

MINIB[®]



WALL MOUNTED AND FREE STANDING CONVECTORS

●●● more than just heat

ABOUT US



CERTIFICATE

The Certification Body for the Quality Management System No. 3053
TÜV SÜD Czech s.r.o.

certifies that

MINIB

MINIB s.r.o.
Spatkovice 40049
CZ - 162 09 Praha 6
Ident. No.: 2272153

has established and applies
a Quality Management System for

fan coil manufacture

An audit was performed, Report No. 00612019/08MAZIC

Proof has been furnished that the requirements
according to

ČSN EN ISO 9001:2009

are fulfilled. The certificate is valid until 11.02.2013
Certificate Registration No. 01.281.455



TÜV SÜD Certifikat - a trademark of TÜV SÜD Group

TÜV



ABOUT THE COMPANY

MINIB, a.s. is a Czech business through and through, and it ranks among the leading manufacturers of convectors in the Czech Republic. It currently exports to thirty countries in Europe, Asia, Australia, and America.

Since 1999, MINIB has been systematically innovating production technology and its products and has invested considerable sums in proprietary development and design, with the goal of offering our customers solutions that are mature both from the technical and esthetic points of view.

MINIB's business is economically sound and the company consistently turns a profit. This allows us to invest in R&D, technology, and above all, human capital, so as to ensure our long-term prosperity.

ABOUT THE MANUFACTURING PROCESS

The manufacturing facility is located in Býkev near Mělník and has excellent transport connections. It is furnished with state-of-the-art production technology. Most manufacturing operations are carried out on CNC machines, which allows us to accommodate even the most sophisticated wishes of our exacting customers.

In response to individual calls for customization, we are able to create a great variety of non-standard, one-of-a-kind products that satisfy specific needs.

All products are made from high-grade material with a useful life of many years, which is why we offer a 10-year warranty on heat exchangers and on our stainless-steel convector vats.

MINIB holds an ISO 9001:2009 certificate in addition to numerous utility models and patents.

The entire range of products is submitted to testing in an independent, accredited test chamber of HEATEST, s.r.o. pursuant to the European Standard EN 442-2, which is why we are able to guarantee the advertised heating and cooling output.

ABOUT THE PRODUCTS

MINIB's production portfolio consists of over 70 convector types. Customers can thus choose the right convector for any interior.

The main advantage of convectors is that they are efficient, modern, economical, and esthetic heaters suitable for both dry and humid environments. Significant power savings are achieved thanks to low water requirements for the immediate heating or cooling of a given area. This leads to low consumption of electricity required for its heating. In addition to water and energy savings, a great heating and cooling dynamics is also important. The space saving design is another important feature of these products. Our convectors do not disturb interior esthetics, have a modern design, and - last but not least - are safe thanks to their 12V power supply.

The product range comprises various types of convectors:

- › **FLOOR** convectors without fans that work on the natural convection principle. Convectors with fans utilize the principle of forced convection.
- › **FREE STANDING AND WALL MOUNTED** convectors with and without fans are also available. Heating benches with granite and wooden top panels are available for humid environments (swimming pools, bathrooms).
- › The unique patent series are the **DESIGN** convectors that use both the convection and heat radiation principle for heating. These convectors have aluminum composite front panels available in a number of modern designs from smooth glass with various colors or from glass with sand blasted decorations. The company also offers granite front panels.

MINIB can satisfy even individual, non-standard requirements of its customers such as angular or arc-shaped convectors with various connections and tailor them to their demands. MINIB emphasizes the high user comfort standard. All products place low demands on installation and maintenance.

Numerous accessories are available for individual convector types. MINIB products have won a number of national and foreign awards.

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WALL MOUNTED CONVECTORS

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11 Coil SW420
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FREE STANDING CONVECTORS

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dry
environment

humid
environment

fan

panel
*information
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HOW TO CHOOSE THE RIGHT WALL MOUNTED OR FREE STANDING CONVECTOR

- Identify thermal losses in the room as calculated in the design.
- Identify the mean heating water temperature.
- Determine the required temperatures in the room.
- Select the suitable convector type with regard to space limitations and check its required output in the relevant tables.
- Determine the lengths and number of convectors.
- Select top grille and panel colors.
- Choose the suitable regulation and thermostat.

* dry and humid environments are defined by standard ČSN 038900, Electric Appliances Design, Classification of Environmental Conditions

THERMAL EQUATION

$$Q = \mu Q_N \left(\frac{t_w - t_A}{50} \right)^n$$

where:

- n = thermal exponent
- t_w, t_A = mean heating water temperature, interior air temperature [°C]
- Q_N = nominal heat output for temperatures $t_w, t_A = 50$ °C [W]
- μ = 1 (for other than nominal flow values, identify μ from the graph)
- Q = heat output for other temperatures [W]

OUTPUT CALCULATION FOR INDIVIDUAL TEMPERATURE:

A thermal equation is available for output calculation based on other than tabulated heating water and room air temperature. Enter the required mean heating water / room air temperature to calculate the heat output. **All calculations can be comfortably made at our website on the pages of individual convectors. Just enter the new values.**

STANDARD CONVECTOR PRICE COMPRISES:

- Aluminum panel - white, silver, light or dark bronze.
- 1 stainless bellows connection hose - WALL MOUNTED design only.
- Thermostatic valve with head and closing thread.
- Mounting accessories.

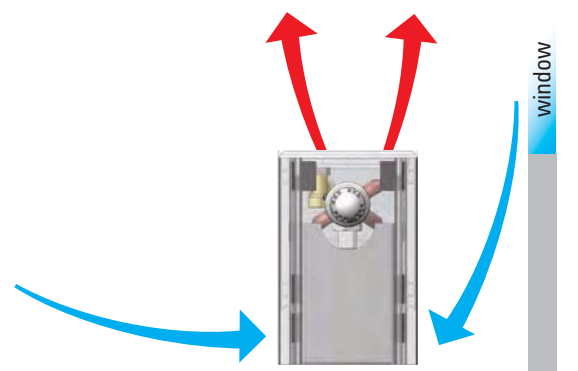
OPTIONAL ACCESSORIES:

Examples of optional accessories are shown on page 31.

COLOR VERSIONS ARE SHOWN ON PAGE 31

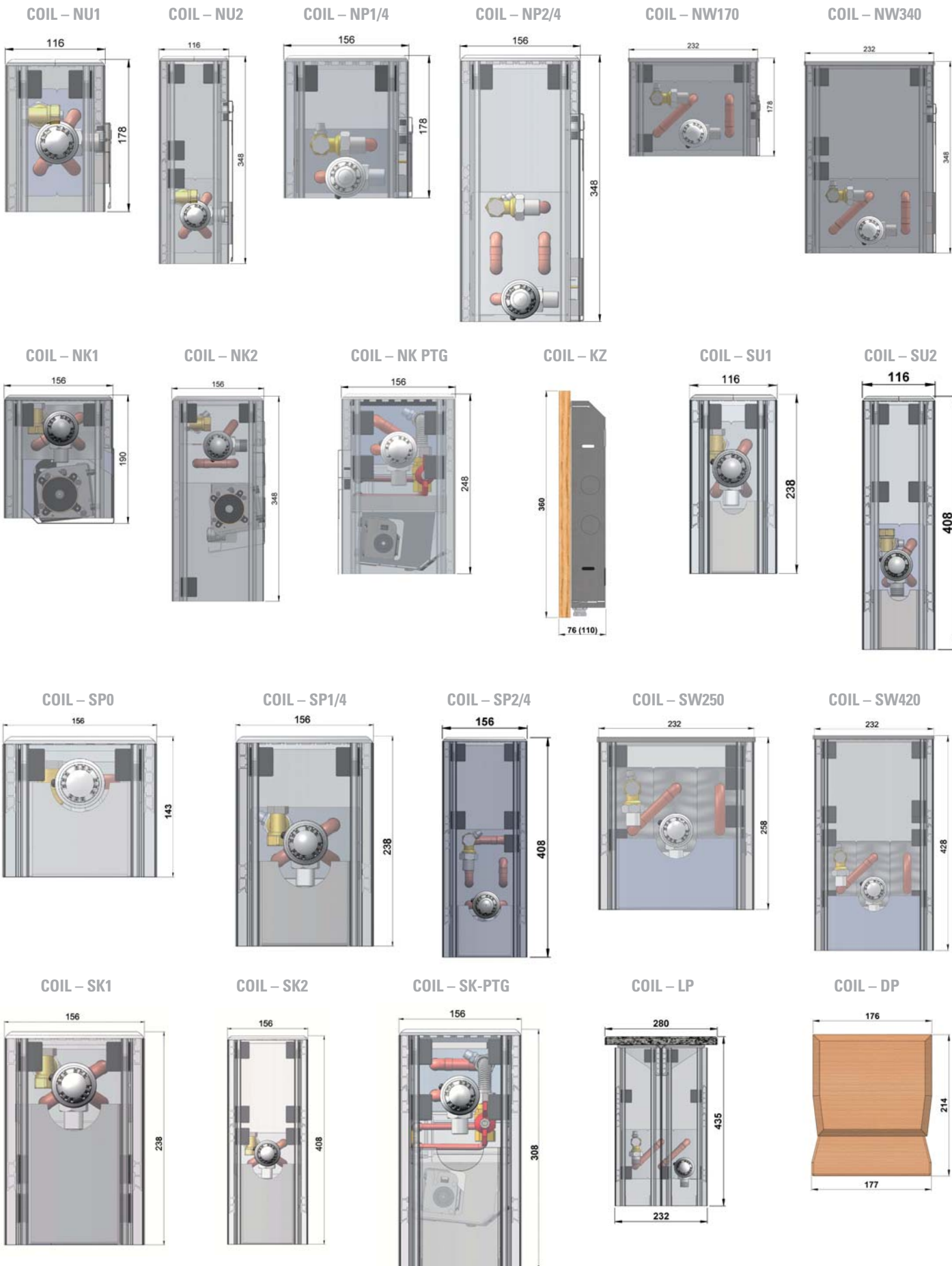
PRESSURE LOSSES, ACOUSTIC PRESSURE, AND OTHER PHYSICAL PARAMETERS ARE LISTED ON PAGE 32

EXAMPLE OF AIR FLOW IN THE ROOM



CROSS-SECTIONS OF CONVECTORS

WALL MOUNTED AND FREE
STANDING CONVECTORS





COIL-NU1

THERMAL EXPONENT $n = 1,3667$ 

Narrowest wall mounted
convector without fan.

CHARACTERISTICS

- high natural convection output
- short response time

DIMENSIONS

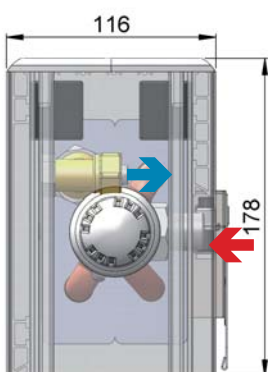
| | |
|---------------|----------------|
| width | 116 mm |
| design height | 178 mm |
| length | 900 do 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|----------|--------------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille
must not be loaded or covered.

cross section



HEAT OUTPUT Q [W]

| | air temperature t_a | | |
|----|---------------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) 900 | | |
| 80 | 675 | 605 | 577 |
| 70 | 537 | 471 | 446 |
| 60 | 408 | 347 | 324 |
| 45 | 234 | 183 | 163 |
| | length L (mm) 1000 | | |
| 80 | 769 | 689 | 658 |
| 70 | 612 | 537 | 508 |
| 60 | 465 | 396 | 369 |
| 45 | 267 | 208 | 186 |
| | length L (mm) 1250 | | |
| 80 | 1 005 | 901 | 860 |
| 70 | 800 | 702 | 664 |
| 60 | 608 | 517 | 482 |
| 45 | 349 | 272 | 243 |
| | length L (mm) 1500 | | |
| 80 | 1 241 | 1 112 | 1 062 |
| 70 | 987 | 867 | 820 |
| 60 | 751 | 639 | 596 |
| 45 | 431 | 336 | 300 |
| | length L (mm) 1750 | | |
| 80 | 1 477 | 1 324 | 1 264 |
| 70 | 1 175 | 1 032 | 976 |
| 60 | 893 | 760 | 709 |
| 45 | 513 | 400 | 357 |
| | length L (mm) 2000 | | |
| 80 | 1 712 | 1 535 | 1 465 |
| 70 | 1 363 | 1 196 | 1 131 |
| 60 | 1 036 | 882 | 822 |
| 45 | 595 | 464 | 414 |

mean water temperature t_w



COIL-NU2

THERMAL EXPONENT $n = 1,3667$

HEAT OUTPUT Q [W]

| | air temperature t_A | | | |
|------------------------------|-----------------------|---------------|-------|------|
| | 15 | 20 | 22 | |
| | length L (mm) | | 900 | |
| mean water temperature t_w | 80 | 873 | 782 | 747 |
| | 70 | 695 | 610 | 577 |
| | 60 | 528 | 449 | 419 |
| | 45 | 303 | 236 | 211 |
| | | 15 | 20 | 22 |
| | | length L (mm) | | 1000 |
| | 80 | 995 | 892 | 851 |
| | 70 | 792 | 695 | 657 |
| | 60 | 602 | 512 | 478 |
| | 45 | 346 | 270 | 240 |
| | | 15 | 20 | 22 |
| | | length L (mm) | | 1250 |
| 80 | 1 300 | 1 165 | 1 113 | |
| 70 | 1 035 | 908 | 859 | |
| 60 | 786 | 670 | 624 | |
| 45 | 452 | 352 | 314 | |
| | 15 | 20 | 22 | |
| | length L (mm) | | 1500 | |
| 80 | 1 605 | 1 439 | 1 374 | |
| 70 | 1 277 | 1 121 | 1 061 | |
| 60 | 971 | 827 | 771 | |
| 45 | 558 | 435 | 388 | |
| | 15 | 20 | 22 | |
| | length L (mm) | | 1750 | |
| 80 | 1 910 | 1 712 | 1 635 | |
| 70 | 1 520 | 1 335 | 1 262 | |
| 60 | 1 156 | 984 | 917 | |
| 45 | 664 | 518 | 462 | |
| | 15 | 20 | 22 | |
| | length L (mm) | | 2000 | |
| 80 | 2 215 | 1 986 | 1 896 | |
| 70 | 1 763 | 1 548 | 1 464 | |
| 60 | 1 340 | 1 141 | 1 064 | |
| 45 | 770 | 600 | 536 | |



Narrowest wall mounted convector without fan with higher heating output.

CHARACTERISTICS

- high natural convection output
- short response time

DIMENSIONS

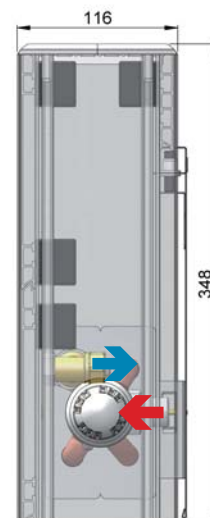
| | |
|---------------|----------------|
| width | 116 mm |
| design height | 348 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|-----------------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

cross section





COIL-NP1/4

THERMAL EXPONENT $n = 1,3581$ 

Standard wall mounted
convector without fan.

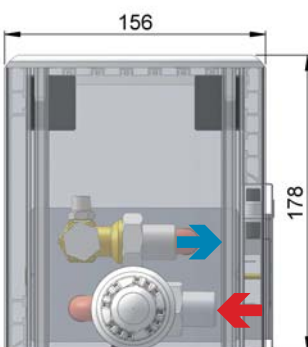
CHARACTERISTICS

- high natural convection output
- short response time

DIMENSIONS

| | |
|---------------|----------------|
| width | 156 mm |
| design height | 178 mm |
| length | 900 to 2000 mm |
| connection | G½" |

cross section



COLOR DESIGN

| | |
|-----------------|--------------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille
must not be loaded or covered.

HEAT OUTPUT Q [W]

| | air temperature t_a | | | |
|------------------------------|---------------------------|-------|-------|-------|
| | 15 | 20 | 22 | |
| mean water temperature t_w | length L (mm) 900 | | | |
| | 80 | 869 | 780 | 745 |
| | 70 | 693 | 609 | 576 |
| | 60 | 528 | 450 | 419 |
| | 45 | 304 | 237 | 212 |
| | length L (mm) 1000 | | | |
| | 80 | 992 | 890 | 849 |
| | 70 | 790 | 694 | 657 |
| | 60 | 602 | 513 | 478 |
| | 45 | 347 | 271 | 242 |
| | length L (mm) 1250 | | | |
| | 80 | 1 298 | 1 164 | 1 112 |
| | 70 | 1 034 | 909 | 860 |
| | 60 | 788 | 671 | 626 |
| | 45 | 454 | 354 | 317 |
| | length L (mm) 1500 | | | |
| 80 | 1 604 | 1 439 | 1 374 | |
| 70 | 1 278 | 1 123 | 1 062 | |
| 60 | 973 | 829 | 774 | |
| 45 | 561 | 438 | 391 | |
| length L (mm) 1750 | | | | |
| 80 | 1 910 | 1 713 | 1 636 | |
| 70 | 1 522 | 1 337 | 1 265 | |
| 60 | 1 159 | 988 | 921 | |
| 45 | 668 | 522 | 466 | |
| length L (mm) 2000 | | | | |
| 80 | 2 216 | 1 988 | 1 898 | |
| 70 | 1 766 | 1 552 | 1 468 | |
| 60 | 1 345 | 1 146 | 1 069 | |
| 45 | 775 | 605 | 541 | |



COIL-NP2/4

THERMAL EXPONENT $n = 1,4153$

HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|----|-----------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) | | 900 |
| 80 | 1 324 | 1 182 | 1 127 |
| | 1 045 | 913 | 862 |
| | 787 | 666 | 619 |
| | 443 | 342 | 304 |
| 70 | 1 509 | 1 347 | 1 284 |
| | 1 191 | 1 041 | 983 |
| | 897 | 759 | 706 |
| | 505 | 390 | 347 |
| 60 | 1 972 | 1 761 | 1 678 |
| | 1 557 | 1 360 | 1 284 |
| | 1 172 | 992 | 922 |
| | 660 | 510 | 453 |
| 45 | 2 435 | 2 174 | 2 072 |
| | 1 922 | 1 680 | 1 585 |
| | 1 447 | 1 225 | 1 139 |
| | 815 | 630 | 560 |
| 80 | 2 898 | 2 587 | 2 466 |
| | 2 288 | 1 999 | 1 887 |
| | 1 722 | 1 458 | 1 356 |
| | 970 | 749 | 666 |
| 70 | 3 361 | 3 001 | 2 860 |
| | 2 653 | 2 318 | 2 188 |
| | 1 997 | 1 690 | 1 572 |
| | 1 125 | 869 | 772 |



Standard wall mounted convector without fan with higher heating output.

CHARACTERISTICS

- high natural convection output
- short response time

DIMENSIONS

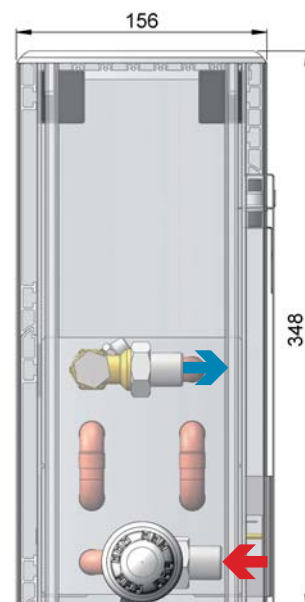
| | |
|---------------|----------------|
| width | 156 mm |
| design height | 348 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|----------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

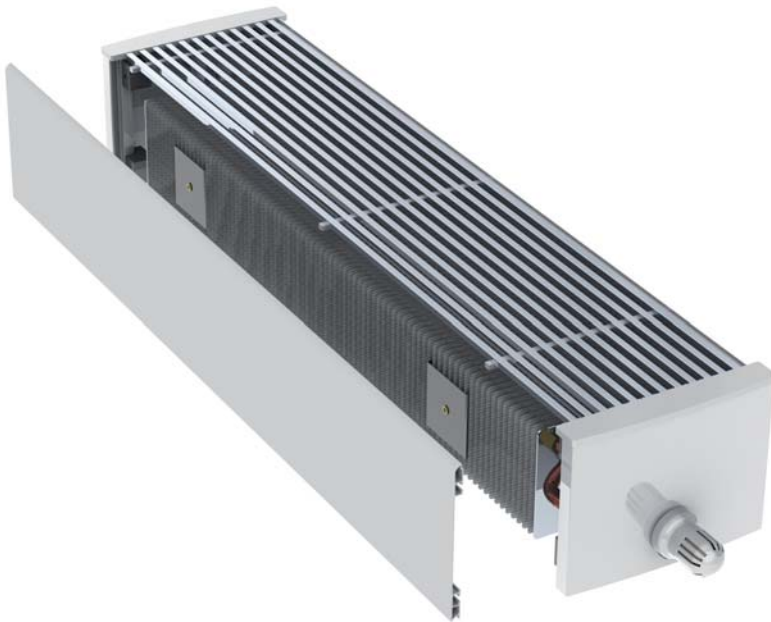
INFO: decorative convector grille must not be loaded or covered.

cross section





COIL-NW170

THERMAL EXPONENT $n = 1,4173$ 

The most powerful wall mounted convector without fan with a height of 178 mm.

CHARACTERISTICS

- very high natural convection output
- short response time

DIMENSIONS

| | |
|---------------|----------------|
| width | 232 mm |
| design height | 178 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

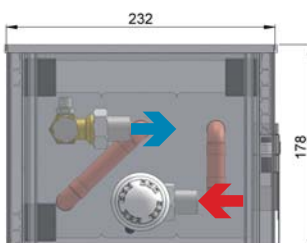
| | |
|----------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|----|---------------------------|--------------|-------|
| | 15 | 20 | 22 |
| | length L (mm) 900 | | |
| 80 | 1 533 | 1 369 | 1 305 |
| 70 | 1 210 | 1 057 | 998 |
| 60 | 910 | 770 | 716 |
| 45 | 512 | 396 | 352 |
| | length L (mm) 1000 | | |
| 80 | 1 748 | 1 560 | 1 487 |
| 70 | 1 379 | 1 205 | 1 137 |
| 60 | 1 038 | 878 | 817 |
| 45 | 584 | 451 | 401 |
| | length L (mm) 1250 | | |
| 80 | 2 284 | 2 039 | 1 943 |
| 70 | 1 802 | 1 575 | 1 486 |
| 60 | 1 356 | 1 148 | 1 067 |
| 45 | 763 | 590 | 524 |
| | length L (mm) 1500 | | |
| 80 | 2 820 | 2 517 | 2 399 |
| 70 | 2 225 | 1 944 | 1 835 |
| 60 | 1 675 | 1 417 | 1 318 |
| 45 | 943 | 728 | 647 |
| | length L (mm) 1750 | | |
| 80 | 3 356 | 2 996 | 2 856 |
| 70 | 2 648 | 2 314 | 2 184 |
| 60 | 1 993 | 1 686 | 1 568 |
| 45 | 1 122 | 866 | 770 |
| | length L (mm) 2000 | | |
| 80 | 3 892 | 3 475 | 3 312 |
| 70 | 3 072 | 2 683 | 2 533 |
| 60 | 2 311 | 1 956 | 1 819 |
| 45 | 1 301 | 1 005 | 893 |

cross section





COIL-NW340

THERMAL EXPONENT $n = 1,3651$

HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|----|-----------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) | | |
| 80 | 900 | | |
| | 1 854 | 1 662 | 1 587 |
| | 70 | 1 476 | 1 296 |
| | 60 | 1 122 | 956 |
| | 45 | 645 | 503 |
| 70 | 1000 | | |
| | 2 113 | 1 894 | 1 809 |
| | 70 | 1 682 | 1 477 |
| | 60 | 1 279 | 1 089 |
| | 45 | 735 | 573 |
| 60 | 1250 | | |
| | 2 761 | 2 476 | 2 364 |
| | 70 | 2 198 | 1 930 |
| | 60 | 1 672 | 1 423 |
| | 45 | 961 | 749 |
| 45 | 1500 | | |
| | 3 410 | 3 057 | 2 918 |
| | 70 | 2 714 | 2 383 |
| | 60 | 2 064 | 1 757 |
| | 45 | 1 187 | 925 |
| 30 | 1750 | | |
| | 4 058 | 3 638 | 3 473 |
| | 70 | 3 230 | 2 836 |
| | 60 | 2 456 | 2 091 |
| | 45 | 1 412 | 1 101 |
| 20 | 2000 | | |
| | 4 706 | 4 219 | 4 028 |
| | 70 | 3 746 | 3 289 |
| | 60 | 2 849 | 2 426 |
| | 45 | 1 638 | 1 277 |



The most powerful wall mounted convector without fan with a height of 348 mm.

CHARACTERISTICS

- very high natural convection output
- short response time

DIMENSIONS

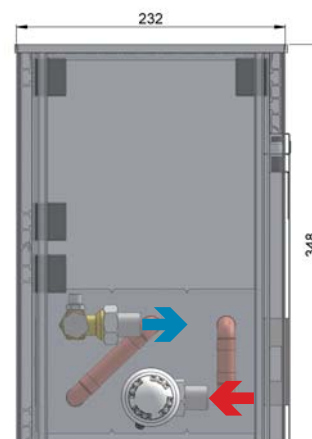
| | |
|---------------|----------------|
| width | 232 mm |
| design height | 348 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|----------|---------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss |
| | (white) |

INFO: decorative convector grille must not be loaded or covered.

cross section

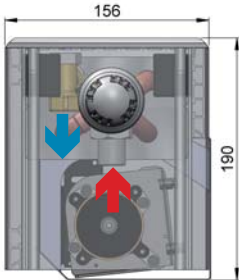




Recommended regulation
EB-A, EB-B, or EB-C

COIL-NK1

THERMAL EXPONENT $n = 1,09525$



INFO: decorative convector grille must not be loaded or covered.

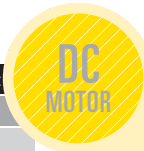
cross section



HEAT OUTPUT Q [W]

ELECTRIC POWER INPUT FOR FANS

| length | power input |
|--------|-------------|
| 900 | 12 VA |
| 1000 | 12 VA |
| 1250 | 24 VA |
| 1500 | 24 VA |
| 1750 | 24 VA |
| 2000 | 36 VA |



Lowest wall mounted convector with fan.

CHARACTERISTICS

- high forced convection heating output
- quick response heating element
- heating even with fan switched off
- low power consumption
- safe voltage 12 V DC
- easy control

DIMENSIONS

| | |
|---------------|----------------|
| width | 156 mm |
| design height | 190 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|----------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

| mean water temperature t_w | 1st degree minimum speed | | | 2nd degree medium speed | | | 3rd degree maximum speed | | | | | |
|------------------------------|--------------------------|-------|-------|-------------------------|----|-------|--------------------------|-------|----|-------|-------|-------|
| | air temperature t_a | | | air temperature t_a | | | air temperature t_a | | | | | |
| | 15 | 20 | 22 | 15 | 20 | 22 | 15 | 20 | 22 | | | |
| 80 | length L (mm) 900 | | | length L (mm) 900 | | | length L (mm) 900 | | | | | |
| | 80 | 1 159 | 1 061 | 1 023 | 80 | 1 239 | 1 135 | 1 094 | 80 | 1 614 | 1 478 | 1 425 |
| | 70 | 965 | 869 | 831 | 70 | 1 032 | 930 | 889 | 70 | 1 344 | 1 211 | 1 158 |
| | 60 | 774 | 681 | 644 | 60 | 829 | 728 | 689 | 60 | 1 079 | 948 | 896 |
| | 45 | 497 | 407 | 371 | 45 | 531 | 435 | 397 | 45 | 692 | 567 | 517 |
| 70 | length L (mm) 1000 | | | length L (mm) 1000 | | | length L (mm) 1000 | | | | | |
| | 80 | 1 352 | 1 238 | 1 193 | 80 | 1 446 | 1 325 | 1 276 | 80 | 1 883 | 1 725 | 1 662 |
| | 70 | 1 126 | 1 014 | 970 | 70 | 1 204 | 1 085 | 1 037 | 70 | 1 568 | 1 413 | 1 351 |
| | 60 | 904 | 794 | 751 | 60 | 967 | 850 | 803 | 60 | 1 259 | 1 106 | 1 046 |
| | 45 | 580 | 475 | 433 | 45 | 620 | 508 | 463 | 45 | 807 | 661 | 603 |
| 60 | length L (mm) 1250 | | | length L (mm) 1250 | | | length L (mm) 1250 | | | | | |
| | 80 | 1 834 | 1 680 | 1 619 | 80 | 1 963 | 1 798 | 1 732 | 80 | 2 555 | 2 341 | 2 255 |
| | 70 | 1 528 | 1 376 | 1 316 | 70 | 1 634 | 1 472 | 1 408 | 70 | 2 128 | 1 917 | 1 833 |
| | 60 | 1 226 | 1 078 | 1 019 | 60 | 1 312 | 1 153 | 1 090 | 60 | 1 708 | 1 501 | 1 419 |
| | 45 | 787 | 644 | 588 | 45 | 841 | 689 | 629 | 45 | 1 096 | 897 | 819 |
| 60 | length L (mm) 1500 | | | length L (mm) 1500 | | | length L (mm) 1500 | | | | | |
| | 80 | 2 317 | 2 123 | 2 045 | 80 | 2 479 | 2 271 | 2 188 | 80 | 3 228 | 2 957 | 2 849 |
| | 70 | 1 930 | 1 738 | 1 662 | 70 | 2 064 | 1 860 | 1 779 | 70 | 2 688 | 2 422 | 2 316 |
| | 60 | 1 549 | 1 362 | 1 287 | 60 | 1 657 | 1 457 | 1 377 | 60 | 2 158 | 1 897 | 1 793 |
| | 45 | 994 | 814 | 743 | 45 | 1 063 | 871 | 795 | 45 | 1 384 | 1 133 | 1 035 |
| 60 | length L (mm) 1750 | | | length L (mm) 1750 | | | length L (mm) 1750 | | | | | |
| | 80 | 2 800 | 2 565 | 2 471 | 80 | 2 995 | 2 744 | 2 644 | 80 | 3 900 | 3 573 | 3 443 |
| | 70 | 2 332 | 2 101 | 2 009 | 70 | 2 495 | 2 247 | 2 149 | 70 | 3 248 | 2 926 | 2 798 |
| | 60 | 1 872 | 1 645 | 1 555 | 60 | 2 002 | 1 760 | 1 664 | 60 | 2 607 | 2 292 | 2 166 |
| | 45 | 1 201 | 983 | 897 | 45 | 1 284 | 1 052 | 960 | 45 | 1 672 | 1 370 | 1 250 |
| 60 | length L (mm) 2000 | | | length L (mm) 2000 | | | length L (mm) 2000 | | | | | |
| | 80 | 3 283 | 3 007 | 2 898 | 80 | 3 512 | 3 217 | 3 100 | 80 | 4 573 | 4 189 | 4 036 |
| | 70 | 2 734 | 2 463 | 2 355 | 70 | 2 925 | 2 635 | 2 520 | 70 | 3 808 | 3 431 | 3 281 |
| | 60 | 2 194 | 1 929 | 1 823 | 60 | 2 348 | 2 063 | 1 951 | 60 | 3 057 | 2 687 | 2 540 |
| | 45 | 1 408 | 1 153 | 1 052 | 45 | 1 506 | 1 233 | 1 126 | 45 | 1 961 | 1 606 | 1 466 |

COIL-NK2

Recommended regulation
EB-A, EB-B, or EB-C



INFO: decorative convector grille must not be loaded or covered.

HEAT OUTPUT Q [W]

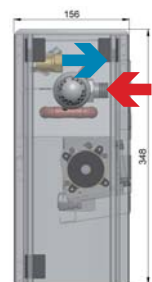
THERMAL EXPONENT $\eta = 1,17097$

ELECTRIC POWER INPUT FOR FANS



| length | power input |
|--------|-------------|
| 900 | 12 VA |
| 1000 | 12 VA |
| 1250 | 24 VA |
| 1500 | 24 VA |
| 1750 | 24 VA |
| 2000 | 36 VA |

| mean water temperature t_w | 1st degree minimum speed | | | 2nd degree medium speed | | | 3rd degree maximum speed | | | | |
|------------------------------|-----------------------------|------|------|----------------------------|------|------|-----------------------------|------|------|------|------|
| | air temperature t_A | | | air temperature t_A | | | air temperature t_A | | | | |
| | 15 | 20 | 22 | 15 | 20 | 22 | 15 | 20 | 22 | | |
| | length L (mm) | 900 | | length L (mm) | 900 | | length L (mm) | 900 | | | |
| 80 | 1714 | 1560 | 1500 | 1802 | 1641 | 1577 | 2042 | 1859 | 1787 | | |
| | 1409 | 1260 | 1202 | 1482 | 1326 | 1264 | 1679 | 1502 | 1432 | | |
| | 1114 | 971 | 914 | 1172 | 1021 | 961 | 1328 | 1157 | 1089 | | |
| | 693 | 560 | 508 | 729 | 589 | 534 | 826 | 667 | 605 | | |
| | 70 | 1999 | 1820 | 1750 | 2103 | 1915 | 1840 | 2382 | 2169 | 2085 | |
| | | 1644 | 1470 | 1402 | 1729 | 1547 | 1474 | 1959 | 1752 | 1670 | |
| | | 1300 | 1132 | 1066 | 1367 | 1191 | 1122 | 1549 | 1349 | 1271 | |
| | | 808 | 653 | 592 | 850 | 687 | 623 | 963 | 778 | 706 | |
| | | 60 | 2713 | 2471 | 2374 | 2854 | 2599 | 2497 | 3233 | 2944 | 2829 |
| | | | 2231 | 1996 | 1902 | 2347 | 2099 | 2001 | 2659 | 2378 | 2267 |
| | | | 1764 | 1537 | 1447 | 1855 | 1616 | 1522 | 2102 | 1831 | 1724 |
| | | | 1097 | 886 | 804 | 1154 | 932 | 846 | 1307 | 1056 | 958 |
| 45 | | | 3427 | 3121 | 2999 | 3605 | 3282 | 3155 | 4084 | 3719 | 3574 |
| | | | 2818 | 2521 | 2403 | 2964 | 2651 | 2528 | 3358 | 3004 | 2864 |
| | | | 2228 | 1941 | 1828 | 2344 | 2042 | 1923 | 2655 | 2313 | 2178 |
| | | | 1386 | 1120 | 1015 | 1458 | 1178 | 1068 | 1652 | 1334 | 1210 |
| | 30 | | 4141 | 3771 | 3624 | 4356 | 3966 | 3812 | 4935 | 4493 | 4319 |
| | | | 3406 | 3046 | 2904 | 3582 | 3204 | 3054 | 4058 | 3630 | 3460 |
| | | | 2692 | 2346 | 2209 | 2832 | 2467 | 2323 | 3208 | 2795 | 2632 |
| | | | 1675 | 1353 | 1227 | 1762 | 1423 | 1291 | 1996 | 1612 | 1462 |
| | | 15 | 4855 | 4421 | 4249 | 5107 | 4650 | 4469 | 5786 | 5268 | 5063 |
| | | | 3993 | 3571 | 3404 | 4200 | 3756 | 3581 | 4758 | 4255 | 4057 |
| | | | 3157 | 2750 | 2590 | 3320 | 2892 | 2724 | 3761 | 3277 | 3086 |
| | | | 1963 | 1586 | 1438 | 2065 | 1668 | 1513 | 2340 | 1890 | 1714 |



cross section

Most powerful wall mounted convector with fan.

CHARACTERISTICS

- high forced convection heating output
- quick response heating element
- heating even with fan switched off
- low power consumption
- safe voltage 12 V DC
- easy control

DIMENSIONS

| | |
|---------------|----------------|
| width | 156 mm |
| design height | 348 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|----------|---------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss |
| | (white) |



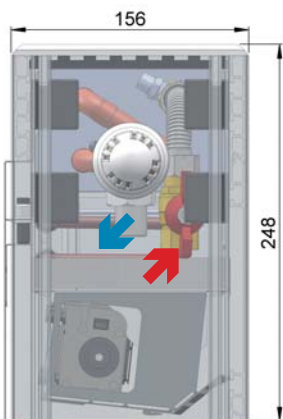
Regulation with thermostatic head.

COIL-NK PTG



HEAT OUTPUT Q [W]

cross section



Convector equipped with thermo-electric generator without need for power supply.

Suitable for interiors without power supply. This is the most efficient convector in terms of power supply.

COLOR DESIGN

ANODIZED silver
light bronze
dark bronze

PAINTED RAL 9016 semi-gloss
(white)

CHARACTERISTICS

- high forced convection output
- short response time
- zero power supply
- silent operation

DIMENSIONS

| | |
|---------------|-----------------|
| width | 156 mm |
| design height | 248 mm |
| length | 1000 to 2000 mm |
| connection | G½" |

INFO: decorative convector grille must not be loaded or covered.

| | air temperature t_A | | |
|----|---------------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) 1000 | | |
| 80 | 1 610 | 1 503 | 1 460 |
| 70 | 1 395 | 1 288 | 1 245 |
| 60 | 1 108 | 1 007 | 967 |
| 45 | 554 | 475 | 443 |
| | length L (mm) 1250 | | |
| 80 | 2 098 | 1 958 | 1 902 |
| 70 | 1 818 | 1 678 | 1 622 |
| 60 | 1 447 | 1 315 | 1 262 |
| 45 | 734 | 629 | 587 |
| | length L (mm) 1500 | | |
| 80 | 2 659 | 2 482 | 2 411 |
| 70 | 2 304 | 2 127 | 2 056 |
| 60 | 1 836 | 1 669 | 1 602 |
| 45 | 933 | 800 | 747 |
| | length L (mm) 1750 | | |
| 80 | 3 132 | 2 923 | 2 839 |
| 70 | 2 714 | 2 505 | 2 422 |
| 60 | 2 158 | 1 962 | 1 884 |
| 45 | 1 083 | 928 | 866 |
| | length L (mm) 2000 | | |
| 80 | 3 572 | 3 334 | 3 239 |
| 70 | 3 096 | 2 858 | 2 763 |
| 60 | 2 465 | 2 241 | 2 151 |
| 45 | 1 239 | 1 062 | 991 |



Recommended regulation
EB-A, EB-B, or EB-C

COIL-KZ



KZ 60 ELECTRIC POWER INPUT FOR FANS



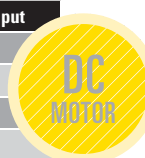
| length | power input |
|--------|-------------|
| 900 | 4 VA |
| 1000 | 4 VA |
| 1250 | 8 VA |
| 1500 | 8 VA |
| 1750 | 8 VA |
| 2000 | 12 VA |

HEAT OUTPUT Q [W] KZ 60

| | 1st degree minimum speed | | | 2nd degree medium speed | | | 3rd degree maximum speed | | | | |
|----|-----------------------------|-------|-------|----------------------------|-------|-------|-----------------------------|----|-------|-------|-------|
| | air temperature t_A | | | air temperature t_A | | | air temperature t_A | | | | |
| | 15 | 20 | 22 | 15 | 20 | 22 | 15 | 20 | 22 | | |
| | length L (mm) 900 | | | length L (mm) 900 | | | length L (mm) 900 | | | | |
| 80 | 584 | 536 | 517 | 80 | 690 | 634 | 612 | 80 | 897 | 824 | 795 |
| 70 | 489 | 442 | 423 | 70 | 578 | 522 | 500 | 70 | 751 | 678 | 649 |
| 60 | 395 | 348 | 330 | 60 | 467 | 412 | 390 | 60 | 606 | 535 | 506 |
| 45 | 256 | 211 | 193 | 45 | 303 | 249 | 228 | 45 | 394 | 324 | 297 |
| | length L (mm) 1000 | | | length L (mm) 1000 | | | length L (mm) 1000 | | | | |
| 80 | 681 | 626 | 603 | 80 | 806 | 740 | 713 | 80 | 1 047 | 961 | 927 |
| 70 | 570 | 515 | 493 | 70 | 674 | 609 | 583 | 70 | 876 | 791 | 758 |
| 60 | 460 | 406 | 384 | 60 | 544 | 480 | 455 | 60 | 707 | 624 | 591 |
| 45 | 299 | 246 | 225 | 45 | 353 | 291 | 266 | 45 | 459 | 378 | 346 |
| | length L (mm) 1250 | | | length L (mm) 1250 | | | length L (mm) 1250 | | | | |
| 80 | 924 | 849 | 819 | 80 | 1 093 | 1 004 | 968 | 80 | 1 420 | 1 304 | 1 258 |
| 70 | 774 | 699 | 669 | 70 | 915 | 827 | 791 | 70 | 1 189 | 1 074 | 1 028 |
| 60 | 625 | 551 | 522 | 60 | 739 | 652 | 617 | 60 | 960 | 847 | 802 |
| 45 | 406 | 334 | 306 | 45 | 480 | 395 | 361 | 45 | 623 | 513 | 470 |
| | length L (mm) 1500 | | | length L (mm) 1500 | | | length L (mm) 1500 | | | | |
| 80 | 1 168 | 1 072 | 1 034 | 80 | 1 381 | 1 268 | 1 223 | 80 | 1 794 | 1 647 | 1 589 |
| 70 | 977 | 883 | 845 | 70 | 1 156 | 1 044 | 1 000 | 70 | 1 502 | 1 357 | 1 299 |
| 60 | 789 | 696 | 659 | 60 | 933 | 823 | 779 | 60 | 1 213 | 1 070 | 1 013 |
| 45 | 512 | 422 | 386 | 45 | 606 | 499 | 457 | 45 | 787 | 648 | 593 |
| | length L (mm) 1750 | | | length L (mm) 1750 | | | length L (mm) 1750 | | | | |
| 80 | 1 411 | 1 296 | 1 250 | 80 | 1 669 | 1 532 | 1 478 | 80 | 2 168 | 1 991 | 1 920 |
| 70 | 1 181 | 1 067 | 1 022 | 70 | 1 397 | 1 262 | 1 208 | 70 | 1 814 | 1 639 | 1 569 |
| 60 | 954 | 841 | 796 | 60 | 1 128 | 995 | 942 | 60 | 1 465 | 1 292 | 1 224 |
| 45 | 619 | 510 | 466 | 45 | 732 | 603 | 552 | 45 | 951 | 783 | 717 |
| | length L (mm) 2000 | | | length L (mm) 2000 | | | length L (mm) 2000 | | | | |
| 80 | 1 654 | 1 519 | 1 465 | 80 | 1 956 | 1 796 | 1 733 | 80 | 2 542 | 2 334 | 2 251 |
| 70 | 1 385 | 1 251 | 1 198 | 70 | 1 637 | 1 479 | 1 416 | 70 | 2 127 | 1 922 | 1 840 |
| 60 | 1 118 | 986 | 934 | 60 | 1 322 | 1 166 | 1 104 | 60 | 1 718 | 1 515 | 1 435 |
| 45 | 726 | 598 | 547 | 45 | 858 | 707 | 647 | 45 | 1 115 | 918 | 840 |

KZ 91 ELECTRIC POWER INPUT FOR FANS

| length | power input |
|--------|-------------|
| 900 | 12 VA |
| 1000 | 12 VA |
| 1250 | 24 VA |
| 1500 | 24 VA |
| 1750 | 24 VA |
| 2000 | 36 VA |



Built-in convector for installation in walls with face panel.

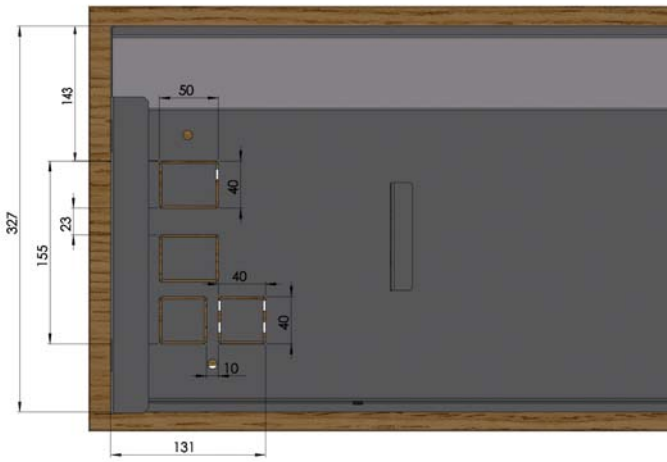
For use in spaces with low build-in depth. Suitable for interiors with increased esthetic demands. Provides increased user comfort.

CHARACTERISTICS

- high forced convection heating output
- quick response heating element
- low power consumption
- safe voltage 12 V DC
- easy control
- choice of stainless or wooden face panel

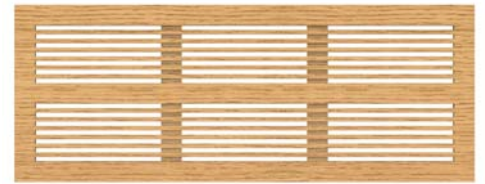
DIMENSIONS

| | |
|---------------|--------------------------|
| width | 60 a 91 mm |
| design height | 328 mm (Panel 360 mm) |
| length | 900 to 2000 mm |
| connection | G½" |

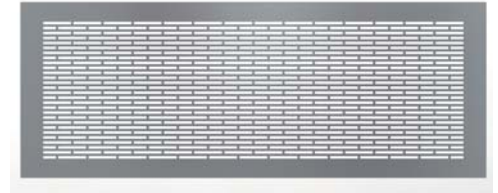


longitudinal section

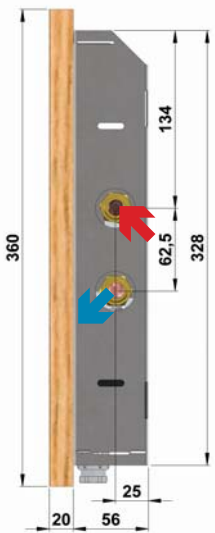
wood - oak without surface treatment



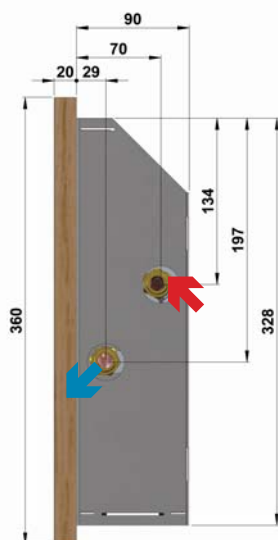
stainless matt



cross section COIL-KZ 60



cross section COIL-KZ 91



HEAT OUTPUT Q [W] KZ 91

| mean water temperature t_w | 1st degree - minimum speed | | | | 2nd degree medium speed | | | | 3rd degree maximum speed | | | | | |
|------------------------------|----------------------------|-------|-------|--------------------|-------------------------|-------|-------|--------------------|--------------------------|-------|-------|-------|-------|-------|
| | air temperature t_a | | | | air temperature t_a | | | | air temperature t_a | | | | | |
| | 15 | 20 | 22 | | 15 | 20 | 22 | | 15 | 20 | 22 | | | |
| 80 | length L (mm) 900 | | | 80 | length L (mm) 900 | | | 80 | length L (mm) 900 | | | | | |
| | 1 441 | 1 320 | 1 272 | | 1 550 | 1 420 | 1 368 | | 1 872 | 1 715 | 1 653 | | | |
| | 70 | 1 201 | 1 082 | | 1 035 | 70 | 1 291 | | 1 164 | 1 113 | 70 | 1 560 | 1 406 | 1 344 |
| | 60 | 965 | 848 | | 802 | 60 | 1 037 | | 912 | 862 | 60 | 1 253 | 1 102 | 1 042 |
| | 45 | 619 | 508 | 463 | 45 | 666 | 546 | 498 | 45 | 805 | 659 | 602 | | |
| | length L (mm) 1000 | | | 80 | length L (mm) 1000 | | | 80 | length L (mm) 1000 | | | | | |
| | 1 681 | 1 541 | 1 485 | | 1 808 | 1 657 | 1 596 | | 2 184 | 2 001 | 1 928 | | | |
| | 70 | 1 401 | 1 262 | | 1 207 | 70 | 1 506 | | 1 358 | 1 298 | 70 | 1 820 | 1 640 | 1 568 |
| | 60 | 1 125 | 989 | | 936 | 60 | 1 210 | | 1 064 | 1 006 | 60 | 1 462 | 1 285 | 1 215 |
| | 45 | 723 | 592 | 541 | 45 | 777 | 637 | 581 | 45 | 939 | 769 | 702 | | |
| | length L (mm) 1250 | | | 80 | length L (mm) 1250 | | | 80 | length L (mm) 1250 | | | | | |
| | 2 282 | 2 091 | 2 015 | | 2 454 | 2 248 | 2 166 | | 2 964 | 2 716 | 2 617 | | | |
| 70 | 1 901 | 1 713 | 1 639 | | 70 | 2 044 | 1 842 | | 1 762 | 70 | 2 469 | 2 225 | 2 128 | |
| 60 | 1 527 | 1 343 | 1 270 | | 60 | 1 642 | 1 444 | | 1 365 | 60 | 1 984 | 1 744 | 1 649 | |
| 45 | 981 | 804 | 734 | 45 | 1 055 | 864 | 789 | 45 | 1 274 | 1 044 | 953 | | | |
| length L (mm) 1500 | | | 80 | length L (mm) 1500 | | | 80 | length L (mm) 1500 | | | | | | |
| 2 882 | 2 641 | 2 545 | | 3 099 | 2 840 | 2 737 | | 3 743 | 3 430 | 3 306 | | | | |
| 70 | 2 402 | 2 164 | | 2 070 | 70 | 2 582 | | 2 327 | 2 226 | 70 | 3 119 | 2 811 | 2 688 | |
| 60 | 1 929 | 1 696 | | 1 604 | 60 | 2 074 | | 1 824 | 1 725 | 60 | 2 506 | 2 203 | 2 083 | |
| 45 | 1 239 | 1 015 | 927 | 45 | 1 332 | 1 092 | 997 | 45 | 1 609 | 1 319 | 1 204 | | | |
| length L (mm) 1750 | | | 80 | length L (mm) 1750 | | | 80 | length L (mm) 1750 | | | | | | |
| 3 483 | 3 191 | 3 075 | | 3 745 | 3 431 | 3 307 | | 4 523 | 4 145 | 3 994 | | | | |
| 70 | 2 902 | 2 615 | | 2 501 | 70 | 3 120 | | 2 812 | 2 689 | 70 | 3 769 | 3 397 | 3 249 | |
| 60 | 2 331 | 2 050 | | 1 938 | 60 | 2 506 | | 2 204 | 2 084 | 60 | 3 028 | 2 662 | 2 517 | |
| 45 | 1 497 | 1 227 | 1 120 | 45 | 1 610 | 1 319 | 1 204 | 45 | 1 945 | 1 594 | 1 455 | | | |
| length L (mm) 2000 | | | 80 | length L (mm) 2000 | | | 80 | length L (mm) 2000 | | | | | | |
| 4 083 | 3 741 | 3 605 | | 4 391 | 4 023 | 3 877 | | 5 303 | 4 859 | 4 683 | | | | |
| 70 | 3 402 | 3 066 | | 2 932 | 70 | 3 658 | | 3 297 | 3 153 | 70 | 4 419 | 3 982 | 3 809 | |
| 60 | 2 733 | 2 403 | | 2 272 | 60 | 2 939 | | 2 584 | 2 443 | 60 | 3 549 | 3 121 | 2 951 | |
| 45 | 1 755 | 1 438 | 1 313 | 45 | 1 887 | 1 547 | 1 412 | 45 | 2 280 | 1 868 | 1 706 | | | |

FREE STANDING CONVECTORS

16



... more than heating



COIL-SU1

THERMAL EXPONENT $n = 1,3764$ 

Narrowest free standing convector with natural convection.

CHARACTERISTICS

- high output
- short response time

DIMENSIONS

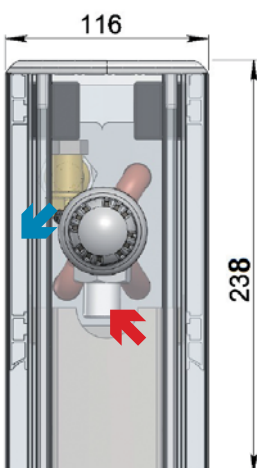
| | |
|---------------|----------------|
| width | 116 mm |
| design height | 238 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|----------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

cross section



HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|----|---------------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) 900 | | |
| 80 | 671 | 601 | 573 |
| 70 | 533 | 467 | 442 |
| 60 | 404 | 344 | 320 |
| 45 | 231 | 180 | 160 |
| | length L (mm) 1000 | | |
| 80 | 764 | 685 | 653 |
| 70 | 607 | 533 | 504 |
| 60 | 461 | 392 | 365 |
| 45 | 264 | 205 | 183 |
| | length L (mm) 1250 | | |
| 80 | 999 | 895 | 854 |
| 70 | 794 | 696 | 658 |
| 60 | 602 | 512 | 477 |
| 45 | 345 | 268 | 239 |
| | length L (mm) 1500 | | |
| 80 | 1 233 | 1 105 | 1 054 |
| 70 | 980 | 859 | 813 |
| 60 | 743 | 632 | 589 |
| 45 | 425 | 331 | 295 |
| | length L (mm) 1750 | | |
| 80 | 1 468 | 1 315 | 1 255 |
| 70 | 1 166 | 1 023 | 967 |
| 60 | 885 | 752 | 701 |
| 45 | 506 | 394 | 351 |
| | length L (mm) 2000 | | |
| 80 | 1 702 | 1 525 | 1 455 |
| 70 | 1 353 | 1 186 | 1 121 |
| 60 | 1 026 | 873 | 813 |
| 45 | 587 | 457 | 407 |

mean water temperature t_w



COIL-SU2

THERMAL EXPONENT $n = 1,3764$

HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|----|-----------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) | | 900 |
| 80 | 858 | 768 | 733 |
| | 681 | 598 | 565 |
| | 517 | 440 | 410 |
| | 296 | 230 | 205 |
| 70 | 977 | 876 | 836 |
| | 777 | 681 | 644 |
| | 589 | 501 | 467 |
| | 337 | 262 | 234 |
| 60 | 1 277 | 1 144 | 1 092 |
| | 1 015 | 890 | 842 |
| | 770 | 655 | 610 |
| | 441 | 343 | 306 |
| 45 | 1 577 | 1 413 | 1 348 |
| | 1 253 | 1 099 | 1 039 |
| | 951 | 808 | 753 |
| | 544 | 423 | 377 |
| 80 | 1 877 | 1 681 | 1 605 |
| | 1 491 | 1 308 | 1 237 |
| | 1 131 | 962 | 897 |
| | 648 | 504 | 449 |
| 70 | 2 177 | 1 950 | 1 861 |
| | 1 730 | 1 517 | 1 434 |
| | 1 312 | 1 116 | 1 040 |
| | 751 | 584 | 521 |



Narrowest free standing convector with natural convection with increased output.

CHARACTERISTICS

- very high output
- short response time

DIMENSIONS

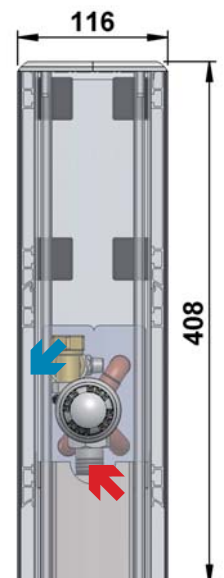
| | |
|---------------|----------------|
| width | 116 mm |
| design height | 408 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|-----------------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

cross section





COIL-SPO

THERMAL EXPONENT $n = 1,2497$ Lowest free standing
convector without fan.

CHARACTERISTICS

- high output
- short response time

DIMENSIONS

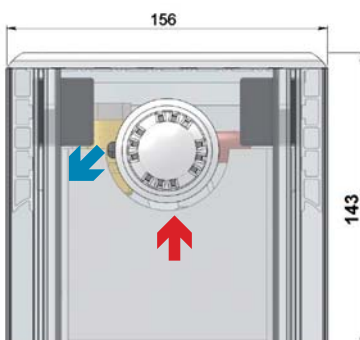
| | |
|---------------|----------------|
| width | 156 mm |
| design height | 143 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|----------|--------------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille
must not be loaded or covered.

cross section



HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|----|---------------------------|------------|-------|
| | 15 | 20 | 22 |
| | length L (mm) 900 | | |
| 80 | 456 | 412 | 395 |
| 70 | 370 | 328 | 312 |
| 60 | 288 | 248 | 233 |
| 45 | 173 | 138 | 124 |
| | 15 | 20 | 22 |
| | length L (mm) 1000 | | |
| 80 | 520 | 470 | 451 |
| 70 | 422 | 374 | 356 |
| 60 | 328 | 283 | 266 |
| 45 | 198 | 157 | 142 |
| | 15 | 20 | 22 |
| | length L (mm) 1250 | | |
| 80 | 679 | 614 | 589 |
| 70 | 551 | 489 | 465 |
| 60 | 429 | 370 | 347 |
| 45 | 258 | 206 | 185 |
| | 15 | 20 | 22 |
| | length L (mm) 1500 | | |
| 80 | 838 | 759 | 727 |
| 70 | 680 | 604 | 574 |
| 60 | 529 | 457 | 429 |
| 45 | 319 | 254 | 229 |
| | 15 | 20 | 22 |
| | length L (mm) 1750 | | |
| 80 | 998 | 903 | 865 |
| 70 | 810 | 719 | 683 |
| 60 | 630 | 544 | 510 |
| 45 | 380 | 302 | 272 |
| | 15 | 20 | 22 |
| | length L (mm) 2000 | | |
| 80 | 1 157 | 1 047 | 1 004 |
| 70 | 939 | 834 | 792 |
| 60 | 731 | 631 | 592 |
| 45 | 440 | 351 | 316 |

mean water temperature t_w



COIL-SP1/4

THERMAL EXPONENT $n = 1,3816$

HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|---------------|-----------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) | | |
| 80 | 900 | | |
| | 839 | 751 | 717 |
| | 70 | 666 | 584 |
| | 60 | 505 | 429 |
| | 45 | 288 | 224 |
| 1000 | 15 | | |
| | 20 | | |
| | 22 | | |
| | length L (mm) | | |
| | 1000 | | |
| 80 | 957 | 857 | 818 |
| | 70 | 760 | 666 |
| | 60 | 576 | 489 |
| | 45 | 329 | 256 |
| | 1250 | 15 | |
| 20 | | | |
| 22 | | | |
| length L (mm) | | | |
| 1250 | | | |
| 80 | 1 253 | 1 122 | 1 070 |
| | 70 | 995 | 872 |
| | 60 | 754 | 641 |
| | 45 | 430 | 335 |
| | 1500 | 15 | |
| 20 | | | |
| 22 | | | |
| length L (mm) | | | |
| 1500 | | | |
| 80 | 1 548 | 1 386 | 1 323 |
| | 70 | 1 229 | 1 077 |
| | 60 | 931 | 792 |
| | 45 | 532 | 414 |
| | 1750 | 15 | |
| 20 | | | |
| 22 | | | |
| length L (mm) | | | |
| 1750 | | | |
| 80 | 1 844 | 1 651 | 1 575 |
| | 70 | 1 464 | 1 283 |
| | 60 | 1 109 | 943 |
| | 45 | 633 | 492 |
| | 2000 | 15 | |
| 20 | | | |
| 22 | | | |
| length L (mm) | | | |
| 2000 | | | |
| 80 | 2 139 | 1 915 | 1 827 |
| | 70 | 1 698 | 1 489 |
| | 60 | 1 287 | 1 094 |
| | 45 | 735 | 571 |

Standard free standing convector without fan with a width of 156 mm.

CHARACTERISTICS

- high output
- short response time

DIMENSIONS

| | |
|---------------|----------------|
| width | 156 mm |
| design height | 238 mm |
| length | 900 to 2000 mm |
| connection | G½" |

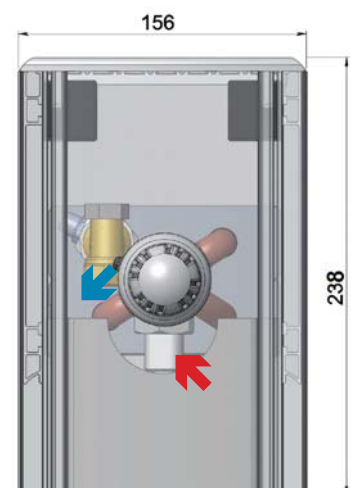
COLOR DESIGN

| | |
|-----------------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.



cross section





COIL-SP2/4

THERMAL EXPONENT $n = 1,3911$ 

Standard free standing convector without fan with increased output and a width of 156 mm.

CHARACTERISTICS

- high output
- short response time

DIMENSIONS

| | |
|---------------|----------------|
| width | 156 mm |
| design height | 408 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

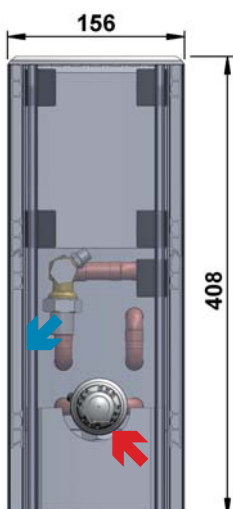
| | |
|----------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

HEAT OUTPUT Q [W]

| | air temperature t_A | | | |
|------------------------------|---------------------------|-------|-------|-------|
| | 15 | 20 | 22 | |
| | length L (mm) | | | |
| mean water temperature t_w | length L (mm) 900 | | | |
| | 80 | 1 307 | 1 169 | 1 116 |
| | 70 | 1 036 | 907 | 857 |
| | 60 | 784 | 665 | 619 |
| | 45 | 446 | 346 | 308 |
| | length L (mm) 1000 | | | |
| | 80 | 1 490 | 1 333 | 1 272 |
| | 70 | 1 181 | 1 034 | 977 |
| | 60 | 893 | 758 | 706 |
| | 45 | 508 | 394 | 351 |
| | length L (mm) 1250 | | | |
| | 80 | 1 947 | 1 742 | 1 662 |
| 70 | 1 543 | 1 352 | 1 277 | |
| 60 | 1 167 | 991 | 923 | |
| 45 | 664 | 515 | 459 | |
| length L (mm) 1500 | | | | |
| 80 | 2 404 | 2 151 | 2 052 | |
| 70 | 1 906 | 1 669 | 1 577 | |
| 60 | 1 441 | 1 224 | 1 139 | |
| 45 | 820 | 636 | 567 | |
| length L (mm) 1750 | | | | |
| 80 | 2 861 | 2 560 | 2 442 | |
| 70 | 2 268 | 1 986 | 1 877 | |
| 60 | 1 715 | 1 456 | 1 356 | |
| 45 | 976 | 757 | 674 | |
| length L (mm) 2000 | | | | |
| 80 | 3 318 | 2 968 | 2 832 | |
| 70 | 2 630 | 2 303 | 2 176 | |
| 60 | 1 989 | 1 689 | 1 572 | |
| 45 | 1 132 | 878 | 782 | |

cross section





COIL-SW250

THERMAL EXPONENT $n = 1,4173$



HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|----|-----------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) | | 900 |
| 80 | 1 533 | 1 369 | 1 305 |
| | 1 210 | 1 057 | 998 |
| | 910 | 770 | 716 |
| | 512 | 396 | 352 |
| | 15 | 20 | 22 |
| | length L (mm) | | 1000 |
| | 80 | 1 748 | 1 560 |
| 70 | 1 379 | 1 205 | 1 137 |
| 60 | 1 038 | 878 | 817 |
| 45 | 584 | 451 | 401 |
| | 15 | 20 | 22 |
| | length L (mm) | | 1250 |
| | 80 | 2 284 | 2 039 |
| 70 | 1 802 | 1 575 | 1 486 |
| 60 | 1 356 | 1 148 | 1 067 |
| 45 | 763 | 590 | 524 |
| | 15 | 20 | 22 |
| | length L (mm) | | 1500 |
| | 80 | 2 820 | 2 517 |
| 70 | 2 225 | 1 944 | 1 835 |
| 60 | 1 675 | 1 417 | 1 318 |
| 45 | 943 | 728 | 647 |
| | 15 | 20 | 22 |
| | length L (mm) | | 1750 |
| | 80 | 3 356 | 2 996 |
| 70 | 2 648 | 2 314 | 2 184 |
| 60 | 1 993 | 1 686 | 1 568 |
| 45 | 1 122 | 866 | 770 |
| | 15 | 20 | 22 |
| | length L (mm) | | 2000 |
| | 80 | 3 892 | 3 475 |
| 70 | 3 072 | 2 683 | 2 533 |
| 60 | 2 311 | 1 956 | 1 819 |
| 45 | 1 301 | 1 005 | 893 |

Most powerful free standing convector without fan with a height of 258 mm.

CHARACTERISTICS

- high output
- short response time

DIMENSIONS

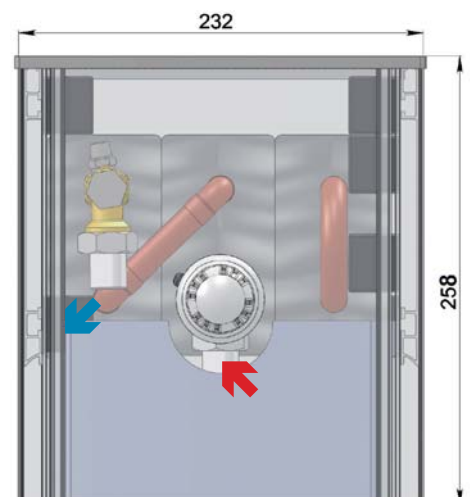
| | |
|---------------|----------------|
| width | 232 mm |
| design height | 258 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|-----------------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

cross section



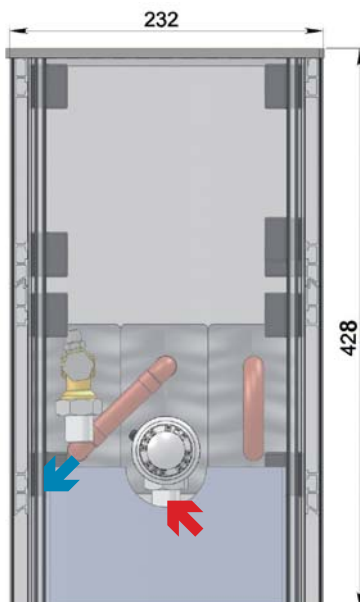


COIL-SW420

THERMAL EXPONENT $n = 1,3752$ 

Most powerful free standing convector without fan with a height of 428 mm.

cross section



CHARACTERISTICS

- very high output
- short response time

DIMENSIONS

| | |
|---------------|----------------|
| width | 232 mm |
| design height | 428 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|----------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

HEAT OUTPUT Q [W]

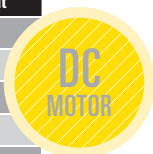
| | air temperature t_A | | |
|----|-----------------------|--------------|-------|
| | 15 | 20 | 22 |
| | length L (mm) | | |
| | 900 | | |
| 80 | 1 857 | 1 663 | 1 588 |
| 70 | 1 476 | 1 295 | 1 224 |
| 60 | 1 120 | 952 | 888 |
| 45 | 641 | 499 | 445 |
| | 15 20 22 | | |
| | length L (mm) | | |
| | 1000 | | |
| 80 | 2 117 | 1 896 | 1 810 |
| 70 | 1 682 | 1 476 | 1 395 |
| 60 | 1 277 | 1 086 | 1 012 |
| 45 | 731 | 569 | 507 |
| | 15 20 22 | | |
| | length L (mm) | | |
| | 1250 | | |
| 80 | 2 766 | 2 478 | 2 365 |
| 70 | 2 198 | 1 928 | 1 823 |
| 60 | 1 668 | 1 419 | 1 322 |
| 45 | 955 | 743 | 663 |
| | 15 20 22 | | |
| | length L (mm) | | |
| | 1500 | | |
| 80 | 3 415 | 3 059 | 2 920 |
| 70 | 2 714 | 2 381 | 2 251 |
| 60 | 2 060 | 1 752 | 1 632 |
| 45 | 1 179 | 918 | 818 |
| | 15 20 22 | | |
| | length L (mm) | | |
| | 1750 | | |
| 80 | 4 065 | 3 641 | 3 475 |
| 70 | 3 230 | 2 833 | 2 679 |
| 60 | 2 451 | 2 085 | 1 943 |
| 45 | 1 404 | 1 092 | 974 |
| | 15 20 22 | | |
| | length L (mm) | | |
| | 2000 | | |
| 80 | 4 714 | 4 222 | 4 030 |
| 70 | 3 746 | 3 286 | 3 107 |
| 60 | 2 843 | 2 418 | 2 253 |
| 45 | 1 628 | 1 267 | 1 130 |

mean water temperature t_w

COIL-SK1

ELECTRIC POWER INPUT FOR FANS

| length | power input |
|--------|-------------|
| 900 | 12 VA |
| 1000 | 12 VA |
| 1250 | 24 VA |
| 1500 | 24 VA |
| 1750 | 24 VA |
| 2000 | 36 VA |



Lowest free standing convector with fan.

CHARACTERISTICS

- high forced convection heating output
- quick response heating element
- heating even with fan switched off
- low power consumption
- safe voltage 12 V DC
- easy control

DIMENSIONS

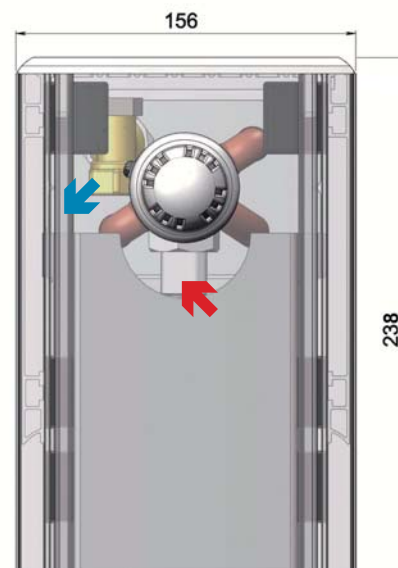
| | |
|---------------|----------------|
| width | 156 mm |
| design height | 238 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|-----------------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

cross section





Recommended regulation
EB-A, EB-B, or EB-C

THERMAL EXPONENT $n = 1,09525$

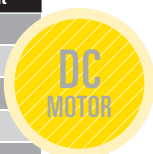
HEAT OUTPUT Q [W]

| | 1st degree minimum speed | | | 2nd degree medium speed | | | 3rd degree maximum speed | | | | |
|----|-----------------------------|--------------|-------|----------------------------|-------|--------------|-----------------------------|----|-------|--------------|-------|
| | air temperature t_a | | | air temperature t_a | | | air temperature t_a | | | | |
| | 15 | 20 | 22 | 15 | 20 | 22 | 15 | 20 | 22 | | |
| | length L (mm) 900 | | | length L (mm) 900 | | | length L (mm) 900 | | | | |
| 80 | 1 159 | 1 061 | 1 023 | 80 | 1 239 | 1 135 | 1 094 | 80 | 1 614 | 1 478 | 1 425 |
| 70 | 965 | 869 | 831 | 70 | 1 032 | 930 | 889 | 70 | 1 344 | 1 211 | 1 158 |
| 60 | 774 | 681 | 644 | 60 | 829 | 728 | 689 | 60 | 1 079 | 948 | 896 |
| 45 | 497 | 407 | 371 | 45 | 531 | 435 | 397 | 45 | 692 | 567 | 517 |
| | length L (mm) 1000 | | | length L (mm) 1000 | | | length L (mm) 1000 | | | | |
| 80 | 1 352 | 1 238 | 1 193 | 80 | 1 446 | 1 325 | 1 276 | 80 | 1 883 | 1 725 | 1 662 |
| 70 | 1 126 | 1 014 | 970 | 70 | 1 204 | 1 085 | 1 037 | 70 | 1 568 | 1 413 | 1 351 |
| 60 | 904 | 794 | 751 | 60 | 967 | 850 | 803 | 60 | 1 259 | 1 106 | 1 046 |
| 45 | 580 | 475 | 433 | 45 | 620 | 508 | 463 | 45 | 807 | 661 | 603 |
| | length L (mm) 1250 | | | length L (mm) 1250 | | | length L (mm) 1250 | | | | |
| 80 | 1 834 | 1 680 | 1 619 | 80 | 1 963 | 1 798 | 1 732 | 80 | 2 555 | 2 341 | 2 255 |
| 70 | 1 528 | 1 376 | 1 316 | 70 | 1 634 | 1 472 | 1 408 | 70 | 2 128 | 1 917 | 1 833 |
| 60 | 1 226 | 1 078 | 1 019 | 60 | 1 312 | 1 153 | 1 090 | 60 | 1 708 | 1 501 | 1 419 |
| 45 | 787 | 644 | 588 | 45 | 841 | 689 | 629 | 45 | 1 096 | 897 | 819 |
| | length L (mm) 1500 | | | length L (mm) 1500 | | | length L (mm) 1500 | | | | |
| 80 | 2 317 | 2 123 | 2 045 | 80 | 2 479 | 2 271 | 2 188 | 80 | 3 228 | 2 957 | 2 849 |
| 70 | 1 930 | 1 738 | 1 662 | 70 | 2 064 | 1 860 | 1 779 | 70 | 2 688 | 2 422 | 2 316 |
| 60 | 1 549 | 1 362 | 1 287 | 60 | 1 657 | 1 457 | 1 377 | 60 | 2 158 | 1 897 | 1 793 |
| 45 | 994 | 814 | 743 | 45 | 1 063 | 871 | 795 | 45 | 1 384 | 1 133 | 1 035 |
| | length L (mm) 1750 | | | length L (mm) 1750 | | | length L (mm) 1750 | | | | |
| 80 | 2 800 | 2 565 | 2 471 | 80 | 2 995 | 2 744 | 2 644 | 80 | 3 900 | 3 573 | 3 443 |
| 70 | 2 332 | 2 101 | 2 009 | 70 | 2 495 | 2 247 | 2 149 | 70 | 3 248 | 2 926 | 2 798 |
| 60 | 1 872 | 1 645 | 1 555 | 60 | 2 002 | 1 760 | 1 664 | 60 | 2 607 | 2 292 | 2 166 |
| 45 | 1 201 | 983 | 897 | 45 | 1 284 | 1 052 | 960 | 45 | 1 672 | 1 370 | 1 250 |
| | length L (mm) 2000 | | | length L (mm) 2000 | | | length L (mm) 2000 | | | | |
| 80 | 3 283 | 3 007 | 2 898 | 80 | 3 512 | 3 217 | 3 100 | 80 | 4 573 | 4 189 | 4 036 |
| 70 | 2 734 | 2 463 | 2 355 | 70 | 2 925 | 2 635 | 2 520 | 70 | 3 808 | 3 431 | 3 281 |
| 60 | 2 194 | 1 929 | 1 823 | 60 | 2 348 | 2 063 | 1 951 | 60 | 3 057 | 2 687 | 2 540 |
| 45 | 1 408 | 1 153 | 1 052 | 45 | 1 506 | 1 233 | 1 126 | 45 | 1 961 | 1 606 | 1 466 |

COIL-SK2

ELECTRIC POWER INPUT FOR FANS

| length | power input |
|--------|-------------|
| 900 | 12 VA |
| 1000 | 12 VA |
| 1250 | 24 VA |
| 1500 | 24 VA |
| 1750 | 24 VA |
| 2000 | 36 VA |



Most powerful free standing convector with fan.

CHARACTERISTICS

- high forced convection heating output
- quick response heating element
- heating even with fan switched off
- low power consumption
- safe voltage 12 V DC
- easy control

DIMENSIONS

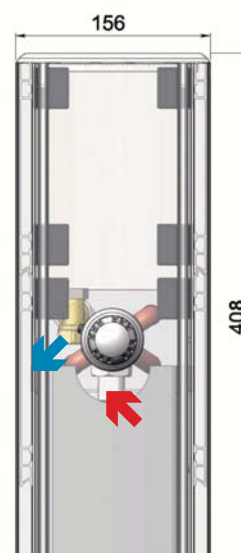
| | |
|---------------|----------------|
| width | 156 mm |
| design height | 408 mm |
| length | 900 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|-----------------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

cross section





Recommended regulation
EB-A, EB-B, or EB-C

THERMAL EXPONENT $n = 1,17097$

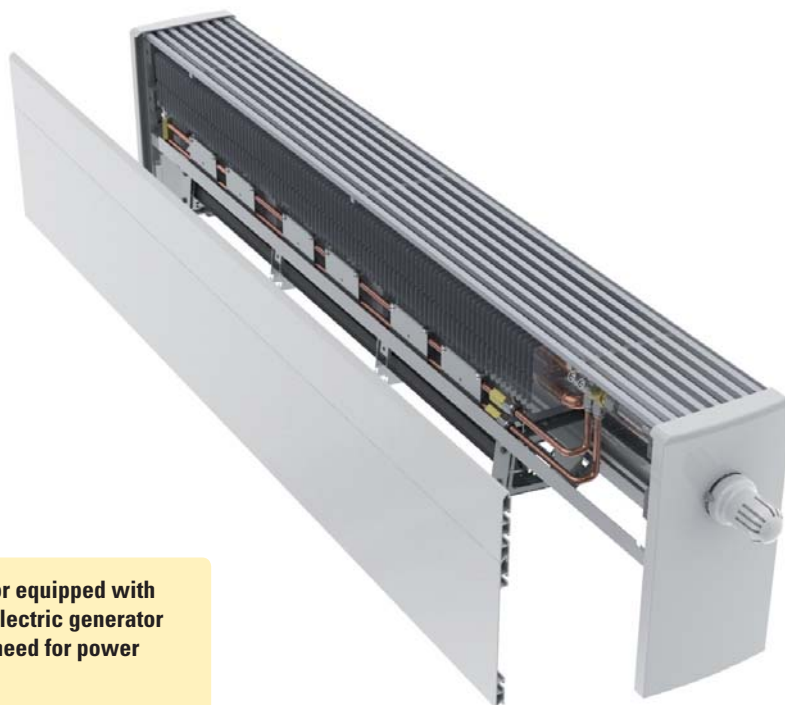
HEAT OUTPUT Q [W]

| | 1st degree minimum speed | | | 2nd degree medium speed | | | 3rd degree maximum speed | | | | |
|----|-----------------------------|-------|-------|----------------------------|-------|-------|-----------------------------|----|-------|-------|-------|
| | air temperature t_A | | | air temperature t_A | | | air temperature t_A | | | | |
| | 15 | 20 | 22 | 15 | 20 | 22 | 15 | 20 | 22 | | |
| | length L (mm) 900 | | | length L (mm) 900 | | | length L (mm) 900 | | | | |
| 80 | 1 714 | 1 560 | 1 500 | 80 | 1 802 | 1 641 | 1 577 | 80 | 2 042 | 1 859 | 1 787 |
| 70 | 1 409 | 1 260 | 1 202 | 70 | 1 482 | 1 326 | 1 264 | 70 | 1 679 | 1 502 | 1 432 |
| 60 | 1 114 | 971 | 914 | 60 | 1 172 | 1 021 | 961 | 60 | 1 328 | 1 157 | 1 089 |
| 45 | 693 | 560 | 508 | 45 | 729 | 589 | 534 | 45 | 826 | 667 | 605 |
| | length L (mm) 1000 | | | length L (mm) 1000 | | | length L (mm) 1000 | | | | |
| 80 | 1 999 | 1 820 | 1 750 | 80 | 2 103 | 1 915 | 1 840 | 80 | 2 382 | 2 169 | 2 085 |
| 70 | 1 644 | 1 470 | 1 402 | 70 | 1 729 | 1 547 | 1 474 | 70 | 1 959 | 1 752 | 1 670 |
| 60 | 1 300 | 1 132 | 1 066 | 60 | 1 367 | 1 191 | 1 122 | 60 | 1 549 | 1 349 | 1 271 |
| 45 | 808 | 653 | 592 | 45 | 850 | 687 | 623 | 45 | 963 | 778 | 706 |
| | length L (mm) 1250 | | | length L (mm) 1250 | | | length L (mm) 1250 | | | | |
| 80 | 2 713 | 2 471 | 2 374 | 80 | 2 854 | 2 599 | 2 497 | 80 | 3 233 | 2 944 | 2 829 |
| 70 | 2 231 | 1 996 | 1 902 | 70 | 2 347 | 2 099 | 2 001 | 70 | 2 659 | 2 378 | 2 267 |
| 60 | 1 764 | 1 537 | 1 447 | 60 | 1 855 | 1 616 | 1 522 | 60 | 2 102 | 1 831 | 1 724 |
| 45 | 1 097 | 886 | 804 | 45 | 1 154 | 932 | 846 | 45 | 1 307 | 1 056 | 958 |
| | length L (mm) 1500 | | | length L (mm) 1500 | | | length L (mm) 1500 | | | | |
| 80 | 3 427 | 3 121 | 2 999 | 80 | 3 605 | 3 282 | 3 155 | 80 | 4 084 | 3 719 | 3 574 |
| 70 | 2 818 | 2 521 | 2 403 | 70 | 2 964 | 2 651 | 2 528 | 70 | 3 358 | 3 004 | 2 864 |
| 60 | 2 228 | 1 941 | 1 828 | 60 | 2 344 | 2 042 | 1 923 | 60 | 2 655 | 2 313 | 2 178 |
| 45 | 1 386 | 1 120 | 1 015 | 45 | 1 458 | 1 178 | 1 068 | 45 | 1 652 | 1 334 | 1 210 |
| | length L (mm) 1750 | | | length L (mm) 1750 | | | length L (mm) 1750 | | | | |
| 80 | 4 141 | 3 771 | 3 624 | 80 | 4 356 | 3 966 | 3 812 | 80 | 4 935 | 4 493 | 4 319 |
| 70 | 3 406 | 3 046 | 2 904 | 70 | 3 582 | 3 204 | 3 054 | 70 | 4 058 | 3 630 | 3 460 |
| 60 | 2 692 | 2 346 | 2 209 | 60 | 2 832 | 2 467 | 2 323 | 60 | 3 208 | 2 795 | 2 632 |
| 45 | 1 675 | 1 353 | 1 227 | 45 | 1 762 | 1 423 | 1 291 | 45 | 1 996 | 1 612 | 1 462 |
| | length L (mm) 2000 | | | length L (mm) 2000 | | | length L (mm) 2000 | | | | |
| 80 | 4 855 | 4 421 | 4 249 | 80 | 5 107 | 4 650 | 4 469 | 80 | 5 786 | 5 268 | 5 063 |
| 70 | 3 993 | 3 571 | 3 404 | 70 | 4 200 | 3 756 | 3 581 | 70 | 4 758 | 4 255 | 4 057 |
| 60 | 3 157 | 2 750 | 2 590 | 60 | 3 320 | 2 892 | 2 724 | 60 | 3 761 | 3 277 | 3 086 |
| 45 | 1 963 | 1 586 | 1 438 | 45 | 2 065 | 1 668 | 1 513 | 45 | 2 340 | 1 890 | 1 714 |

COIL-SK-PTG



Regulation with thermostatic head.



HEAT OUTPUT Q [W]

| | air temperature t_A | | |
|----|---------------------------|--------------|-------|
| | 15 | 20 | 22 |
| | length L (mm) 1000 | | |
| 80 | 1 610 | 1 503 | 1 460 |
| 70 | 1 395 | 1 288 | 1 245 |
| 60 | 1 108 | 1 007 | 967 |
| 50 | 554 | 475 | 443 |
| | length L (mm) 1250 | | |
| 80 | 2 098 | 1 958 | 1 902 |
| 70 | 1 818 | 1 678 | 1 622 |
| 60 | 1 447 | 1 315 | 1 262 |
| 50 | 734 | 629 | 587 |
| | length L (mm) 1500 | | |
| 80 | 2 659 | 2 482 | 2 411 |
| 70 | 2 304 | 2 127 | 2 056 |
| 60 | 1 836 | 1 669 | 1 602 |
| 50 | 933 | 800 | 747 |
| | length L (mm) 1750 | | |
| 80 | 3 132 | 2 923 | 2 839 |
| 70 | 2 714 | 2 505 | 2 422 |
| 60 | 2 158 | 1 962 | 1 884 |
| 50 | 1 083 | 928 | 866 |
| | length L (mm) 2000 | | |
| 80 | 3 572 | 3 334 | 3 239 |
| 70 | 3 096 | 2 858 | 2 763 |
| 60 | 2 465 | 2 241 | 2 151 |
| 50 | 1 239 | 1 062 | 991 |

Convector equipped with thermo-electric generator without need for power supply.

Suitable for interiors without power supply or where the most efficient solution is required in terms of power supply.

CHARACTERISTICS

- high forced convection output
- short response time
- zero power supply
- silent operation

DIMENSIONS

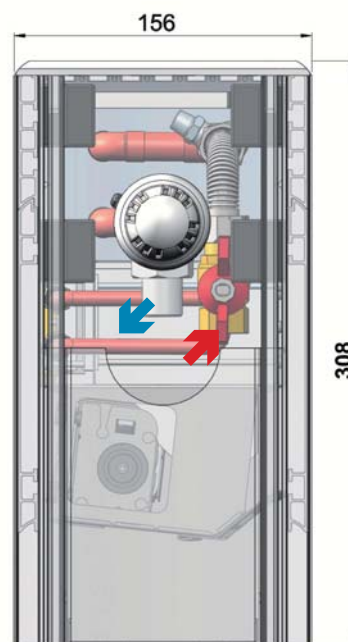
| | |
|---------------|-----------------|
| width | 156 mm |
| design height | 308 mm |
| length | 1000 to 2000 mm |
| connection | G½" |

COLOR DESIGN

| | |
|-----------------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

INFO: decorative convector grille must not be loaded or covered.

cross section





*31

COIL-LP

THERMAL EXPONENT $n = 1,4035$



Heating bench without fan with **GRANITE** or **WOODEN** top panel.

The bench is suitable as an esthetic component for interiors or swimming pools.

CHARACTERISTICS

- very high convection output
- high radiation output
- quick response heating element

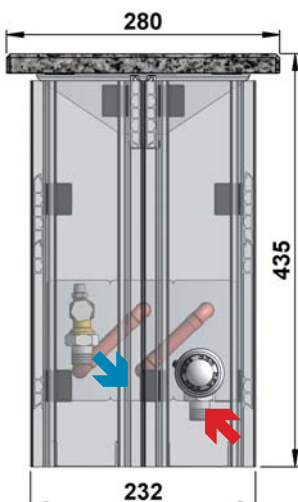
DIMENSIONS

| | |
|------------------|------------------------|
| width | 280 mm |
| design height | 435 mm |
| length | 1000, 1250 and 1500 mm |
| granite panel | 1000 and 1250 mm |
| wooden panel | 1500 mm |
| loading capacity | do 150 kg |
| connection | G½" |

COLOR DESIGN

| | |
|-----------------|-----------------------------|
| ANODIZED | silver |
| | light bronze |
| | dark bronze |
| PAINTED | RAL 9016 semi-gloss (white) |

cross section



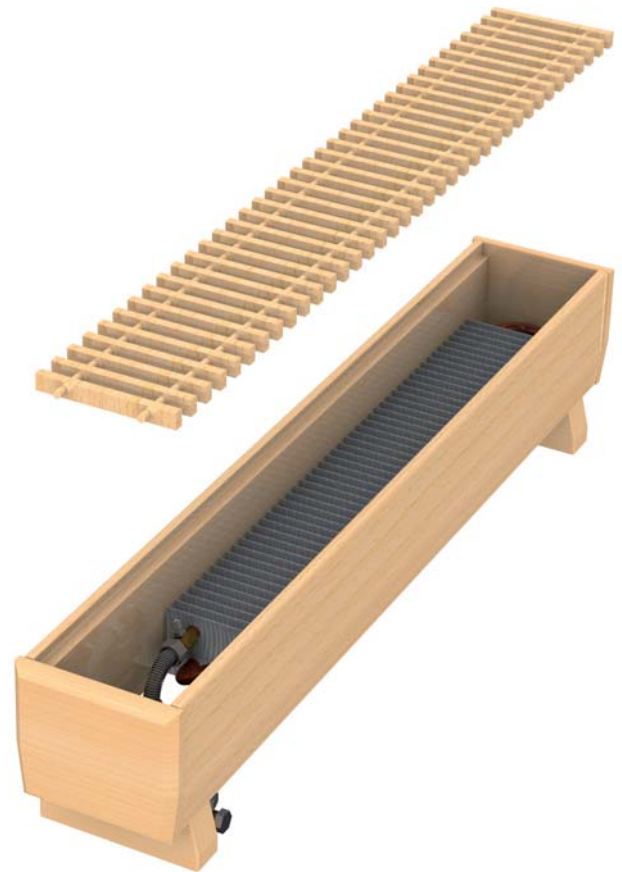
HEAT OUTPUT Q [W]

| | air temperature t_a | | |
|----|---------------------------|-------|-------|
| | 15 | 20 | 22 |
| | length L (mm) 1000 | | |
| 80 | 1 923 | 1 719 | 1 639 |
| 70 | 1 521 | 1 331 | 1 257 |
| 60 | 1 148 | 973 | 905 |
| 45 | 650 | 503 | 448 |
| | length L (mm) 1250 | | |
| 80 | 2 513 | 2 246 | 2 142 |
| 70 | 1 988 | 1 739 | 1 642 |
| 60 | 1 500 | 1 271 | 1 183 |
| 45 | 849 | 657 | 585 |
| | length L (mm) 1500 | | |
| 80 | 3 103 | 2 774 | 2 645 |
| 70 | 2 455 | 2 147 | 2 028 |
| 60 | 1 852 | 1 570 | 1 461 |
| 45 | 1 048 | 812 | 722 |



COIL-DP

THERMAL EXPONENT $n = 1,3788$



HEAT OUTPUT Q [W]

| | | air temperature t_A | | | |
|------------------------------|-------|-----------------------|---------------|-------|------|
| | | 15 | 20 | 22 | |
| | | length L (mm) | | 900 | |
| mean water temperature t_w | 80 | 747 | 669 | 639 | |
| | 70 | 594 | 521 | 492 | |
| | 60 | 450 | 383 | 357 | |
| | 45 | 257 | 200 | 178 | |
| | | | 15 | 20 | 22 |
| | | | length L (mm) | | 1000 |
| | 80 | 872 | 781 | 745 | |
| | 70 | 693 | 607 | 574 | |
| | 60 | 525 | 446 | 416 | |
| | 45 | 300 | 234 | 208 | |
| | | | 15 | 20 | 22 |
| | | | length L (mm) | | 1500 |
| | 80 | 1 495 | 1 339 | 1 277 | |
| | 70 | 1 187 | 1 041 | 984 | |
| | 60 | 900 | 765 | 713 | |
| | 45 | 515 | 400 | 357 | |
| | | 15 | 20 | 22 | |
| | | length L (mm) | | 2000 | |
| 80 | 2 118 | 1 896 | 1 810 | | |
| 70 | 1 682 | 1 475 | 1 394 | | |
| 60 | 1 275 | 1 084 | 1 010 | | |
| 45 | 729 | 567 | 506 | | |

All-wood free standing convector without fan.

Specially designed esthetic interior component manufactured from solid timber (beech).

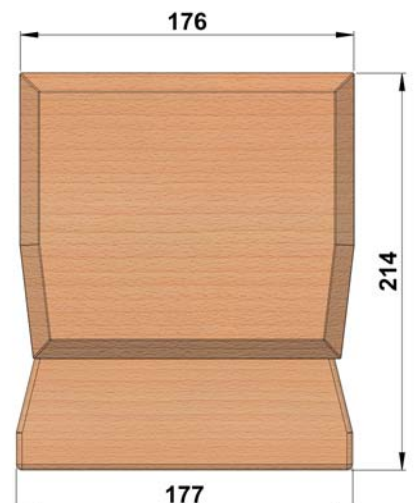
CHARACTERISTICS

- high natural convection output
- short response time

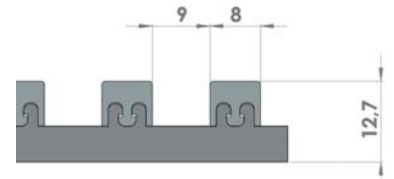
DIMENSIONS

| | |
|---------------|----------------|
| width | 176 mm |
| design height | 214 mm |
| length | 900 to 2000 mm |
| connection | G½" |

cross section



GRILLES



LONGITUDINAL – AL pro NK1, NK2, NK PTG, NU1, NU2, NP1/4, NP2/4, NW170, NW340, SK1, SK2, SK PTG, SU1, SU2, SP1/4, SP2/4, SW250, SW420, SP0



dark bronze



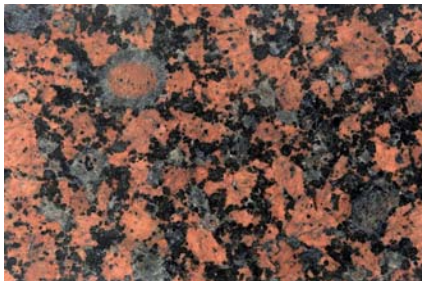
light bronze



silver

PANELS

GRANITE PANEL for LP



red-black



brown-green



white-black

COLOR DESIGN



dark bronze



light bronze



silver



white

Physical characteristics

APPROXIMATE AIR THROUGHPUT OF MINIB CONVECTORS, m³/h

| fan wheel diameter | convector length | low speed | medium speed | maximum speed |
|--------------------|------------------|-----------|--------------|---------------|
| 30 mm | 1000 mm | 100 | 120 | 250 |
| 50 mm | 1000 mm | 200 | 220 | 300 |

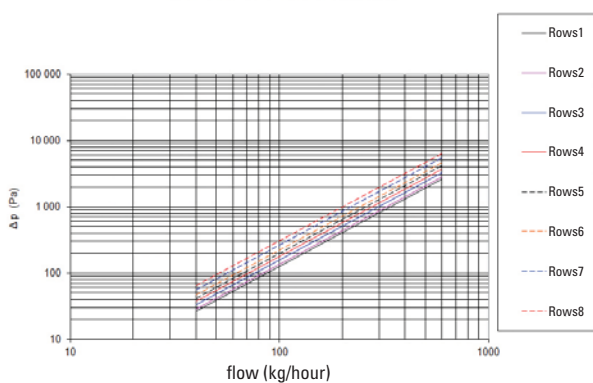
Info: air throughput values in the table apply to 1000 mm convectors. For other lengths, multiply the unit throughputs by the relevant convector length in meters (for example, COIL NK1 with a length of 2000 mm has air throughput for medium speed $220 \times 2 = 440 \text{ m}^3/\text{h}$).

WATER VOLUME OF MINIB CONVECTORS, dm³

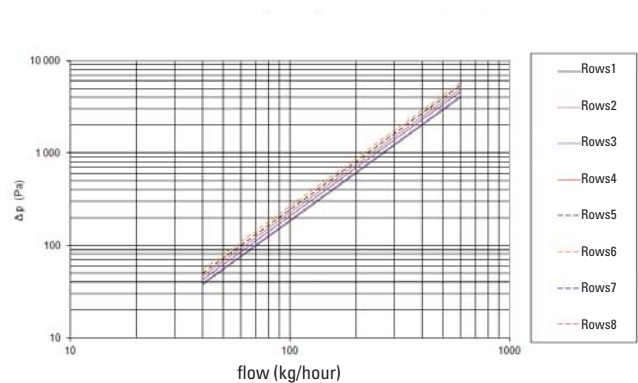
| Average water volume of MINIB convectors (two-pipe exchangers): | | | | | | | | | |
|---|------|------|------|------|------|------|-----|-----|--|
| convector length, m | 0,9 | 1,0 | 1,25 | 1,5 | 1,75 | 2,0 | 2,5 | 3,0 | |
| water volume of exchanger, dm ³ (for pipe diameter 15mm) | 0,2 | 0,25 | 0,3 | 0,4 | 0,5 | 0,6 | 0,7 | 0,9 | |
| water volume of exchanger, dm ³ (for pipe diameter 12mm) | 0,13 | 0,15 | 0,2 | 0,25 | 0,3 | 0,35 | 0,4 | 0,5 | |

Pressure losses

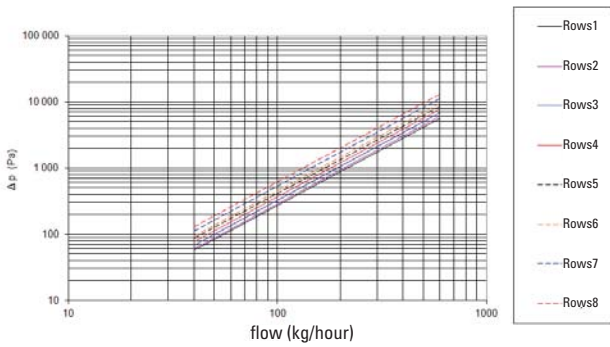
Pressure losses of 2 tube exchanger MINIB KZ 60, Cu pipe Ø 15mm



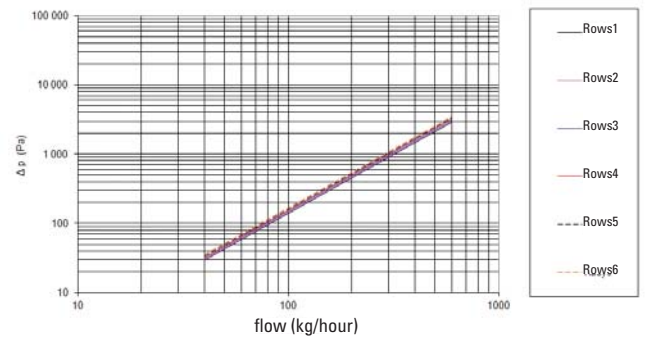
Pressure losses of 2 tube exchanger MINIB SP0, Cu pipe Ø 15mm



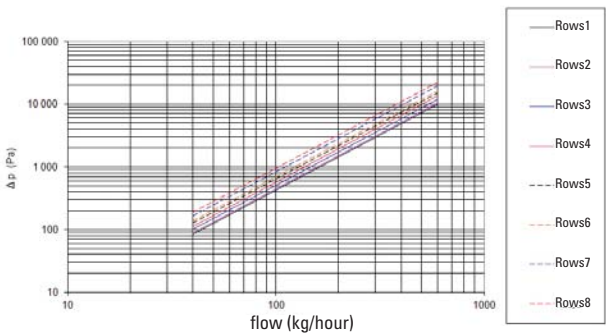
Pressure losses of 4 tube exchanger MINIB KZ90, NK1, NK2, SK1, SK2, NU1, NU2, SU1, SU2, DP
Cu pipe Ø 15 mm



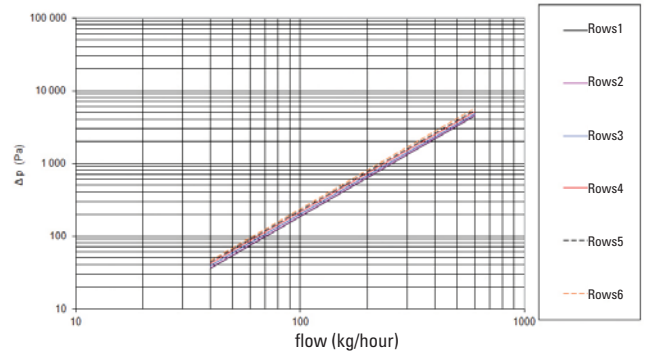
Pressure losses of 4 tube exchanger MINIB NP1/SP1
4 Cu pipes Ø 15 mm



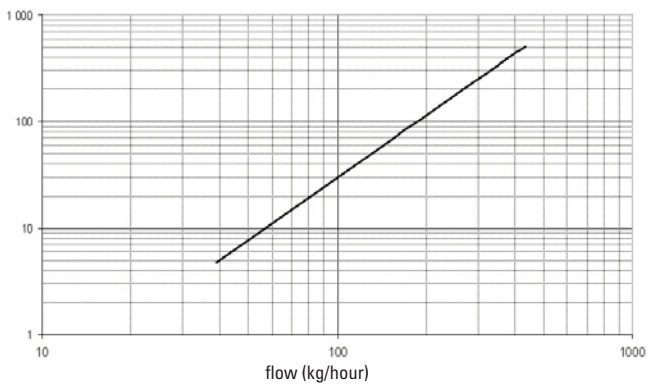
Pressure losses of 6 tube exchanger MINIB NW170, NW340, SW250, SW420, LP Cu pipe Ø 15 mm



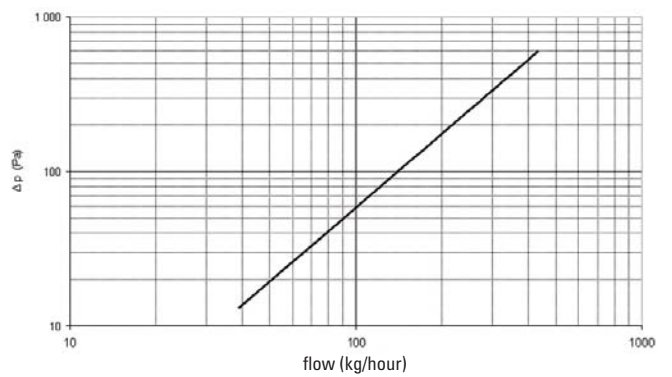
Pressure losses of 8 tube exchanger MINIB NP2/SP2
8 Cu pipes Ø 15 mm



Pressure losses of direct ball valve 1/2"

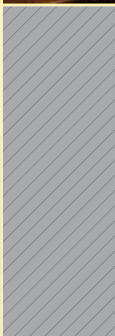
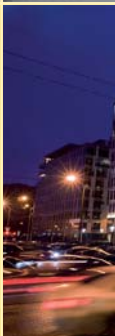
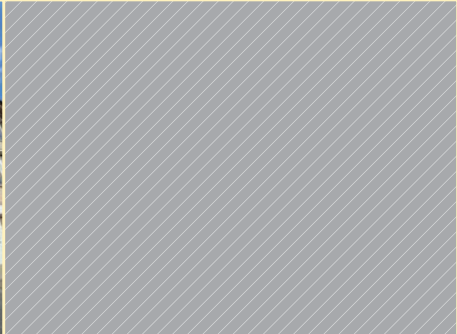
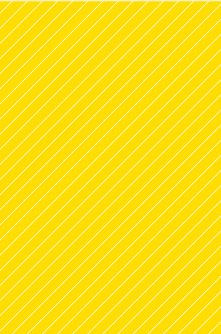
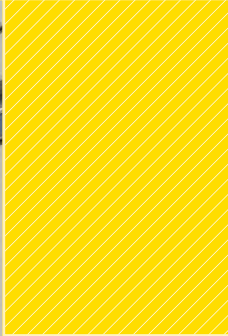


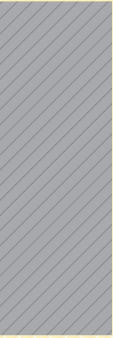
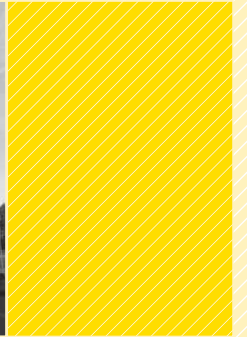
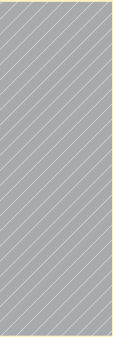
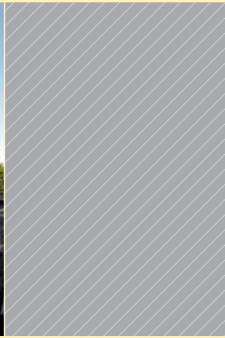
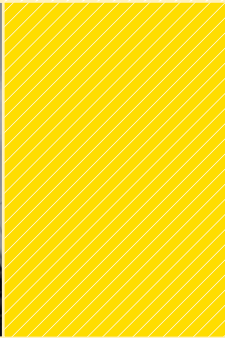
Pressure losses in flexible stainless hose AZ 1/2"
L = 65mm



REFERENCES

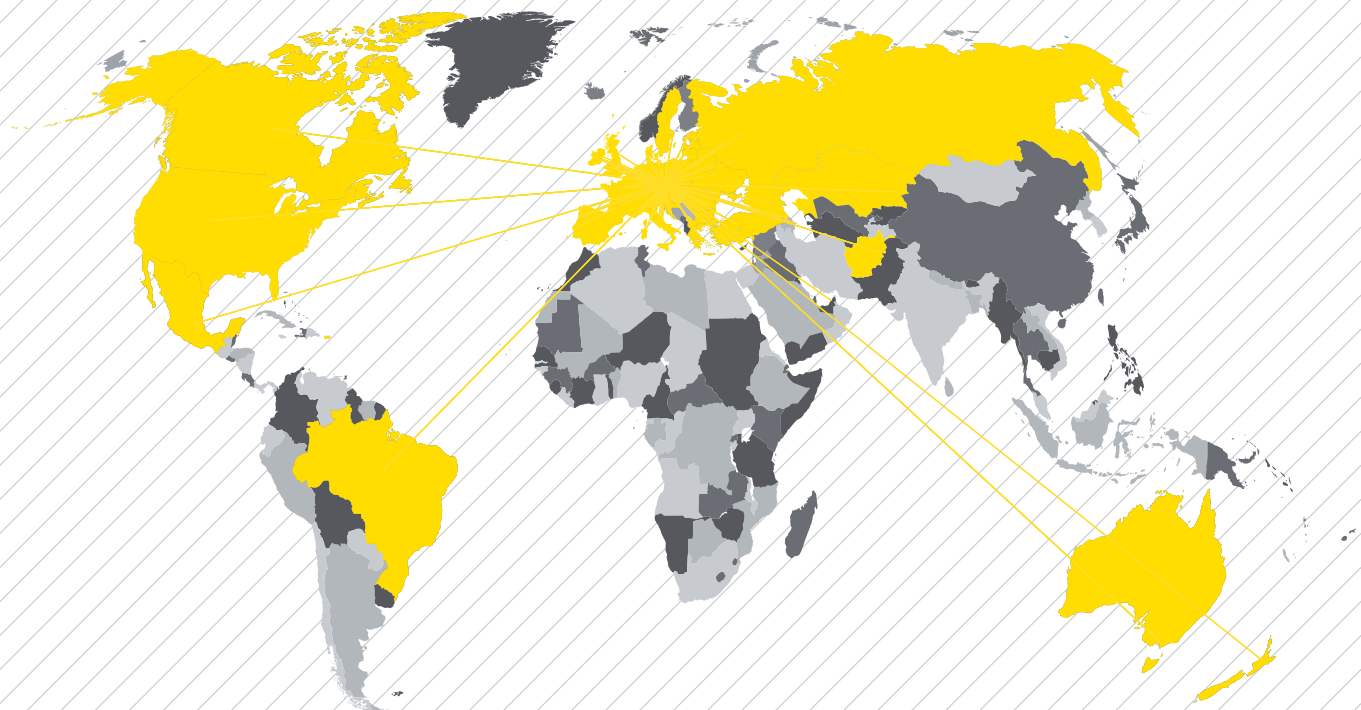
Convectors are suitable for all building types.





MINIB[®]

●●● more than just heat



REGISTERED OFFICE OF THE COMPANY

MINIB, a.s.

Střešovická 465/49, 162 00 Prague 6

Czech Republic

Tel.: +420 220 180 780

Fax: +420 220 180 779

Email: export@minib.cz, www.minib.cz

MANUFACTURING

Manufacturing premises MINIB, a.s.

Býkev u Mělníka 84, 276 01 Býkev

Czech Republic