Ideal for heat pumps

HENRAD

# VENTO,
# THE ULTRA-LOW TEMPERATURE RADIATOR

Very economical, very comfortable

VENTO brochure
2023 Export

Compact **VENTO** • Everest Plan **VENTO**

# HEATING AT ULTRA LOW TEMPERATURE

## Choose sustainability

**Ultra low temperature radiators**

## Highly efficient

Sustainable energy consumption is a non-negotiable. As standards become ever stricter, more and more fossil fuel heating systems are being switched off for good. By 2050 every new home in the EU must be carbon neutral.

We all have to reduce energy consumption in our homes.
We can achieve that with good insulation and heating at low temperatures, be that with a **traditional central heating system** or a **renewable energy** solution like a heat pump.

To heat your home efficiently and achieve a comfortable temperature you need **the right heat emitters**. The **VENTO low-temperature radiator** is specially designed to be highly efficient even at ultra-low water temperatures, for renovation and newbuild.

And you can still install VENTO radiators even if you're not quite ready to invest in a heat pump yet. The key to **optimal energy-efficient home heating** that's fit for the future. Not forgetting their timeless look. VENTO is the sustainable choice in every regard.

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**HENRAD, BLAZING A TRAIL IN LOW-TEMPERATURE RADIATORS**

Henrad is one of Europe's leading radiator brands, a trailblazer in the development of low-temperature radiators. And we always guarantee the highest quality, ensuring you benefit from the optimal home heating solution at the lowest possible cost. Whether yours is a compact terraced house in town or a spacious detached residence in the countryside: every home deserves that enduring Henrad quality.

# VENTO

## Thrifty with energy, utterly comfortable

**A VENTO low-temperature radiator heats your home at the lower water temperatures, saving money without compromising on comfort.**

### ENERGY EFFICIENT

Heat sources like heat pumps are more efficient when running on a low temperature supply, even as low as 35°C. The temperature of a modern heating system will be between 35°C and 60°C, which is precisely VENTO's optimal temperature range. Traditional central heating systems on the other hand run on water heated to 80°C. **Lowering the temperature** reduces your energy bill and your carbon emissions. And you help achieve the EU's goal of carbon neutrality by 2050.

### Did you know...

A low-temperature heating system can reduce your energy consumption by up to **20 per cent**? That will be immediately reflected in your bill without compromising on room temperature and speed of heating.

### WHISPER IT: JUST PERFECT

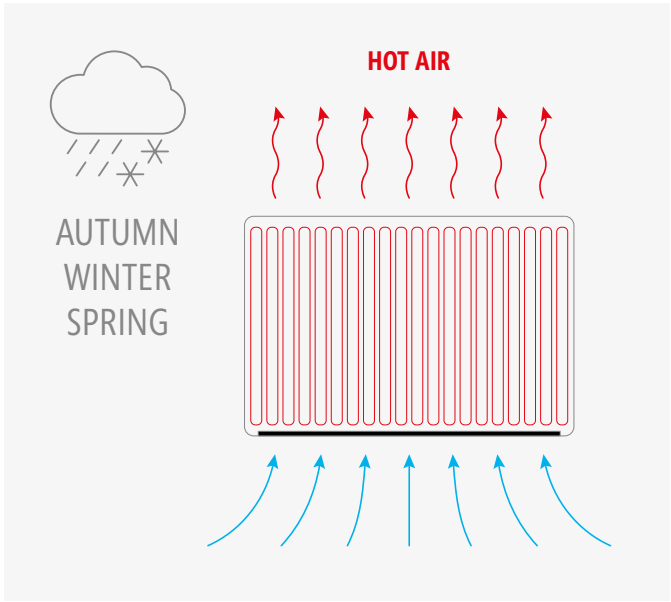
The modulation system ensures you achieve your **optimal temperature** without needing a lot of technical knowledge. And you won't be disturbed by the ventilators that generate **additional convection heat**. While other classic systems usually have three settings, the VENTO convection technology has 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 600mm by 1000mm is just 32dB(A), the level of a whisper.

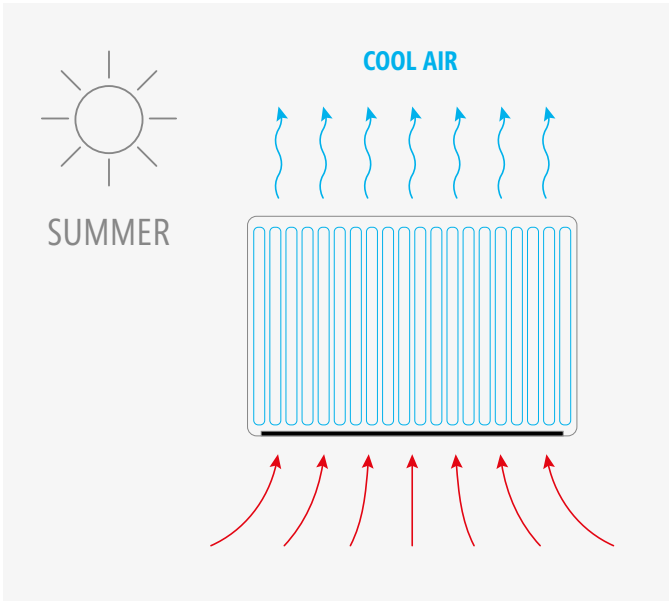
But that's not all, because when you use it with a heat pump set at no lower than 17°C you can also use a VENTO radiator to **slightly cool** your home. Homes are increasingly being well insulated, which increases the risk of overheating in the summer. The cooling kicks in automatically, generating a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

Compact VENTO

"Built-in ventilators automatically generate additional convection heat."

Compact **VENTO** • Everest Plan **VENTO**


HOT AIR
AUTUMN
WINTER
SPRING


COOL AIR
SUMMER

# VENTO

## This radiator makes your life easier

**VENTO and innovative heating technology go hand in hand.**
**The radiators are easy to install and easy to use.**

### SMART AND USER-FRIENDLY

The fully automatic VENTO radiators **work like any other radiator**. There are no confusing operating panels or bewildering buttons. The temperature is regulated in the same way as in regular radiators, with a thermostatic valve with or without a room thermostat.

### EASY TO INSTALL

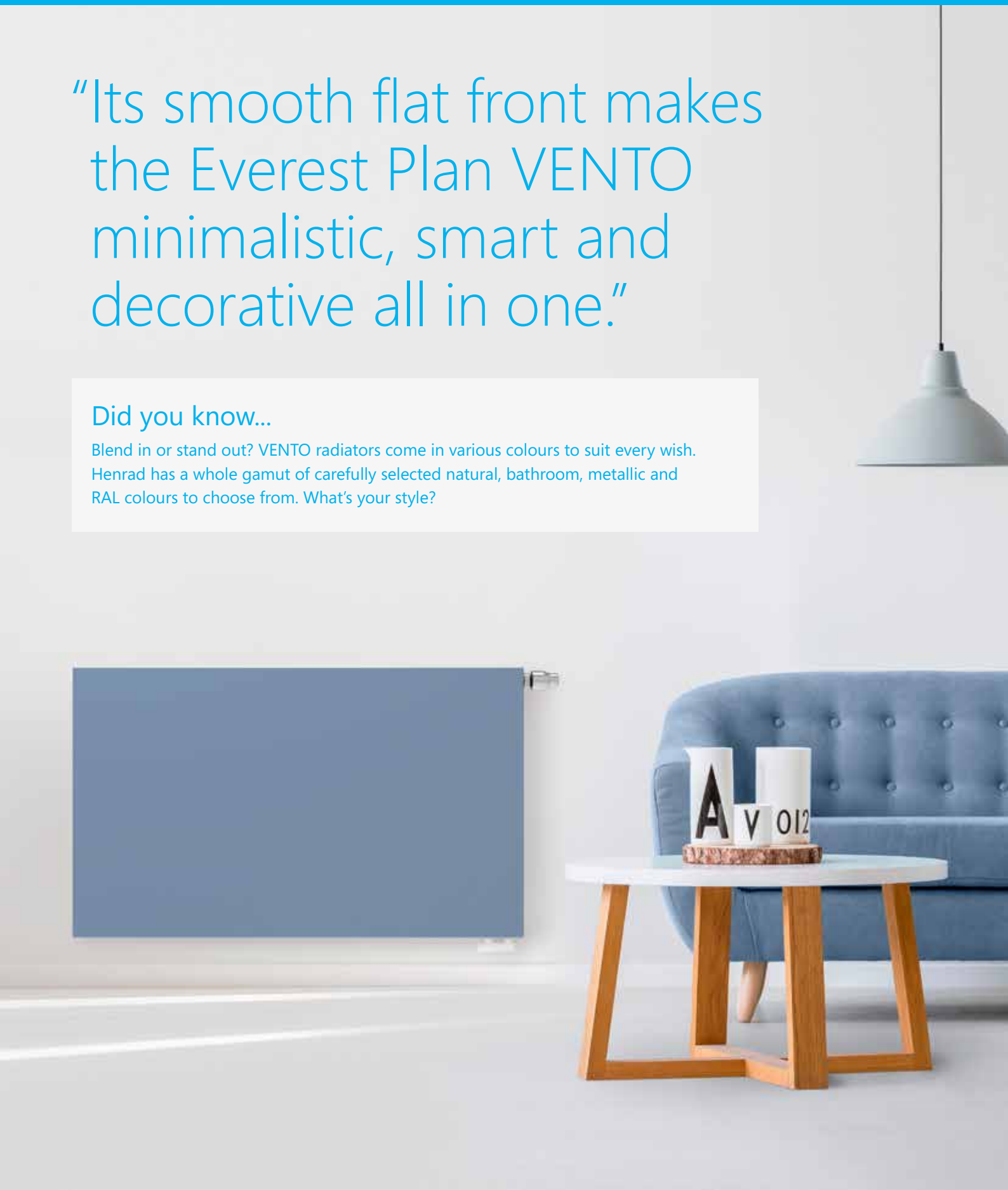
Gas condensation boiler, fuel oil boiler or (hybrid) heating pump. VENTO radiators can be **easily connected to any heating source**. A hybrid heating pump is clearly the best option. VENTO radiators are installed in the same way as traditional radiators. All you need is a free socket.

Compact **VENTO** • Everest Plan **VENTO**

# “Its smooth flat front makes the Everest Plan VENTO minimalistic, smart and decorative all in one.”

## Did you know...

Blend in or stand out? VENTO radiators come in various colours to suit every wish. Henrad has a whole gamut of carefully selected natural, bathroom, metallic and RAL colours to choose from. What’s your style?



# VENTO
## Looks good in every home

**The VENTO range comprises two stylish panel radiator series that look perfect in any renovated or newbuild home: Compact VENTO and Everest Plan VENTO.**

### STYLISH HEATING

Everything is built into VENTO radiators, so they retain that classic radiator form. They are two versions: the Compact VENTO with four connections and a ridged front panel, and the Everest Plan VENTO with six connections and a flat front panel. The Everest Plan VENTO is more minimalistic, smart and decorative. Both are **type-22 radiators**, available in **9 different widths** (500mm-2000mm) and **three different heights** (400, 600 and 900mm). You choose.

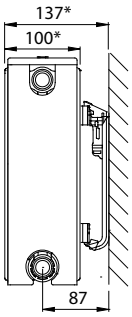
### NEWBUILD AND RENOVATION

VENTO radiators can be combined with all types of heat sources, which makes them suitable for newbuild or renovations. They are specially designed to **connect to existing pipework**. The Compact has four connections on the side. The Everest Plan also has two lateral connections at the bottom. This makes this luxury radiator very suitable for renovations.

Compact **VENTO** • Everest Plan **VENTO**

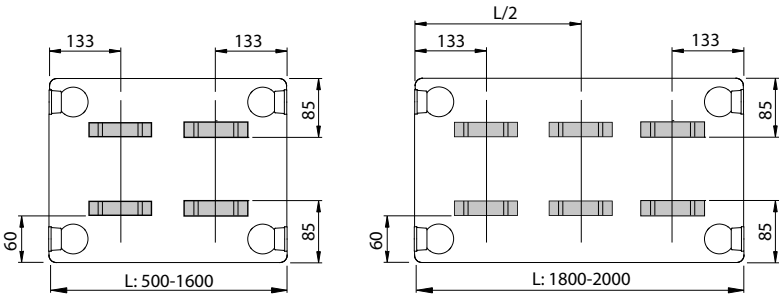
# TECHNICAL INFORMATION

## WALL MOUNTING

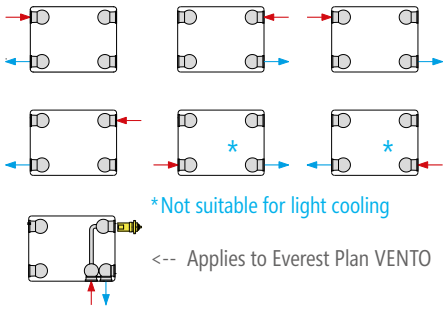



* + 2mm for Everest Plan VENTO

## LUG POSITION



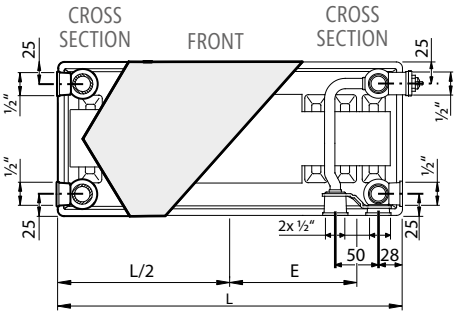

## CONNECTION OPTIONS



*Not suitable for light cooling

<-- Applies to Everest Plan VENTO

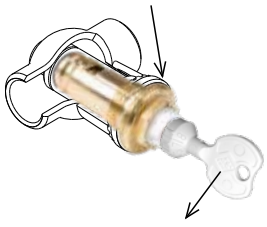
## EVEREST PLAN VENTO CONNECTION SIZES




| 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 |

## VALVE

Thermostat valve screw thread:
M30 x 1.5mm



Valve key
Art no T1622

## SOUND PRESSURE

The VENTO radiator is modulated. This minimises the amount of noise generated, making it virtually silent. 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 600mm by 1000mm is just 32dB(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 |

# Compact VENTO

## Heat emissions (watts)

| Length (mm) | Height (mm) | 400 | | 600 | | 900 | |
|---|---|---|---|---|---|---|---|
| | Ventilator speed | Stand-by | Dyn. max | Stand-by | Dyn. max | Stand-by | Dyn. max |
| | n exponent | 1.3273 | 1.2046 | 1.3494 | 1.2359 | 1.3915 | 1.2705 |
| 500 | 55/45/20°C | 278 | 416 | 377 | 530 | 514 | 697 |
| | 45/35/20°C | 162 | 256 | 218 | 321 | 292 | 416 |
| | 35/30/20°C | 87 | 145 | 116 | 180 | 152 | 229 |
| 600 | 55/45/20°C | 334 | 500 | 453 | 636 | 616 | 836 |
| | 45/35/20°C | 195 | 307 | 262 | 385 | 351 | 499 |
| | 35/30/20°C | 104 | 174 | 139 | 215 | 182 | 275 |
| 700 | 55/45/20°C | 389 | 583 | 528 | 742 | 719 | 975 |
| | 45/35/20°C | 227 | 358 | 306 | 449 | 409 | 583 |
| | 35/30/20°C | 122 | 203 | 162 | 251 | 213 | 321 |
| 800 | 55/45/20°C | 445 | 666 | 604 | 848 | 822 | 1115 |
| | 45/35/20°C | 260 | 409 | 349 | 514 | 467 | 666 |
| | 35/30/20°C | 139 | 232 | 185 | 287 | 243 | 366 |
| 900 | 55/45/20°C | 501 | 750 | 679 | 954 | 924 | 1254 |
| | 45/35/20°C | 292 | 460 | 393 | 578 | 526 | 749 |
| | 35/30/20°C | 157 | 261 | 208 | 323 | 273 | 412 |
| 1000 | 55/45/20°C | 556 | 833 | 755 | 1060 | 1027 | 1393 |
| | 45/35/20°C | 325 | 511 | 437 | 642 | 584 | 832 |
| | 35/30/20°C | 174 | 290 | 232 | 359 | 304 | 458 |
| 1100 | 55/45/20°C | 612 | 916 | 830 | 1165 | 1130 | 1532 |
| | 45/35/20°C | 357 | 562 | 480 | 706 | 643 | 916 |
| | 35/30/20°C | 191 | 319 | 255 | 395 | 334 | 504 |
| 1200 | 55/45/20°C | 668 | 999 | 906 | 1271 | 1233 | 1672 |
| | 45/35/20°C | 390 | 613 | 524 | 770 | 701 | 999 |
| | 35/30/20°C | 209 | 348 | 278 | 431 | 365 | 550 |
| 1400 | 55/45/20°C | 779 | 1166 | 1057 | 1483 | 1438 | 1950 |
| | 45/35/20°C | 455 | 715 | 611 | 899 | 818 | 1165 |
| | 35/30/20°C | 244 | 406 | 324 | 503 | 425 | 641 |
| 1600 | 55/45/20°C | 890 | 1333 | 1208 | 1695 | 1644 | 2229 |
| | 45/35/20°C | 520 | 818 | 699 | 1027 | 935 | 1332 |
| | 35/30/20°C | 278 | 464 | 371 | 575 | 486 | 733 |
| 1800 | 55/45/20°C | 1001 | 1499 | 1359 | 1907 | - | - |
| | 45/35/20°C | 585 | 920 | 786 | 1155 | - | - |
| | 35/30/20°C | 313 | 522 | 417 | 646 | - | - |
| 2000 | 55/45/20°C | 1113 | 1666 | 1510 | 2119 | - | - |
| | 45/35/20°C | 650 | 1022 | 874 | 1284 | - | - |
| | 35/30/20°C | 348 | 580 | 463 | 718 | - | - |

Emissions in watts (EN16430)

## Cooling emissions (watts)

| Length (mm) | Height (mm) | 400 | | 600 | | 900 | |
|---|---|---|---|---|---|---|---|
| | Ventilator speed | Stand-by | Dyn. max | Stand-by | Dyn. max | Stand-by | Dyn. max |
| | n exponent | 1.305 | 0.8937 | 1.3055 | 0.9204 | 1.2942 | 0.82 |
| 500 | 17/19/28°C | 59 | 92 | 81 | 109 | 113 | 128 |
| 600 | 17/19/28°C | 70 | 110 | 97 | 130 | 136 | 153 |
| 700 | 17/19/28°C | 82 | 129 | 113 | 152 | 158 | 179 |
| 800 | 17/19/28°C | 94 | 147 | 130 | 174 | 181 | 204 |
| 900 | 17/19/28°C | 105 | 166 | 146 | 195 | 203 | 230 |
| 1000 | 17/19/28°C | 117 | 184 | 162 | 217 | 226 | 255 |
| 1100 | 17/19/28°C | 129 | 202 | 178 | 239 | 249 | 281 |
| 1200 | 17/19/28°C | 140 | 221 | 194 | 260 | 271 | 306 |
| 1400 | 17/19/28°C | 164 | 258 | 227 | 304 | 316 | 357 |
| 1600 | 17/19/28°C | 187 | 294 | 259 | 347 | 362 | 408 |
| 1800 | 17/19/28°C | 211 | 331 | 292 | 391 | - | - |
| 2000 | 17/19/28°C | 234 | 368 | 324 | 434 | - | - |

## Weight (kg)

| | Height (mm) | | |
|---|---|---|---|
| Length (mm) | 400 | 600 | 900 |
| 500 | 11.1 | 15.1 | 23.4 |
| 600 | 13.3 | 18.1 | 28.1 |
| 700 | 15.5 | 21.1 | 32.8 |
| 800 | 17.7 | 24.1 | 37.5 |
| 900 | 19.9 | 27.1 | 42.2 |
| 1000 | 22.1 | 30.1 | 46.8 |
| 1100 | 24.4 | 33.2 | 51.5 |
| 1200 | 26.6 | 36.2 | 56.2 |
| 1400 | 31.0 | 42.2 | 65.6 |
| 1600 | 35.4 | 48.2 | 74.9 |
| 1800 | 39.8 | 54.2 | - |
| 2000 | 44.2 | 60.2 | - |

## Maximal electric power

| Length (mm) | Ventilators (#) | P input (watts) |
|---|---|---|
| 500 | 4 | 1.2 |
| 600 | 5 | 1.5 |
| 700 | 6 | 2 |
| 800 | 8 | 2.5 |
| 900 | 9 | 3 |
| 1000 | 9 | 3 |
| 1100 | 10 | 3.2 |
| 1200 | 11 | 3.5 |
| 1400 | 13 | 4.1 |
| 1600 | 15 | 5 |
| 1800 | 18 | - |
| 2000 | 21 | - |

# Everest Plan VENTO

## Heat emissions (watts)

| Length (mm) | Height (mm) | 400 | | 600 | | 900 | |
|---|---|---|---|---|---|---|---|
| | Ventilator speed | Stand-by | Dyn. max | Stand-by | Dyn. max | Stand-by | Dyn. max |
| | n exponent | 1.3148 | 1.1983 | 1.3387 | 1.2111 | 1.3400 | 1.2541 |
| 500 | 55/45/20°C | 270 | 413 | 367 | 534 | 509 | 675 |
| | 45/35/20°C | 158 | 254 | 213 | 327 | 296 | 406 |
| | 35/30/20°C | 85 | 145 | 114 | 185 | 158 | 225 |
| 600 | 55/45/20°C | 324 | 495 | 440 | 641 | 611 | 810 |
| | 45/35/20°C | 190 | 305 | 256 | 392 | 355 | 487 |
| | 35/30/20°C | 102 | 173 | 136 | 222 | 189 | 270 |
| 700 | 55/45/20°C | 378 | 578 | 513 | 748 | 713 | 945 |
| | 45/35/20°C | 222 | 355 | 298 | 458 | 414 | 568 |
| | 35/30/20°C | 120 | 202 | 159 | 259 | 221 | 315 |
| 800 | 55/45/20°C | 432 | 660 | 587 | 854 | 815 | 1080 |
| | 45/35/20°C | 253 | 406 | 341 | 523 | 473 | 650 |
| | 35/30/20°C | 137 | 231 | 182 | 296 | 252 | 360 |
| 900 | 55/45/20°C | 486 | 743 | 660 | 961 | 917 | 1215 |
| | 45/35/20°C | 285 | 457 | 384 | 588 | 533 | 731 |
| | 35/30/20°C | 154 | 260 | 204 | 333 | 284 | 405 |
| 1000 | 55/45/20°C | 540 | 825 | 733 | 1068 | 1019 | 1350 |
| | 45/35/20°C | 317 | 508 | 426 | 654 | 592 | 812 |
| | 35/30/20°C | 171 | 289 | 227 | 370 | 315 | 450 |
| 1100 | 55/45/20°C | 594 | 908 | 807 | 1175 | 1121 | 1485 |
| | 45/35/20°C | 349 | 558 | 469 | 719 | 651 | 893 |
| | 35/30/20°C | 188 | 318 | 250 | 407 | 347 | 495 |
| 1200 | 55/45/20°C | 648 | 990 | 880 | 1282 | 1223 | 1620 |
| | 45/35/20°C | 380 | 609 | 511 | 784 | 710 | 974 |
| | 35/30/20°C | 205 | 347 | 273 | 444 | 378 | 540 |
| 1400 | 55/45/20°C | 756 | 1155 | 1027 | 1495 | 1426 | 1890 |
| | 45/35/20°C | 444 | 711 | 597 | 915 | 828 | 1137 |
| | 35/30/20°C | 239 | 405 | 318 | 518 | 441 | 630 |
| 1600 | 55/45/20°C | 864 | 1320 | 1173 | 1709 | 1630 | 2160 |
| | 45/35/20°C | 507 | 812 | 682 | 1046 | 947 | 1299 |
| | 35/30/20°C | 273 | 462 | 363 | 592 | 504 | 721 |
| 1800 | 55/45/20°C | 972 | 1485 | 1320 | 1923 | - | - |
| | 45/35/20°C | 570 | 914 | 767 | 1177 | - | - |
| | 35/30/20°C | 307 | 520 | 409 | 666 | - | - |
| 2000 | 55/45/20°C | 1080 | 1650 | 1467 | 2136 | - | - |
| | 45/35/20°C | 634 | 1015 | 852 | 1307 | - | - |
| | 35/30/20°C | 342 | 578 | 454 | 740 | - | - |

Emissions in watts (EN16430)

## Cooling emissions (watts)

| Length (mm) | Height (mm) | 400 | | 600 | | 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 |
| 500 | 17/19/28°C | 57 | 95 | 79 | 113 | 107 | 122 |
| 600 | 17/19/28°C | 68 | 113 | 94 | 135 | 128 | 146 |
| 700 | 17/19/28°C | 80 | 132 | 110 | 158 | 149 | 170 |
| 800 | 17/19/28°C | 91 | 151 | 126 | 180 | 170 | 194 |
| 900 | 17/19/28°C | 103 | 170 | 141 | 203 | 192 | 219 |
| 1000 | 17/19/28°C | 114 | 189 | 157 | 225 | 213 | 243 |
| 1100 | 17/19/28°C | 125 | 208 | 173 | 248 | 234 | 267 |
| 1200 | 17/19/28°C | 137 | 227 | 188 | 270 | 256 | 292 |
| 1400 | 17/19/28°C | 160 | 265 | 220 | 315 | 298 | 340 |
| 1600 | 17/19/28°C | 182 | 302 | 251 | 360 | 341 | 389 |
| 1800 | 17/19/28°C | 205 | 340 | 283 | 405 | - | - |
| 2000 | 17/19/28°C | 228 | 378 | 314 | 450 | - | - |

## Weight (kg)

| | Height (mm) | | |
|---|---|---|---|
| Length (mm) | 400 | 600 | 900 |
| 500 | 12.4 | 17.9 | 26.8 |
| 600 | 14.9 | 21.5 | 32.2 |
| 700 | 17.3 | 25.0 | 37.6 |
| 800 | 19.8 | 28.6 | 42.9 |
| 900 | 22.3 | 32.2 | 48.3 |
| 1000 | 24.7 | 35.7 | 53.6 |
| 1100 | 27.2 | 39.3 | 59.0 |
| 1200 | 29.7 | 42.9 | 64.4 |
| 1400 | 34.6 | 50.0 | 75.1 |
| 1600 | 39.6 | 57.2 | 85.8 |
| 1800 | 44.5 | 64.3 | - |
| 2000 | 49.4 | 71.4 | - |

## Maximal electric power

| Length (mm) | Ventilators (#) | P input (watts) |
|---|---|---|
| 500 | 4 | 1.2 |
| 600 | 5 | 1.5 |
| 700 | 6 | 2 |
| 800 | 8 | 2.5 |
| 900 | 9 | 3 |
| 1000 | 9 | 3 |
| 1100 | 10 | 3.2 |
| 1200 | 11 | 3.5 |
| 1400 | 13 | 4.1 |
| 1600 | 15 | 5 |
| 1800 | 18 | - |
| 2000 | 21 | - |

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**HENRAD**

Henrad N.V.
Welvaartstraat 14 bus 6 • 2200 Herentals • Belgium
T. +32 (0)14 212 075

WWW.HENRAD.EU

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