



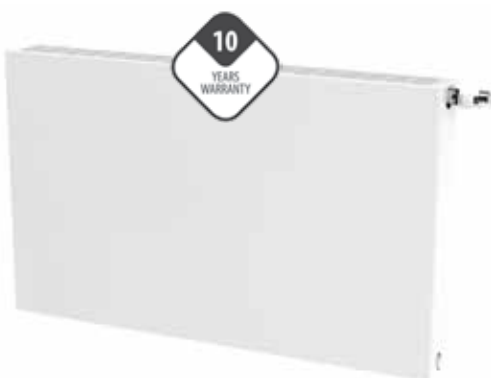
**DISCOVER PLANAR VENTO**

## General information

### PLANAR VENTO

The Planar VENTO ultra-low-temperature radiator is the decorative version in our VENTO range. The fully automatic radiator with integrated fans provides an enhanced convection. This makes the radiator extremely suitable for low and ultra-low supply temperatures, such as with heat pumps. In addition, the VENTO can provide non-condensing cooling in combination with a heat pump.

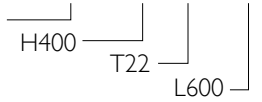
|                            |  |
|----------------------------|--|
| Product:                   | decorative ultra-low-temperature valve radiator with a flat front and integrated fans for a boosted convection   |
| Finishing:                 | decorative flat front, upper grille and side panels  |
| Pre-installed:             | fully automatic fans, preset Heimeier 4368 or 4369 valve insert, air vent and blind plugs  |
| Valve insert:              | The integrated adjustable valve insert (without thermostatic head) is factory-fit on the right side of the radiator, CEN certified, tested in accordance with EN215 and compatible with thermostatic heads M30 x 1,5 mm. The thermostatic valve insert is factory-set in relation to the size of the radiator. This presetting ensures optimum throughput in the radiator. Factory setting for two-pipe systems, also suitable for one-pipe systems (as long as the valve insert is adjusted to position 8). |
| Also supplied:             | AC/DC adapter 240V/12V with 1,5 m power cable, VDI brackets with anti-lift (type Monclac), screws, plugs and installation instructions   |
| Control:                   | fully automatic, modulating control. When plugging in, the fans will briefly operate to check their proper functioning. During their normal operation the fans will start when the bottom side remains warm during a certain amount of time. This may take 10 – 30 minutes.  |
| Cooling:                   | in combination with a heat pump. The inlet temperature must remain above the dew point. For optimal cooling, the direction of the water through the radiator must be reversed, and the thermostatic head fully open. If the room temperature is higher than the maximum temperature setting of the radiator thermostat, the thermostatic head must be temporarily removed.   |
| Sound pressure:            | max. 32 dB(A) at a distance of 1 meter; for a radiator with a length of 1.000 mm and a height of 600 mm  |
| Connections:               | 6 x ½" female connection (2 x ½" lateral bottom connection included).  |
| Lugs:                      | 2 pairs of mounting lugs up to 1.600 mm and 3 pairs from 1.800 mm  |
| Packaging:                 | Every radiator is sturdily packaged in high-quality cardboard and wrapped in plastic. The radiator's characteristics are shown on the label: type – height – length.   |
| Warranty:                  | 10 years for the radiator and 2 years for the electrical components, as long as the installation instructions have been followed and Stelrad's warranty conditions have been met.  |
| Paint process:             | All radiators are degreased, phosphated, cathodically primed and powder-coated in Stelrad white 9016 as standard.  |
| Colours:                   | Stelrad white 9016 + 35 different Stelrad colours and about 200 RAL-colours are possible   |
| Max. operating pressure:   | 10 bar (tested to 13 bar)  |
| Min./max. operating temp.: | 35 – 60 °C   |
| Conformity:                | in accordance with EN16430   |
| Max. electrical power:     | 1,2 – 7 W  |
| Number of fans:            | 4 – 21   |
| Type:                      | 22   |
| Heights:                   | 400   600   900 mm   |
| Lengths:                   | 500 – 2.000 mm   |
| Depth:                     | 102 mm   |



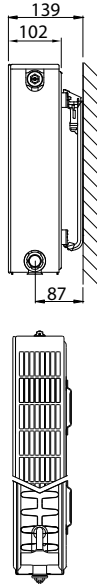
## Type overview and Heat outputs in Watt according to EN16430

On the label:  
VENTO PLAN T22: 0240

Art. 0240 04 22 06



Calculation factor  
per meter  
at 75/65/20°C  
according to  
EN16430



Characteristic  
equation:

$$\Phi = K_M \times \Delta T^n$$

|            |        |         |            |
|------------|--------|---------|------------|
| $\Delta T$ | 12,5°C | EN16430 | 35/30/20°C |
| $\Delta T$ | 20°C   | EN16430 | 45/35/20°C |

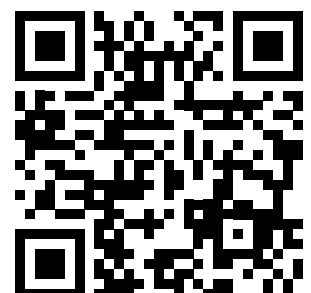
| Type        | 22          |             |             | Type        |
|-------------|-------------|-------------|-------------|-------------|
| Height      | 400         | 600         | 900         | Height      |
| <b>500</b>  | 145<br>254  | 185<br>327  | 225<br>406  | <b>500</b>  |
|             | 0240042205  | 0240062205  | 0240092205  |             |
| <b>600</b>  | 173<br>305  | 222<br>392  | 270<br>487  | <b>600</b>  |
|             | 0240042206  | 0240062206  | 0240092206  |             |
| <b>700</b>  | 202<br>355  | 259<br>458  | 315<br>568  | <b>700</b>  |
|             | 0240042207  | 0240062207  | 0240092207  |             |
| <b>800</b>  | 231<br>406  | 296<br>523  | 360<br>650  | <b>800</b>  |
|             | 0240042208  | 0240062208  | 0240092208  |             |
| <b>900</b>  | 260<br>457  | 333<br>588  | 405<br>731  | <b>900</b>  |
|             | 0240042209  | 0240062209  | 0240092209  |             |
| <b>1000</b> | 289<br>508  | 370<br>654  | 450<br>812  | <b>1000</b> |
|             | 0240042210  | 0240062210  | 0240092210  |             |
| <b>1100</b> | 318<br>558  | 407<br>719  | 495<br>893  | <b>1100</b> |
|             | 0240042211  | 0240062211  | 0240092211  |             |
| <b>1200</b> | 347<br>609  | 444<br>784  | 540<br>974  | <b>1200</b> |
|             | 0240042212  | 0240062212  | 0240092212  |             |
| <b>1400</b> | 405<br>711  | 518<br>915  | 630<br>1137 | <b>1400</b> |
|             | 0240042214  | 0240062214  | 0240092214  |             |
| <b>1600</b> | 462<br>812  | 592<br>1046 | 721<br>1299 | <b>1600</b> |
|             | 0240042216  | 0240062216  | 0240092216  |             |
| <b>1800</b> | 520<br>914  | 666<br>1177 |             | <b>1800</b> |
|             | 0240042218  | 0240062218  |             |             |
| <b>2000</b> | 578<br>1015 | 740<br>1307 |             | <b>2000</b> |
|             | 0240042220  | 0240062220  |             |             |

| Height     |                | Type 22 | Centre distance |
|------------|----------------|---------|-----------------|
| <b>400</b> | W              | 1.522   | <b>350</b>      |
|            | kg             | 24,67   |                 |
|            | l              | 4,60    |                 |
|            | m <sup>2</sup> | 4,92    |                 |
|            | n              | 1,20    |                 |
| <b>600</b> | W              | 1.983   | <b>550</b>      |
|            | kg             | 35,70   |                 |
|            | l              | 6,60    |                 |
|            | m <sup>2</sup> | 7,74    |                 |
|            | n              | 1,21    |                 |
| <b>900</b> | W              | 2.562   | <b>850</b>      |
|            | kg             | 53,55   |                 |
|            | l              | 9,65    |                 |
|            | m <sup>2</sup> | 12,68   |                 |
|            | n              | 1,25    |                 |

W=heat output per meter / kg=weight per meter  
l=content per meter / m<sup>2</sup>=surface per meter / n=exponent

The manufacturer reserves the right to alter any of the specifications  
shown in this document without prior notice.

The assembly instructions are available on our website,  
technical data of Planar Vento or via the QR-code:



# SOUND PRESSURE

The modulation system ensures you achieve your optimal temperature without needing a lot of technical knowledge. And you won't be disturbed by the ventilators that generate additional convection heat. While other classic systems usually have three settings, the VENTO convection technology has a modulating thermostat to ensure it reaches your desired temperature quickly and noiselessly.

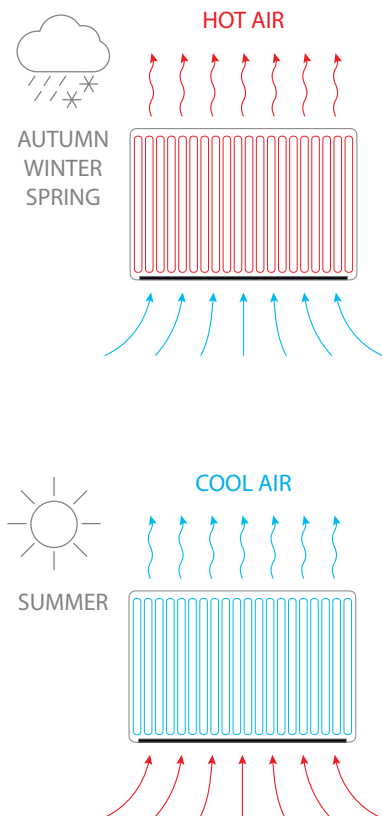
The VENTO only works at full tilt when the temperature in your home has fallen to a low level. In that case the sound pressure at 1 meter of a model measuring 600 mm by 1.000 mm is just 32 dB(A), the level of a whisper.

## HOW LOUD IS A GIVEN DECIBEL LEVEL?

| dB(A) | Perception          | Examples  |
|-------|---------------------|---|
| 10    | Virtually inaudible | Breathing, falling leaf                             |
| 20    | Just audible        | Radio studio, rustling leaves                       |
| 30    | Very quiet          | Library (30-40), whispers                           |
| 40    | Quiet               | Living room, quiet classroom, gentle hubbub, fridge |
| 50    | Moderate            | Airconditioning, normal conversation, dishwasher    |

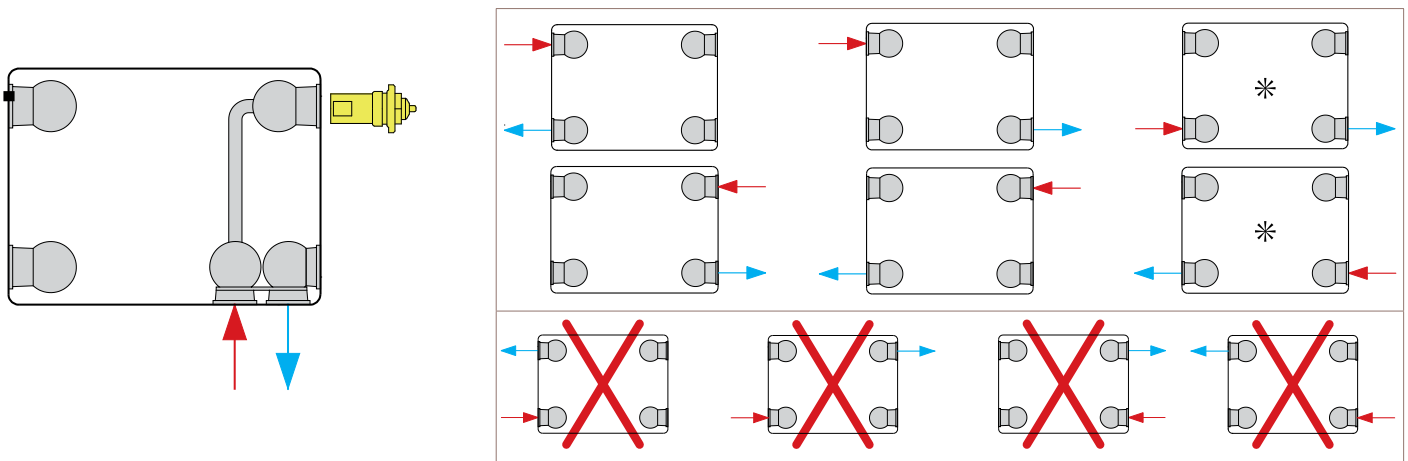
# COOLING

But that's not all, because when you use it with a heat pump set at no lower than 17°C you can also use a VENTO radiator to cool down your home. Homes are increasingly being well insulated, which increases the risk of overheating in the summer. The cooling kicks in automatically, generating a pleasant breeze.



| (Watt)           |                | H 400    |           | H 600    |           | H 900    |           |
|------------------|----------------|----------|-----------|----------|-----------|----------|-----------|
| Ventilator speed |                | Stand-by | Dyn. max. | Stand-by | Dyn. max. | Stand-by | Dyn. max. |
| n exponent       |                | 1,2917   | 0,9211    | 1,3066   | 0,9528    | 1,3202   | 0,8715    |
| L 500            | 17 / 19 / 28°C | 57       | 95        | 79       | 113       | 107      | 122       |
| L 600            | 17 / 19 / 28°C | 68       | 113       | 94       | 135       | 128      | 146       |
| L 700            | 17 / 19 / 28°C | 80       | 132       | 110      | 158       | 149      | 170       |
| L 800            | 17 / 19 / 28°C | 91       | 151       | 126      | 180       | 170      | 194       |
| L 900            | 17 / 19 / 28°C | 103      | 170       | 141      | 203       | 192      | 219       |
| L 1000           | 17 / 19 / 28°C | 114      | 189       | 157      | 225       | 213      | 243       |
| L 1100           | 17 / 19 / 28°C | 125      | 208       | 173      | 248       | 234      | 267       |
| L 1200           | 17 / 19 / 28°C | 137      | 227       | 188      | 270       | 256      | 292       |
| L 1400           | 17 / 19 / 28°C | 160      | 265       | 220      | 315       | 298      | 340       |
| L 1600           | 17 / 19 / 28°C | 182      | 302       | 251      | 360       | 341      | 389       |
| L 1800           | 17 / 19 / 28°C | 205      | 340       | 283      | 405       | -        | -         |
| L 2000           | 17 / 19 / 28°C | 228      | 378       | 314      | 450       | -        | -         |

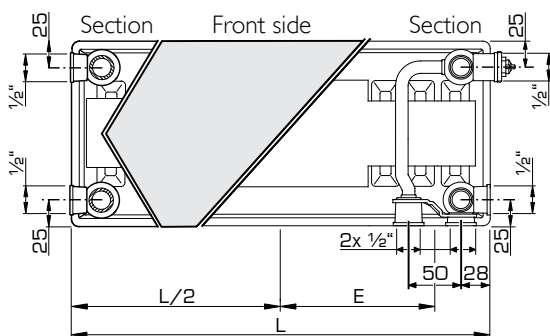
# CONNECTION POSSIBILITIES



When connecting as a compact radiator, the valve insert has to be removed and plastic plugs have to be replaced with brass plugs.

\* = a reduction in heatoutput will occur when combining low temperature heating with a high temperature difference between inlet and outlet. Not suitable for cooling.

## MOUNTING DIMENSIONS



|        |     |     |     |     |     |      |      |      |      |      |      |      |
|--------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| L (mm) | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 |
| E (mm) | 197 | 247 | 297 | 347 | 397 | 447  | 497  | 547  | 647  | 747  | 847  | 947  |

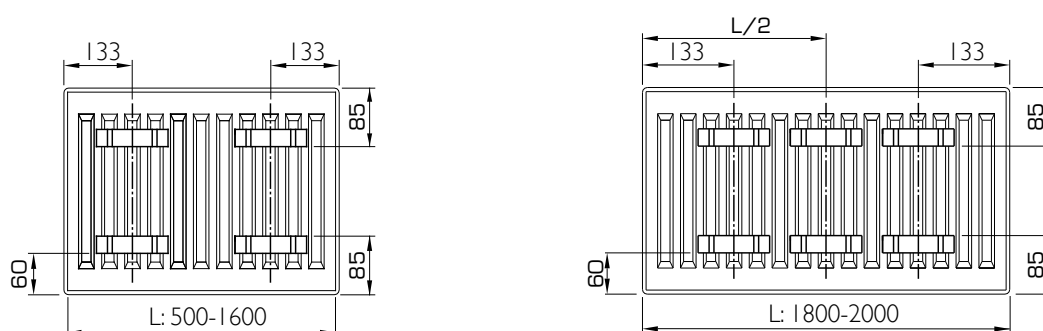
L: Length ; F: Centre distance = Height - 50 mm  
Minimum distance radiator bottom to floor: 150 mm.

## J-BRACKETS (TYPE MONCLAC, VDI 6036, CLASS 3)

| x   | y   | Art. N°. |         | Height mm |
|-----|-----|----------|---------|-----------|
|     |     | (2 pc.)  | (3 pc.) |           |
| 103 | 240 | R509204  | R509304 | 400       |
| 103 | 440 | R509206  | R509306 | 600       |
| 103 | 740 | R509209  | R509309 | 900       |

For lengths above 1.600 mm: 3 brackets needed.

## LUG POSITIONS





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**THE NETHERLANDS**

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