

# MINIB<sup>®</sup>



## WALL MOUNTED AND FREE STANDING CONVECTORS

... more than just heat

# ABOUT US



## 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.

# CONTENTS

## WALL MOUNTED CONVECTORS

Coil NU1  
Coil NU2  
Coil NP1/4  
Coil NP2/4  
Coil NW170  
Coil NW340  
Coil NK1  
Coil NK2  
Coil NK PTG  
Coil KZ

## FREE STANDING CONVECTORS

5 Coil SU1  
6 Coil SU2  
7 Coil SP0  
8 Coil SP1/4  
9 Coil SP2/4  
10 Coil SW250  
11 Coil SW420  
12 Coil SK1  
13 Coil SK2  
14 Coil SK-PTG  
Coil LP  
Coil DP

17  
18  
19  
20  
21  
22  
23  
24  
26  
28  
29  
30

dry  
environment

humid  
environment

fan

panel  
\*information  
on page 31



## 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]  
 $\mu$  = 1 (for other than nominal flow values, identify  $\mu$  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.

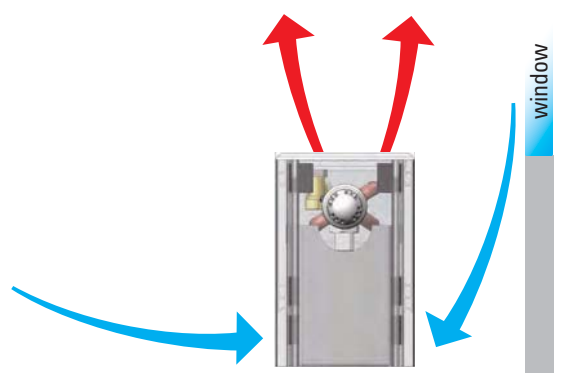
## OPTIONAL ACCESSORIES:

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

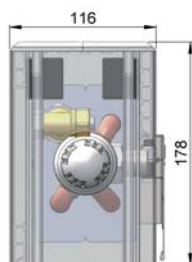
## EXAMPLE OF AIR FLOW IN THE ROOM



# CROSS-SECTIONS OF CONVECTORS

WALL MOUNTED AND FREE  
STANDING CONVECTORS

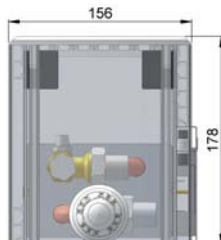
COIL – NU1



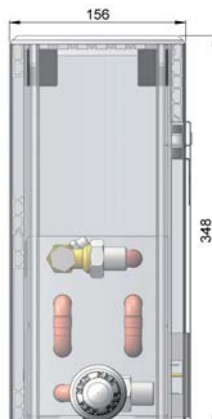
COIL – NU2



COIL – NP1/4



COIL – NP2/4



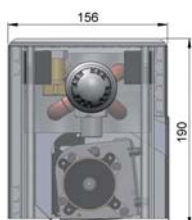
COIL – NW170



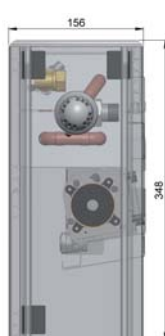
COIL – NW340



COIL – NK1



COIL – NK2



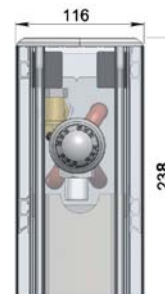
COIL – NK PTG



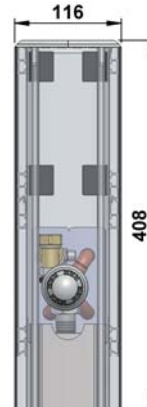
COIL – KZ



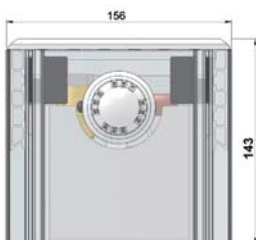
COIL – SU1



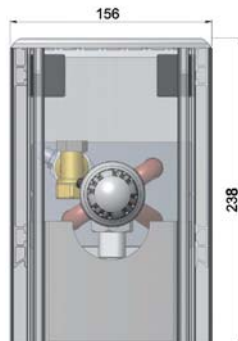
COIL – SU2



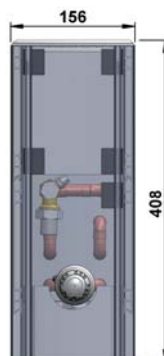
COIL – SP0



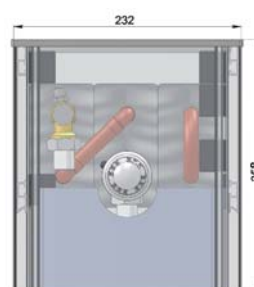
COIL – SP1/4



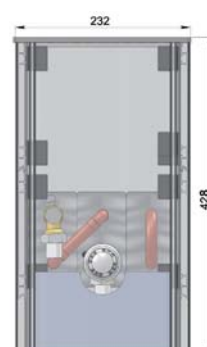
COIL – SP2/4



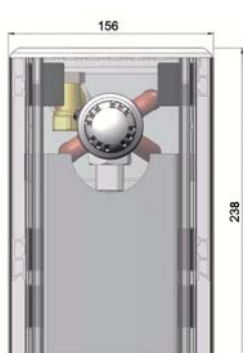
COIL – SW250



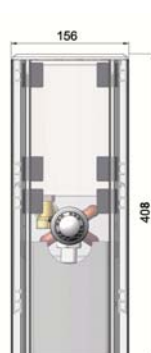
COIL – SW420



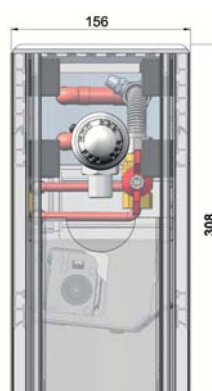
COIL – SK1



COIL – SK2



COIL – SK-PTG



COIL – LP



COIL – DP





## 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

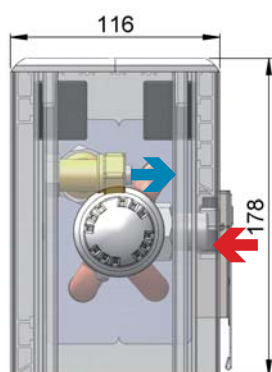
ANODIZED	silver
	light bronze
	dark bronze
PAINTED	RAL 9016 semi-gloss
	(white)

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

## HEAT OUTPUT Q [W]

		air temperature $t_a$		
		15	20	22
		length L (mm)		
		900		
mean water temperature $t_w$	80	675	605	577
	70	537	471	446
	60	408	347	324
	45	234	183	163
	15			22
	length L (mm)			1000
	80	769	689	658
	70	612	537	508
	60	465	396	369
	45	267	208	186
	15			22
	length L (mm)			1250
	80	1 005	901	860
	70	800	702	664
	60	608	517	482
	45	349	272	243
	15			22
	length L (mm)			1500
	80	1 241	1 112	1 062
	70	987	867	820
	60	751	639	596
	45	431	336	300
	15			22
	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
	15			22
	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

cross section







# COIL-NU2

THERMAL EXPONENT  $n = 1,3667$

## HEAT OUTPUT Q [W]

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

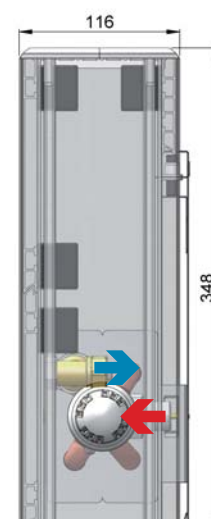
## COLOR DESIGN

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.

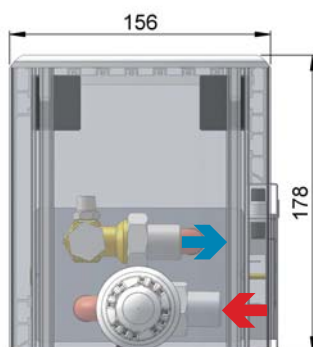
## CHARACTERISTICS

- 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

<b>ANODIZED</b>	silver
	light bronze
	dark bronze
<b>PAINTED</b>	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	869	780	745
	70	693	609	576
	60	528	450	419
	45	304	237	212
		15	20	22
		length L (mm)		1000
	80	992	890	849
	70	790	694	657
	60	602	513	478
	45	347	271	242
		15	20	22
		length L (mm)		1250
	80	1 298	1 164	1 112
	70	1 034	909	860
	60	788	671	626
	45	454	354	317
		15	20	22
		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
		15	20	22
		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
		15	20	22
		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	70	60
	45	15	20
mean water temperature $t_w$	1 324	1 182	1 127
	1 045	913	862
	787	666	619
	443	342	304
	15	20	22
	length L (mm)		1000
	80	70	60
	45	15	20
	1 509	1 347	1 284
	1 191	1 041	983
	897	759	706
	505	390	347
	15	20	22
	length L (mm)		1250
	80	70	60
	45	15	20
	1 972	1 761	1 678
	1 557	1 360	1 284
	1 172	992	922
	660	510	453
	15	20	22
	length L (mm)		1500
	80	70	60
	45	15	20
	2 435	2 174	2 072
	1 922	1 680	1 585
	1 447	1 225	1 139
	815	630	560
	15	20	22
	length L (mm)		1750
	80	70	60
	45	15	20
	2 898	2 587	2 466
	2 288	1 999	1 887
	1 722	1 458	1 356
	970	749	666
	15	20	22
	length L (mm)		2000
	80	70	60
	45	15	20
	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"

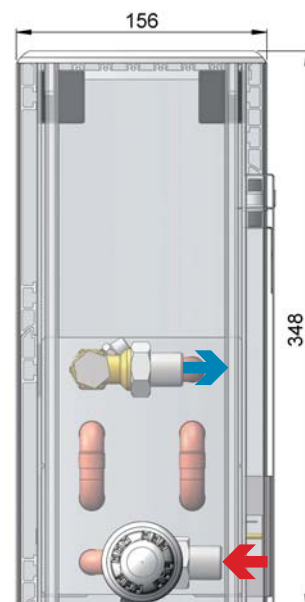
## COLOR DESIGN

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

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



cross section

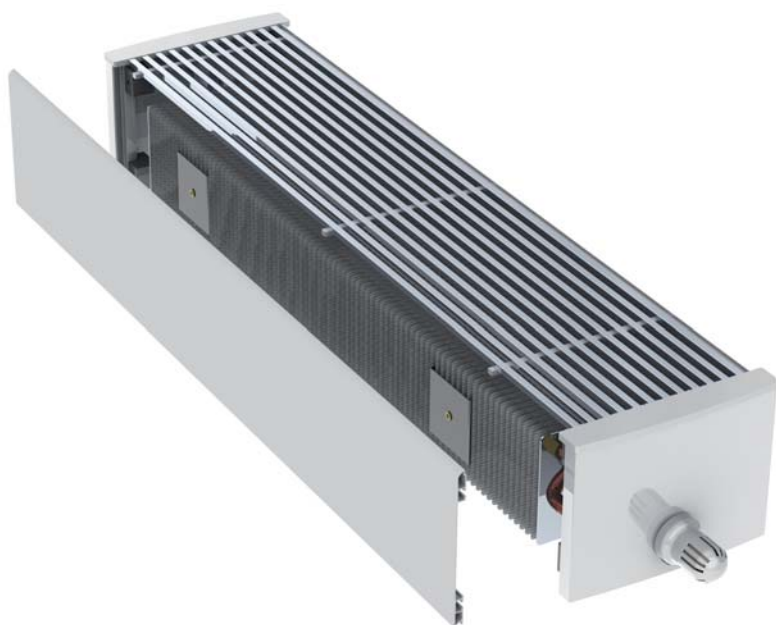






# COIL-NW170

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

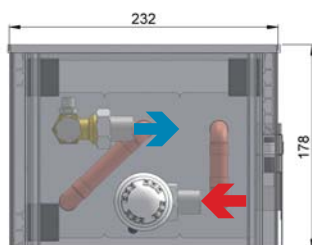
<b>ANODIZED</b>	silver
	light bronze
	dark bronze
<b>PAINTED</b>	RAL 9016 semi-gloss (white)

**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
		15	20	22
		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
		15	20	22
		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
		15	20	22
		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
		15	20	22
		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
		15	20	22
		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)		900	
mean water temperature $t_w$	80	1 854	1 662	1 587	
		70	1 476	1 296	1 226
		60	1 122	956	891
		45	645	503	449
	80	15	20	22	
		length L (mm)		1000	
		80	2 113	1 894	1 809
		70	1 682	1 477	1 397
	80	60 <td>1 279</td> <td>1 089</td> <td>1 016</td>	1 279	1 089	1 016
		45	735	573	512
		80	15	20	22
			length L (mm)		1250
	80		2 761	2 476	2 364
	70		2 198	1 930	1 825
	80	60 <td>1 672</td> <td>1 423</td> <td>1 327</td>	1 672	1 423	1 327
		45	961	749	669
80		15	20	22	
		length L (mm)		1500	
	80	3 410	3 057	2 918	
	70	2 714	2 383	2 254	
80	60 <td>2 064</td> <td>1 757</td> <td>1 639</td>	2 064	1 757	1 639	
	45	1 187	925	826	
	80	15	20	22	
		length L (mm)		1750	
80		4 058	3 638	3 473	
70		3 230	2 836	2 682	
80	60 <td>2 456</td> <td>2 091</td> <td>1 950</td>	2 456	2 091	1 950	
	45	1 412	1 101	983	
	80	15	20	22	
		length L (mm)		2000	
80		4 706	4 219	4 028	
70		3 746	3 289	3 111	
80	60	2 849	2 426	2 262	
	45 <td>1 638</td> <td>1 277</td> <td>1 140</td>	1 638	1 277	1 140	



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

## CHARACTERISTICS

- very high natural convection output
- short response time

## DIMENSIONS

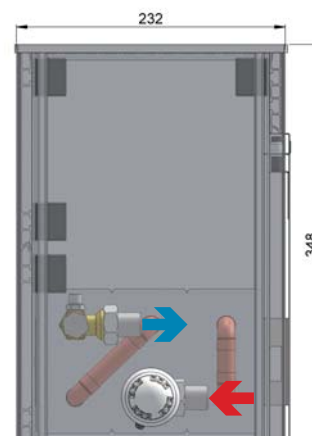
width	232 mm
design height	348 mm
length	900 to 2000 mm
connection	G½"

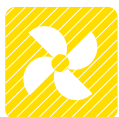
## COLOR DESIGN

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

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

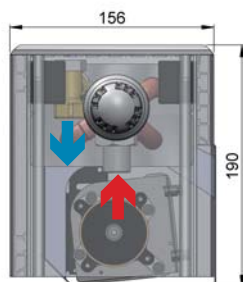
cross section





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

COIL-NK1

THERMAL EXPONENT  $\eta = 1,09525$ 

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

cross section

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)

		1st degree minimum speed			2nd degree medium speed			3rd degree maximum speed				
mean water temperature $t_w$	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
	15		20	22	15		20	22	15		20	22
	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	
15		20	22	15		20	22	15		20	22	
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	
15		20	22	15		20	22	15		20	22	
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	
15		20	22	15		20	22	15		20	22	
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	
15		20	22	15		20	22	15		20	22	
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	

HEAT OUTPUT Q [W]

## 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  $n = 1,17097$

### 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

1st degree minimum speed					2nd degree medium speed					3rd degree maximum speed				
air temperature t <sub>A</sub>					air temperature t <sub>A</sub>					air temperature t <sub>A</sub>				
152022					152022					152022				
length L (mm)900					length L (mm)900					length L (mm)900				
mean water temperature t <sub>w</sub>	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		
	152022				152022				152022					
	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		
	152022				152022				152022					
	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		
152022				152022				152022						
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			
152022				152022				152022						
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			
152022				152022				152022						
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	1 711			



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)



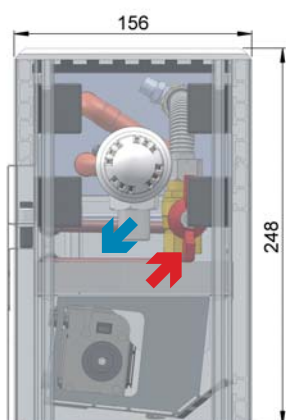
Regulation with thermostatic head.



# COIL-NK PTG



cross section



## COLOR DESIGN

### ANODIZED

silver

light bronze

dark bronze

### PAINTED

RAL 9016 semi-gloss  
(white)

**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.

## 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"

## HEAT OUTPUT Q [W]

	air temperature $t_a$		
	15	20	22
length L (mm) <b>1000</b>			
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) <b>1250</b>			
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) <b>1500</b>			
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) <b>1750</b>			
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) <b>2000</b>			
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

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



# COIL-KZ



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



## KZ 60 ELECTRIC POWER INPUT FOR FANS



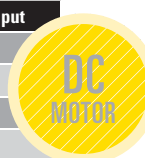
length	power input
900	4 VA
1000	4 VA
1250	8 VA
1500	8 VA
1750	8 VA
2000	12 VA

## HEAT OUTPUT Q [W] KZ 60

mean water temperature t <sub>w</sub>											
1st degree minimum speed					2nd degree medium speed				3rd degree maximum speed		
air temperature t <sub>a</sub>					air temperature t <sub>a</sub>				air temperature t <sub>a</sub>		
152022					152022				152022		
length L (mm)900					length L (mm)900				length L (mm)900		
80	584	536	517	80	690	634	612	80	897	824	795
	489	442	423	70	578	522	500	70	751	678	649
	395	348	330	60	467	412	390	60	606	535	506
	256	211	193	45	303	249	228	45	394	324	297
152022					152022				152022		
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
	570	515	493	70	674	609	583	70	876	791	758
	460	406	384	60	544	480	455	60	707	624	591
	299	246	225	45	353	291	266	45	459	378	346
152022					152022				152022		
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
	774	699	669	70	915	827	791	70	1 189	1 074	1 028
	625	551	522	60	739	652	617	60	960	847	802
	406	334	306	45	480	395	361	45	623	513	470
152022					152022				152022		
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
	977	883	845	70	1 156	1 044	1 000	70	1 502	1 357	1 299
	789	696	659	60	933	823	779	60	1 213	1 070	1 013
	512	422	386	45	606	499	457	45	787	648	593
152022					152022				152022		
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
	1 181	1 067	1 022	70	1 397	1 262	1 208	70	1 814	1 639	1 569
	954	841	796	60	1 128	995	942	60	1 465	1 292	1 224
	619	510	466	45	732	603	552	45	951	783	717
152022					152022				152022		
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
	1 385	1 251	1 198	70	1 637	1 479	1 416	70	2 127	1 922	1 840
	1 118	986	934	60	1 322	1 166	1 104	60	1 718	1 515	1 435
	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.**

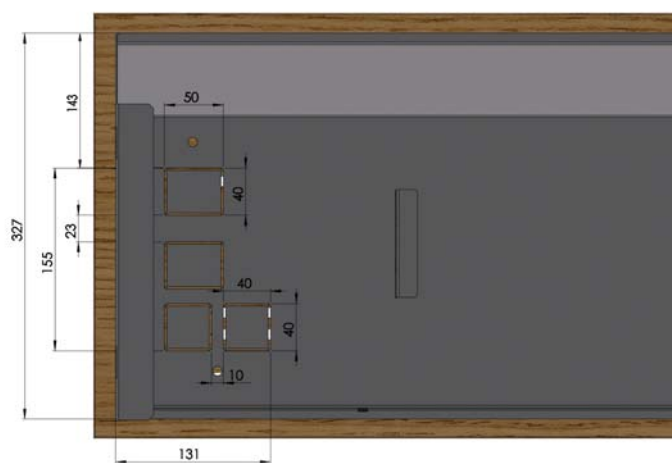
For use in spaces with low build-in depth. Suitable for interiors with increased esthetic demands. Provides increased user comfort.

## 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

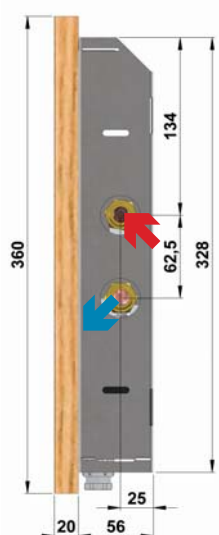
wood -  
oak without  
surface  
treatment



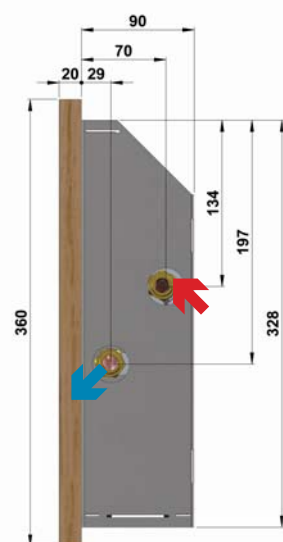
stainless  
mesh



cross section COIL-KZ 60



cross section COIL-KZ 91



## HEAT OUTPUT Q [W] KZ 91

1st degree - mini- mum speed					2nd degree medium speed				3rd degree maximum speed						
mean water temperature $t_w$	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	1 441	1 320		1 272	80	1 550		1 420	1 368	80	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
	15 20 22				15 20 22				15 20 22						
	length L (mm)		1000		length L (mm)		1000		length L (mm)		1000				
	80	1 681	1 541		1 485	80	1 808		1 657	1 596	80	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			
15 20 22			15 20 22			15 20 22									
length L (mm)		1250	length L (mm)		1250	length L (mm)		1250							
80	2 282	2 091	2 015	80	2 454	2 248	2 166	80	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			
15 20 22			15 20 22			15 20 22									
length L (mm)		1500	length L (mm)		1500	length L (mm)		1500							
80	2 882	2 641	2 545	80	3 099	2 840	2 737	80	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			
15 20 22			15 20 22			15 20 22									
length L (mm)		1750	length L (mm)		1750	length L (mm)		1750							
80	3 483	3 191	3 075	80	3 745	3 431	3 307	80	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			
15 20 22			15 20 22			15 20 22									
length L (mm)		2000	length L (mm)		2000	length L (mm)		2000							
80	4 083	3 741	3 605	80	4 391	4 023	3 877	80	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

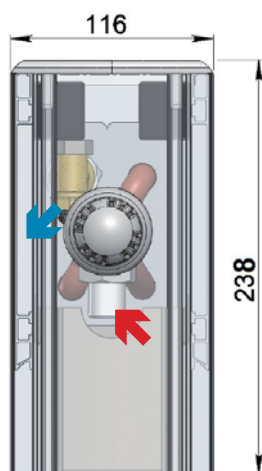
width	116 mm
design height	238 mm
length	900 to 2000 mm
connection	G½"

## 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		
mean water temperature $t_w$	80	671	601
	70	533	467
	60	404	344
	45	231	180
	15	20	22
	length L (mm)		
	1000		
	80	764	685
	70	607	533
	60	461	392
	45	264	205
	15	20	22
	length L (mm)		
	1250		
	80	999	895
	70	794	696
	60	602	512
	45	345	268
	15	20	22
	length L (mm)		
	1500		
	80	1 233	1 105
	70	980	859
	60	743	632
	45	425	331
	15	20	22
	length L (mm)		
	1750		
	80	1 468	1 315
	70	1 166	1 023
	60	885	752
	45	506	394
	15	20	22
	length L (mm)		
	2000		
	80	1 702	1 525
	70	1 353	1 186
	60	1 026	873
	45	587	457



# COIL-SU2

THERMAL EXPONENT  $n = 1,3764$

## HEAT OUTPUT Q [W]

		air temperature $t_A$		
		15	20	22
mean water temperature $t_w$	80	length L (mm)		
		900		
		858	768	733
		681	598	565
		517	440	410
	70	296	230	205
		15 20 22		
		length L (mm)		
		1000		
		977	876	836
		777	681	644
		589	501	467
		337	262	234
	60	15 20 22		
		length L (mm)		
		1250		
		1 277	1 144	1 092
	45	1 015	890	842
		770	655	610
		441	343	306
		15 20 22		
		length L (mm)		
		1500		
		1 577	1 413	1 348
		1 253	1 099	1 039
		951	808	753
		544	423	377
		15 20 22		
		length L (mm)		
		1750		
		1 877	1 681	1 605
		1 491	1 308	1 237
		1 131	962	897
		648	504	449
		15 20 22		
		length L (mm)		
		2000		
		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"

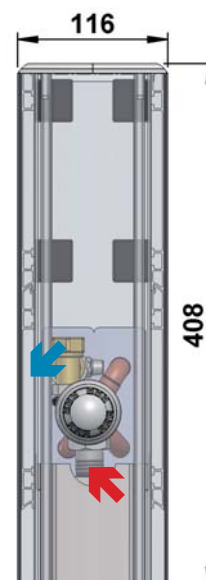
## COLOR DESIGN

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

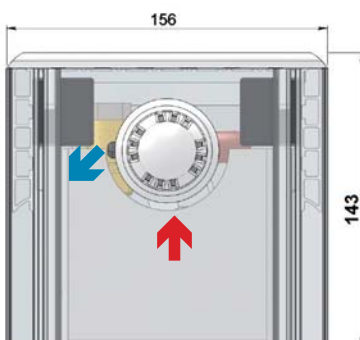
ANODIZED	silver
	light bronze
	dark bronze
PAINTED	RAL 9016 semi-gloss (white)

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

## HEAT OUTPUT Q [W]

	air temperature $t_a$		
	15	20	22
	length L (mm)		
	900		
	80	70	60
mean water temperature $t_w$	45	173	138
	15	20	22
	length L (mm)		
	1000		
	80	520	470
	70	422	374
	60	328	283
	45	198	157
	15	20	22
	length L (mm)		
	1250		
	80	679	614
	70	551	489
	60	429	370
	45	258	206
	15	20	22
	length L (mm)		
	1500		
	80	838	759
	70	680	604
	60	529	457
	45	319	254
	15	20	22
	length L (mm)		
	1750		
	80	998	903
	70	810	719
	60	630	544
	45	380	302
	15	20	22
	length L (mm)		
	2000		
	80	1 157	1 047
	70	939	834
	60	731	631
	45	440	351

cross section





# COIL-SP1/4

THERMAL EXPONENT  $n = 1,3816$

## HEAT OUTPUT Q [W]

		air temperature $t_a$			
		15	20	22	
		length L (mm)	900		
mean water temperature $t_w$	80	839	751	717	
		70	666	584	552
		60	505	429	400
		45	288	224	200
	80	15	20	22	
		length L (mm)	1000		
		80	957	857	818
		70	760	666	630
	60	576	489	456	
		45	329	256	228
		80	15	20	22
			length L (mm)	1250	
	80		1 253	1 122	1 070
	70		995	872	824
	60	754	641	597	
		45	430	335	298
80		15	20	22	
		length L (mm)	1500		
	80	1 548	1 386	1 323	
	70	1 229	1 077	1 018	
60	931	792	737		
	45	532	414	369	
	80	15	20	22	
		length L (mm)	1750		
80		1 844	1 651	1 575	
70		1 464	1 283	1 213	
60	1 109	943	878		
	45	633	492	439	
	80	15	20	22	
		length L (mm)	2000		
80		2 139	1 915	1 827	
70		1 698	1 489	1 407	
60	1 287	1 094	1 019		
	45	735	571	509	

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"

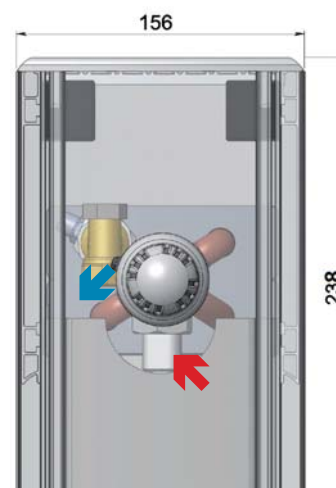
## COLOR DESIGN

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

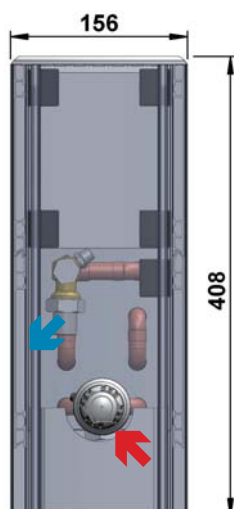
width	156 mm
design height	408 mm
length	900 to 2000 mm
connection	G½"

## COLOR DESIGN

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

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

cross section



## HEAT OUTPUT Q [W]

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

mean water temperature  $t_w$



# COIL-SW250

THERMAL EXPONENT  $n = 1,4173$

## HEAT OUTPUT Q [W]

mean water temperature $t_w$	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
	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

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"

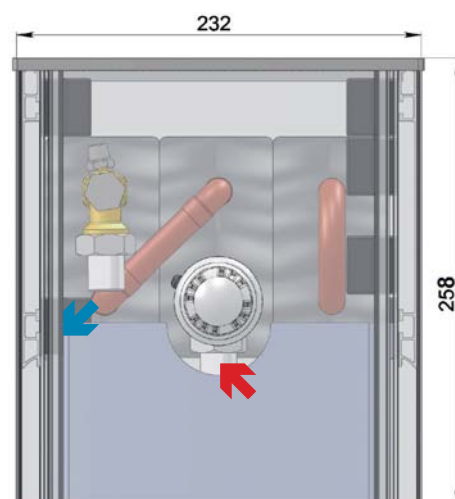
## COLOR DESIGN

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

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



cross section



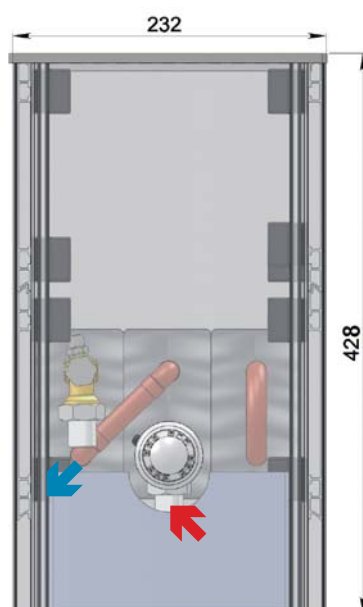


## COIL-SW420

THERMAL EXPONENT  $\eta = 1,3752$ 

**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

<b>ANODIZED</b>	silver
	light bronze
	dark bronze
<b>PAINTED</b>	RAL 9016 semi-gloss (white)

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

## HEAT OUTPUT Q [W]

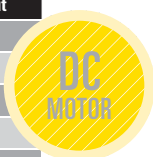
	air temperature $t_a$		
	15	20	22
	length L (mm)		
mean water temperature $t_w$	900		
	80	1 857	1 663
	70	1 476	1 295
	60	1 120	952
	45	641	499
	1000		
	80	2 117	1 896
	70	1 682	1 476
	60	1 277	1 086
	45	731	569
	1250		
	80	2 766	2 478
	70	2 198	1 928
	60	1 668	1 419
	45	955	743
	1500		
	80	3 415	3 059
	70	2 714	2 381
	60	2 060	1 752
	45	1 179	918
	1750		
	80	4 065	3 641
	70	3 230	2 833
	60	2 451	2 085
	45	1 404	1 092
	2000		
	80	4 714	4 222
	70	3 746	3 286
	60	2 843	2 418
	45	1 628	1 267



# 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

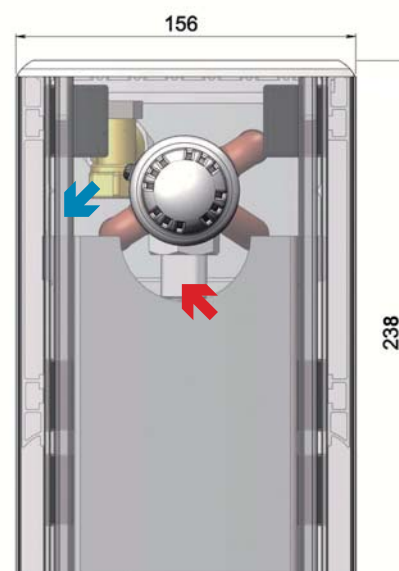
width	156 mm
design height	238 mm
length	900 to 2000 mm
connection	G½"

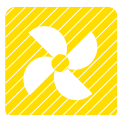
## COLOR DESIGN

<b>ANODIZED</b>	silver
	light bronze
	dark bronze
<b>PAINTED</b>	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  $n = 1,09525$

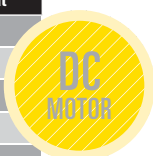
## HEAT OUTPUT Q [W]

		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)					length L (mm)					length L (mm)						
		900					900					900						
mean water temperature $t_w$	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	1 155						
	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						
	15			20	22	15			20	22	15			20	22			
	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						
	15			20	22	15			20	22	15			20	22			
	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						
	15			20	22	15			20	22	15			20	22			
	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						
	15			20	22	15			20	22	15			20	22			
	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						
	15			20	22	15			20	22	15			20	22			
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

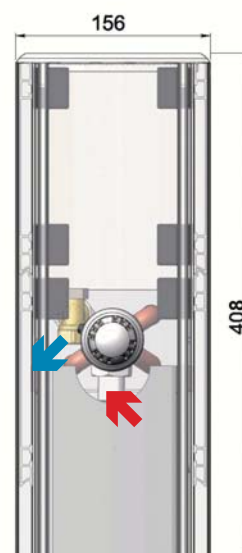
width	156 mm
design height	408 mm
length	900 to 2000 mm
connection	G½"

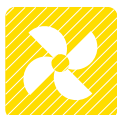
## COLOR DESIGN

<b>ANODIZED</b>	silver
	light bronze
	dark bronze
<b>PAINTED</b>	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  $n = 1,17097$

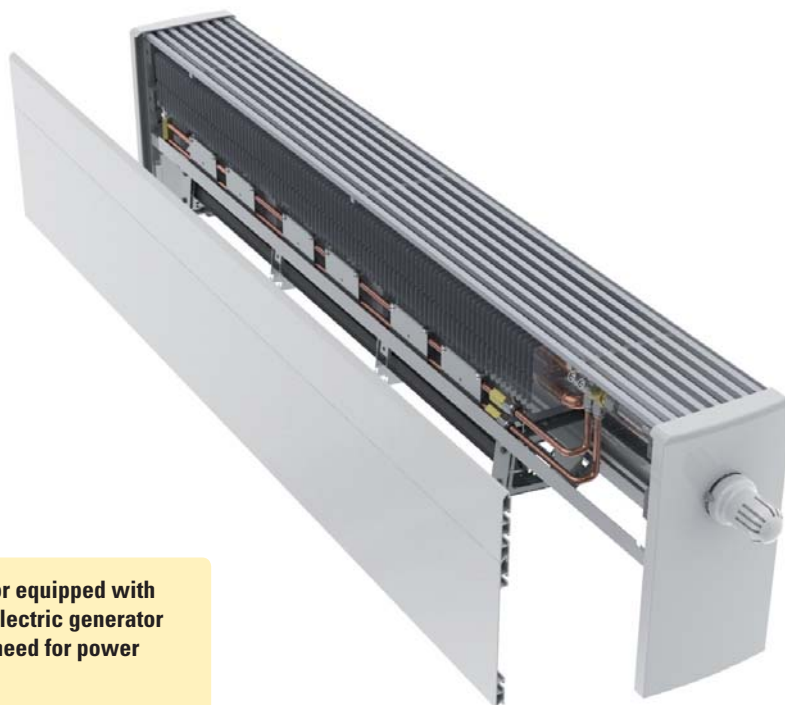
## HEAT OUTPUT Q [W]

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

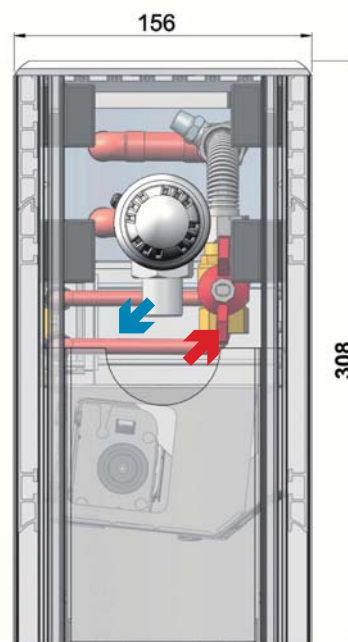
width	156 mm
design height	308 mm
length	1000 to 2000 mm
connection	G½"

## 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

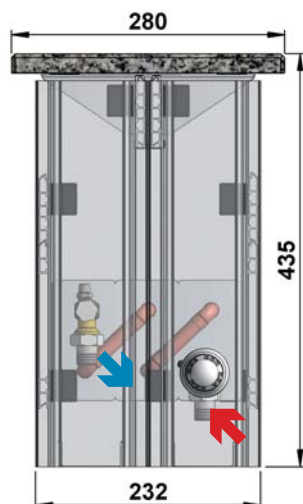
## DIMENSIONS

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



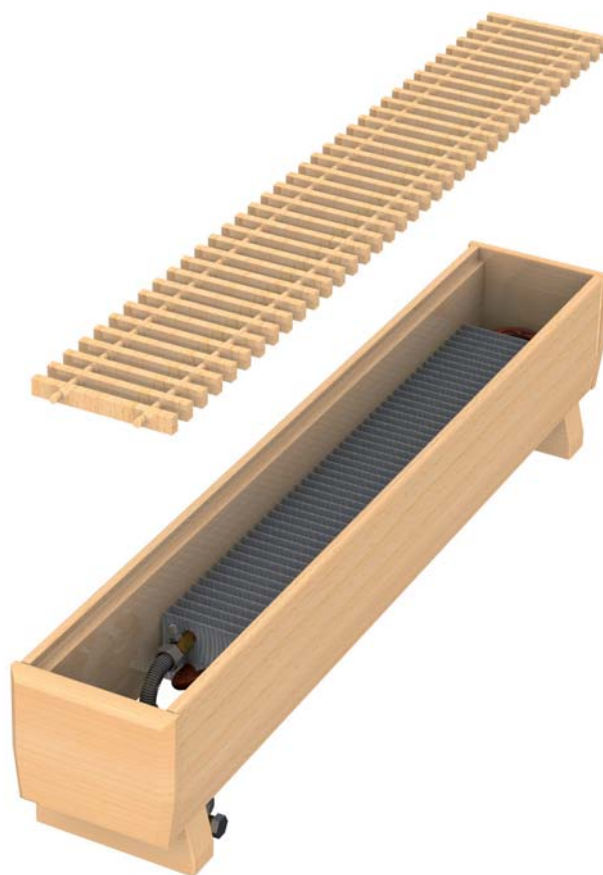
## HEAT OUTPUT Q [W]

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

### All-wood free standing convector without fan.

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

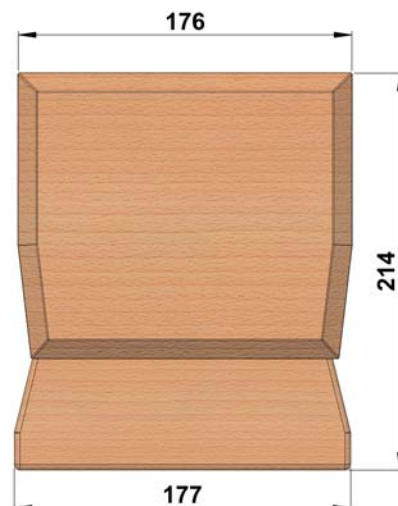
## CHARACTERISTICS

- high natural convection output
- short response time

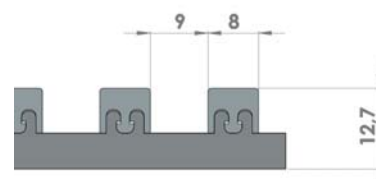
## DIMENSIONS

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

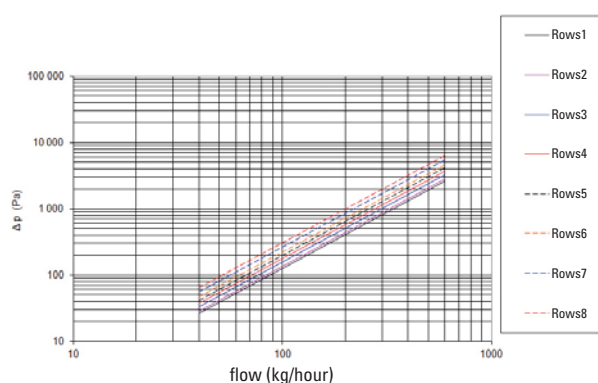
Info: air throughput values in the table apply to 1000 mm convectors. For other lengths, multiply the unit throughputs by the relevant convector length in meters (for example, COIL NK1 with a length of 2000 mm has air throughput for medium speed  $220 \times 2 = 440 \text{ m}^3/\text{h}$ ).

## WATER VOLUME OF MINIB CONVECTORS, dm³

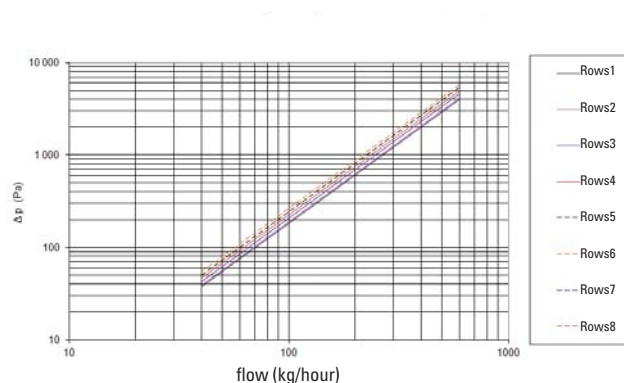
Average water volume of MINIB convectors (two-pipe exchangers):								
convector length, m	0,9	1,0	1,25	1,5	1,75	2,0	2,5	3,0
water volume of exchanger, dm³ (for pipe diameter 15mm)	0,2	0,25	0,3	0,4	0,5	0,6	0,7	0,9
water volume of exchanger, dm³ (for pipe diameter 12mm)	0,13	0,15	0,2	0,25	0,3	0,35	0,4	0,5

# Pressure losses

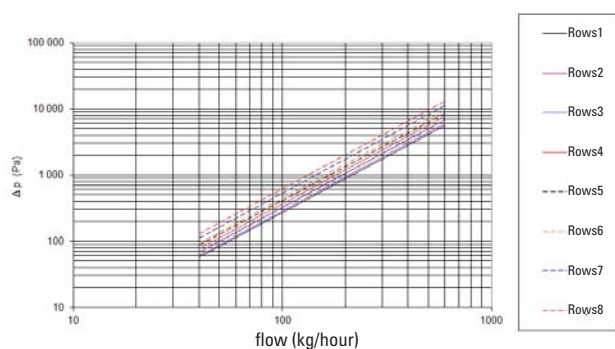
Pressure losses of 2 tube exchanger MINIB KZ 60,  
Cu pipe Ø 15 mm



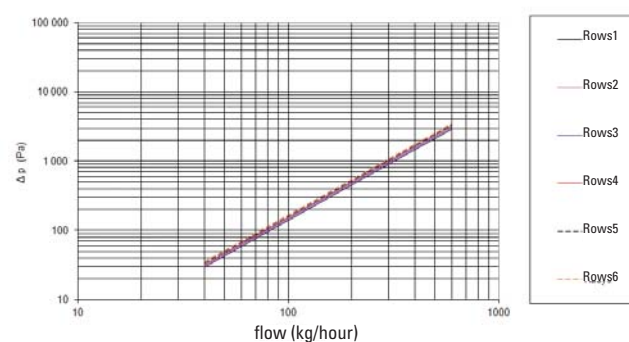
Pressure losses of 2 tube exchanger MINIB SP0,  
Cu pipe Ø 15 mm



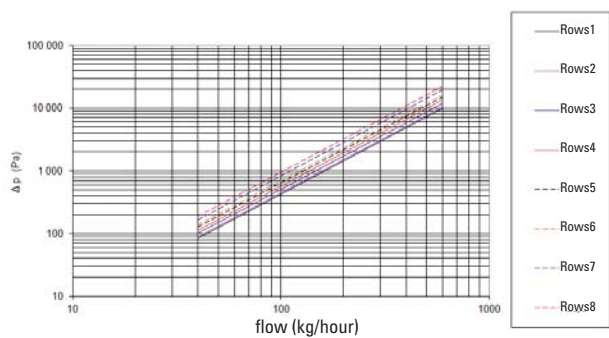
**Pressure losses of 4 tube exchanger MINIB KZ90, NK1, NK2, SK1, SK2, NU1, NU2, SU1, SU2, DP  
Cu pipe Ø 15 mm**



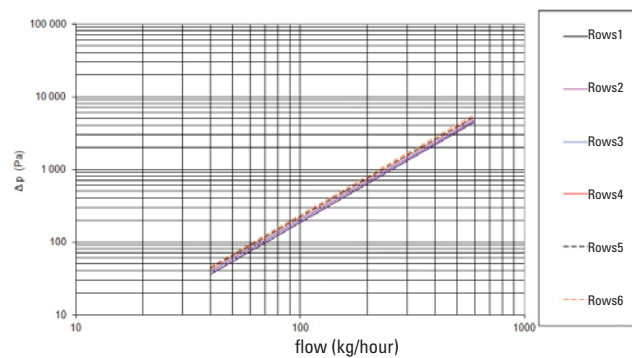
**Pressure losses of 4 tube exchanger MINIB NP1/SP1  
4 Cu pipes Ø 15 mm**



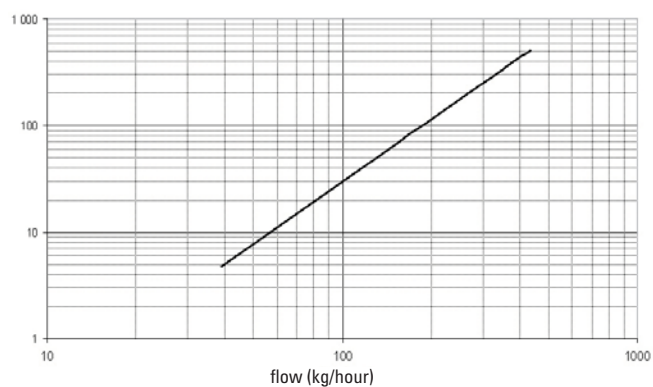
**Pressure losses of 6 tube exchanger MINIB NW170, NW340, SW250, SW420, LP Cu pipe Ø 15 mm**



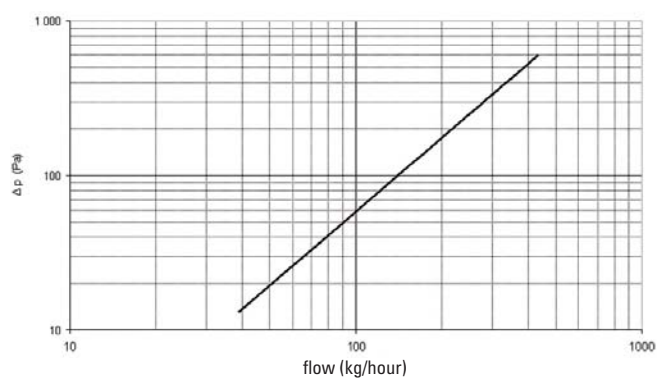
**Pressure losses of 8 tube exchanger MINIB NP2/SP2  
8 Cu pipes Ø 15 mm**



**Pressure losses of direct ball valve 1/2"**



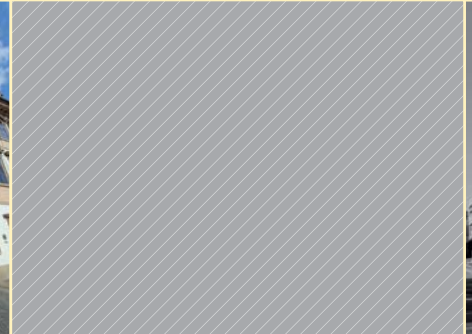
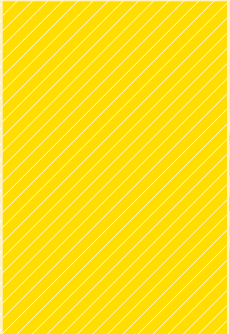
**Pressure losses in flexible stainless hose AZ 1/2"  
L = 65mm**



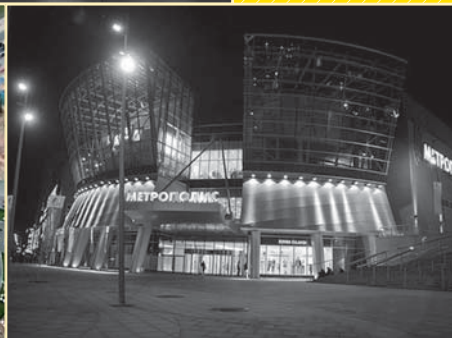
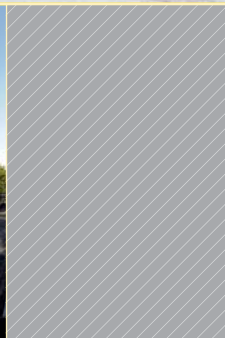
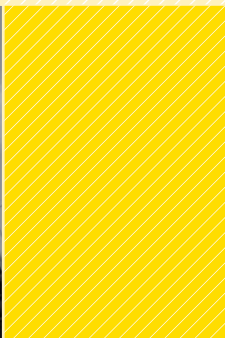


# REFERENCES

Convectors are suitable for all building types.

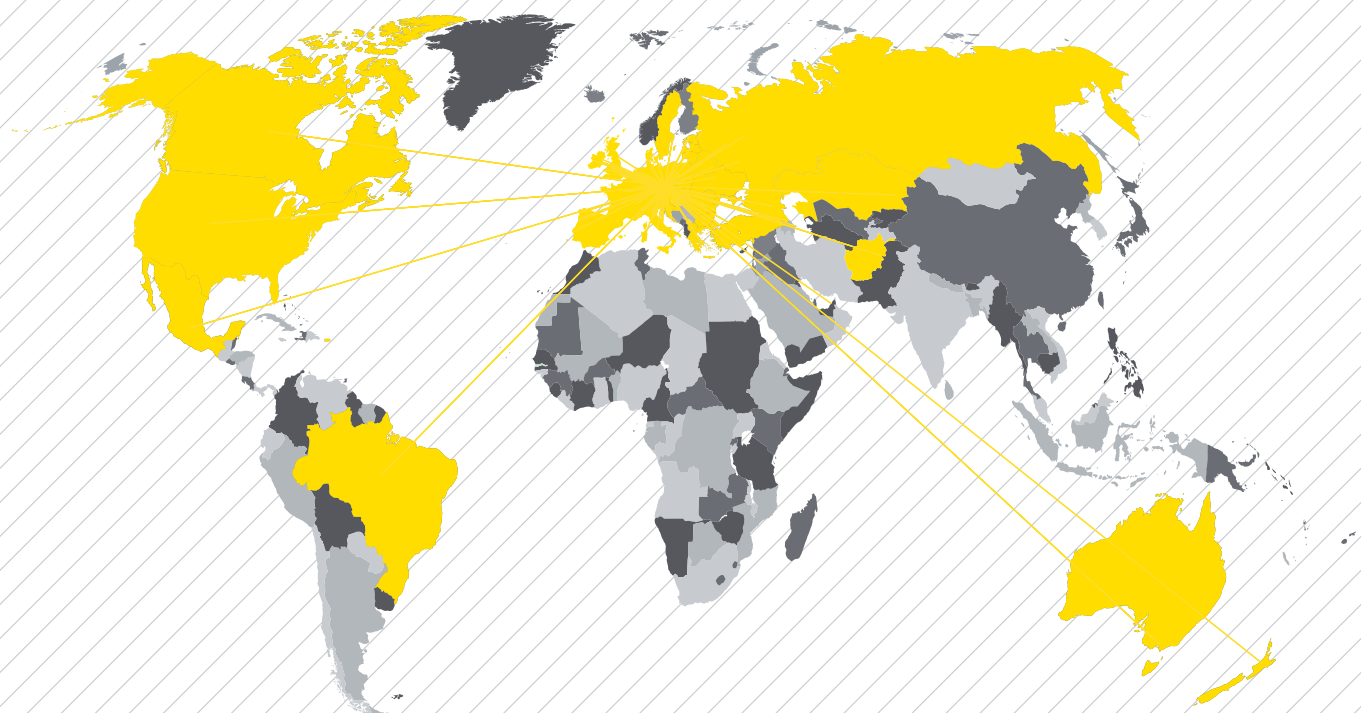








... more than just heat



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