VITRO 6/150 A</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>VITRO 9/230 Automatic / Reversible</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>VITRO 12/300 Automatic / Reversible</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>