



Design: F. Trabucco & Associates



## PUNTO RANGE

Wall/window axial fans **LONG LIFE 30.000 h**

For intermittent or continuous ventilation of bathrooms, toilets, kitchens or utility rooms in domestic or commercial properties.

- **53 models:** from Ø 100 to 150 available with or without the option of automatic shutters, timer, pull cord, humidistat, electronic microprocessor and Passive infrared.
- Motor with shielded poles, either with bronze or ball bearings, and with thermal cut-out.
- Motor support and grille made of anti-UV ABS.
- High airflow rate, low operating noise level and low power consumption due to the wing profile blades and motor support.
- The standard models can be speed regulated.
- Protection rating: IPX4.
- Insulation class: II □ .

### Punto 12V.

- **8 models:** available with or without automatic shutters; In the automatic version the shutters positioned behind the front grille automatically open and close slowly when the unit is operated.
- The shutters are made from shockproof, anti-UV-treated plastic.
- 12V motor with shielded poles, bronze bearings and thermal cut-out.
- Insulation: Selv CI.III.

### Punto PIR

- **12 models:** The unit turns on a few seconds after the person has entered the room (sensor is located in an inclined position to increase sensitivity), and continues to operate during the person's presence. When the person leaves the room, the unit will continue to run from between 3 to 20 minutes depending on the timer setting.

### Punto T-HCS.

- **3 models:** adjustable RH threshold at 60%, 70%, 80%, 90% by mean of a slide switch during installation.
- Smart working mode: the product automatically switches on when the indoor relative humidity level exceeds the pre-set value. A timer automatically switches off the product when the relative humidity decreases under the pre-set limit.



## RANGE

|           |                    | TIMER                                 |                                      | PIR <small>Passive Infrared</small> |  | T-HCS <small>Humidity Control System - Timer</small> |  |
|-----------|--------------------|---------------------------------------|--------------------------------------|-------------------------------------|--|------------------------------------------------------|--|
| Ø100      |                    | 11201 M 100/4"<br>11641 M 100/4" P    | 11211 M 100/4" T                     | 11681 M 100/4" PIR                  |  |                                                      |  |
|           | LONG LIFE 30.000 h | 11202 M 100/4" LL                     | 11212 M 100/4" T LL                  | 11682 M 100/4" PIR LL               |  |                                                      |  |
|           | 12 V               | 11203 M 100/4" 12V<br>22150 GA 12V    | 11203 M 100/4" 12V<br>22151 GA 12V T |                                     |  |                                                      |  |
| AUTOMATIC | Ø100               | 11221 M 100/4" A<br>11646 M 100/4" AP | 11231 M 100/4" AT                    | 11683 M 100/4" A PIR                |  |                                                      |  |
|           | LONG LIFE 30.000 h | 11222 M 100/4" A LL                   | 11232 M 100/4" AT LL                 | 11684 M 100/4" A PIR LL             |  | 11616 M 100/4" AT HCS LL                             |  |
|           | 12 V               | 11223 M 100/4" 12V<br>22150 GA 12V    | 11223 M 100/4" 12V<br>22151 GA 12V T |                                     |  |                                                      |  |
| Ø120      |                    | 11301 M 120/5"<br>11741 M 120/5" P    | 11311 M 120/5" T                     | 11781 M 120/5" PIR                  |  |                                                      |  |
|           | LONG LIFE 30.000 h | 11302 M 120/5" LL                     | 11312 M 120/5" T LL                  | 11782 M 120/5" PIR LL               |  |                                                      |  |
|           |                    | 11321 M 120/5" A<br>11746 M 120/5" AP | 11331 M 120/5" AT                    | 11783 M 120/5" A PIR                |  |                                                      |  |
| AUTOMATIC | Ø120               | 11322 M 120/5" A LL                   | 11332 M 120/5" AT LL                 | 11784 M 120/5" A PIR LL             |  | 11692 M 120/5" AT HCS LL                             |  |
|           | LONG LIFE 30.000 h |                                       |                                      |                                     |  |                                                      |  |
|           |                    | 11401 M 150/6"<br>11851 M 150/6" P    | 11411 M 150/6" T                     | 11881 M 150/6" PIR                  |  |                                                      |  |
| Ø150      | LONG LIFE 30.000 h | 11402 M 150/6" LL                     | 11412 M 150/6" T LL                  | 11882 M 150/6" PIR LL               |  |                                                      |  |
|           |                    | 11421 M 150/6" A<br>11856 M 150/6" AP | 11431 M 150/6" AT                    | 11883 M 150/6" A PIR                |  |                                                      |  |
|           | LONG LIFE 30.000 h | 11422 M 150/6" A LL                   | 11432 M 150/6" AT LL                 | 11884 M 150/6" A PIR LL             |  | 11698 M 150/6" AT HCS LL                             |  |

## TECHNICAL DATA

| MODELS    | V~50Hz    | W  | A    | RPM  | MAX AIRFLOW       |      | MAX PRESSURE       |    | Lp dB(A)<br>3 m | MAX °C | Kg   |
|-----------|-----------|----|------|------|-------------------|------|--------------------|----|-----------------|--------|------|
|           |           |    |      |      | m <sup>3</sup> /h | l/s  | mmH <sub>2</sub> O | Pa |                 |        |      |
| M 90/3.5" | 230 - 240 | 18 | 0.10 | 2500 | 70                | 19   | 2.3                | 23 | 39.0            | 50     | 0.55 |
| M 100/4"  |           |    |      | 2300 | 90                | 25   | 3                  | 29 | 37.5            |        | 0.60 |
| M 120/5"  |           | 20 | 0.12 | 2100 | 175               | 48.6 | 4.5                | 44 | 39.5            |        | 0.80 |
| M 150/6"  |           | 30 | 0.15 |      | 335               | 93.1 | 6                  | 59 | 46.0            |        | 1.10 |



PUNTO RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

| Models                                                                                             | Unit of measurement  | 100/4"  | 100/4" 12V |
|----------------------------------------------------------------------------------------------------|----------------------|---------|------------|
| Supplier's name or trade mark                                                                      | -                    | Vortice | Vortice    |
| Specific Energy Consumption class SEC in average climate zone                                      | -                    | NA      | NA         |
| Specific Energy Consumption class SEC average                                                      | kWh/m²a              | -6,6    | -6,6       |
| Specific Energy Consumption class SEC cold                                                         |                      | -20,0   | -20,0      |
| Specific Energy Consumption class SEC warm                                                         |                      | 1,0     | 1,0        |
| Declared typology                                                                                  | -                    | RVU-U*  | RVU-U*     |
| Type of drive                                                                                      | -                    | NA      | NA         |
| Type of heat recovery system HRS                                                                   | -                    | None    | None       |
| Thermal efficiency of heat recovery at reference air flow                                          | %                    | NA      | NA         |
| Maximum flow rate                                                                                  | m³/s                 | 89      | 89         |
| Electric power input of the fan drive, including any motor control equipment, at maximum flow rate | W                    | 13,7    | 13,7       |
| Sound power level LWA                                                                              | LWA [dB(A)]          | 58      | 58         |
| Reference flow rate                                                                                | m³/s                 | 0,0173  | 0,0174     |
| Reference pressure difference                                                                      | Pa                   | 15      | 23         |
| SPI                                                                                                | W/(m³/h)             | 0,21348 | 0,21253    |
| Control factor CTRL                                                                                | %                    | 1       | 1          |
| Control typology                                                                                   | -                    | manual  | manual     |
| Maximum internal leakage rates                                                                     | -                    | NA      | NA         |
| Maximum external leakage rates                                                                     | %                    | NA      | NA         |
| Mixing rate                                                                                        | -                    | NA      | NA         |
| Position and description of visual filter warning                                                  | -                    | NA      | NA         |
| Airflow sensitivity to pressure variations at + 20 Pa and – 20 Pa                                  | m³/h                 | NA      | NA         |
| Indoor/outdoor air tightness                                                                       | -                    | NA      | NA         |
| Annual electricity consumption (AEC)                                                               | kWh electricity/a    | 294     | 293        |
| AHS average Annual heating saved                                                                   | kWh primary energy/a | 1397    | 1397       |
| AHS cold Annual heating saved                                                                      |                      | 2732    | 2732       |
| AHS warm Annual heating saved                                                                      |                      | 632     | 632        |

\* RVU-U: Unit Ventilation Residential - Unidirectional  
 \*\* NRVU-U: Unit Ventilation Non Residential - Unidirectional  
 \*\*\* MSD: Multi-Speed Drive



## PUNTO RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

| Models                                                                                             | Unit of measurement   | 120/5"  | 150/6"  |
|----------------------------------------------------------------------------------------------------|-----------------------|---------|---------|
| Supplier's name or trade mark                                                                      | -                     | Vortice | Vortice |
| Specific Energy Consumption class SEC in average climate zone                                      | -                     | NA      | NA      |
| Specific Energy Consumption class SEC average                                                      | kWh/m <sup>2</sup> a  | -8,0    | -9,7    |
| Specific Energy Consumption class SEC cold                                                         |                       | -21,3   | -23,0   |
| Specific Energy Consumption class SEC warm                                                         |                       | 0,3     | 2,0     |
| Declared typology                                                                                  | -                     | RVU-U*  | RVU-U*  |
| Type of drive                                                                                      | -                     | NA      | NA      |
| Type of heat recovery system HRS                                                                   | -                     | None    | None    |
| Thermal efficiency of heat recovery at reference air flow                                          | %                     | NA      | NA      |
| Maximum flow rate                                                                                  | m <sup>3</sup> /s     | 164     | 324     |
| Electric power input of the fan drive, including any motor control equipment, at maximum flow rate | W                     | 20,6    | 27,8    |
| Sound power level LWA                                                                              | LWA [dB(A)]           | 60      | 67      |
| Reference flow rate                                                                                | m <sup>3</sup> /s     | 0,0319  | 0,0630  |
| Reference pressure difference                                                                      | Pa                    | 20      | 28      |
| SPI                                                                                                | W/(m <sup>3</sup> /h) | 0,17422 | 0,12434 |
| Control factor CTRL                                                                                | %                     | 1       | 1       |
| Control typology                                                                                   | -                     | manual  | manual  |
| Maximum internal leakage rates                                                                     | -                     | NA      | NA      |
| Maximum external leakage rates                                                                     | %                     | NA      | NA      |
| Mixing rate                                                                                        | -                     | NA      | NA      |
| Position and description of visual filter warning                                                  | -                     | NA      | NA      |
| Airflow sensitivity to pressure variations at + 20 Pa and – 20 Pa                                  | m <sup>3</sup> /h     | NA      | NA      |
| Indoor/outdoor air tightness                                                                       | -                     | NA      | NA      |
| Annual electricity consumption (AEC)                                                               | kWh electricity/a     | 240     | 171     |
| AHS average Annual heating saved                                                                   | kWh primary energy/a  | 1397    | 1397    |
| AHS cold Annual heating saved                                                                      |                       | 2732    | 2732    |
| AHS warm Annual heating saved                                                                      |                       | 632     | 632     |

\* RVU-U: Unit Ventilation Residential - Unidirectional

\*\* NRVU-U: Unit Ventilation Non Residential - Unidirectional

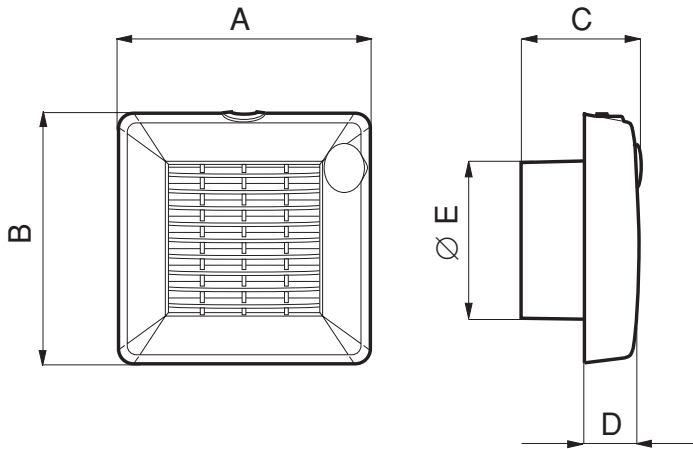
\*\*\* MSD: Multi-Speed Drive



# RESIDENTIAL VENTILATION

## PUNTO RANGE

### DIMENSIONS



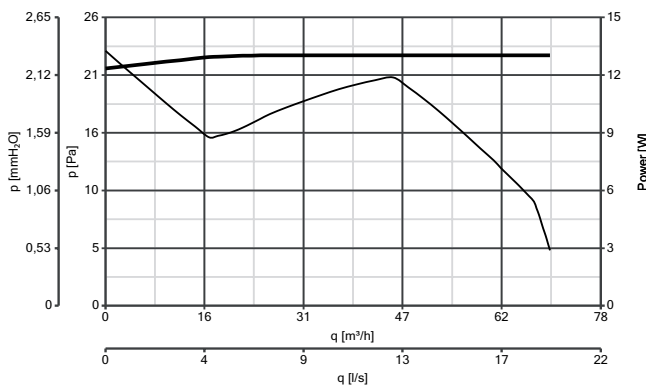
| MODELS    | A   | B   | C   | D  | Ø E  |
|-----------|-----|-----|-----|----|------|
| M 90/3.5" | 159 | 160 | 100 | 47 | 92.5 |
| M 100/4"  |     |     |     |    | 99   |
| M 120/5"  | 179 | 181 | 110 |    | 119  |
| M 150/6"  | 214 | 215 | 117 |    | 156  |

Dimensions (mm)

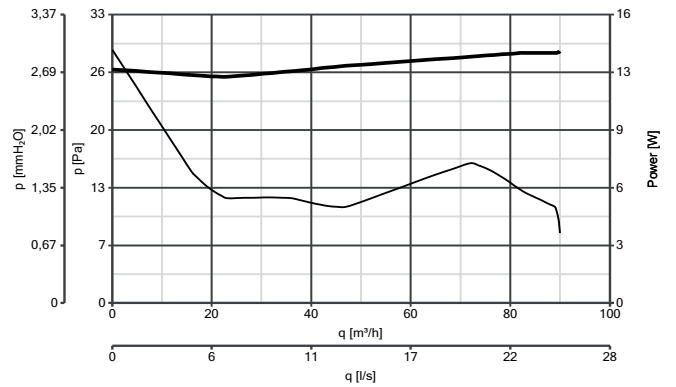
### PERFORMANCE CURVES

— Power consumption — Delivery

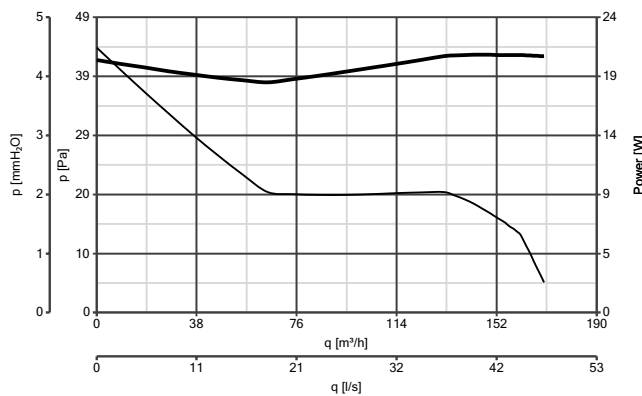
M 90/3,5" - code 11150 - 11153



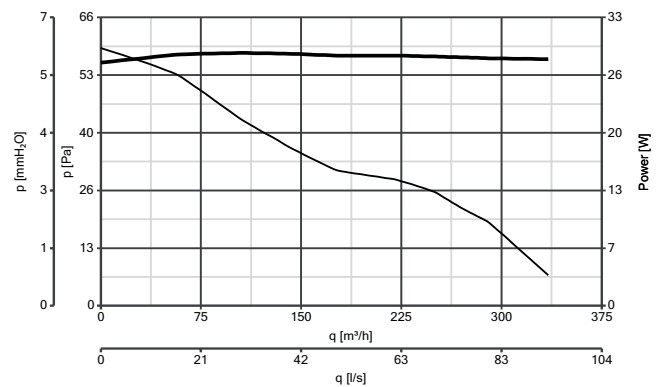
M 100/4" - code 11201 - 11202 - 11203 - 11211 - 11212 - 11221 - 11222 - 11223 - 11231 - 11232 - 11614 - 11616 - 11646 - 11681 - 11682 - 11683 - 11684










M 120/5" - code 11301 - 11302 - 11311 - 11312 - 11321 - 11322 - 11331 - 11332 - 11692 - 11741 - 11746 - 11781 - 11782 - 11783 - 11784



M 150/6" - code 11401 - 11402 - 11411 - 11412 - 11421 - 11422 - 11431 - 11432 - 11698 - 11851 - 11856 - 11881 - 11882 - 11883 - 11884



## ACCESSORIES ON REQUEST

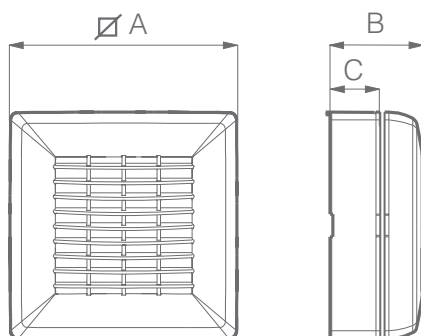
| MODELS                                                                              | DESCRIPTION                                  | CODE    | PRODUCT                                                                                               |                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|----------------------------------------------|---------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | C 1.5 Electronic speed controller 1.5 A      | 12966   | 11150 - 11201 - 11202 - 11222 - 11301 - 11302 - 11321 - 11322 - 11401 - 11402 - 11421 - 11422         |                                                                                                                                                                                                               |
|    | SCNRB Electronic speed controller built-in   | 12971   | 11150 - 11201 - 11202 - 11221 - 11222 - 11301 - 11302 - 11321 - 11322 - 11401 - 11402 - 11421 - 11422 |                                                                                                                                                                                                               |
|    | SCB KIT Bult-in controller adaptor for C 1.5 | 22481   | 12966                                                                                                 |                                                                                                                                                                                                               |
|    | F KIT Kit to window-mount                    | 100/4"  | 22131                                                                                                 | 11201 - 11202 - 11203 - 11211 - 11212 - 11681 - 11682 - 11221 - 11222 - 11223 - 11231 - 11232 - 11683 - 11684 - 11616 - 11614 - 11646                                                                         |
|                                                                                     |                                              | 120/5"  | 22132                                                                                                 | 11301 - 11302 - 11311 - 11312 - 11781 - 11782 - 11783 - 11321 - 11322 - 11331 - 11332 - 11741 - 11746 - 11784 - 11692                                                                                         |
|                                                                                     |                                              | 150/6"  | 22133                                                                                                 | 11401 - 11402 - 11411 - 11412 - 11881 - 11882 - 11421 - 11422 - 11431 - 11432 - 11851 - 11856 - 11883 - 11884 - 11698                                                                                         |
|   | GFI (Grey Fixed Grille)                      | 100/4"  | 22010                                                                                                 | 11150 - 11153 - 11201 - 11202 - 11203 - 11211 - 11212 - 11681 - 11682 - 11221 - 11222 - 11223 - 11231 - 11232 - 11683 - 11684 - 11616                                                                         |
|                                                                                     |                                              | 120/150 | 22020                                                                                                 | 11301 - 11302 - 11311 - 11312 - 11781 - 11782 - 11783 - 11321 - 11322 - 11331 - 11332 - 11784 - 11692 - 11401 - 11402 - 11411 - 11412 - 11881 - 11882 - 11421 - 11422 - 11431 - 11432 - 11883 - 11884 - 11698 |
|                                                                                     |                                              | GFI 10  | 22011                                                                                                 |                                                                                                                                                                                                               |
|  | S Kit Ceiling kit                            | 100/4"  | 22154                                                                                                 | 11150 - 11153 - 11201 - 11202 - 11203 - 11211 - 11212 - 11681 - 11682 - 11221 - 11222 - 11223 - 11231 - 11232 - 11683 - 11684 - 11616                                                                         |
|                                                                                     |                                              | 120/5"  | 22155                                                                                                 | 11301 - 11302 - 11311 - 11312 - 11781 - 11782 - 11783 - 11321 - 11322 - 11331 - 11332 - 11784 - 11692                                                                                                         |
|                                                                                     |                                              | 150/6"  | 22156                                                                                                 | 11401 - 11402 - 11411 - 11412 - 11881 - 11882 - 11421 - 11422 - 11431 - 11432 - 11883 - 11884 - 11698                                                                                                         |
|  | GA                                           | 12V     | 22150                                                                                                 | 11203 - 11223                                                                                                                                                                                                 |
|                                                                                     |                                              | 12V T   | 22151                                                                                                 | 11203 - 11223                                                                                                                                                                                                 |

Accessories on request (description and technical data on page 158)

## F KIT - KIT TO WINDOW-MOUNT

Technical data and dimensions of the "product+kit".

| MODELS   | KIT      | CODE  | W  | A    | RPM  | MAX AIRFLOW |      | Lp dB(A)<br>3 m | MAX<br>°C | Kg   |
|----------|----------|-------|----|------|------|-------------|------|-----------------|-----------|------|
|          |          |       |    |      |      | m³/h        | l/s  |                 |           |      |
| M 100/4" | F 100/4" | 22131 | 18 | 0.10 | 2300 | 85          | 23.6 | 38              | 50        | 0.85 |
| M 120/5" | F 120/5" | 22132 | 20 | 0.12 | 2000 | 140         | 38.9 | 40.5            |           | 1.15 |
| M 150/6" | F 150/6" | 22133 | 30 | 0.15 | 1950 | 280         | 77.8 | 44.5            |           | 1.56 |



| MODELS   | ∅ A | B  | C  | ∅ GLASS HOLE | THICKNESS |
|----------|-----|----|----|--------------|-----------|
| M 100/4" | 158 | 69 | 22 | 123 ÷ 128    | 20        |
| M 120/5" | 179 | 80 | 33 | 143 ÷ 148    |           |
| M 150/6" | 213 | 87 | 40 | 178 ÷ 183    |           |

Dimensions (mm)