

MINIB[®]



FLOOR CONVECTORS

●●● more than just heat

ABOUT US



ABOUT THE COMPANY

MINIB is one of the foremost manufacturers of convectors within the Czech Republic. All MINIB products are manufactured in the Czech Republic from where they are exported to over thirty European countries, Asia, Australia and America.

Operating since 1999, the company has systematically invested in the development of its products and production techniques and continues to do so. This investment is aimed at providing customers with the ultimate in technical and aesthetic heating and cooling equipment.

MINIB operates from a strong financial base and has enjoyed strong long term growth. This strength enables MINIB to invest heavily in its people and its research and development activities to ensure its future stability and success.

ABOUT PRODUCTION

The production premises are located at Bykev near Melnik and benefit from excellent transport access. The factory is equipped with the most modern technology; CNC machinery ensures that the most stringent requirements can readily and repeatedly be achieved.

Bespoke solutions can be designed and manufactured to satisfy specific customer requirements.

The highest quality material are used in the production of convectors ensuring longevity of the finished products. Consequently, MINIB provides a ten year warranty on both the heat exchangers and stainless steel trenches of its convector units.

MINIB is ISO 9001 quality certified and holds a number of patents for its designs.

Convector outputs are independently tested in the certified test chamber of HEATEST sro in line with European standard EN 442-2. This allows MINIB to guarantee the outputs of its full range of units.

ABOUT THE PRODUCTS

The MINIB catalogue comprises over 70 convector models and ensures that there is a unit suitable for any interior.

MINIB convectors are effective, modern, energy efficient and aesthetically styled units suitable for use in both dry and wet interiors. The low water volume of the convectors ensures rapid heating and cooling of spaces and corresponding energy savings. Convectors also benefit from having extremely small requirements in terms of space compared to competing equipment. The inclusion of MINIB convectors within the space does not detract from the aesthetics of the room and can be considered to add to it. All fan-assisted MINIB units operate against 12V taken from the transformer and are inherently safe.

The product series encompasses the most varied kinds of convectors:



- › **FLOOR** convectors or trench units without fan which operate on the principle of natural convection and fan-assisted convectors for enhanced output.
- › **SELF-SUPPORTING AND WALL** convectors are available with and without fans. We also supply heating benches with granite or wooden covers for wet environments (swimming pools, bathrooms etc).
- › **DESIGNER** convectors are a unique patented series that employ the principles of both radiation and convection to heat the space. These convectors have an aluminium composite front cover. The front panel can be supplied with a granite face plate or smooth, variously coloured glass.

MINIB has the facility to supply bespoke solutions according to customer requirements and can supply arc shaped or angled units to suit. MINIB always aims to provide a high standard of user comfort and ensures that all its convectors are simple to install and maintain.

A wide range of accessories are available for the individual types of condensers. MINIB has received many national and international awards for its products.

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dry environment



wet environment



fan









cooling



type of grille
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TEMPERATURE EQUATION

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

where:

- m = temperature exponent
- t_w, A = mean temperature of heating water, air temperature in the interior (°C)
- Q_N = nominal thermal output for temperatures t_w/t_A 70/20 °C (W)
- μ = $\mu = 1$ (for other than nominal flow values select μ from the graph)
- Q = thermal output for other temperatures

TEMPERATURE EQUATION FOR COOLING

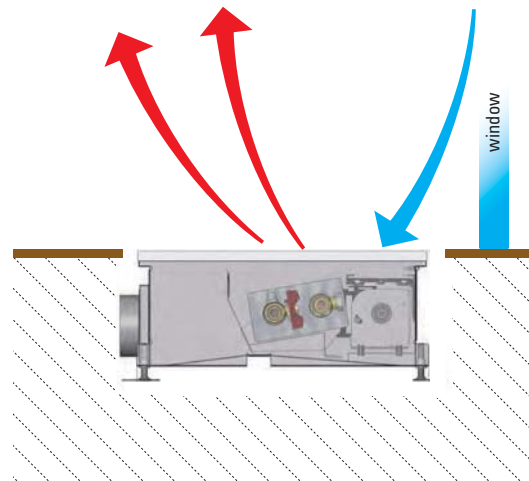
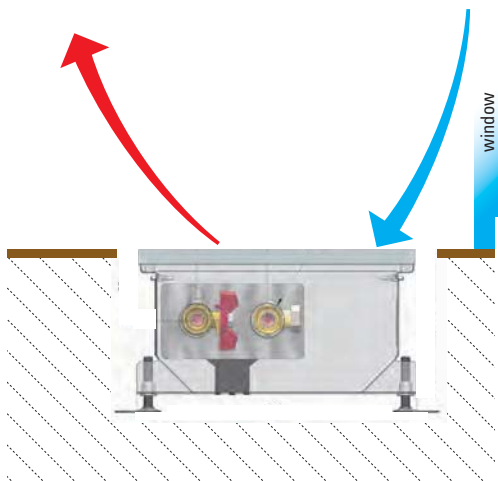
$$Q = Q_{NC} \left(\frac{t_w - t_A}{17} \right)^m$$

where:

- m = temperature exponent
- t_w, A = mean temperature of cooling water, air (°C)
- Q_{NC} = nominal thermal output for temperatures t_w/t_A 9/26 °C (W)
- Q = thermal output for other temperatures [W]

CALCULATION OF THE OUTPUT FOR AN INDIVIDUAL TEMPERATURE

The temperature equation is used to calculate the output for other than tabulated values of the heating water and air in the room. We enter the required mean temperature of the heating water and air in the room and calculate the thermal output. In addition, this can all be easily calculated on our web site for the particular convector, simply by entering the new values.

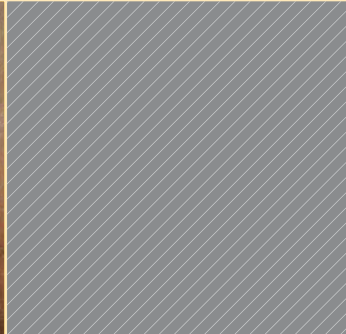
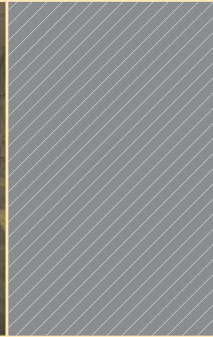


EXAMPLES OF AIR FLOW IN THE ROOM

The distance of the convector from the wall is not specified. The convector must always be located so as not to disturb free flow of air.

REFERENCES

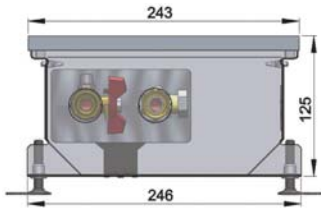
Convectors are suitable for all types of buildings.



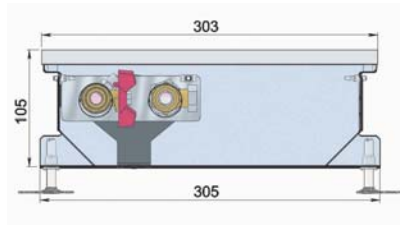


CROSS-SECTIONS OF CONVECTORS

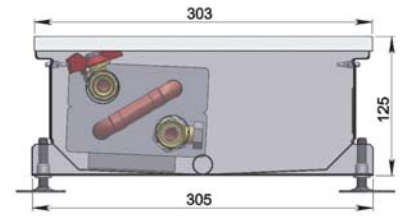
FLOOR CONVECTORS WITHOUT A FAN



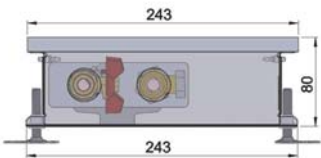
COIL - P



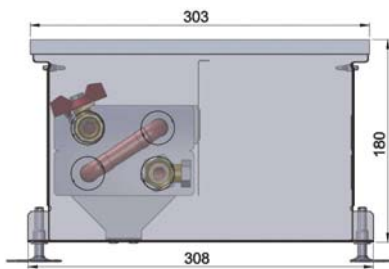
COIL - PT105



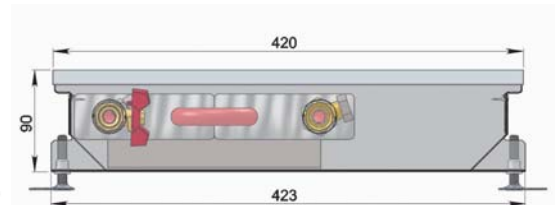
COIL - P04



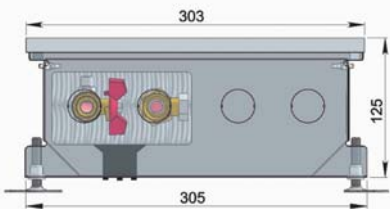
COIL - P80



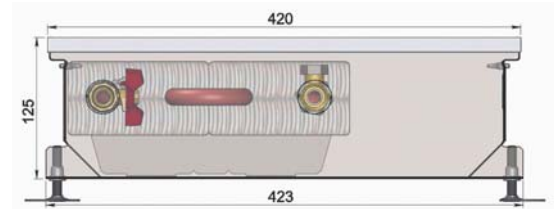
COIL - PT180



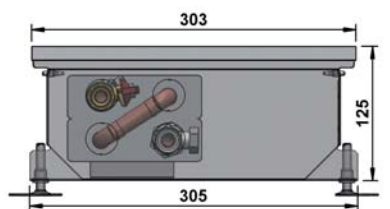
COIL - PMW90



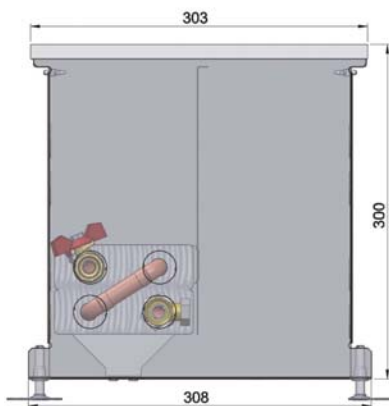
COIL - PT



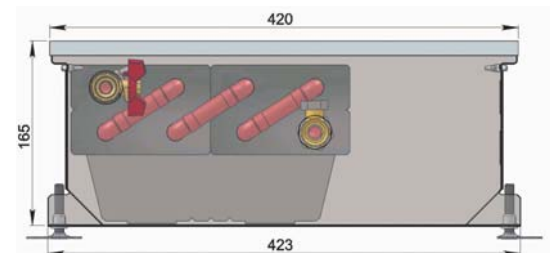
COIL - PMW125



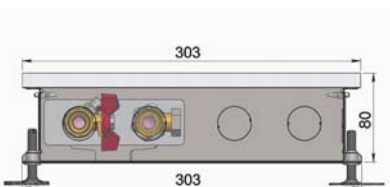
COIL - PT4



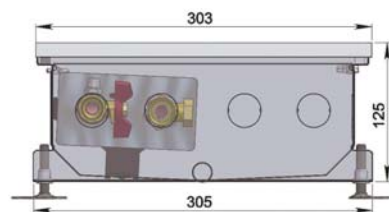
COIL - PT300



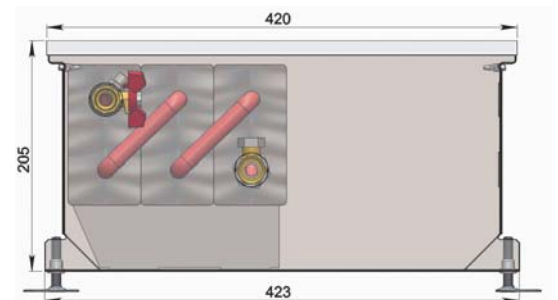
COIL - PMW165



COIL - PT80

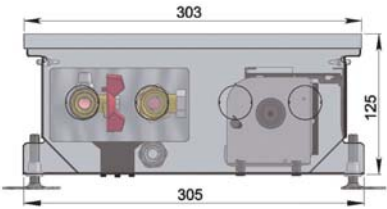


COIL - P0

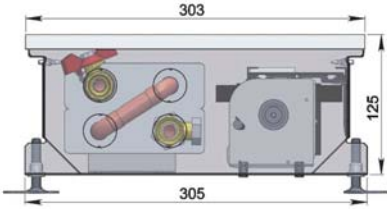


COIL - PMW205

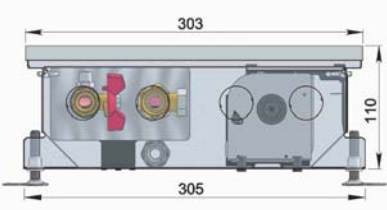
FLOOR CONVECTORS WITH A FAN



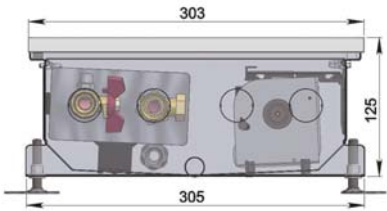
COIL - KT



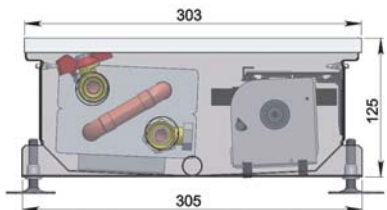
COIL - MT



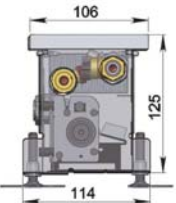
COIL - KT110



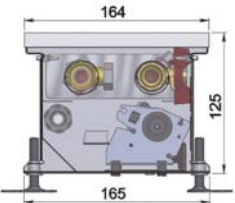
COIL - KO



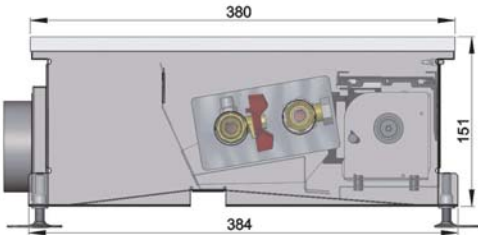
COIL - MO



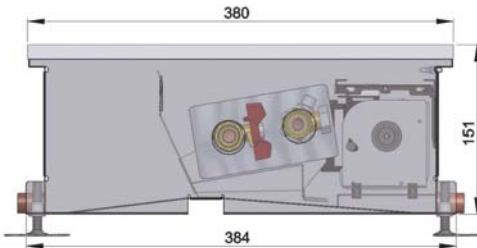
COIL - KTO



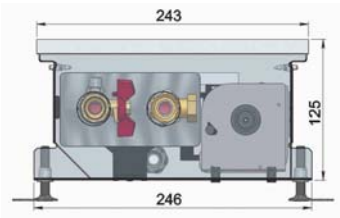
COIL - KT1



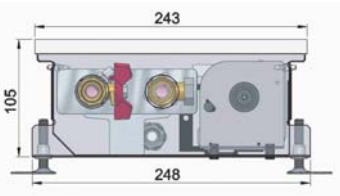
COIL - KT2



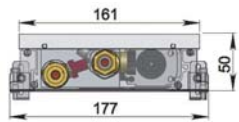
COIL - K02



COIL - KT3



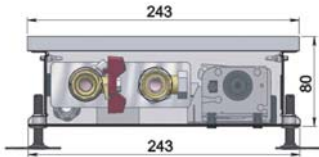
COIL - KT3 105



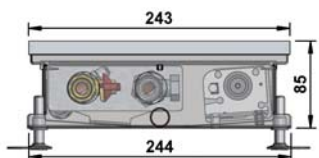
COIL - T50



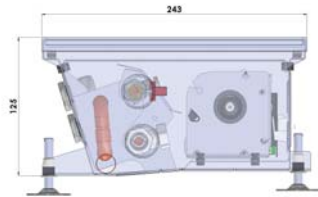
COIL - T60



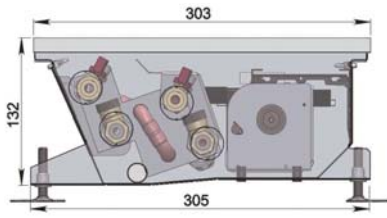
COIL - T80



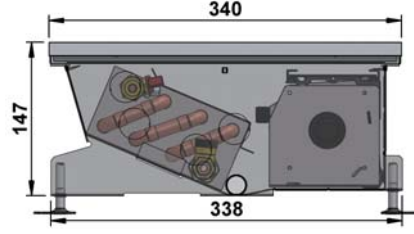
COIL - T085



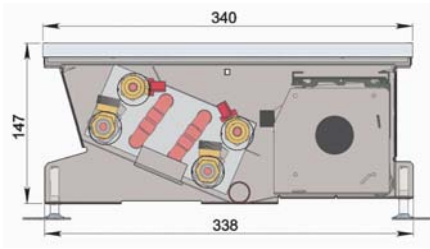
COIL - HC



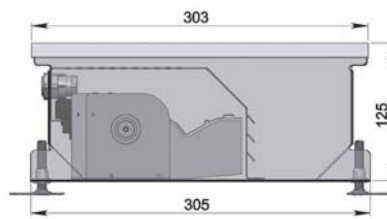
COIL - HC4pipe



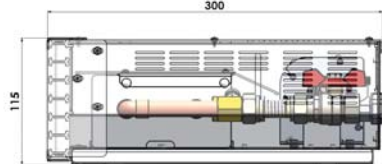
COIL - HCM



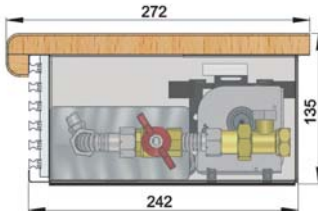
COIL - HCM4pipe



COIL - TE



COIL - SK



COIL - KP



How to properly select,
install and maintain
a floor convector?

1. SELECTION

- › Decide whether the convector(s) will be the main or supplementary heat source for the room or if they are to be used as window heat curtains.
- › Determine the heat loss from the room and how much of this needs to be offset by the convector(s).
- › Take the room usage into account so that appropriate convector(s) are selected e.g. commercial area, house/apartment, swimming pool etc.
- › Decide whether a natural convector will provide the required capacity or whether fan-assisted is required.
- › Take into consideration the length and cross-sectional area available for fitting the convector(s).
- › Determine a suitable location for the power supply (transformer) for fan-assisted units.
- › Determine a suitable location for the thermostat within the room.
- › Select suitable convector(s), taking into consideration the water supply and wiring requirements and condensate removal when appropriate.

2. BEFORE INSTALLATION

- › Provide sufficient space for installation and connection of the water pipe and electrical wiring (h+20mm and B+60mm).
- › Provide the necessary water pipework and wiring looms to match the requirements of the particular convector(s) selected.

3. INSTALLATION

- › Fit the convector in the required position.
- › Anchor the fixing support in the floor using dowels.
- › Adjust the trench to a horizontal level.
- › Connect the electrical supply.
- › Connect the water supply.
- › Install the bracing pieces and cover.
- › Ensure the convector remains level.
- › Carefully fill around the sides up to at least 1/3rd the convector height with thin gravel concrete to ensure that noise is minimised. If the bottom is not well filled the unit could resonate! We recommend that insulation is fitted on the outside of the convector on the side where the heat exchanger is located though this is not mandatory.
- › Pour the final fill of concrete around the top of the convector.

4. MAINTENANCE

- › Disconnect the electrical supply.
- › Close the water valves
- › Remove the grille.
- › Remove the fan filter if fitted.
- › Lift the heat exchanger and flexible hoses to a maximum angle of 60°.
- › Clean the trench below the heat exchanger/fan.
- › Lubricate the fan shaft at least twice a season.

5. GENERAL PRINCIPLES

- › For fan assisted convectors fitted in hollow floors anti-vibration foil should always be fitted.
- › For installation in hollow floors and floors subject to expansion consideration should be given to the use of insulating material. The installer should decide on the requirement for insulation based on the features of the floor, for hollow floors insulation is recommended on the heat exchanger side of the trench. If installing in a hollow floor reinforcements should be used and anti-vibration foil is recommended for fan-assisted units.
- › Anti-vibration foil is also recommended for units without fans installed in zones of high footfall.
- › The orientation of the convector is decided by the customer. Standard installation is with the heat exchanger towards the room side. If the convector is being used as a supplementary heat source or as a curtain to protect the window then the heat exchanger should be on the window side.
- › Grilles, fans, heat exchangers and air inlet and outlet areas should not be covered so as to ensure proper air circulation.
- › Fan shafts should be lubricated twice a season.
- › The heat exchanger should be cleaned regularly.
- › Do not allow objects to enter the trench which could damage the fan impeller.
- › Do not manually stop the rotation of the fan(s).
- › If a drain connection is fitted to the trench then this should be regularly cleaned to ensure proper drainage.



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types of grille on p. 66

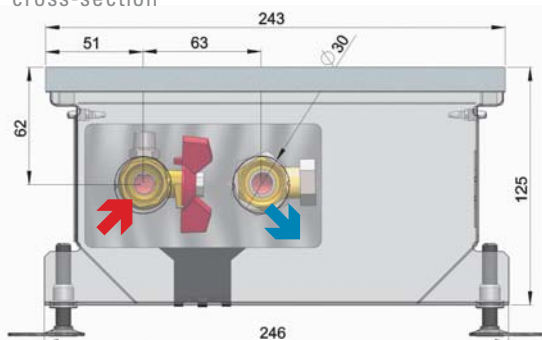
COIL-P

TEMPERATURE EXPONENT $m = 1,4200$

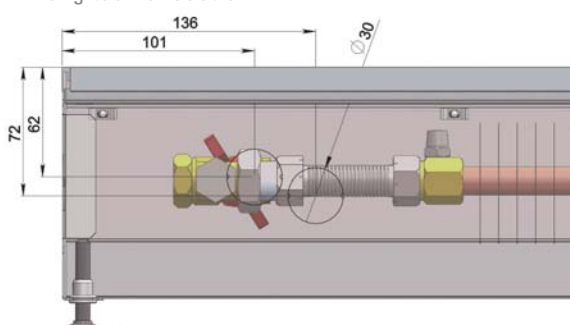
THERMAL OUTPUT Q [W]



cross-section



longitudinal section



Basic type of narrowest floor convector with natural convection

CHARACTERISTICS

- high natural convection efficiency
- short reaction time

DIMENSIONS

width	243 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"

	air temperature t_a			
	15	20	22	
mean water temperature t_w	length L (mm) 900			
	80	307	274	261
	70	242	211	200
	60	182	154	143
	45	102	79	70
	length L (mm) 1000			
	80	358	320	305
	70	282	247	233
	60	212	180	167
	45	119	92	82
	length L (mm) 1250			
	80	486	434	413
	70	383	335	316
	60	288	244	227
	45	162	125	111
	length L (mm) 1500			
80	614	548	522	
70	484	423	399	
60	364	308	286	
45	205	158	140	
length L (mm) 1750				
80	742	662	631	
70	585	511	482	
60	440	372	346	
45	247	191	170	
length L (mm) 2000				
80	870	776	740	
70	686	599	565	
60	516	436	406	
45	290	224	199	
length L (mm) 2500				
80	1 125	1 005	957	
70	888	775	732	
60	668	565	525	
45	375	290	257	
length L (mm) 3000				
80	1 381	1 233	1 175	
70	1 090	952	898	
60	819	693	645	
45	461	356	316	



COIL-P80

THERMAL OUTPUT Q [W]

TEMPERATURE EXPONENT $m = 1,4445$

	air temperature t_A		
	15	20	22
80	length L (mm) 900		
	229	204	194
	70	180	156
	60	134	113
	45	75	57
70	length L (mm) 1000		
	267	237	226
	70	209	183
	60	157	132
	45	87	67
60	length L (mm) 1250		
	362	322	307
	70	284	248
	60	213	179
	45	118	91
45	length L (mm) 1500		
	457	407	388
	70	359	313
	60	269	227
	45	150	115
30	length L (mm) 1750		
	552	492	468
	70	434	378
	60	325	274
	45	181	139
20	length L (mm) 2000		
	647	577	549
	70	509	443
	60	381	321
	45	212	163
15	length L (mm) 2500		
	838	746	711
	70	658	574
	60	493	416
	45	274	211
10	length L (mm) 3000		
	1 028	916	872
	70	808	704
	60	605	510
	45	337	259



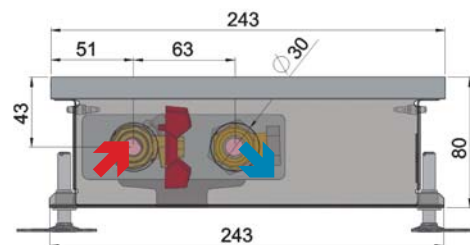
Floor convector with natural convection with the smallest width and height

CHARACTERISTICS

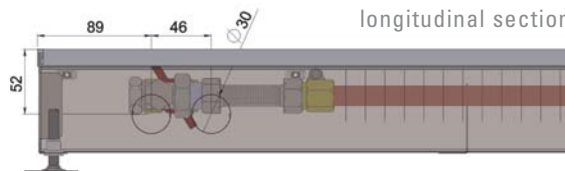
- high natural convection efficiency in relation to the dimensions
- short reaction time

DIMENSIONS

width	243 mm
structural height	80 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section

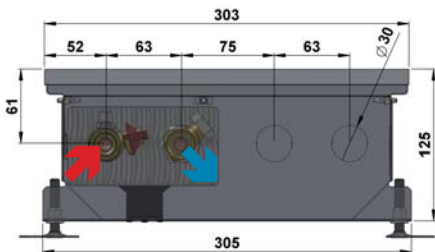


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COIL-PT

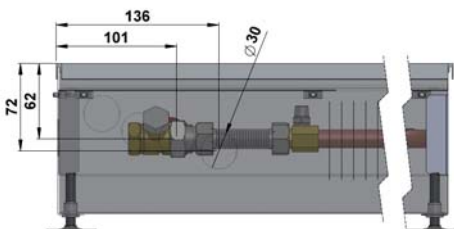
TEMPERATURE EXPONENT $m = 1,4085$

THERMAL OUTPUT Q [W]



cross-section

longitudinal section



Basic type of floor convector with natural convection with standard width in the PT series

CHARACTERISTICS

- high natural convection efficiency
- short reaction time

DIMENSIONS

width	303 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"

	air temperature t_a			
	15	20	22	
mean water temperature t_w	length L (mm) 900			
	80	373	333	317
	70	295	258	243
	60	222	188	175
	45	125	97	86
	length L (mm) 1000			
	80	435	388	370
	70	344	300	284
	60	259	219	204
	45	146	113	101
	length L (mm) 1250			
	80	590	527	503
	70	466	408	385
	60	352	298	277
	45	199	154	137
	length L (mm) 1500			
80	745	666	635	
70	589	515	486	
60	444	376	350	
45	251	194	173	
length L (mm) 1750				
80	901	805	767	
70	712	622	588	
60	537	454	423	
45	303	234	208	
length L (mm) 2000				
80	1 056	943	899	
70	834	730	689	
60	629	533	496	
45	355	275	244	
length L (mm) 2500				
80	1 366	1 221	1 164	
70	1 080	944	891	
60	814	690	642	
45	460	356	316	
length L (mm) 3000				
80	1 677	1 498	1 428	
70	1 325	1 159	1 094	
60	999	846	787	
45	564	437	388	



COIL-PT4

THERMAL OUTPUT Q [W]

TEMPERATURE EXPONENT $m = 1,4519$

	air temperature t_A		
	15	20	22
	length L (mm)		900
80	449	400	381
	353	307	289
	264	222	206
	146	112	99
	15	20	22
	length L (mm)		1000
80	524	467	444
	411	358	338
	307	259	241
	171	131	116
	15	20	22
	length L (mm)		1250
80	712	634	603
	558	486	458
	417	352	326
	232	178	157
	15	20	22
	length L (mm)		1500
80	899	800	762
	705	614	579
	527	444	412
	293	225	199
	15	20	22
	length L (mm)		1750
80	1 086	967	921
	852	742	699
	637	537	498
	353	271	240
	15	20	22
	length L (mm)		2000
80	1 273	1 134	1 079
	999	870	820
	747	629	584
	414	318	282
	15	20	22
	length L (mm)		2500
80	1 648	1 467	1 397
	1 293	1 126	1 061
	966	814	756
	536	412	365
	15	20	22
	length L (mm)		3000
80	2 023	1 801	1 714
	1 587	1 382	1 302
	1 186	999	928
	658	505	448



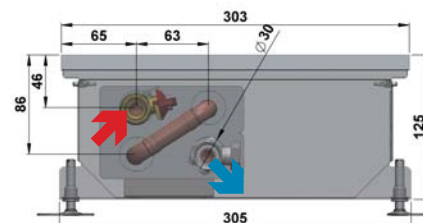
Very efficient floor convector with natural convection in the PT series

CHARACTERISTICS

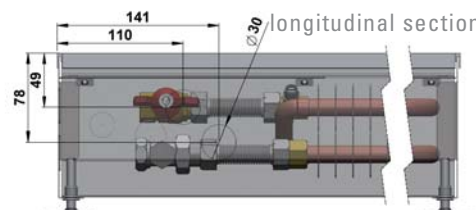
- high natural convection efficiency
- short reaction time

DIMENSIONS

width	303 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section

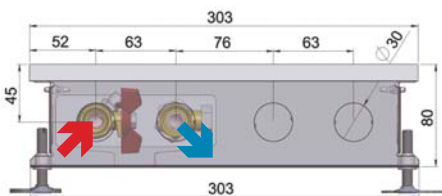


115|7|8|9*66

COIL-PT80

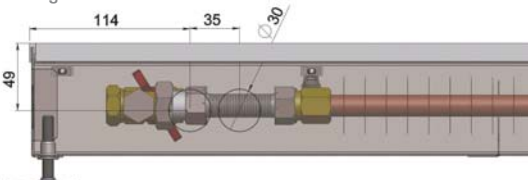
TEMPERATURE EXPONENT $m = 1,4002$

THERMAL OUTPUT Q [W]



cross-section

longitudinal section



Lowest type of floor
convector with natural
convection in the PT series

CHARACTERISTICS

- high natural convection efficiency
- short reaction time

DIMENSIONS

width	303 mm
structural height	80 mm
length	900 to 3000 mm
connection	G½"

	air temperature t_A			
	15	20	22	
mean water temperature t_w	length L (mm) 900			
	80	241	215	205
	70	191	167	158
	60	144	122	114
	45	82	63	56
	length L (mm) 1000			
	80	281	251	240
	70	223	195	184
	60	168	142	133
	45	95	74	66
	length L (mm) 1250			
	80	382	341	325
70	302	264	250	
60	228	193	180	
45	129	100	89	
length L (mm) 1500				
80	482	431	411	
70	382	334	315	
60	288	244	227	
45	163	126	113	
length L (mm) 1750				
80	582	521	497	
70	461	403	381	
60	348	295	275	
45	197	153	136	
length L (mm) 2000				
80	683	611	582	
70	540	473	447	
60	408	346	322	
45	231	179	159	
length L (mm) 2500				
80	884	790	753	
70	699	612	578	
60	528	448	417	
45	299	232	206	
length L (mm) 3000				
80	1 085	970	925	
70	858	751	709	
60	648	550	512	
45	367	285	253	



COIL-PT105

THERMAL OUTPUT Q [W]

TEMPERATURE EXPONENT $m = 1,3691$

	air temperature t_A		
	15	20	22
	length L (mm)		
80	311	279	266
	248	217	205
	188	160	149
	108	84	75
	15	20	22
	length L (mm) 1000		
80	363	325	311
	289	254	240
	219	187	174
	126	98	88
	15	20	22
	length L (mm) 1250		
80	493	442	422
	392	344	325
	298	253	236
	171	133	119
	15	20	22
	length L (mm) 1500		
80	622	558	533
	495	435	411
	376	320	298
	216	168	150
	15	20	22
	length L (mm) 1750		
80	752	674	643
	598	525	497
	455	387	361
	261	203	181
	15	20	22
	length L (mm) 2000		
80	882	790	754
	702	616	582
	533	454	423
	306	238	213
	15	20	22
	length L (mm) 2500		
80	1 141	1 023	976
	908	797	753
	690	587	547
	396	308	275
	15	20	22
	length L (mm) 3000		
80	1 401	1 255	1 198
	1 114	978	925
	847	720	672
	486	379	338



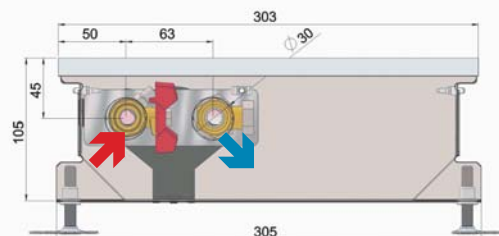
Variant floor convector in the PT series with structural height of 105 mm

CHARACTERISTICS

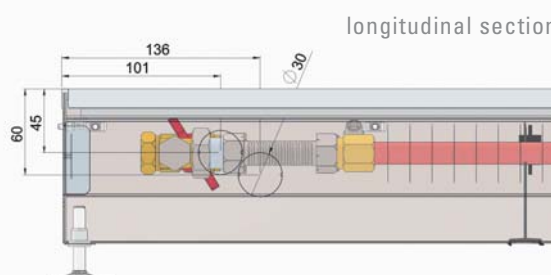
- high natural convection efficiency
- short reaction time

DIMENSIONS

width	303 mm
structural height	105 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section

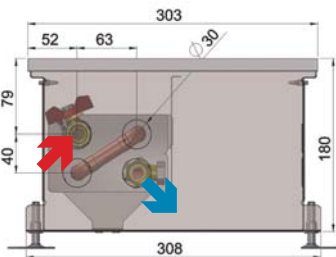


115|7|8|9*66

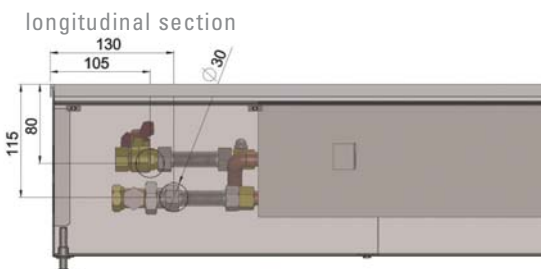
COIL-PT180

TEMPERATURE EXPONENT $m = 1,4180$

THERMAL OUTPUT Q [W]



cross-section



longitudinal section

One of the most efficient floor convectors in the PT series with natural convection

CHARACTERISTICS

- high natural convection efficiency
- short reaction time

DIMENSIONS

width	303 mm
structural height	180 mm
length	900 to 3000 mm
connection	G½"

	air temperature t_a			
	15	20	22	
mean water temperature t_w	length L (mm) 900			
	80	486	434	414
	70	384	335	316
	60	289	244	227
	45	162	125	111
	length L (mm) 1000			
	80	567	507	483
	70	448	391	369
	60	337	285	265
	45	190	146	130
	length L (mm) 1250			
	80	770	688	655
70	608	531	501	
60	457	387	360	
45	257	199	177	
length L (mm) 1500				
80	973	868	828	
70	768	671	633	
60	578	489	454	
45	325	251	223	
length L (mm) 1750				
80	1 175	1 049	1 000	
70	928	810	765	
60	698	591	549	
45	393	303	269	
length L (mm) 2000				
80	1 378	1 230	1 173	
70	1 087	950	897	
60	818	692	644	
45	460	356	316	
length L (mm) 2500				
80	1 784	1 592	1 517	
70	1 407	1 229	1 160	
60	1 059	896	833	
45	596	460	409	
length L (mm) 3000				
80	2 189	1 954	1 862	
70	1 727	1 509	1 424	
60	1 299	1 100	1 022	
45	731	565	502	

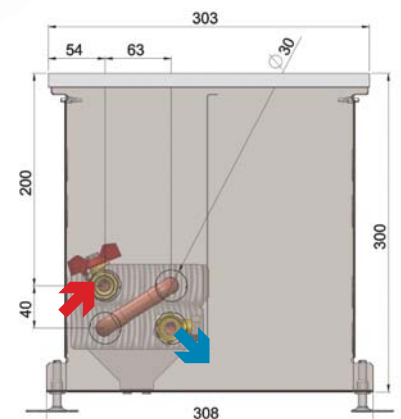


COIL-PT300

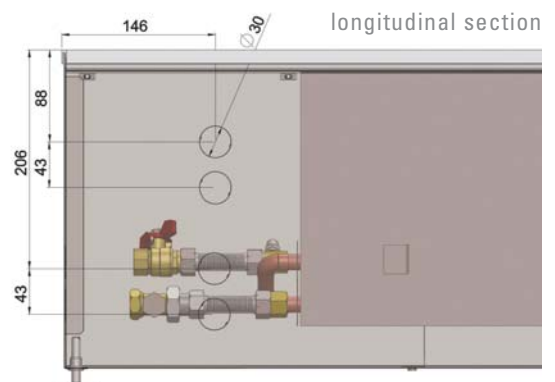
THERMAL OUTPUT Q [W]

TEMPERATURE EXPONENT $m = 1,3649$

	air temperature t_A		
	15	20	22
	length L (mm)		
80	900		
	559	501	478
	70	445	391
	60	338	288
	45	194	152
70	1000		
	652	584	558
	519	456	431
	60	395	336
	45	227	177
60	1250		
	885	793	757
	704	618	585
	60	536	456
	45	308	240
45	1500		
	1 117	1 002	957
	70	890	781
	60	677	576
	45	389	303
80	1750		
	1 350	1 211	1 156
	70	1 075	944
	60	817	696
	45	470	366
70	2000		
	1 583	1 419	1 355
	70	1 260	1 107
	60	958	816
	45	551	430
60	2500		
	2 049	1 837	1 754
	70	1 631	1 432
	60	1 240	1 056
	45	713	556
45	3000		
	2 514	2 254	2 152
	70	2 002	1 758
	60	1 522	1 296
	45	875	682



cross-section



longitudinal section

Most efficient floor convector with natural convection in the PT series

CHARACTERISTICS

- very high natural convection efficiency
- short reaction time

DIMENSIONS

width	303 mm
structural height	300 mm
length	900 to 3000 mm
connection	G½"

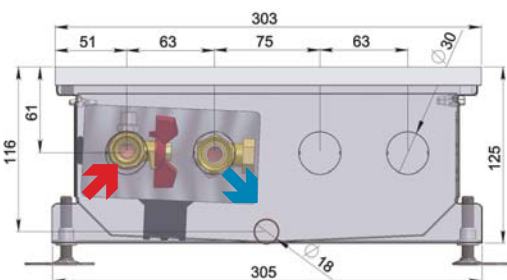


11719*66

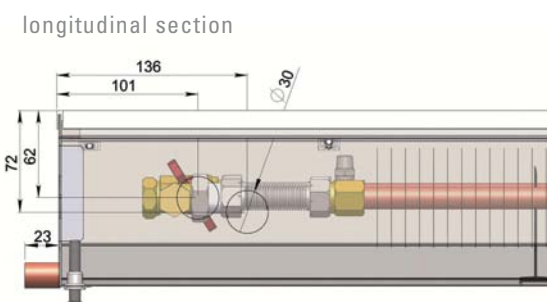
COIL-PO

TEMPERATURE EXPONENT $m = 1,4147$

THERMAL OUTPUT Q [W]



cross-section



longitudinal section

The commonest floor convectors for a wet environment with natural convection

CHARACTERISTICS

- high natural convection efficiency
- short reaction time
- suitable primarily for swimming pools
- the convector cannot be installed for a swimming pool with salty or otherwise corrosive water

DIMENSIONS

width	303 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"

	air temperature t_a		
	15	20	22
	length L (mm) 900		
80	372	332	316
70	293	256	242
60	221	187	174
45	124	96	85
	length L (mm) 1000		
80	434	387	369
70	342	299	282
60	258	218	203
45	145	112	100
	length L (mm) 1250		
80	589	526	501
70	465	406	383
60	350	296	275
45	197	152	135
	length L (mm) 1500		
80	743	664	633
70	587	513	484
60	442	374	348
45	249	192	171
	length L (mm) 1750		
80	898	802	765
70	709	620	585
60	534	452	420
45	301	232	207
	length L (mm) 2000		
80	1 053	940	896
70	832	727	686
60	626	530	493
45	353	273	242
	length L (mm) 2500		
80	1 363	1 217	1 160
70	1 076	940	888
60	810	686	638
45	456	353	313
	length L (mm) 3000		
80	1 673	1 494	1 424
70	1 321	1 154	1 089
60	994	842	783
45	560	433	385

mean water temperature t_w



COIL-PO4

THERMAL OUTPUT Q [W]

TEMPERATURE EXPONENT $m = 1,4497$

	air temperature t_a		
	15	20	22
	length L (mm)		
80	900		
	461	410	391
	362	315	297
	270	228	212
	150	115	102
70	1000		
	538	479	456
	422	368	346
	315	266	247
	175	135	119
60	1250		
	730	650	619
	573	499	470
	428	361	335
	238	183	162
45	1500		
	922	821	781
	723	630	594
	541	456	423
	300	231	204
mean water temperature t_w	1750		
	1 114	992	944
	874	761	718
	653	551	511
	363	279	247
2000	2000		
	1 306	1 163	1 107
	1 025	893	841
	766	646	600
	426	327	290
2500	2500		
	1 690	1 504	1 432
	1 326	1 155	1 089
	991	836	776
	551	423	375
3000	3000		
	2 074	1 846	1 758
	1 628	1 418	1 336
	1 217	1 026	952
	676	519	460



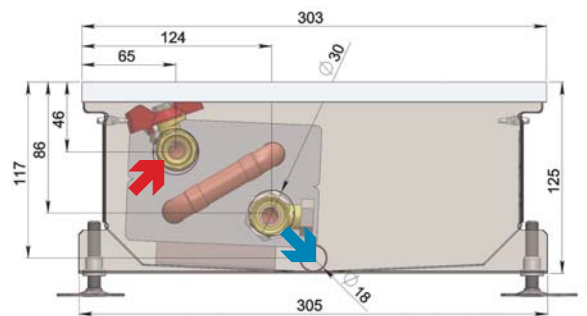
Most efficient floor convector for a wet environment with natural convection

CHARACTERISTICS

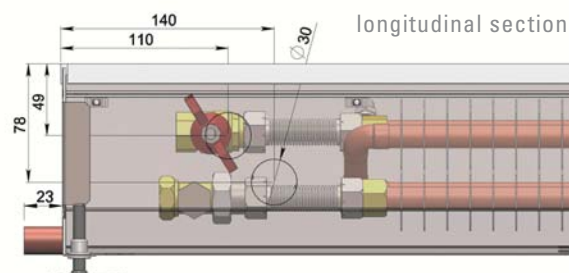
- highest natural convection efficiency in the PO series
- short reaction time
- suitable primarily for swimming pools
- the convector cannot be installed for a swimming pool with salty or otherwise corrosive water

DIMENSIONS

width	303 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section

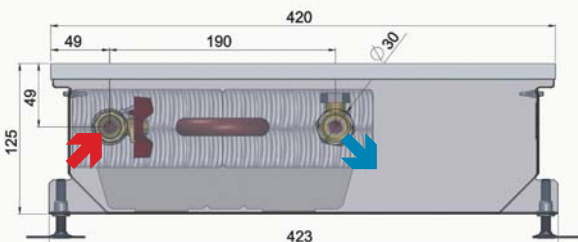


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COIL-PMW125

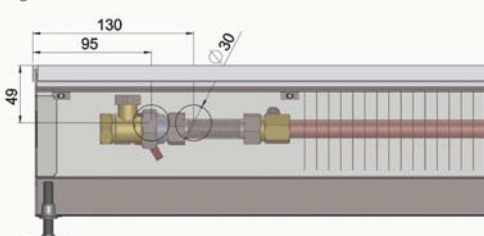
TEMPERATURE EXPONENT $m = 1,4202$

THERMAL OUTPUT Q [W]



cross-section

longitudinal section



Basic type of floor convector with natural convection of the most efficient PMW series

CHARACTERISTICS

- high natural convection efficiency
- short reaction time

DIMENSIONS

width	420 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"

	air temperature t_a		
	15	20	22
	length L (mm) 900		
80	525	469	447
70	414	362	341
60	311	263	245
45	175	135	120
	length L (mm) 1000		
80	613	547	521
70	483	422	398
60	363	307	286
45	204	158	140
	length L (mm) 1250		
80	831	742	707
70	656	573	540
60	493	417	388
45	277	214	190
	length L (mm) 1500		
80	1 050	937	893
70	828	723	683
60	623	527	490
45	350	270	240
	length L (mm) 1750		
80	1 269	1 133	1 079
70	1 001	874	825
60	753	637	592
45	423	327	290
	length L (mm) 2000		
80	1 488	1 328	1 265
70	1 174	1 025	967
60	882	747	694
45	496	383	340
	length L (mm) 2500		
80	1 925	1 718	1 638
70	1 519	1 326	1 252
60	1 142	966	898
45	642	496	440
	length L (mm) 3000		
80	2 363	2 109	2 010
70	1 864	1 628	1 536
60	1 402	1 186	1 102
45	788	608	540

mean water temperature t_w



COIL-PMW90

THERMAL OUTPUT Q [W]

TEMPERATURE EXPONENT $m = 1,4389$

	air temperature t_A		
	15	20	22
	length L (mm)		900
80	380	338	322
	299	260	245
	224	189	175
	125	96	85
	15	20	22
	length L (mm)		1000
80	443	395	376
	348	304	286
	261	220	205
	146	112	99
	15	20	22
	length L (mm)		1250
80	601	536	510
	473	412	389
	354	299	278
	198	152	135
	15	20	22
	length L (mm)		1500
80	759	677	644
	597	520	491
	447	378	351
	250	192	170
	15	20	22
	length L (mm)		1750
80	917	818	779
	721	629	593
	540	456	424
	302	232	206
	15	20	22
	length L (mm)		2000
80	1 076	959	913
	846	737	695
	634	535	497
	354	272	241
	15	20	22
	length L (mm)		2500
80	1 392	1 240	1 181
	1 095	954	900
	820	692	643
	458	352	312
	15	20	22
	length L (mm)		3000
80	1 708	1 522	1 450
	1 343	1 171	1 104
	1 006	849	789
	562	432	383



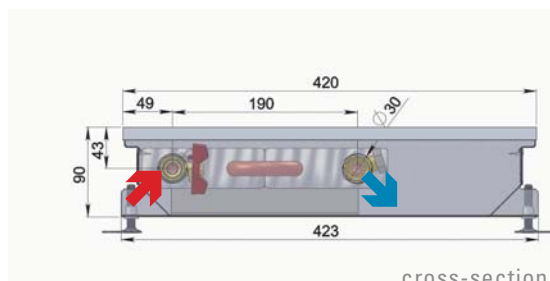
Lowest type of floor convector with natural convection of the most efficient PMW series

CHARACTERISTICS

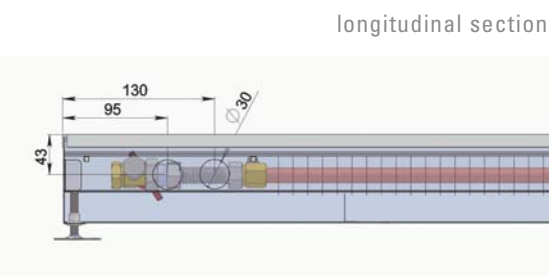
- high natural convection efficiency
- short reaction time

DIMENSIONS

width	420 mm
structural height	90 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section

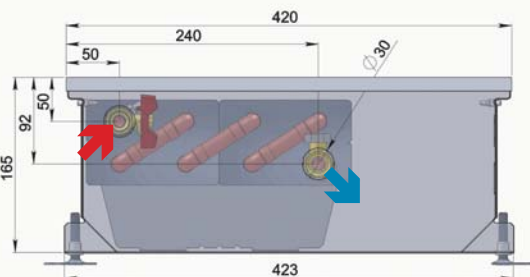


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COIL-PMW165

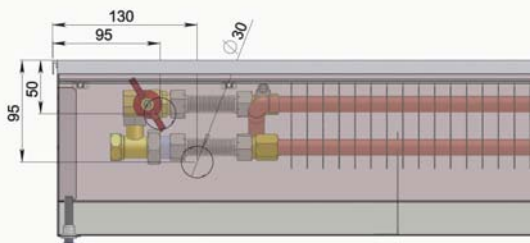
TEMPERATURE EXPONENT $m = 1,4131$

THERMAL OUTPUT Q [W]



cross-section

longitudinal section



Efficient floor convector
with natural convection
of the most efficient PMW
series

CHARACTERISTICS

- very high natural convection efficiency
- short reaction time

DIMENSIONS

width	420 mm
structural height	165 mm
length	900 to 3000 mm
connection	G½"

	air temperature t_a			
	15	20	22	
mean water temperature t_w	length L (mm) 900			
	80	765	683	651
	70	604	528	498
	60	455	385	358
	45	257	198	176
	length L (mm) 1000			
	80	893	797	760
	70	705	616	582
	60	531	449	418
	45	299	231	206
	length L (mm) 1250			
	80	1 211	1 082	1 031
	70	957	836	789
	60	720	610	567
	45	406	314	279
	length L (mm) 1500			
80	1 530	1 366	1 303	
70	1 208	1 056	997	
60	910	770	717	
45	513	397	352	
length L (mm) 1750				
80	1 849	1 651	1 574	
70	1 460	1 276	1 205	
60	1 100	931	866	
45	620	479	426	
length L (mm) 2000				
80	2 168	1 936	1 845	
70	1 712	1 496	1 412	
60	1 289	1 092	1 015	
45	727	562	499	
length L (mm) 2500				
80	2 805	2 505	2 388	
70	2 215	1 936	1 828	
60	1 668	1 413	1 314	
45	941	727	646	
length L (mm) 3000				
80	3 443	3 075	2 931	
70	2 719	2 376	2 243	
60	2 048	1 734	1 612	
45	1 155	892	793	

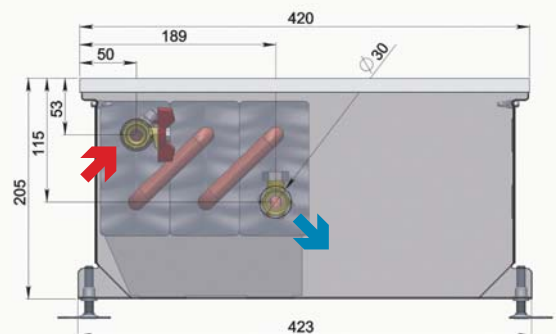


COIL-PMW205

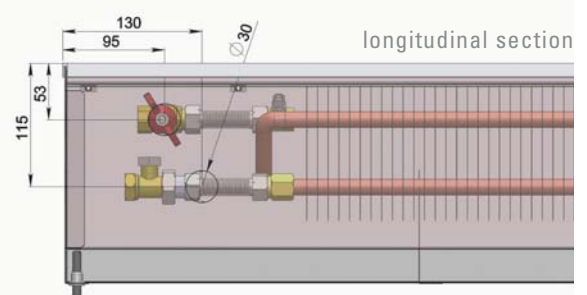
THERMAL OUTPUT Q [W]

TEMPERATURE EXPONENT $m = 1,4624$

	air temperature t_A		
	15	20	22
	length L (mm)		900
80	827	735	700
	70	647	563
	60	483	406
	45	267	204
	15	20	22
	length L (mm)		1000
80	964	858	816
	70	755	657
	60	563	474
	45	311	238
	15	20	22
	length L (mm)		1250
80	1 309	1 164	1 108
	70	1 025	892
	60	764	643
	45	422	324
	15	20	22
	length L (mm)		1500
80	1 653	1 470	1 399
	70	1 295	1 126
	60	965	813
	45	534	409
	15	20	22
	length L (mm)		1750
80	1 997	1 777	1 691
	70	1 565	1 361
	60	1 167	982
	45	645	494
	15	20	22
	length L (mm)		2000
80	2 342	2 083	1 982
	70	1 834	1 596
	60	1 368	1 151
	45	756	579
	15	20	22
	length L (mm)		2500
80	3 031	2 696	2 565
	70	2 374	2 065
	60	1 770	1 490
	45	978	749
	15	20	22
	length L (mm)		3000
80	3 719	3 309	3 149
	70	2 913	2 534
	60	2 172	1 829
	45	1 201	920



cross-section



longitudinal section

Highly efficient floor convector with natural convection of the most efficient PMW series

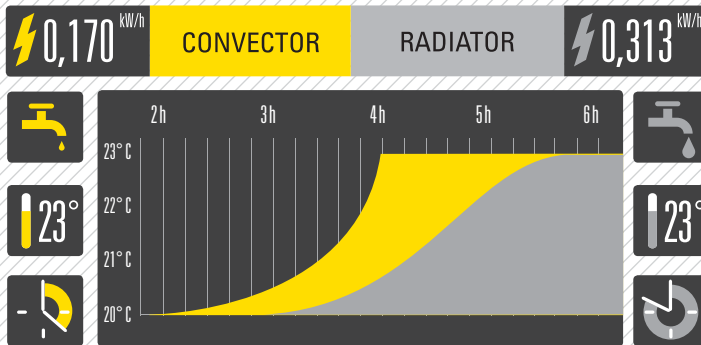
CHARACTERISTICS

- very highly efficient natural convection
- short reaction time

DIMENSIONS

width	420 mm
structural height	205 mm
length	900 to 3000 mm
connection	G½"

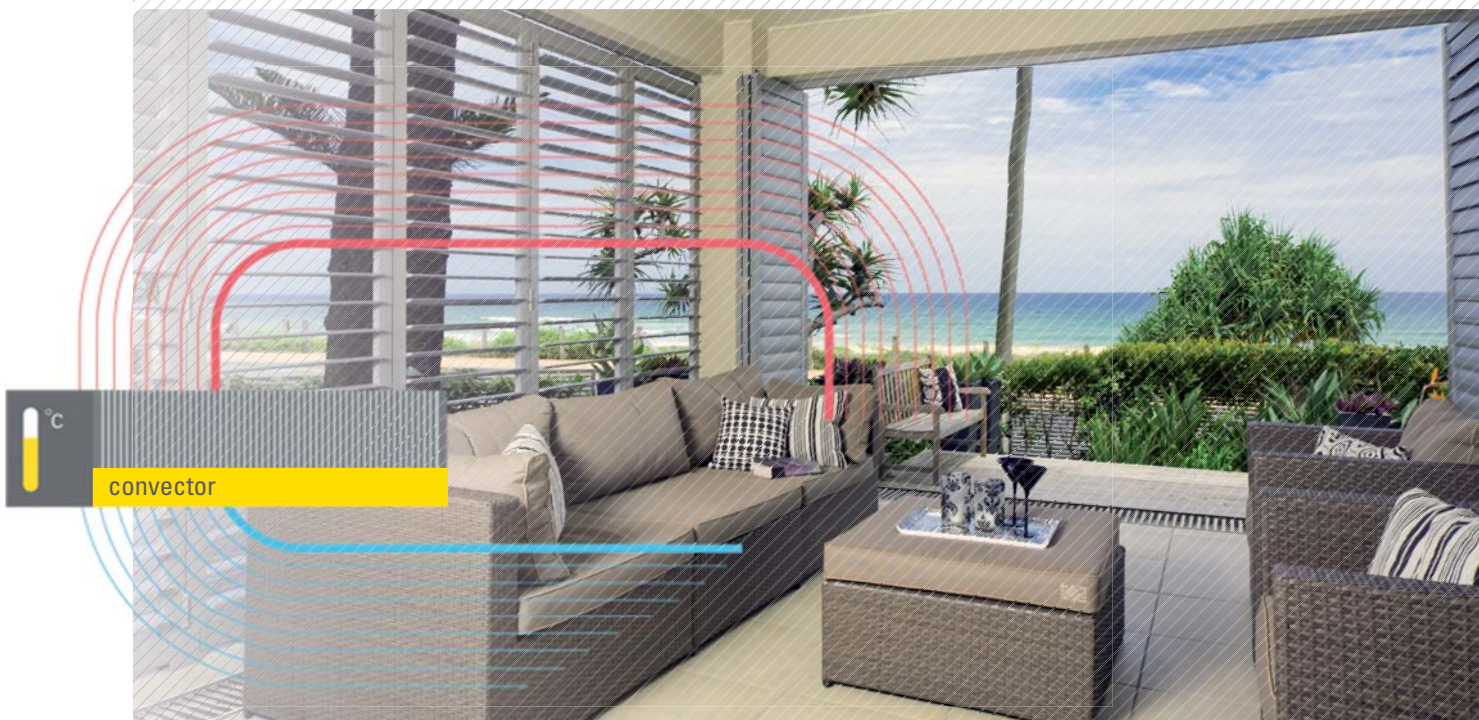
Why a MINIB convector?



Compared to a radiator, a convector provides energy savings and high dynamics of heating/cooling

MINIB convectors

- save space and add to the architectural appearance
- provide energy savings and dynamic response with a low volume of hot/ chilled water
- are made of high quality materials and permit the provision of a 10 year warranty on the trench and heat exchanger
- are available in bespoke dimensions to meet the most demanding requirements and environments



COIL-KT

ELECTRICAL POWER FOR FANS

length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA
1750	24 VA
2000	36 VA
2500	48 VA
3000	48 VA



TEMPERATURE EXPONENT $m = 1,012688$



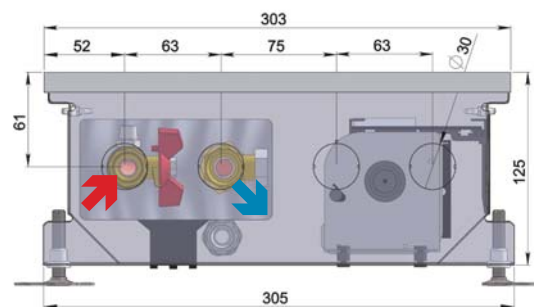
Basic and most popular floor convector with a fan of the KT/MT series

CHARACTERISTICS

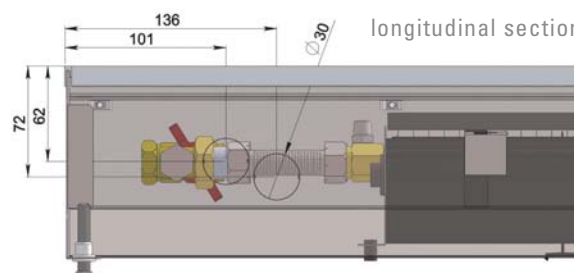
- highly efficient forced convection heating
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	303 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



115|7|8|9*66

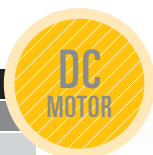
THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	1 161	1 070	1 034	80	1 268	1 169	1 129	80	1 414	1 304	1 260
70	980	890	854	70	1 070	972	933	70	1 194	1 084	1 040
60	800	710	674	60	874	775	736	60	974	865	821
45	530	441	405	45	579	482	443	45	646	537	494
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 354	1 249	1 206	80	1 479	1 364	1 318	80	1 649	1 521	1 469
70	1 143	1 038	996	70	1 249	1 134	1 088	70	1 392	1 264	1 213
60	933	828	786	60	1 019	905	859	60	1 136	1 009	958
45	619	514	473	45	676	562	516	45	754	627	576
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 837	1 694	1 637	80	2 007	1 851	1 788	80	2 238	2 064	1 994
70	1 551	1 409	1 352	70	1 695	1 539	1 476	70	1 890	1 716	1 646
60	1 266	1 124	1 067	60	1 383	1 228	1 165	60	1 542	1 369	1 300
45	840	698	642	45	917	763	701	45	1 023	850	782
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	2 321	2 140	2 068	80	2 535	2 338	2 259	80	2 827	2 607	2 519
70	1 960	1 779	1 707	70	2 141	1 944	1 865	70	2 387	2 167	2 080
60	1 599	1 420	1 348	60	1 747	1 551	1 472	60	1 948	1 729	1 642
45	1 061	882	811	45	1 159	963	885	45	1 292	1 074	987
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	2 805	2 586	2 499	80	3 063	2 825	2 730	80	3 416	3 150	3 044
70	2 368	2 150	2 063	70	2 587	2 349	2 254	70	2 884	2 619	2 513
60	1 933	1 715	1 628	60	2 111	1 874	1 779	60	2 354	2 089	1 984
45	1 282	1 066	979	45	1 400	1 164	1 070	45	1 561	1 298	1 193
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	3 288	3 032	2 930	80	3 592	3 312	3 200	80	4 005	3 693	3 569
70	2 776	2 521	2 419	70	3 033	2 754	2 642	70	3 382	3 071	2 946
60	2 266	2 011	1 909	60	2 475	2 197	2 085	60	2 760	2 450	2 326
45	1 503	1 249	1 148	45	1 641	1 365	1 254	45	1 830	1 522	1 399
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	4 255	3 924	3 791	80	4 648	4 286	4 141	80	5 183	4 780	4 618
70	3 593	3 262	3 130	70	3 925	3 563	3 419	70	4 376	3 974	3 813
60	2 932	2 602	2 471	60	3 203	2 843	2 699	60	3 572	3 170	3 010
45	1 945	1 617	1 486	45	2 124	1 766	1 623	45	2 369	1 969	1 810
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	5 222	4 816	4 653	80	5 704	5 260	5 083	80	6 361	5 866	5 668
70	4 409	4 004	3 842	70	4 817	4 373	4 196	70	5 371	4 877	4 679
60	3 599	3 194	3 032	60	3 931	3 489	3 312	60	4 383	3 890	3 694
45	2 387	1 984	1 824	45	2 607	2 168	1 992	45	2 907	2 417	2 221

COIL-MT

ELECTRICAL POWER FOR FANS

length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA
1750	24 VA
2000	36 VA
2500	48 VA
3000	48 VA



TEMPERATURE EXPONENT $m = 1,0435$



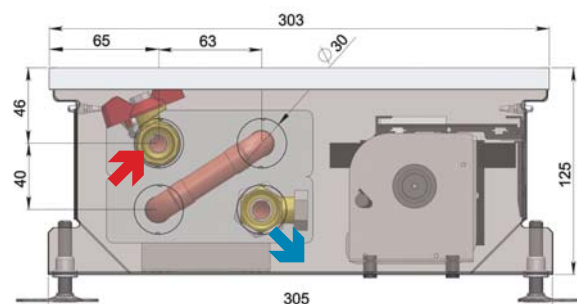
Most efficient floor convector with a fan of the KT/MT series

CHARACTERISTICS

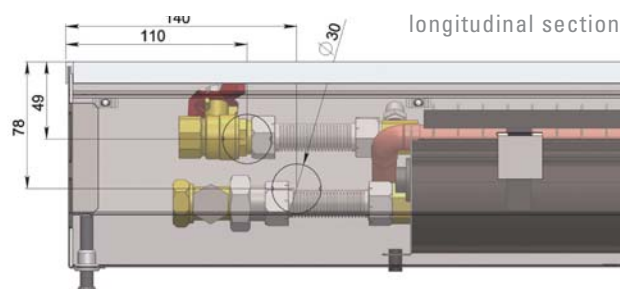
- very highly efficient forced convection heating
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	303 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



115|7|8|9*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	1 499	1 379	1 331	80	1 571	1 445	1 395	80	1 718	1 580	1 525
70	1 259	1 140	1 092	70	1 320	1 195	1 145	70	1 443	1 307	1 252
60	1 021	903	856	60	1 071	947	897	60	1 170	1 035	981
45	669	553	507	45	701	580	531	45	767	634	581
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 749	1 609	1 553	80	1 833	1 686	1 628	80	2 004	1 844	1 780
70	1 469	1 330	1 275	70	1 540	1 394	1 336	70	1 684	1 524	1 461
60	1 192	1 054	999	60	1 249	1 105	1 047	60	1 366	1 208	1 145
45	780	645	591	45	818	676	620	45	894	739	678
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	2 373	2 183	2 107	80	2 488	2 289	2 209	80	2 720	2 502	2 415
70	1 994	1 805	1 730	70	2 090	1 892	1 813	70	2 285	2 069	1 982
60	1 617	1 430	1 356	60	1 695	1 499	1 421	60	1 853	1 639	1 553
45	1 059	876	803	45	1 110	918	841	45	1 214	1 004	920
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	2 998	2 758	2 662	80	3 143	2 891	2 790	80	3 436	3 161	3 051
70	2 518	2 280	2 185	70	2 640	2 390	2 290	70	2 886	2 613	2 504
60	2 043	1 806	1 712	60	2 141	1 894	1 795	60	2 341	2 070	1 962
45	1 338	1 106	1 014	45	1 402	1 160	1 063	45	1 533	1 268	1 162
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	3 623	3 332	3 216	80	3 797	3 493	3 372	80	4 152	3 819	3 686
70	3 043	2 755	2 640	70	3 190	2 888	2 767	70	3 488	3 157	3 026
60	2 468	2 183	2 069	60	2 587	2 288	2 169	60	2 829	2 502	2 371
45	1 617	1 337	1 225	45	1 695	1 401	1 284	45	1 853	1 532	1 404
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	4 247	3 907	3 771	80	4 452	4 095	3 953	80	4 868	4 477	4 322
70	3 568	3 230	3 095	70	3 740	3 386	3 245	70	4 089	3 702	3 547
60	2 894	2 559	2 426	60	3 033	2 683	2 543	60	3 316	2 933	2 780
45	1 895	1 567	1 436	45	1 987	1 643	1 506	45	2 172	1 796	1 646
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	5 496	5 056	4 880	80	5 762	5 300	5 116	80	6 299	5 794	5 593
70	4 617	4 180	4 006	70	4 840	4 382	4 199	70	5 291	4 791	4 591
60	3 745	3 312	3 139	60	3 925	3 471	3 291	60	4 292	3 795	3 598
45	2 453	2 028	1 859	45	2 571	2 126	1 949	45	2 811	2 324	2 130
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	6 746	6 205	5 989	80	7 071	6 504	6 278	80	7 731	7 111	6 864
70	5 666	5 130	4 916	70	5 940	5 378	5 153	70	6 494	5 879	5 634
60	4 596	4 064	3 853	60	4 818	4 260	4 038	60	5 267	4 658	4 415
45	3 010	2 489	2 281	45	3 156	2 609	2 391	45	3 450	2 852	2 615

COIL-KT110

ELECTRICAL POWER FOR FANS



length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA
1750	24 VA
2000	36 VA
2500	48 VA
3000	48 VA

TEMPERATURE EXPONENT $m = 1,0543$



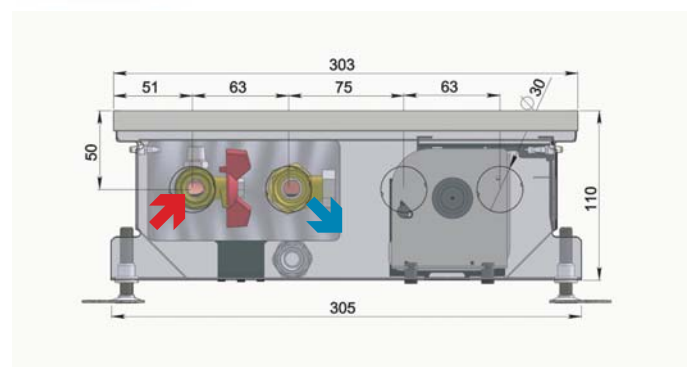
Lowest floor convector with a fan of the KT/MT series

CHARACTERISTICS

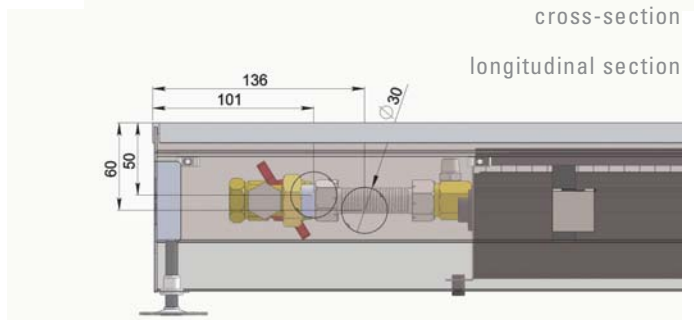
- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	303 mm
structural height	110 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



115|7|8|9*66

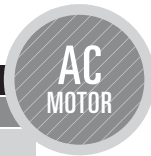
THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	958	881	850	80	1 049	964	930	80	1 182	1 086	1 048
70	804	727	696	70	880	796	762	70	991	896	858
60	650	574	544	60	712	629	596	60	802	708	671
45	424	350	320	45	464	383	351	45	523	432	395
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 118	1 028	991	80	1 224	1 125	1 086	80	1 379	1 267	1 223
70	937	848	812	70	1 026	928	889	70	1 156	1 046	1 002
60	759	670	635	60	831	734	695	60	936	826	783
45	495	408	374	45	542	447	409	45	610	503	461
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 517	1 394	1 346	80	1 661	1 527	1 473	80	1 871	1 720	1 659
70	1 272	1 151	1 102	70	1 393	1 260	1 207	70	1 569	1 419	1 359
60	1 030	909	862	60	1 127	996	943	60	1 270	1 122	1 062
45	671	554	507	45	735	607	556	45	828	683	626
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	1 917	1 761	1 700	80	2 098	1 929	1 861	80	2 364	2 172	2 096
70	1 607	1 453	1 392	70	1 760	1 591	1 524	70	1 982	1 792	1 717
60	1 301	1 149	1 088	60	1 424	1 258	1 192	60	1 604	1 417	1 342
45	848	700	641	45	929	766	702	45	1 046	863	790
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	2 316	2 128	2 054	80	2 536	2 330	2 249	80	2 856	2 625	2 533
70	1 942	1 756	1 682	70	2 126	1 923	1 842	70	2 395	2 166	2 075
60	1 572	1 388	1 315	60	1 721	1 520	1 440	60	1 938	1 712	1 622
45	1 025	846	774	45	1 122	926	848	45	1 264	1 043	955
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	2 715	2 495	2 408	80	2 973	2 732	2 636	80	3 348	3 077	2 969
70	2 277	2 059	1 972	70	2 493	2 254	2 159	70	2 808	2 539	2 432
60	1 843	1 627	1 542	60	2 017	1 782	1 688	60	2 272	2 007	1 901
45	1 202	991	908	45	1 316	1 086	994	45	1 482	1 223	1 120
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	3 514	3 229	3 116	80	3 847	3 536	3 412	80	4 333	3 982	3 843
70	2 946	2 665	2 552	70	3 226	2 917	2 795	70	3 633	3 286	3 148
60	2 384	2 106	1 995	60	2 611	2 306	2 184	60	2 941	2 597	2 460
45	1 555	1 283	1 175	45	1 703	1 405	1 287	45	1 918	1 582	1 449
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	4 312	3 963	3 824	80	4 721	4 339	4 187	80	5 318	4 888	4 716
70	3 616	3 270	3 132	70	3 959	3 581	3 430	70	4 459	4 033	3 863
60	2 926	2 585	2 449	60	3 204	2 830	2 681	60	3 609	3 187	3 020
45	1 908	1 575	1 442	45	2 090	1 724	1 579	45	2 354	1 942	1 779

COIL-KO

ELECTRICAL POWER FOR FANS

length	power
900	32 VA
1000	37 VA
1250	37 VA
1500	64 VA
1750	74 VA
2000	74 VA
2500	106 VA
3000	111 VA



TEMPERATURE EXPONENT $m = 1,012688$



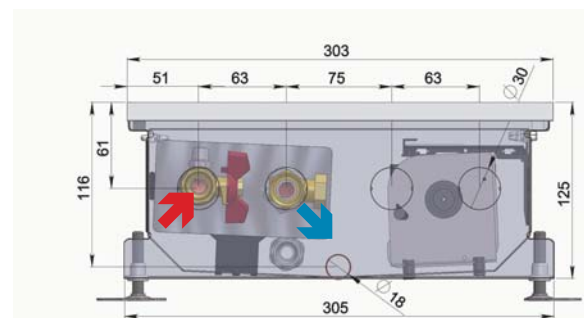
Most common floor convector with a fan for an interior with a wet environment

CHARACTERISTICS

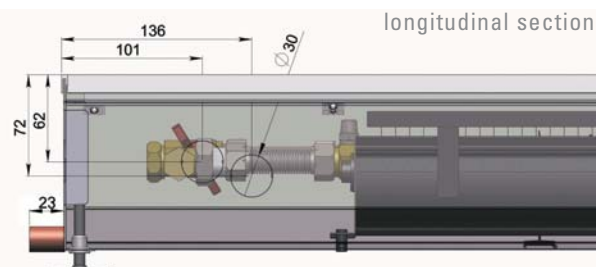
- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- safe 12V AC voltage
- suitable primarily for swimming pools
- simple control

DIMENSIONS

width	303 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



11719*66

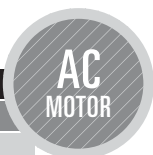
THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	1 161	1 070	1 034	80	1 268	1 169	1 129	80	1 414	1 304	1 260
70	980	890	854	70	1 070	972	933	70	1 194	1 084	1 040
60	800	710	674	60	874	775	736	60	974	865	821
45	530	441	405	45	579	482	443	45	646	537	494
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 354	1 249	1 206	80	1 479	1 364	1 318	80	1 649	1 521	1 469
70	1 143	1 038	996	70	1 249	1 134	1 088	70	1 392	1 264	1 213
60	933	828	786	60	1 019	905	859	60	1 136	1 009	958
45	619	514	473	45	676	562	516	45	754	627	576
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 837	1 694	1 637	80	2 007	1 851	1 788	80	2 238	2 064	1 994
70	1 551	1 409	1 352	70	1 695	1 539	1 476	70	1 890	1 716	1 646
60	1 266	1 124	1 067	60	1 383	1 228	1 165	60	1 542	1 369	1 300
45	840	698	642	45	917	763	701	45	1 023	850	782
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	2 321	2 140	2 068	80	2 535	2 338	2 259	80	2 827	2 607	2 519
70	1 960	1 779	1 707	70	2 141	1 944	1 865	70	2 387	2 167	2 080
60	1 599	1 420	1 348	60	1 747	1 551	1 472	60	1 948	1 729	1 642
45	1 061	882	811	45	1 159	963	885	45	1 292	1 074	987
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	2 805	2 586	2 499	80	3 063	2 825	2 730	80	3 416	3 150	3 044
70	2 368	2 150	2 063	70	2 587	2 349	2 254	70	2 884	2 619	2 513
60	1 933	1 715	1 628	60	2 111	1 874	1 779	60	2 354	2 089	1 984
45	1 282	1 066	979	45	1 400	1 164	1 070	45	1 561	1 298	1 193
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	3 288	3 032	2 930	80	3 592	3 312	3 200	80	4 005	3 693	3 569
70	2 776	2 521	2 419	70	3 033	2 754	2 642	70	3 382	3 071	2 946
60	2 266	2 011	1 909	60	2 475	2 197	2 085	60	2 760	2 450	2 326
45	1 503	1 249	1 148	45	1 641	1 365	1 254	45	1 830	1 522	1 399
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	4 255	3 924	3 791	80	4 648	4 286	4 141	80	5 183	4 780	4 618
70	3 593	3 262	3 130	70	3 925	3 563	3 419	70	4 376	3 974	3 813
60	2 932	2 602	2 471	60	3 203	2 843	2 699	60	3 572	3 170	3 010
45	1 945	1 617	1 486	45	2 124	1 766	1 623	45	2 369	1 969	1 810
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	5 222	4 816	4 653	80	5 704	5 260	5 083	80	6 361	5 866	5 668
70	4 409	4 004	3 842	70	4 817	4 373	4 196	70	5 371	4 877	4 679
60	3 599	3 194	3 032	60	3 931	3 489	3 312	60	4 383	3 890	3 694
45	2 387	1 984	1 824	45	2 607	2 168	1 992	45	2 907	2 417	2 221

COIL-MO

ELECTRICAL POWER FOR FANS

length	power
900	32 VA
1000	37 VA
1250	37 VA
1500	64 VA
1750	74 VA
2000	74 VA
2500	106 VA
3000	111 VA



TEMPERATURE EXPONENT $m = 1,0435$



Most efficient floor convector with a fan for an interior with a wet environment

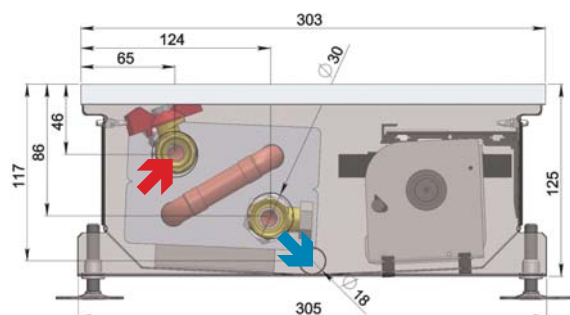
CHARACTERISTICS

- very high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- safe 12V AC voltage
- suitable primarily for swimming pools
- simple control

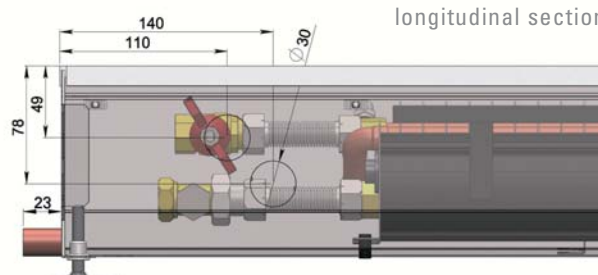
The convector cannot be installed for a swimming pool with salty or otherwise corrosive water

DIMENSIONS

width	303 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



11719*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	1 499	1 379	1 331	80	1 571	1 445	1 395	80	1 718	1 580	1 525
70	1 259	1 140	1 092	70	1 320	1 195	1 145	70	1 443	1 307	1 252
60	1 021	903	856	60	1 071	947	897	60	1 170	1 035	981
45	669	553	507	45	701	580	531	45	767	634	581
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 749	1 609	1 553	80	1 833	1 686	1 628	80	2 004	1 844	1 780
70	1 469	1 330	1 275	70	1 540	1 394	1 336	70	1 684	1 524	1 461
60	1 192	1 054	999	60	1 249	1 105	1 047	60	1 366	1 208	1 145
45	780	645	591	45	818	676	620	45	894	739	678
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	2 373	2 183	2 107	80	2 488	2 289	2 209	80	2 720	2 502	2 415
70	1 994	1 805	1 730	70	2 090	1 892	1 813	70	2 285	2 069	1 982
60	1 617	1 430	1 356	60	1 695	1 499	1 421	60	1 853	1 639	1 553
45	1 059	876	803	45	1 110	918	841	45	1 214	1 004	920
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	2 998	2 758	2 662	80	3 143	2 891	2 790	80	3 436	3 161	3 051
70	2 518	2 280	2 185	70	2 640	2 390	2 290	70	2 886	2 613	2 504
60	2 043	1 806	1 712	60	2 141	1 894	1 795	60	2 341	2 070	1 962
45	1 338	1 106	1 014	45	1 402	1 160	1 063	45	1 533	1 268	1 162
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	3 623	3 332	3 216	80	3 797	3 493	3 372	80	4 152	3 819	3 686
70	3 043	2 755	2 640	70	3 190	2 888	2 767	70	3 488	3 157	3 026
60	2 468	2 183	2 069	60	2 587	2 288	2 169	60	2 829	2 502	2 371
45	1 617	1 337	1 225	45	1 695	1 401	1 284	45	1 853	1 532	1 404
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	4 247	3 907	3 771	80	4 452	4 095	3 953	80	4 868	4 477	4 322
70	3 568	3 230	3 095	70	3 740	3 386	3 245	70	4 089	3 702	3 547
60	2 894	2 559	2 426	60	3 033	2 683	2 543	60	3 316	2 933	2 780
45	1 895	1 567	1 436	45	1 987	1 643	1 506	45	2 172	1 796	1 646
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	5 496	5 056	4 880	80	5 762	5 300	5 116	80	6 299	5 794	5 593
70	4 617	4 180	4 006	70	4 840	4 382	4 199	70	5 291	4 791	4 591
60	3 745	3 312	3 139	60	3 925	3 471	3 291	60	4 292	3 795	3 598
45	2 453	2 028	1 859	45	2 571	2 126	1 949	45	2 811	2 324	2 130
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	6 746	6 205	5 989	80	7 071	6 504	6 278	80	7 731	7 111	6 864
70	5 666	5 130	4 916	70	5 940	5 378	5 153	70	6 494	5 879	5 634
60	4 596	4 064	3 853	60	4 818	4 260	4 038	60	5 267	4 658	4 415
45	3 010	2 489	2 281	45	3 156	2 609	2 391	45	3 450	2 852	2 615

COIL-KTO

ELECTRICAL POWER FOR FANS

length	power
900	4 VA
1000	4 VA
1250	8 VA
1500	8 VA
1750	8 VA
2000	12 VA
2500	12 VA
3000	16 VA



TEMPERATURE EXPONENT $m = 1,107577$



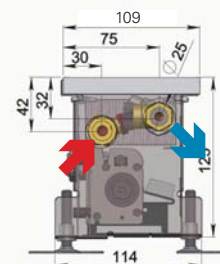
Narrowest floor convector with a fan of the MINIB company

CHARACTERISTICS

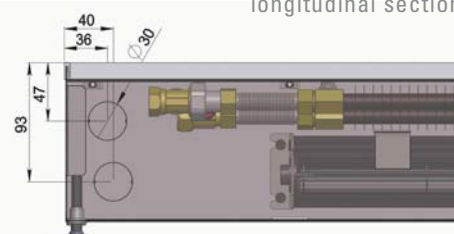
- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	109 mm
structural height	125 mm
length	900 to 3000 mm
connection	G $\frac{3}{8}$ "



cross-section



longitudinal section



419*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	400	366	353	80	478	437	421	80	617	565	544
70	333	299	286	70	397	357	342	70	513	462	441
60	266	234	221	60	318	279	264	60	411	360	341
45	170	139	127	45	203	166	151	45	262	214	195
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	467	427	412	80	557	510	491	80	720	659	635
70	388	349	334	70	463	417	398	70	598	538	515
60	311	273	258	60	371	326	308	60	479	421	397
45	198	162	148	45	237	193	176	45	306	250	228
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	634	580	559	80	757	692	667	80	977	894	861
70	527	474	453	70	629	566	541	70	812	731	698
60	422	370	350	60	503	442	418	60	650	571	539
45	269	220	201	45	321	263	239	45	415	339	309
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	801	733	706	80	956	875	842	80	1 234	1 130	1 088
70	665	599	572	70	794	715	683	70	1 026	923	882
60	533	468	442	60	636	558	527	60	821	721	681
45	340	278	253	45	406	332	302	45	524	428	391
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	967	885	853	80	1 155	1 057	1 018	80	1 492	1 365	1 315
70	804	723	691	70	960	864	825	70	1 240	1 115	1 066
60	644	565	534	60	768	674	637	60	993	871	823
45	411	336	306	45	490	401	365	45	633	518	472
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	1 134	1 038	1 000	80	1 354	1 239	1 193	80	1 749	1 600	1 541
70	943	848	811	70	1 125	1 012	968	70	1 453	1 308	1 250
60	755	662	626	60	901	791	747	60	1 164	1 021	965
45	482	394	359	45	575	470	428	45	743	607	553
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	1 468	1 343	1 294	80	1 752	1 603	1 544	80	2 263	2 071	1 995
70	1 220	1 098	1 049	70	1 456	1 310	1 252	70	1 881	1 692	1 618
60	977	857	810	60	1 166	1 023	967	60	1 506	1 322	1 249
45	623	509	464	45	744	608	554	45	961	785	716
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	1 801	1 649	1 588	80	2 150	1 968	1 895	80	2 777	2 542	2 448
70	1 497	1 347	1 288	70	1 787	1 608	1 537	70	2 308	2 077	1 985
60	1 199	1 052	994	60	1 431	1 256	1 187	60	1 848	1 622	1 533
45	765	625	570	45	913	746	680	45	1 180	964	879

COIL-KT1

ELECTRICAL POWER FOR FANS

length	power
900	4 VA
1000	4 VA
1250	8 VA
1500	8 VA
1750	8 VA
2000	12 VA
2500	12 VA
3000	16 VA



TEMPERATURE EXPONENT $m = 1,1887$



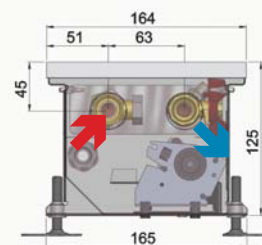
Narrow floor convector with a fan

CHARACTERISTICS

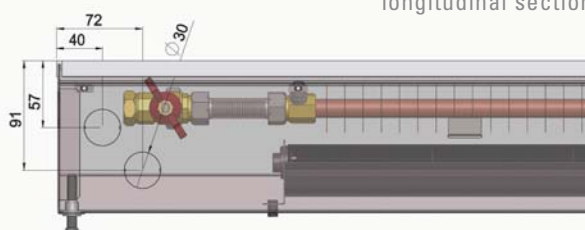
- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	164 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



115|7|8|9*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	600	546	524	80	639	581	558	80	727	661	635
70	492	440	419	70	524	468	445	70	596	532	507
60	388	337	317	60	412	359	337	60	469	408	384
45	239	193	175	45	255	205	186	45	290	233	211
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	700	637	612	80	745	677	651	80	848	771	740
70	574	513	488	70	611	545	520	70	695	621	591
60	452	393	370	60	481	418	394	60	548	476	448
45	279	225	204	45	297	239	217	45	338	272	247
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	951	864	830	80	1 011	919	883	80	1 151	1 046	1 005
70	779	696	663	70	829	740	705	70	943	842	802
60	614	534	502	60	653	568	534	60	743	646	608
45	379	305	276	45	403	325	294	45	459	370	335
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	1 201	1 092	1 049	80	1 277	1 161	1 115	80	1 453	1 321	1 269
70	984	879	837	70	1 047	935	891	70	1 192	1 064	1 014
60	776	674	634	60	825	717	675	60	939	816	768
45	479	386	349	45	509	410	371	45	580	467	423
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	1 451	1 319	1 267	80	1 543	1 403	1 348	80	1 756	1 597	1 534
70	1 190	1 062	1 012	70	1 265	1 130	1 076	70	1 440	1 286	1 225
60	937	815	766	60	997	867	815	60	1 134	986	928
45	579	466	422	45	616	496	449	45	701	564	511
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	1 701	1 547	1 486	80	1 809	1 645	1 580	80	2 059	1 872	1 798
70	1 395	1 245	1 186	70	1 483	1 325	1 262	70	1 688	1 507	1 436
60	1 099	955	899	60	1 169	1 016	956	60	1 330	1 156	1 088
45	678	546	495	45	722	581	526	45	821	661	599
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	2 201	2 001	1 922	80	2 342	2 129	2 045	80	2 665	2 423	2 327
70	1 805	1 612	1 535	70	1 920	1 714	1 633	70	2 185	1 951	1 858
60	1 422	1 236	1 163	60	1 512	1 315	1 237	60	1 721	1 496	1 408
45	878	707	640	45	934	752	681	45	1 063	856	775
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	2 702	2 456	2 359	80	2 874	2 613	2 510	80	3 270	2 973	2 856
70	2 215	1 978	1 884	70	2 356	2 104	2 004	70	2 681	2 394	2 281
60	1 745	1 517	1 427	60	1 856	1 614	1 518	60	2 112	1 836	1 728
45	1 078	868	786	45	1 146	923	836	45	1 304	1 050	951

mean water temperature t_w

COIL-KT2

ELECTRICAL POWER FOR FANS

length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA
1750	24 VA
2000	36 VA
2500	48 VA



TEMPERATURE EXPONENT $m = 1,012688$



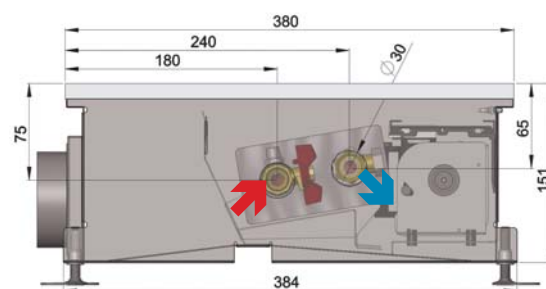
Floor convector with a fan with optional input of fresh air

CHARACTERISTICS

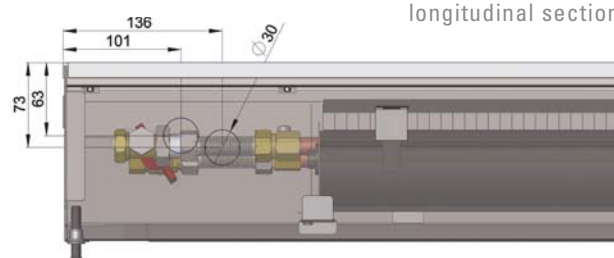
- connection to ventilation outlet
- very high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	380 mm
structural height	151 mm
spigot	Ø 80mm
length	900 to 2500 mm
connection	G½"



cross-section



longitudinal section



71819*66

THERMAL OUTPUT Q [W]

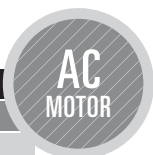
	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	air temperature t_a			air temperature t_a			air temperature t_a				
	15	20	22	15	20	22	15	20	22		
	length L (mm) 900			length L (mm) 900			length L (mm) 900				
80	1 161	1 070	1 034	80	1 268	1 169	1 129	80	1 414	1 304	1 260
70	980	890	854	70	1 070	972	933	70	1 194	1 084	1 040
60	800	710	674	60	874	775	736	60	974	865	821
45	530	441	405	45	579	482	443	45	646	537	494
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 354	1 249	1 206	80	1 479	1 364	1 318	80	1 649	1 521	1 469
70	1 143	1 038	996	70	1 249	1 134	1 088	70	1 392	1 264	1 213
60	933	828	786	60	1 019	905	859	60	1 136	1 009	958
45	619	514	473	45	676	562	516	45	754	627	576
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 837	1 694	1 637	80	2 007	1 851	1 788	80	2 238	2 064	1 994
70	1 551	1 409	1 352	70	1 695	1 539	1 476	70	1 890	1 716	1 646
60	1 266	1 124	1 067	60	1 383	1 228	1 165	60	1 542	1 369	1 300
45	840	698	642	45	917	763	701	45	1 023	850	782
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	2 321	2 140	2 068	80	2 535	2 338	2 259	80	2 827	2 607	2 519
70	1 960	1 779	1 707	70	2 141	1 944	1 865	70	2 387	2 167	2 080
60	1 599	1 420	1 348	60	1 747	1 551	1 472	60	1 948	1 729	1 642
45	1 061	882	811	45	1 159	963	885	45	1 292	1 074	987
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	2 805	2 586	2 499	80	3 063	2 825	2 730	80	3 416	3 150	3 044
70	2 368	2 150	2 063	70	2 587	2 349	2 254	70	2 884	2 619	2 513
60	1 933	1 715	1 628	60	2 111	1 874	1 779	60	2 354	2 089	1 984
45	1 282	1 066	979	45	1 400	1 164	1 070	45	1 561	1 298	1 193
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	3 288	3 032	2 930	80	3 592	3 312	3 200	80	4 005	3 693	3 569
70	2 776	2 521	2 419	70	3 033	2 754	2 642	70	3 382	3 071	2 946
60	2 266	2 011	1 909	60	2 475	2 197	2 085	60	2 760	2 450	2 326
45	1 503	1 249	1 148	45	1 641	1 365	1 254	45	1 830	1 522	1 399
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	4 255	3 924	3 791	80	4 648	4 286	4 141	80	5 183	4 780	4 618
70	3 593	3 262	3 130	70	3 925	3 563	3 419	70	4 376	3 974	3 813
60	2 932	2 602	2 471	60	3 203	2 843	2 699	60	3 572	3 170	3 010
45	1 945	1 617	1 486	45	2 124	1 766	1 623	45	2 369	1 969	1 810

mean water temperature t_w

COIL-KO2

ELECTRICAL POWER FOR FANS

length	power
900	32 VA
1000	37 VA
1250	37 VA
1500	64 VA
1750	74 VA
2000	74 VA
2500	106 VA



TEMPERATURE EXPONENT $m = 1,012688$



Most suitable floor convector with a fan for an interior with a swimming pool.

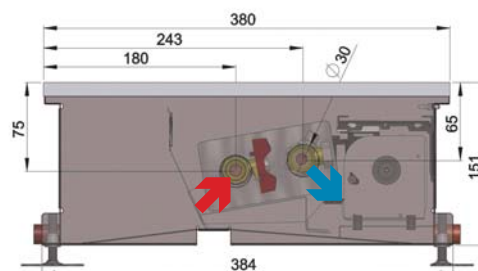
CHARACTERISTICS

- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- safe 12V AC voltage
- suitable primarily for swimming pools
- simple control

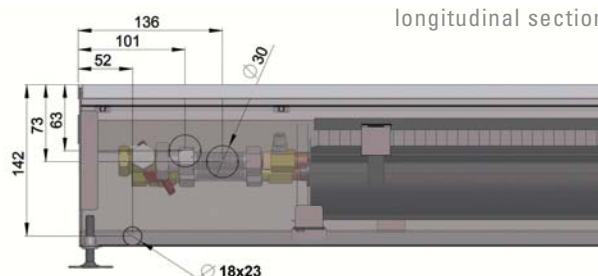
The convector cannot be installed for a swimming pool with salty or otherwise corrosive water.

DIMENSIONS

width	380 mm
structural height	151 mm
length	900 to 2500 mm
connection	G½"



cross-section



longitudinal section



719*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	1 161	1 070	1 034	80	1 268	1 169	1 129	80	1 414	1 304	1 260
70	980	890	854	70	1 070	972	933	70	1 194	1 084	1 040
60	800	710	674	60	874	775	736	60	974	865	821
45	530	441	405	45	579	482	443	45	646	537	494
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 354	1 249	1 206	80	1 479	1 364	1 318	80	1 649	1 521	1 469
70	1 143	1 038	996	70	1 249	1 134	1 088	70	1 392	1 264	1 213
60	933	828	786	60	1 019	905	859	60	1 136	1 009	958
45	619	514	473	45	676	562	516	45	754	627	576
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 837	1 694	1 637	80	2 007	1 851	1 788	80	2 238	2 064	1 994
70	1 551	1 409	1 352	70	1 695	1 539	1 476	70	1 890	1 716	1 646
60	1 266	1 124	1 067	60	1 383	1 228	1 165	60	1 542	1 369	1 300
45	840	698	642	45	917	763	701	45	1 023	850	782
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	2 321	2 140	2 068	80	2 535	2 338	2 259	80	2 827	2 607	2 519
70	1 960	1 779	1 707	70	2 141	1 944	1 865	70	2 387	2 167	2 080
60	1 599	1 420	1 348	60	1 747	1 551	1 472	60	1 948	1 729	1 642
45	1 061	882	811	45	1 159	963	885	45	1 292	1 074	987
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	2 805	2 586	2 499	80	3 063	2 825	2 730	80	3 416	3 150	3 044
70	2 368	2 150	2 063	70	2 587	2 349	2 254	70	2 884	2 619	2 513
60	1 933	1 715	1 628	60	2 111	1 874	1 779	60	2 354	2 089	1 984
45	1 282	1 066	979	45	1 400	1 164	1 070	45	1 561	1 298	1 193
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	3 288	3 032	2 930	80	3 592	3 312	3 200	80	4 005	3 693	3 569
70	2 776	2 521	2 419	70	3 033	2 754	2 642	70	3 382	3 071	2 946
60	2 266	2 011	1 909	60	2 475	2 197	2 085	60	2 760	2 450	2 326
45	1 503	1 249	1 148	45	1 641	1 365	1 254	45	1 830	1 522	1 399
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	4 255	3 924	3 791	80	4 648	4 286	4 141	80	5 183	4 780	4 618
70	3 593	3 262	3 130	70	3 925	3 563	3 419	70	4 376	3 974	3 813
60	2 932	2 602	2 471	60	3 203	2 843	2 699	60	3 572	3 170	3 010
45	1 945	1 617	1 486	45	2 124	1 766	1 623	45	2 369	1 969	1 810

COIL-KT3

ELECTRICAL POWER FOR FANS

length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA
1750	24 VA
2000	36 VA
2500	48 VA
3000	48 VA



TEMPERATURE EXPONENT $m = 1,1059$



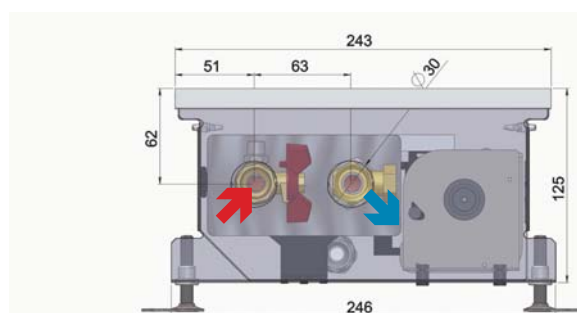
Basic and most popular floor convector with a fan of the KT3 series

CHARACTERISTICS

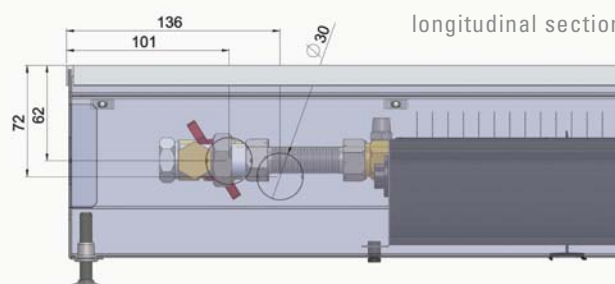
- very high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	243 mm
structural height	125 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



216171819*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	778	712	686	80	835	764	736	80	971	888	856
70	647	582	556	70	694	625	597	70	807	726	694
60	518	455	430	60	556	488	461	60	646	567	536
45	331	270	247	45	355	290	265	45	413	337	308
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	908	831	800	80	974	891	859	80	1 133	1 037	998
70	754	679	649	70	810	729	697	70	941	847	810
60	604	531	501	60	649	569	538	60	754	662	626
45	386	315	288	45	414	339	309	45	482	394	359
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 232	1 127	1 086	80	1 322	1 210	1 165	80	1 537	1 407	1 355
70	1 024	922	881	70	1 099	989	945	70	1 278	1 150	1 099
60	820	720	680	60	880	773	730	60	1 023	898	849
45	524	428	390	45	562	459	419	45	654	534	487
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	1 556	1 424	1 372	80	1 670	1 528	1 472	80	1 941	1 777	1 712
70	1 293	1 164	1 113	70	1 388	1 249	1 194	70	1 614	1 453	1 388
60	1 036	909	859	60	1 112	976	922	60	1 293	1 135	1 072
45	662	541	493	45	710	580	529	45	826	675	615
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	1 880	1 721	1 657	80	2 018	1 847	1 779	80	2 346	2 147	2 068
70	1 563	1 407	1 344	70	1 677	1 509	1 443	70	1 950	1 755	1 678
60	1 252	1 099	1 038	60	1 343	1 179	1 114	60	1 562	1 371	1 296
45	799	653	596	45	858	701	640	45	998	815	744
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	2 204	2 017	1 943	80	2 365	2 165	2 085	80	2 750	2 517	2 425
70	1 832	1 649	1 576	70	1 966	1 770	1 692	70	2 286	2 058	1 967
60	1 468	1 288	1 217	60	1 575	1 383	1 306	60	1 831	1 608	1 519
45	937	766	699	45	1 006	822	750	45	1 170	956	872
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	2 852	2 611	2 515	80	3 061	2 802	2 699	80	3 559	3 258	3 138
70	2 371	2 134	2 040	70	2 545	2 290	2 189	70	2 959	2 663	2 545
60	1 899	1 667	1 575	60	2 038	1 789	1 691	60	2 370	2 081	1 966
45	1 213	991	904	45	1 302	1 064	970	45	1 514	1 237	1 128
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	3 501	3 204	3 086	80	3 757	3 439	3 312	80	4 368	3 998	3 851
70	2 910	2 619	2 503	70	3 123	2 811	2 687	70	3 631	3 268	3 124
60	2 331	2 046	1 933	60	2 502	2 196	2 075	60	2 909	2 553	2 413
45	1 489	1 217	1 110	45	1 598	1 306	1 191	45	1 858	1 518	1 385

COIL-KT3 105

ELECTRICAL POWER FOR FANS



length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA
1750	24 VA
2000	36 VA
2500	48 VA
3000	48 VA

TEMPERATURE EXPONENT $m = 1,10542$



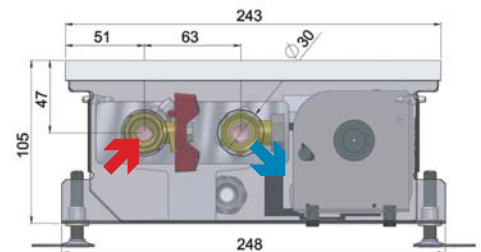
Very efficient convector with a fan of the KT3 series

CHARACTERISTICS

- very high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

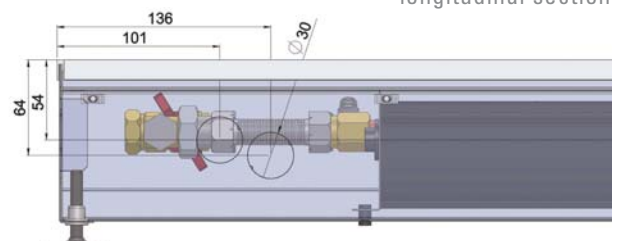
DIMENSIONS

width	243 mm
structural height	105 mm
length	900 to 3000 mm
connection	G½"



cross-section

longitudinal section





216171819*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	1 019	936	903	80	1 157	1 064	1 026	80	1 368	1 257	1 213
70	854	773	740	70	970	878	841	70	1 147	1 037	993
60	691	611	579	60	785	694	657	60	928	820	777
45	451	372	341	45	512	423	387	45	605	499	457
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 189	1 092	1 054	80	1 350	1 241	1 197	80	1 595	1 466	1 415
70	997	901	863	70	1 132	1 024	981	70	1 338	1 210	1 159
60	807	712	675	60	916	809	767	60	1 083	956	906
45	526	434	398	45	598	493	452	45	706	583	534
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 613	1 483	1 431	80	1 832	1 684	1 625	80	2 165	1 990	1 920
70	1 353	1 223	1 172	70	1 537	1 390	1 331	70	1 816	1 642	1 573
60	1 095	967	916	60	1 244	1 098	1 041	60	1 469	1 298	1 230
45	714	589	540	45	811	669	613	45	958	791	724
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	2 038	1 873	1 807	80	2 315	2 127	2 053	80	2 735	2 514	2 426
70	1 709	1 545	1 480	70	1 941	1 755	1 681	70	2 293	2 074	1 987
60	1 383	1 221	1 157	60	1 571	1 387	1 314	60	1 856	1 639	1 553
45	902	744	682	45	1 024	845	774	45	1 211	999	915
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	2 462	2 263	2 183	80	2 797	2 571	2 480	80	3 305	3 038	2 931
70	2 065	1 867	1 789	70	2 345	2 121	2 032	70	2 771	2 506	2 401
60	1 671	1 476	1 398	60	1 898	1 676	1 588	60	2 243	1 981	1 877
45	1 090	899	824	45	1 238	1 021	935	45	1 463	1 207	1 105
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	2 887	2 653	2 560	80	3 279	3 014	2 908	80	3 875	3 561	3 436
70	2 420	2 189	2 097	70	2 750	2 487	2 382	70	3 249	2 939	2 815
60	1 959	1 730	1 639	60	2 225	1 966	1 862	60	2 630	2 323	2 200
45	1 278	1 054	965	45	1 451	1 198	1 097	45	1 715	1 415	1 296
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	3 736	3 433	3 313	80	4 244	3 900	3 763	80	5 014	4 609	4 447
70	3 132	2 833	2 714	70	3 558	3 218	3 083	70	4 205	3 803	3 643
60	2 535	2 239	2 121	60	2 880	2 544	2 410	60	3 403	3 006	2 847
45	1 653	1 364	1 249	45	1 878	1 550	1 419	45	2 219	1 831	1 677
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	4 585	4 214	4 066	80	5 208	4 787	4 619	80	6 154	5 656	5 457
70	3 844	3 477	3 330	70	4 367	3 950	3 783	70	5 160	4 667	4 470
60	3 111	2 748	2 603	60	3 534	3 122	2 957	60	4 176	3 689	3 495
45	2 029	1 674	1 533	45	2 305	1 902	1 742	45	2 724	2 247	2 058

COIL-T50

ELECTRICAL POWER FOR FANS

length	power
900	4 VA
1000	4 VA
1250	8 VA
1500	8 VA
1750	8 VA
2000	12 VA
2500	12 VA
3000	16 VA



TEMPERATURE EXPONENT $m = 0,995571$



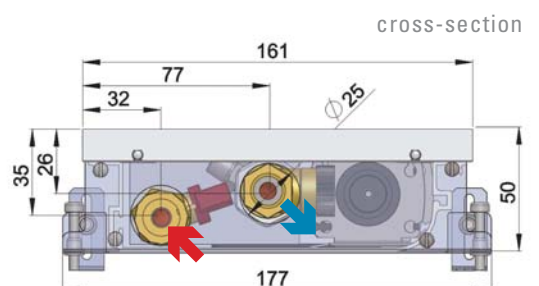
Unique convector in the global market. Unsurpassed height of only 50 mm.

CHARACTERISTICS

- suitable for interiors with the requirement of lowest structural height
- very high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	161 mm
structural height	50 mm
length	900 to 3000 mm
connection	G $\frac{3}{8}$ "





4

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.					
	air temperature t_A			air temperature t_A			air temperature t_A					
	15	20	22	15	20	22	15	20	22			
mean water temperature t_w	length L (mm) 900			length L (mm) 900			length L (mm) 900					
	80	390	360	348	80	503	464	449	80	729	673	651
	70	330	300	288	70	426	387	372	70	617	561	539
	60	270	240	228	60	349	310	295	60	506	450	427
	45	180	150	138	45	233	194	179	45	338	282	259
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000					
	80	454	420	406	80	586	541	524	80	851	785	759
	70	385	350	336	70	497	452	434	70	720	655	629
	60	315	280	266	60	407	362	344	60	590	525	498
	45	210	176	162	45	272	226	208	45	394	329	302
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250					
	80	617	570	551	80	796	735	710	80	1 154	1 066	1 030
	70	522	475	456	70	674	613	588	70	977	889	854
60	428	380	361	60	552	491	466	60	800	712	676	
45	286	238	219	45	369	307	283	45	535	446	410	
length L (mm) 1500			length L (mm) 1500			length L (mm) 1500						
80	779	719	696	80	1 005	928	897	80	1 458	1 346	1 302	
70	660	600	576	70	851	774	743	70	1 235	1 123	1 078	
60	540	480	457	60	697	620	589	60	1 011	899	854	
45	361	301	277	45	466	388	357	45	675	563	518	
length L (mm) 1750			length L (mm) 1750			length L (mm) 1750						
80	941	869	840	80	1 215	1 122	1 084	80	1 762	1 627	1 573	
70	797	725	696	70	1 029	935	898	70	1 492	1 357	1 303	
60	653	581	552	60	842	749	712	60	1 222	1 087	1 032	
45	436	364	335	45	563	469	432	45	816	680	626	
length L (mm) 2000			length L (mm) 2000			length L (mm) 2000						
80	1 104	1 019	985	80	1 424	1 315	1 271	80	2 066	1 907	1 844	
70	935	850	816	70	1 206	1 097	1 053	70	1 749	1 591	1 527	
60	765	681	647	60	988	878	835	60	1 432	1 274	1 210	
45	511	426	392	45	660	550	506	45	957	798	734	
length L (mm) 2500			length L (mm) 2500			length L (mm) 2500						
80	1 428	1 319	1 275	80	1 843	1 702	1 645	80	2 673	2 468	2 386	
70	1 209	1 100	1 056	70	1 561	1 419	1 363	70	2 263	2 059	1 977	
60	990	881	837	60	1 278	1 137	1 080	60	1 854	1 648	1 566	
45	661	552	508	45	854	712	655	45	1 238	1 032	950	
length L (mm) 3000			length L (mm) 3000			length L (mm) 3000						
80	1 753	1 619	1 565	80	2 262	2 089	2 019	80	3 281	3 029	2 929	
70	1 484	1 350	1 296	70	1 915	1 742	1 673	70	2 778	2 526	2 426	
60	1 216	1 081	1 027	60	1 568	1 395	1 325	60	2 275	2 023	1 922	
45	812	677	623	45	1 047	874	804	45	1 519	1 267	1 166	

COIL-T60

ELECTRICAL POWER FOR FANS

length	power
900	4 VA
1000	4 VA
1250	8 VA
1500	8 VA
1750	8 VA
2000	12 VA
2500	12 VA
3000	16 VA



TEMPERATURE EXPONENT $m = 1,09663$



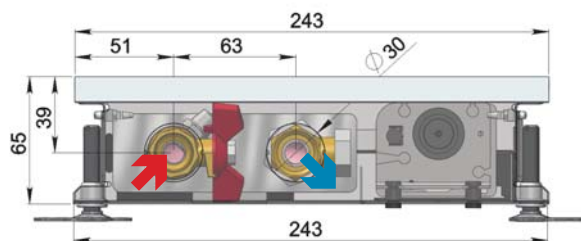
Lowest floor convector with a fan and width of 243 mm

CHARACTERISTICS

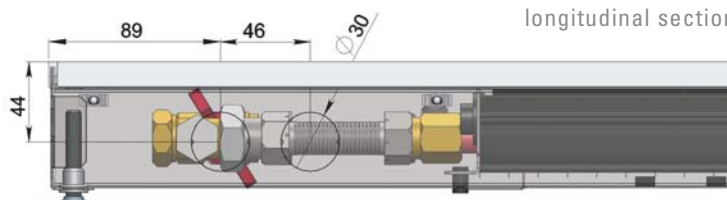
- very high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	243 mm
structural height	65 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



319*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	728	667	643	80	877	804	774	80	1 131	1 036	998
70	606	546	522	70	730	658	629	70	941	848	811
60	486	427	404	60	586	515	487	60	755	664	628
45	312	255	233	45	376	308	281	45	484	397	362
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	849	778	750	80	1 024	938	903	80	1 319	1 208	1 164
70	707	637	609	70	852	768	734	70	1 098	989	946
60	567	499	471	60	684	601	568	60	881	775	732
45	364	298	272	45	438	359	328	45	565	463	422
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 153	1 056	1 017	80	1 389	1 272	1 226	80	1 790	1 640	1 580
70	960	865	827	70	1 157	1 042	996	70	1 491	1 343	1 284
60	770	677	640	60	928	816	771	60	1 196	1 051	994
45	494	404	369	45	595	487	445	45	767	628	573
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	1 456	1 334	1 285	80	1 755	1 607	1 549	80	2 261	2 071	1 996
70	1 212	1 092	1 044	70	1 461	1 316	1 258	70	1 883	1 696	1 622
60	973	855	808	60	1 172	1 030	974	60	1 511	1 328	1 255
45	624	511	466	45	752	615	562	45	969	793	724
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	1 759	1 612	1 553	80	2 120	1 942	1 871	80	2 733	2 503	2 412
70	1 465	1 320	1 262	70	1 765	1 590	1 521	70	2 275	2 049	1 960
60	1 176	1 033	977	60	1 417	1 245	1 177	60	1 826	1 604	1 517
45	754	617	563	45	908	744	679	45	1 170	958	875
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	2 063	1 889	1 820	80	2 486	2 277	2 194	80	3 204	2 934	2 827
70	1 717	1 547	1 479	70	2 070	1 864	1 783	70	2 667	2 403	2 297
60	1 378	1 211	1 145	60	1 661	1 460	1 380	60	2 140	1 881	1 778
45	883	723	660	45	1 065	872	796	45	1 372	1 124	1 025
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	2 669	2 445	2 356	80	3 217	2 947	2 839	80	4 146	3 798	3 659
70	2 223	2 002	1 914	70	2 678	2 413	2 307	70	3 452	3 109	2 973
60	1 784	1 567	1 482	60	2 149	1 889	1 786	60	2 770	2 434	2 301
45	1 143	936	854	45	1 378	1 128	1 030	45	1 776	1 454	1 327
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	3 276	3 001	2 891	80	3 948	3 616	3 484	80	5 088	4 661	4 491
70	2 728	2 457	2 349	70	3 287	2 961	2 831	70	4 236	3 816	3 649
60	2 189	1 924	1 818	60	2 638	2 318	2 191	60	3 400	2 988	2 824
45	1 403	1 149	1 049	45	1 691	1 385	1 264	45	2 179	1 784	1 628

COIL-T80

ELECTRICAL POWER FOR FANS

length	power
900	4 VA
1000	4 VA
1250	8 VA
1500	8 VA
1750	8 VA
2000	12 VA
2500	12 VA
3000	16 VA



TEMPERATURE EXPONENT $m = 1,096629$



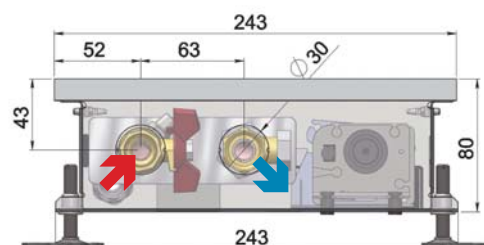
Very popular and efficient floor convector with width of 243 mm.

CHARACTERISTICS

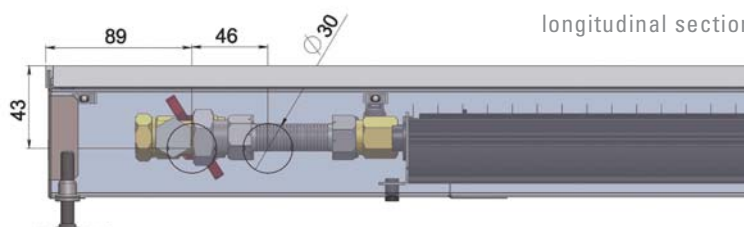
- very high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control

DIMENSIONS

width	243 mm
structural height	80 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



216171819*66

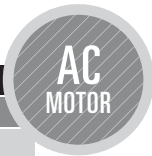
THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	870	797	767	80	1 047	959	924	80	1 350	1 237	1 192
70	724	652	624	70	872	786	751	70	1 124	1 013	968
60	581	511	483	60	700	615	581	60	902	793	750
45	372	305	278	45	449	367	335	45	578	474	432
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	1 015	929	895	80	1 222	1 119	1 078	80	1 576	1 443	1 390
70	845	761	728	70	1 017	916	876	70	1 312	1 182	1 130
60	678	596	563	60	816	718	678	60	1 053	925	875
45	435	356	325	45	523	429	391	45	675	553	504
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 377	1 261	1 215	80	1 658	1 519	1 464	80	2 138	1 959	1 887
70	1 146	1 033	987	70	1 381	1 244	1 189	70	1 780	1 604	1 533
60	920	808	764	60	1 108	974	921	60	1 429	1 256	1 187
45	590	483	441	45	710	582	531	45	916	750	684
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	1 739	1 593	1 535	80	2 095	1 919	1 849	80	2 701	2 474	2 384
70	1 448	1 304	1 247	70	1 744	1 571	1 502	70	2 249	2 026	1 937
60	1 162	1 021	965	60	1 400	1 230	1 163	60	1 805	1 586	1 499
45	745	610	557	45	897	735	670	45	1 157	947	864
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	2 102	1 925	1 855	80	2 531	2 319	2 234	80	3 264	2 989	2 880
70	1 750	1 576	1 507	70	2 108	1 898	1 815	70	2 717	2 448	2 340
60	1 404	1 234	1 167	60	1 691	1 486	1 405	60	2 181	1 916	1 811
45	900	737	673	45	1 084	888	810	45	1 398	1 145	1 045
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	2 464	2 257	2 175	80	2 968	2 718	2 619	80	3 826	3 505	3 377
70	2 051	1 848	1 767	70	2 471	2 226	2 128	70	3 186	2 870	2 744
60	1 646	1 447	1 368	60	1 983	1 743	1 647	60	2 556	2 247	2 124
45	1 055	864	789	45	1 271	1 041	950	45	1 639	1 342	1 225
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	3 189	2 921	2 814	80	3 841	3 518	3 389	80	4 952	4 536	4 370
70	2 655	2 391	2 287	70	3 198	2 880	2 754	70	4 123	3 714	3 551
60	2 130	1 872	1 770	60	2 566	2 255	2 132	60	3 308	2 908	2 748
45	1 366	1 118	1 021	45	1 645	1 347	1 229	45	2 121	1 737	1 585
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	3 913	3 584	3 454	80	4 713	4 317	4 160	80	6 077	5 566	5 363
70	3 258	2 935	2 806	70	3 924	3 535	3 380	70	5 060	4 558	4 358
60	2 615	2 298	2 172	60	3 149	2 768	2 616	60	4 060	3 568	3 373
45	1 676	1 372	1 252	45	2 019	1 653	1 509	45	2 603	2 131	1 945

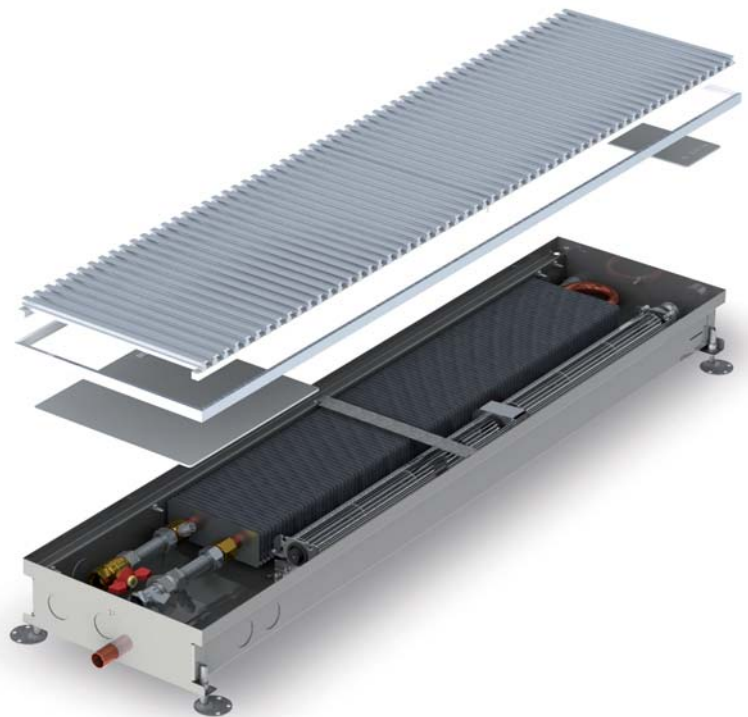
COIL-T085

ELECTRICAL POWER FOR FANS

length	power
900	33 VA
1000	33 VA
1250	33 VA
1500	66 VA
1750	66 VA
2000	66 VA
2500	99 VA
3000	99 VA



TEMPERATURE EXPONENT $m = 1,1523$



Floor convector with a fan for an interior with wet environment with smallest height and width

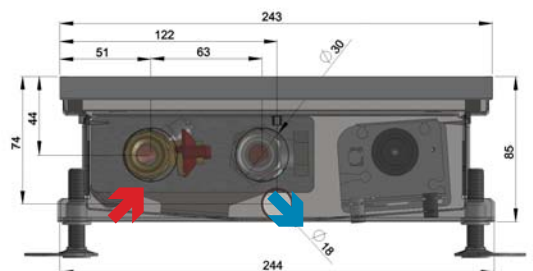
CHARACTERISTICS

- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- safe 12V AC voltage
- suitable primarily for swimming pools
- simple control

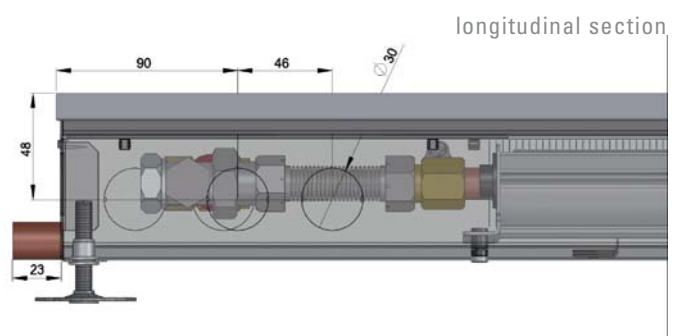
The convector cannot be installed for a swimming pool with salty or otherwise corrosive water.

DIMENSIONS

width	243 mm
structural height	85 mm
length	900 to 3000 mm
connection	G½"



cross-section



longitudinal section



21719*66

THERMAL OUTPUT Q [W]

	Level 1 minimum r.p.m.			Level 2 medium r.p.m.			Level 3 maximum r.p.m.				
	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	669	610	587	80	954	870	837	80	1 085	990	952
70	552	495	472	70	787	705	673	70	895	802	765
60	438	382	360	60	625	545	514	60	711	620	585
45	275	223	202	45	392	317	288	45	445	361	328
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
80	781	712	685	80	1 114	1 015	977	80	1 266	1 155	1 111
70	644	577	550	70	919	823	785	70	1 045	936	893
60	511	446	421	60	729	636	600	60	829	724	682
45	320	260	236	45	457	370	336	45	520	421	383
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
80	1 059	966	929	80	1 511	1 378	1 325	80	1 719	1 567	1 507
70	874	783	747	70	1 247	1 117	1 066	70	1 418	1 270	1 212
60	694	606	571	60	989	864	814	60	1 125	982	926
45	435	352	320	45	620	503	456	45	705	572	519
	length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
80	1 338	1 220	1 174	80	1 909	1 741	1 674	80	2 171	1 980	1 904
70	1 104	989	944	70	1 575	1 411	1 346	70	1 791	1 605	1 531
60	876	765	721	60	1 250	1 091	1 028	60	1 421	1 241	1 170
45	549	445	404	45	783	635	577	45	891	722	656
	length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
80	1 617	1 475	1 418	80	2 307	2 103	2 023	80	2 623	2 392	2 300
70	1 334	1 195	1 140	70	1 903	1 705	1 626	70	2 164	1 939	1 850
60	1 059	924	871	60	1 510	1 318	1 243	60	1 717	1 499	1 413
45	663	538	488	45	946	767	697	45	1 076	872	792
	length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
80	1 896	1 729	1 663	80	2 704	2 466	2 372	80	3 076	2 805	2 697
70	1 564	1 401	1 337	70	2 231	1 999	1 907	70	2 537	2 273	2 169
60	1 241	1 084	1 021	60	1 770	1 546	1 457	60	2 013	1 758	1 657
45	778	630	573	45	1 109	899	817	45	1 262	1 023	929
	length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
80	2 454	2 237	2 152	80	3 500	3 191	3 069	80	3 980	3 629	3 490
70	2 024	1 813	1 730	70	2 887	2 587	2 468	70	3 283	2 942	2 807
60	1 606	1 402	1 322	60	2 291	2 000	1 885	60	2 605	2 275	2 144
45	1 007	816	741	45	1 436	1 164	1 057	45	1 633	1 323	1 202
	length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
80	3 011	2 746	2 641	80	4 295	3 917	3 767	80	4 885	4 454	4 284
70	2 484	2 226	2 123	70	3 543	3 174	3 029	70	4 029	3 610	3 444
60	1 971	1 721	1 622	60	2 812	2 455	2 314	60	3 198	2 792	2 631
45	1 235	1 001	910	45	1 762	1 428	1 297	45	2 004	1 624	1 475

COIL-HC

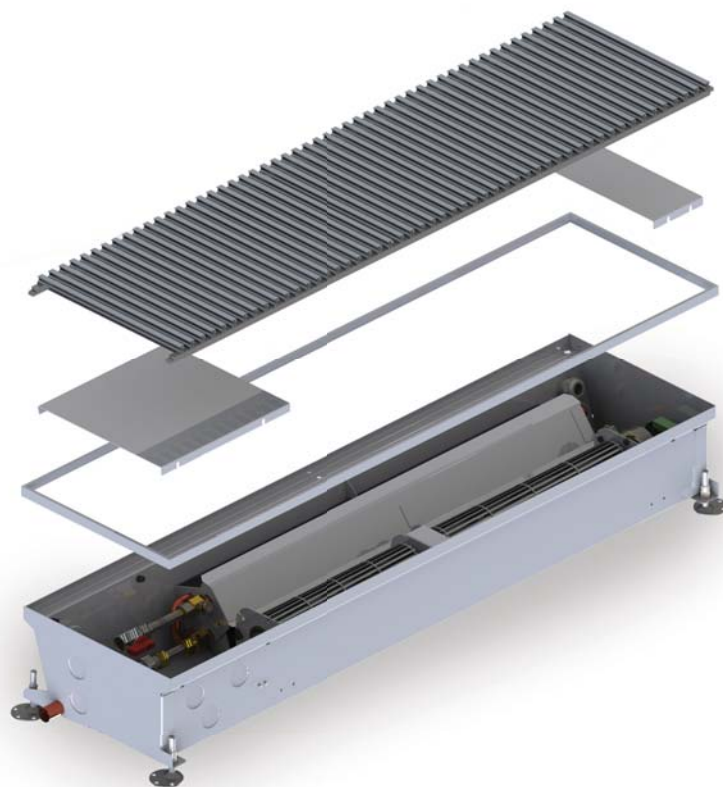
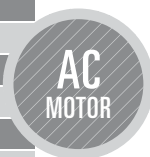
TEMPERATURE EXPONENT FOR HEATING/COOLING
 $m = 1,0456 / 0,864$

ELECTRICAL POWER FOR FANS

length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA
1750	24 VA
2000	36 VA
2500	48 VA
3000	48 VA



length	power
900	32 VA
1000	37 VA
1250	37 VA
1500	64 VA
1750	74 VA
2000	74 VA
2500	106 VA
3000	111 VA



Very efficient single circuit floor convector with a fan for heating and cooling.

Suitable for all types of interiors. This convector is standardly supplied with a DC fan motor or, for use in a wet environment, with an AC motor.

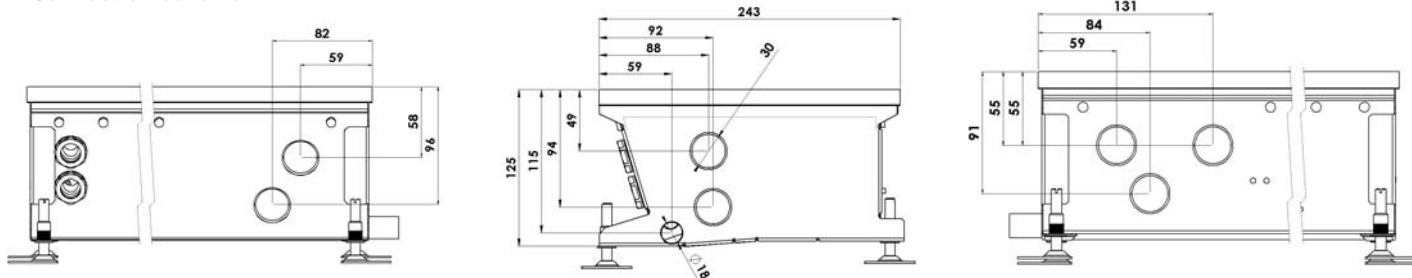
CHARACTERISTICS

- single circuit connection
- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- simple control

DIMENSIONS

width	243 mm
structural height	125 mm
length	900 to 3000 mm
connection	G ³ / ₈ "

Connection scheme





21719*06

THERMAL OUTPUT Q [W]

COOLING OUTPUT Q [W]

	Level 1 min. r.p.m.			Level 2 medium r.p.m.			Level 3 max. r.p.m.					
	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					
mean water temperature t_{wy}	80	1 134	1 043	1 007	80	1 245	1 145	1 105	80	1 493	1 373	1 325
	70	952	862	826	70	1 045	946	907	70	1 253	1 135	1 087
	60	772	683	647	60	848	749	710	60	1 016	898	852
	45	505	418	383	45	555	458	420	45	665	550	504
	length L (mm) 1000			length L (mm) 1000			length L (mm) 1000					
	80	1 323	1 217	1 175	80	1 452	1 336	1 289	80	1 741	1 602	1 546
	70	1 111	1 006	964	70	1 220	1 104	1 058	70	1 462	1 324	1 268
	60	901	796	755	60	989	874	829	60	1 186	1 048	993
	45	590	487	447	45	647	535	490	45	776	641	588
	length L (mm) 1250			length L (mm) 1250			length L (mm) 1250					
	80	1 796	1 652	1 594	80	1 971	1 813	1 750	80	2 363	2 174	2 098
	70	1 508	1 365	1 308	70	1 655	1 498	1 436	70	1 985	1 796	1 721
60	1 223	1 081	1 024	60	1 342	1 187	1 125	60	1 609	1 423	1 348	
45	800	661	606	45	878	726	665	45	1 053	870	798	
length L (mm) 1500			length L (mm) 1500			length L (mm) 1500						
80	2 268	2 086	2 013	80	2 490	2 290	2 210	80	2 985	2 746	2 650	
70	1 905	1 724	1 652	70	2 091	1 893	1 813	70	2 507	2 269	2 174	
60	1 544	1 365	1 294	60	1 695	1 499	1 420	60	2 032	1 797	1 703	
45	1 011	835	765	45	1 109	917	840	45	1 330	1 099	1 007	
length L (mm) 1750			length L (mm) 1750			length L (mm) 1750						
80	2 741	2 521	2 433	80	3 009	2 767	2 671	80	3 607	3 318	3 202	
70	2 302	2 083	1 996	70	2 526	2 287	2 191	70	3 029	2 742	2 627	
60	1 866	1 650	1 564	60	2 048	1 811	1 716	60	2 456	2 171	2 058	
45	1 221	1 009	925	45	1 341	1 108	1 015	45	1 607	1 328	1 217	
length L (mm) 2000			length L (mm) 2000			length L (mm) 2000						
80	3 213	2 955	2 852	80	3 527	3 244	3 131	80	4 229	3 890	3 754	
70	2 698	2 442	2 340	70	2 962	2 681	2 569	70	3 551	3 214	3 080	
60	2 188	1 934	1 833	60	2 401	2 123	2 012	60	2 879	2 546	2 413	
45	1 432	1 183	1 084	45	1 572	1 299	1 190	45	1 884	1 557	1 427	
length L (mm) 2500			length L (mm) 2500			length L (mm) 2500						
80	4 158	3 825	3 691	80	4 565	4 198	4 052	80	5 473	5 034	4 858	
70	3 492	3 161	3 029	70	3 833	3 470	3 325	70	4 596	4 160	3 986	
60	2 831	2 503	2 372	60	3 108	2 748	2 604	60	3 726	3 294	3 122	
45	1 853	1 531	1 403	45	2 034	1 681	1 541	45	2 439	2 015	1 847	
length L (mm) 3000			length L (mm) 3000			length L (mm) 3000						
80	5 104	4 694	4 530	80	5 602	5 153	4 973	80	6 717	6 177	5 962	
70	4 286	3 879	3 717	70	4 704	4 258	4 080	70	5 640	5 105	4 892	
60	3 474	3 072	2 912	60	3 814	3 372	3 196	60	4 573	4 043	3 832	
45	2 274	1 879	1 722	45	2 496	2 063	1 891	45	2 993	2 473	2 267	

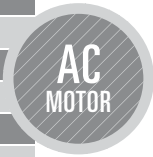
	Level 2 medium r.p.m.				Level 3 max. r.p.m.					
	air temperature t_A				air temperature t_A					
	24	25	26	27	24	25	26	27		
	length L (mm) 900				length L (mm) 900					
mean water temperature t_{wy}	9	306	324	341	359	9	340	360	379	398
	11	271	289	306	324	11	301	321	340	360
	13	234	253	271	289	13	260	281	301	321
	15	197	216	234	253	15	219	240	260	281
	16	178	197	216	234	16	198	219	240	260
	length L (mm) 1000				length L (mm) 1000					
	9	357	378	398	418	9	397	420	442	465
	11	316	337	357	378	11	351	374	397	420
	13	273	295	316	337	13	304	327	351	374
	15	230	252	273	295	15	255	280	304	327
	16	208	230	252	273	16	231	255	280	304
	length L (mm) 1250				length L (mm) 1250					
9	485	513	540	568	9	539	570	600	631	
11	429	457	485	513	11	476	508	539	570	
13	371	400	429	457	13	412	444	476	508	
15	312	342	371	400	15	347	380	412	444	
16	282	312	342	371	16	313	347	380	412	
length L (mm) 1500				length L (mm) 1500						
9	613	648	682	717	9	681	720	758	797	
11	541	577	613	648	11	602	641	681	720	
13	469	505	541	577	13	521	561	602	641	
15	394	431	469	505	15	438	480	521	561	
16	356	394	431	469	16	395	438	480	521	
length L (mm) 1750				length L (mm) 1750						
9	740	783	825	866	9	822	870	916	963	
11	654	697	740	783	11	727	775	822	870	
13	566	610	654	697	13	629	678	727	775	
15	476	521	566	610	15	529	579	629	678	
16	430	476	521	566	16	478	529	579	629	
length L (mm) 2000				length L (mm) 2000						
9	868	917	967	1 016	9	964	1 020	1 074	1 129	
11	767	818	868	917	11	852	908	964	1 020	
13	664	716	767	818	13	738	795	852	908	
15	558	611	664	716	15	620	679	738	795	
16	504	558	611	664	16	560	620	679	738	
length L (mm) 2500				length L (mm) 2500						
9	1 123	1 187	1 251	1 315	9	1 248	1 319	1 390	1 461	
11	992	1 058	1 123	1 187	11	1 103	1 176	1 248	1 319	
13	859	926	992	1 058	13	955	1 029	1 103	1 176	
15	722	791	859	926	15	803	879	955	1 029	
16	652	722	791	859	16	725	803	879	955	
length L (mm) 3000				length L (mm) 3000						
9	1 378	1 457	1 536	1 613	9	1 531	1 619	1 706	1 793	
11	1 218	1 298	1 378	1 457	11	1 353	1 443	1 531	1 619	
13	1 054	1 136	1 218	1 298	13	1 171	1 263	1 353	1 443	
15	886	971	1 054	1 136	15	985	1 079	1 171	1 263	
16	801	886	971	1 054	16	890	985	1 079	1 171	

COIL-HC4pipe

ELECTRICAL POWER FOR FANS



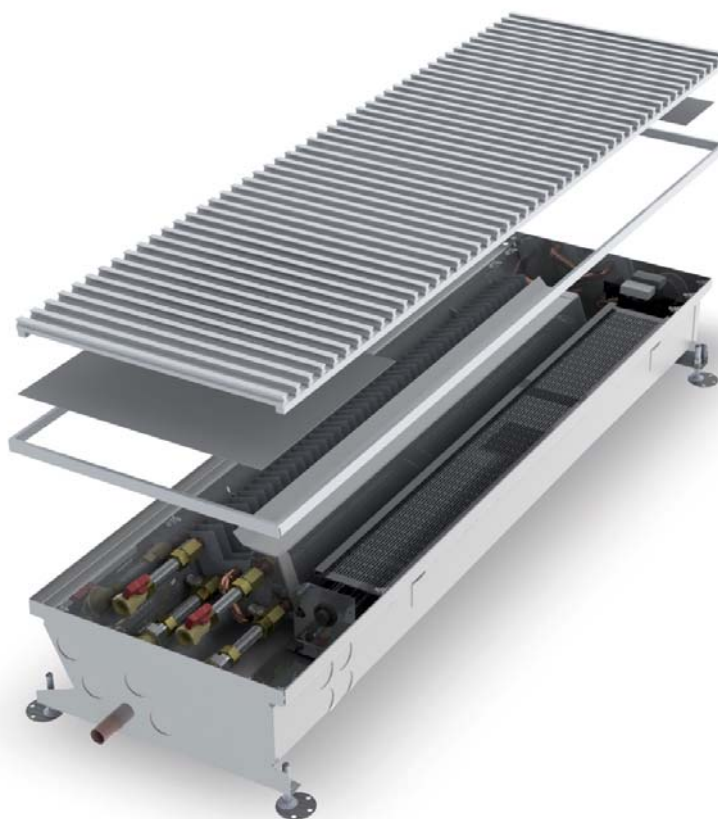
length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA
1750	24 VA
2000	36 VA
2500	48 VA
3000	48 VA



length	power
900	32 VA
1000	37 VA
1250	37 VA
1500	64 VA
1750	74 VA
2000	74 VA
2500	106 VA
3000	111 VA

TEMPERATURE EXPONENT FOR HEATING/COOLING

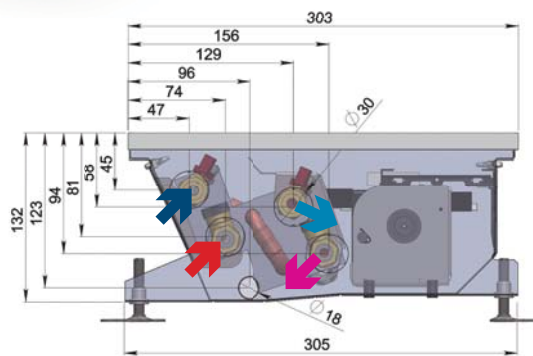
$$m = 1,0864 / 0,907$$



Very efficient two-circuit floor convector with a fan for heating and cooling.

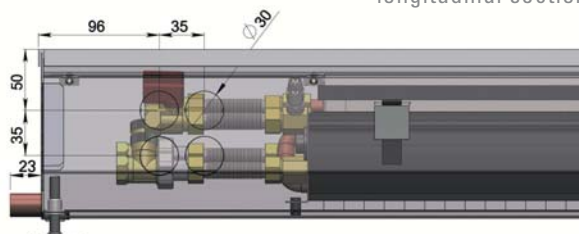
The two-circuit connection permits use of the cooling and heating circuits separately. Consequently, it is suitable for all types of interiors. This convector is supplied as standard with a DC fan motor and, for use in a wet environment, with an AC motor.

- output – heating circuit
- input – cooling circuit
- input – heating circuit
- output – cooling circuit



cross-section

longitudinal section



CHARACTERISTICS

- double circuit connection
- high forced convection output
- rapidly reacting heating/cooling output
- heats even when the fan is turned off
- simple control

DIMENSIONS

width	303 mm
structural height	132 mm
length	900 to 3000 mm
connection	G $\frac{3}{8}$ "



11719*06

THERMAL OUTPUT Q [W]

COOLING OUTPUT Q [W]

	Level 1 min. r.p.m.			Level 2 medium r.p.m.			Level 3 max. r.p.m.					
	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					
80	941	863	832	80	1 029	943	909	80	1 130	1 035	998	
	70	785	708	677	70	858	774	740	70	942	849	813
	60	631	555	525	60	690	607	574	60	758	667	630
	45	406	333	304	45	444	364	333	45	488	400	365
1000	15	20	22	15	20	22	15	20	22			
	length L (mm)			length L (mm)			length L (mm)					
	1000			1000			1000					
	80	1 098	1 007	970	80	1 200	1 100	1 061	80	1 318	1 208	1 164
70	916	826	790	70	1 001	903	863	70	1 099	991	948	
60	736	648	613	60	805	708	670	60	884	778	736	
45	474	389	355	45	518	425	388	45	569	467	426	
1250	15	20	22	15	20	22	15	20	22			
	length L (mm)			length L (mm)			length L (mm)					
	1250			1250			1250					
	80	1 490	1 366	1 317	80	1 629	1 493	1 439	80	1 788	1 640	1 580
70	1 243	1 121	1 072	70	1 359	1 225	1 172	70	1 492	1 345	1 287	
60	1 000	879	832	60	1 092	961	909	60	1 199	1 055	998	
45	643	528	482	45	703	577	527	45	772	633	579	
1500	15	20	22	15	20	22	15	20	22			
	length L (mm)			length L (mm)			length L (mm)					
	1500			1500			1500					
	80	1 883	1 726	1 663	80	2 058	1 886	1 818	80	2 259	2 071	1 996
70	1 570	1 416	1 354	70	1 716	1 547	1 480	70	1 884	1 699	1 625	
60	1 263	1 111	1 051	60	1 380	1 214	1 148	60	1 515	1 333	1 261	
45	813	667	609	45	888	729	666	45	975	800	731	
1750	15	20	22	15	20	22	15	20	22			
	length L (mm)			length L (mm)			length L (mm)					
	1750			1750			1750					
	80	2 275	2 085	2 010	80	2 486	2 279	2 197	80	2 730	2 502	2 412
70	1 897	1 711	1 636	70	2 074	1 870	1 789	70	2 277	2 053	1 964	
60	1 526	1 342	1 270	60	1 667	1 467	1 388	60	1 831	1 611	1 524	
45	982	806	736	45	1 073	880	804	45	1 178	967	883	
2000	15	20	22	15	20	22	15	20	22			
	length L (mm)			length L (mm)			length L (mm)					
	2000			2000			2000					
	80	2 667	2 445	2 356	80	2 915	2 672	2 576	80	3 200	2 934	2 828
70	2 224	2 006	1 919	70	2 431	2 192	2 097	70	2 669	2 407	2 302	
60	1 789	1 574	1 488	60	1 955	1 720	1 627	60	2 146	1 889	1 786	
45	1 151	944	863	45	1 258	1 032	943	45	1 382	1 133	1 035	
2500	15	20	22	15	20	22	15	20	22			
	length L (mm)			length L (mm)			length L (mm)					
	2500			2500			2500					
	80	3 451	3 164	3 049	80	3 772	3 458	3 333	80	4 142	3 797	3 660
70	2 879	2 595	2 483	70	3 146	2 837	2 714	70	3 454	3 115	2 979	
60	2 315	2 037	1 926	60	2 530	2 226	2 105	60	2 778	2 444	2 312	
45	1 490	1 222	1 116	45	1 629	1 336	1 220	45	1 788	1 467	1 340	
3000	15	20	22	15	20	22	15	20	22			
	length L (mm)			length L (mm)			length L (mm)					
	3000			3000			3000					
	80	4 236	3 883	3 743	80	4 630	4 244	4 091	80	5 083	4 660	4 491
70	3 533	3 185	3 047	70	3 861	3 481	3 330	70	4 239	3 822	3 657	
60	2 841	2 500	2 364	60	3 105	2 732	2 584	60	3 409	3 000	2 837	
45	1 829	1 500	1 370	45	1 999	1 640	1 498	45	2 194	1 800	1 644	

	Level 2 medium r.p.m.				Level 3 max. r.p.m.				
	air temperature t_A				air temperature t_A				
	24	25	26	27	24	25	26	27	
	length L (mm)				length L (mm)				
	900				900				
9	314	333	351	370	9	339	359	379	399
11	276	295	314	333	11	297	318	339	359
13	237	256	276	295	13	256	277	297	318
15	197	217	237	256	15	213	234	256	277
16	177	197	217	237	16	191	213	234	256
1000	24	25	26	27	24	25	26	27	
	length L (mm)				length L (mm)				
	1000				1000				
	9	366	388	410	432	9	395	419	443
11	321	344	366	388	11	347	371	395	419
13	276	299	321	344	13	298	323	347	371
15	230	253	276	299	15	249	273	298	323
16	207	230	253	276	16	223	249	273	298
1250	24	25	26	27	24	25	26	27	
	length L (mm)				length L (mm)				
	1250				1250				
	9	497	527	556	586	9	536	568	601
11	436	467	497	527	11	471	504	536	568
13	375	406	436	467	13	405	438	471	504
15	313	344	375	406	15	337	371	405	438
16	281	313	344	375	16	303	337	371	405
1500	24	25	26	27	24	25	26	27	
	length L (mm)				length L (mm)				
	1500				1500				
	9	627	665	703	740	9	677	718	759
11	551	589	627	665	11	595	636	677	718
13	474	512	551	589	13	511	553	595	636
15	395	434	474	512	15	426	469	511	553
16	355	395	434	474	16	383	426	469	511
1750	24	25	26	27	24	25	26	27	
	length L (mm)				length L (mm)				
	1750				1750				
	9	758	804	849	894	9	818	868	917
11	666	712	758	804	11	719	769	818	868
13	572	619	666	712	13	618	668	719	769
15	477	525	572	619	15	515	566	618	668
16	429	477	525	572	16	463	515	566	618
2000	24	25	26	27	24	25	26	27	
	length L (mm)				length L (mm)				
	2000				2000				
	9	889	942	996	1 049	9	959	1 017	1 075
11	781	835	889	942	11	843	901	959	1 017
13	671	726	781	835	13	724	784	843	901
15	559	615	671	726	15	604	664	724	784
16	503	559	615	671	16	542	604	664	724
2500	24	25	26	27	24	25	26	27	
	length L (mm)				length L (mm)				
	2500				2500				
	9	1 150	1 220	1 289	1 357	9	1 241	1 316	1 391
11	1 010	1 081	1 150	1 220	11	1 090	1 166	1 241	1 316
13	868	940	1 010	1 081	13	937	1 014	1 090	1 166
15	724	796	868	940	15	781	859	937	1 014
16	650	724	796	868	16	702	781	859	937
3000	24	25	26	27	24	25	26	27	
	length L (mm)				length L (mm)				
	3000				3000				
	9	1 412	1 497	1 581	1 666	9	1 524	1 615	1 707
11	1 240	1 326	1 412	1 497	11	1 338	1 431	1 524	1 615
13	1 066	1 153	1 240	1 326	13	1 150	1 244	1 338	1 431
15	888	977	1 066	1 153	15	959	1 055	1 150	1 244
16	798	888	977	1 066	16	862	959	1 055	1 150

COIL-HCM

ELECTRICAL POWER FOR FANS

length	power
900	26 VA
1000	51 VA
1250	51 VA
1500	51 VA
1750	76 VA
2000	76 VA



TEMPERATURE EXPONENT FOR HEATING/COOLING

$$m = 0,9738/ 1$$



Most efficient floor convector of the MINIB company

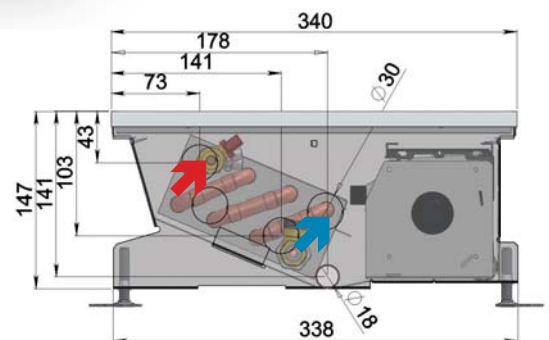
Suitable for interiors with requirements of high heating output or for cooling

CHARACTERISTICS

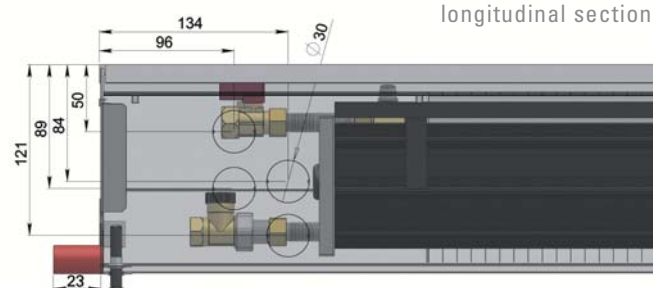
- single circuit connection
- rapidly reacting heating unit
- heats even when the fan is turned off
- very high forced convection heating efficiency
- safe 12 V DC voltage
- simple control

DIMENSIONS

width	340 mm
structural height	147 mm
length	900 to 2000 mm
connection	G $\frac{3}{8}$ "



cross-section



longitudinal section



719*66

THERMAL OUTPUT Q [W]

COOLING OUTPUT Q [W]

	Level 1 min. r.p.m.			Level 2 medium r.p.m.			Level 3 max. r.p.m.						
	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					
mean water temperature t_w	80	1 999	1 849	1 789	80	2 424	2 243	2 170	80	3 008	2 782	2 692	
		70	1 699	1 549	1 488	70	2 060	1 878	1 805	70	2 556	2 330	2 239
		60	1 398	1 246	1 185	60	1 695	1 511	1 437	60	2 103	1 875	1 783
		45	942	788	727	45	1 142	956	882	45	1 417	1 186	1 094
	1000	80	2 332	2 158	2 088	80	2 828	2 616	2 531	80	3 509	3 246	3 141
		70	1 982	1 807	1 736	70	2 404	2 191	2 105	70	2 982	2 718	2 612
		60	1 630	1 454	1 383	60	1 977	1 763	1 677	60	2 453	2 187	2 081
		45	1 099	920	848	45	1 332	1 115	1 028	45	1 653	1 384	1 276
	1250	80	3 166	2 928	2 833	80	3 839	3 551	3 435	80	4 762	4 405	4 262
		70	2 690	2 452	2 356	70	3 262	2 973	2 857	70	4 047	3 689	3 545
		60	2 213	1 973	1 877	60	2 683	2 392	2 276	60	3 329	2 968	2 824
		45	1 491	1 248	1 151	45	1 808	1 514	1 396	45	2 243	1 878	1 732
1500	80	3 999	3 699	3 579	80	4 849	4 485	4 339	80	6 016	5 565	5 384	
	70	3 398	3 097	2 976	70	4 121	3 755	3 609	70	5 113	4 659	4 478	
	60	2 795	2 492	2 371	60	3 389	3 022	2 875	60	4 205	3 749	3 567	
	45	1 883	1 577	1 454	45	2 284	1 912	1 763	45	2 833	2 372	2 187	
1750	80	4 832	4 469	4 324	80	5 859	5 420	5 244	80	7 269	6 724	6 506	
	70	4 106	3 742	3 596	70	4 979	4 538	4 361	70	6 178	5 630	5 411	
	60	3 377	3 011	2 865	60	4 095	3 652	3 474	60	5 081	4 531	4 310	
	45	2 276	1 905	1 757	45	2 759	2 311	2 130	45	3 424	2 867	2 643	
2000	80	5 665	5 240	5 070	80	6 869	6 354	6 148	80	8 522	7 883	7 627	
	70	4 814	4 387	4 216	70	5 838	5 320	5 113	70	7 243	6 601	6 344	
	60	3 960	3 531	3 359	60	4 801	4 281	4 073	60	5 957	5 312	5 053	
	45	2 668	2 234	2 060	45	3 235	2 709	2 498	45	4 014	3 361	3 099	

	Level 2 medium r.p.m.				Level 3 max. r.p.m.						
	air temperature t_A				air temperature t_A						
	24	25	26	27	24	25	26	27			
	length L (mm)	900			length L (mm)	900					
mean water temperature t_w	9	571	609	647	685	9	666	711	755	800	
	11	495	533	571	609	11	578	622	666	711	
	13	419	457	495	533	13	489	533	578	622	
	15	342	381	419	457	15	400	444	489	533	
	16	304	342	381	419	16	355	400	444	489	
	1000	9	666	710	755	799	9	778	829	881	933
		11	577	622	666	710	11	674	726	778	829
		13	488	533	577	622	13	570	622	674	726
		15	400	444	488	533	15	467	518	570	622
	16	355	400	444	488	16	415	467	518	570	
	1250	9	904	964	1 024	1 084	9	1 055	1 126	1 196	1 266
		11	783	843	904	964	11	915	985	1 055	1 126
13		663	723	783	843	13	774	844	915	985	
15		542	602	663	723	15	633	703	774	844	
16	482	542	602	663	16	563	633	703	774		
1500	9	1 142	1 218	1 294	1 370	9	1 333	1 422	1 511	1 599	
	11	989	1 065	1 142	1 218	11	1 155	1 244	1 333	1 422	
	13	837	913	989	1 065	13	977	1 066	1 155	1 244	
	15	685	761	837	913	15	800	889	977	1 066	
16	609	685	761	837	16	711	800	889	977		
1750	9	1 379	1 471	1 563	1 655	9	1 611	1 718	1 825	1 933	
	11	1 195	1 287	1 379	1 471	11	1 396	1 503	1 611	1 718	
	13	1 012	1 104	1 195	1 287	13	1 181	1 288	1 396	1 503	
	15	828	920	1 012	1 104	15	966	1 074	1 181	1 288	
16	736	828	920	1 012	16	859	966	1 074	1 181		
2000	9	1 617	1 725	1 833	1 941	9	1 888	2 014	2 140	2 266	
	11	1 402	1 509	1 617	1 725	11	1 637	1 762	1 888	2 014	
	13	1 186	1 294	1 402	1 509	13	1 385	1 511	1 637	1 762	
	15	970	1 078	1 186	1 294	15	1 133	1 259	1 385	1 511	
16	863	970	1 078	1 186	16	1 007	1 133	1 259	1 385		

COIL-HCM4pipe

ELECTRICAL POWER FOR FANS



length	power
900	26 VA
1000	51 VA
1250	51 VA
1500	51 VA
1750	76 VA
2000	76 VA

TEMPERATURE EXPONENT FOR HEATING/COOLING

$$m = 1,0592 / 1$$



Most efficient floor convector of the MINIB range with two-circuit separated system for the heating and cooling circuit.

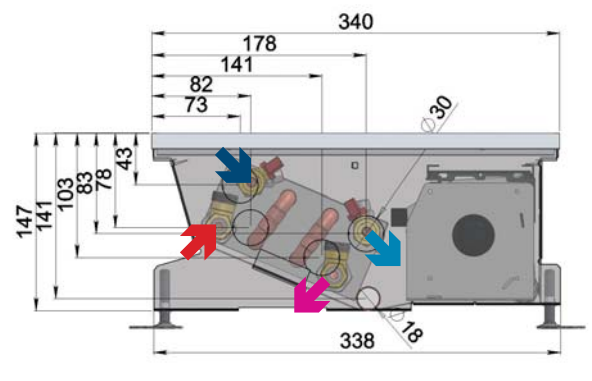
The two-circuit connection permits use of the heating and cooling circuits separately.

CHARACTERISTICS

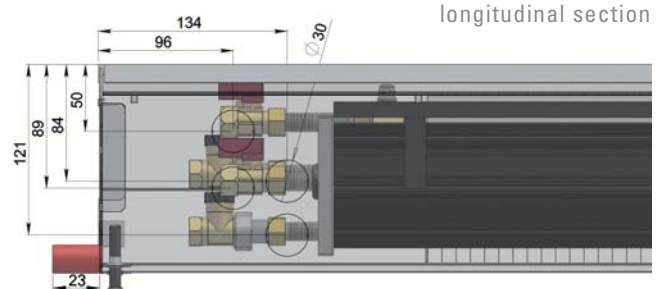
- two-circuit connection
- rapidly reacting heating unit
- heats even when the fan is turned off
- very high forced convection heating efficiency
- safe 12 V DC voltage
- simple control

DIMENSIONS

width	340 mm
structural height	147 mm
length	900 to ~2000 mm
connection	G $\frac{3}{8}$ "



cross-section



longitudinal section



719*66

THERMAL OUTPUT Q [W]

COOLING OUTPUT Q [W]

	Level 1 min. r.p.m.			Level 2 medium r.p.m.			Level 3 max. r.p.m.					
	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				
mean water temperature t_w	80	1 110	1 020	984	80	1 242	1 141	1 101	80	1 396	1 283	1 237
	70	930	841	805	70	1 040	941	901	70	1 170	1 057	1 013
	60	752	664	629	60	841	743	703	60	946	835	791
	45	490	404	369	45	548	451	413	45	616	507	465
		15	20	22		15	20	22		15	20	22
		length L (mm)	1000		length L (mm)	1000		length L (mm)	1000			
	80	1 295	1 190	1 148	80	1 449	1 331	1 284	80	1 629	1 496	1 444
	70	1 085	981	940	70	1 214	1 097	1 051	70	1 365	1 234	1 181
	60	877	775	734	60	981	866	821	60	1 103	974	922
	45	672	571	531	45	752	639	594	45	845	718	668
		15	20	22		15	20	22		15	20	22
		length L (mm)	1250		length L (mm)	1250		length L (mm)	1250			
80	1 758	1 615	1 558	80	1 966	1 806	1 743	80	2 210	2 031	1 959	
70	1 473	1 331	1 275	70	1 647	1 489	1 426	70	1 852	1 674	1 603	
60	1 191	1 051	996	60	1 332	1 176	1 114	60	1 497	1 322	1 252	
45	775	639	585	45	867	715	654	45	975	803	736	
	15	20	22		15	20	22		15	20	22	
	length L (mm)	1500		length L (mm)	1500		length L (mm)	1500				
80	2 221	2 040	1 968	80	2 484	2 282	2 201	80	2 792	2 565	2 475	
70	1 861	1 682	1 611	70	2 081	1 881	1 801	70	2 339	2 115	2 025	
60	1 504	1 328	1 258	60	1 682	1 485	1 407	60	1 891	1 670	1 581	
45	979	807	739	45	1 095	903	826	45	1 231	1 015	929	
	15	20	22		15	20	22		15	20	22	
	length L (mm)	1750		length L (mm)	1750		length L (mm)	1750				
80	2 683	2 465	2 378	80	3 001	2 757	2 660	80	3 374	3 100	2 990	
70	2 248	2 032	1 946	70	2 514	2 273	2 177	70	2 827	2 555	2 447	
60	1 818	1 604	1 520	60	2 033	1 795	1 700	60	2 285	2 017	1 911	
45	1 183	975	893	45	1 323	1 091	999	45	1 488	1 226	1 123	
	15	20	22		15	20	22		15	20	22	
	length L (mm)	2000		length L (mm)	2000		length L (mm)	2000				
80	3 146	2 890	2 788	80	3 519	3 233	3 119	80	3 956	3 634	3 506	
70	2 636	2 383	2 282	70	2 948	2 665	2 552	70	3 314	2 996	2 869	
60	2 131	1 881	1 782	60	2 383	2 104	1 993	60	2 680	2 365	2 240	
45	1 387	1 143	1 047	45	1 551	1 279	1 171	45	1 744	1 438	1 316	

	Level 2 medium r.p.m.				Level 3 max. r.p.m.					
	air temperature t_A				air temperature t_A					
	24	25	26	27	24	25	26	27		
	length L (mm)	900			length L (mm)	900				
mean water temperature t_w	9	479	511	543	575	9	624	666	708	749
	11	415	447	479	511	11	541	583	624	666
	13	351	383	415	447	13	458	499	541	583
	15	287	319	351	383	15	375	416	458	499
	16	255	287	319	351	16	333	375	416	458
		24	25	26	27		24	25	26	27
		length L (mm)	1000			length L (mm)	1000			
	9	559	596	633	670	9	728	777	826	874
	11	484	521	559	596	11	631	680	728	777
	13	410	447	484	521	13	534	583	631	680
	15	335	372	410	447	15	437	486	534	583
	16	298	335	372	410	16	388	437	486	534
	24	25	26	27		24	25	26	27	
	length L (mm)	1250			length L (mm)	1250				
9	758	809	859	910	9	989	1 054	1 120	1 186	
11	657	708	758	809	11	857	923	989	1 054	
13	556	606	657	708	13	725	791	857	923	
15	455	505	556	606	15	593	659	725	791	
16	404	455	505	556	16	527	593	659	725	
	24	25	26	27		24	25	26	27	
	length L (mm)	1500			length L (mm)	1500				
9	958	1 021	1 085	1 149	9	1 249	1 332	1 415	1 498	
11	830	894	958	1 021	11	1 082	1 165	1 249	1 332	
13	702	766	830	894	13	916	999	1 082	1 165	
15	575	638	702	766	15	749	832	916	999	
16	511	575	638	702	16	666	749	832	916	
	24	25	26	27		24	25	26	27	
	length L (mm)	1750			length L (mm)	1750				
9	1 157	1 234	1 311	1 389	9	1 509	1 609	1 710	1 811	
11	1 003	1 080	1 157	1 234	11	1 308	1 408	1 509	1 609	
13	849	926	1 003	1 080	13	1 106	1 207	1 308	1 408	
15	694	771	849	926	15	905	1 006	1 106	1 207	
16	617	694	771	849	16	805	905	1 006	1 106	
	24	25	26	27		24	25	26	27	
	length L (mm)	2000			length L (mm)	2000				
9	1 357	1 447	1 538	1 628	9	1 769	1 887	2 005	2 123	
11	1 176	1 266	1 357	1 447	11	1 533	1 651	1 769	1 887	
13	995	1 085	1 176	1 266	13	1 297	1 415	1 533	1 651	
15	814	904	995	1 085	15	1 061	1 179	1 297	1 415	
16	724	814	904	995	16	943	1 061	1 179	1 297	

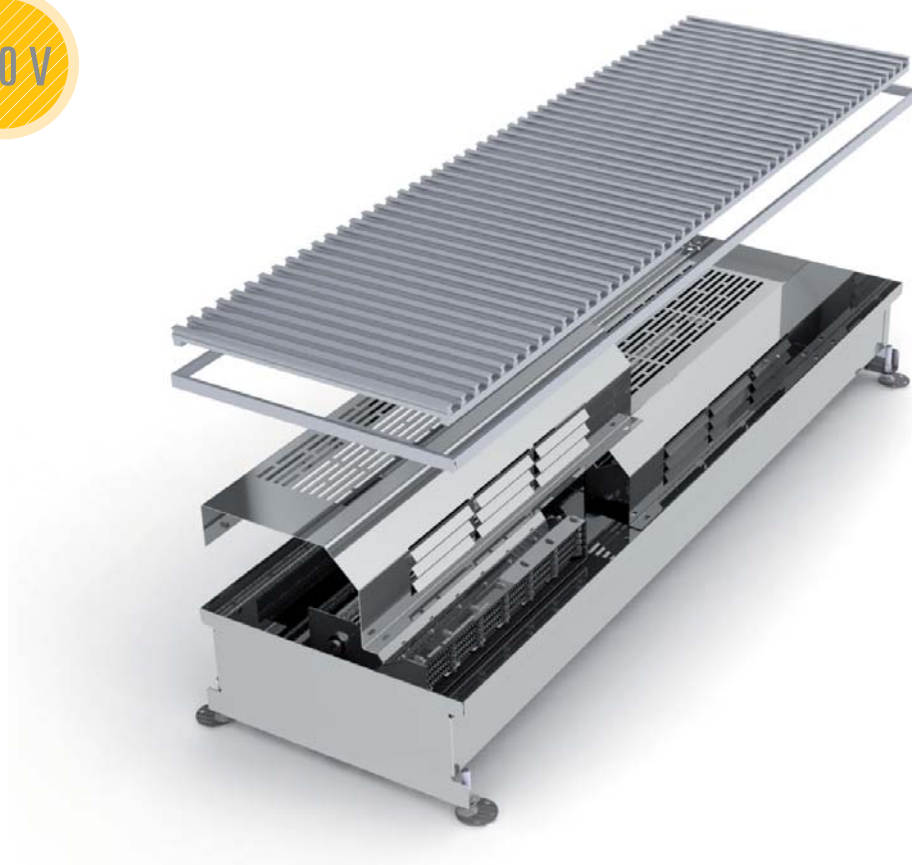
COIL-TE

11719*66



THERMAL OUTPUT

length	Q (W)
500	750
1000	1500
1500	2250
2000	3000
2500	3750



Direct convector heater
with a fan with 230 V
connection

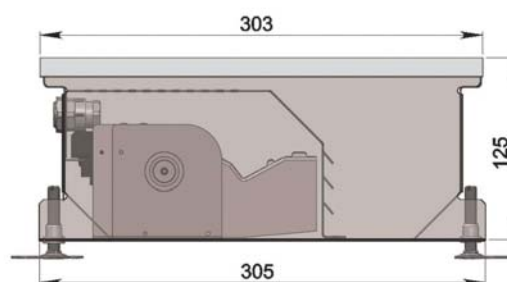
CHARACTERISTICS

- high power
- very short reaction time
- suitable for interiors where there is no hot water supply
- unsuitable for wooden interiors and wooden structures

DIMENSIONS

width	303 mm
structural height	125 mm
length	500 to 2500 mm

cross-section

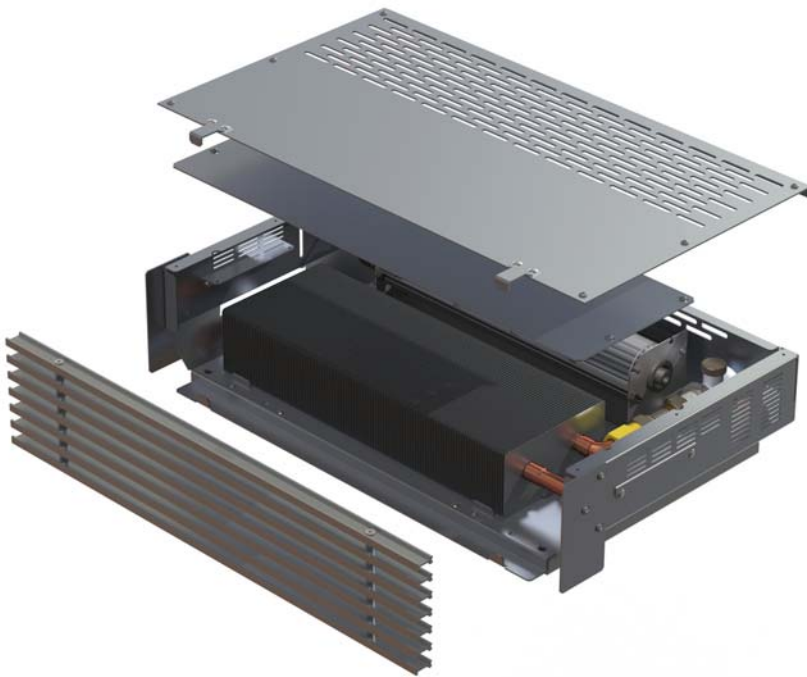




COIL-SK

THERMAL OUTPUT

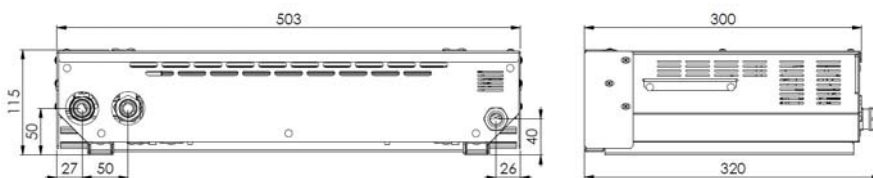
DC MOTOR	length	power
	500	7,2 VA



Wainscoting convector with fan

For multi-purpose use in kitchen counters, stairway steps, wainscoting in bathrooms, hall closets and other similar areas.

Connection scheme



CHARACTERISTICS

- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when fan turned off
- low electrical energy consumption
- safe 12V DC voltage
- simple control
- inlet/outlet are at the front of unit

DIMENSIONS

width	320 mm
structural height	115 mm
length	503 mm
connection	G½"

mean water temperature t_w	Level 1 min. r.p.m.			Level 2 medium r.p.m.			Level 3 max. r.p.m.				
	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)				
80	456	422	408	80	481	444	430	80	620	573	554
70	387	352	338	70	408	371	356	70	525	478	459
60	317	282	268	60	334	297	283	60	431	383	364
45	212	177	163	45	224	187	172	45	288	241	222

COIL-KP

ELECTRICAL POWER FOR FANS

length	power
900	12 VA
1000	12 VA
1250	24 VA
1500	24 VA



TEMPERATURE EXPONENT $m = 1,0365$



Windowsill convector with a fan

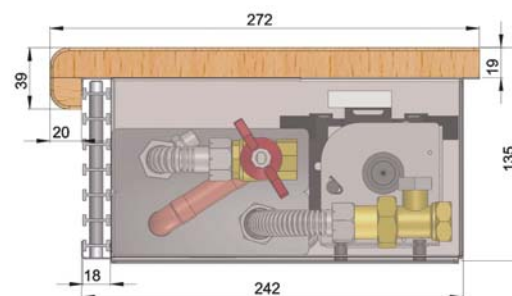
Suitable for use in windowsills according to the given dimensions

CHARACTERISTICS

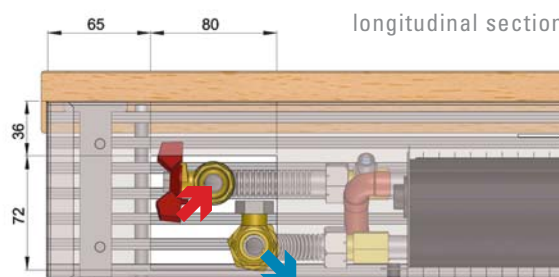
- high forced convection heating efficiency
- rapidly reacting heating unit
- heats even when the fan is turned off
- low electrical energy consumption
- safe 12V DC power
- simple control

DIMENSIONS

width	272 mm
structural height	135 mm
length	900 to 1500 mm
connection	G½"



cross-section



longitudinal section

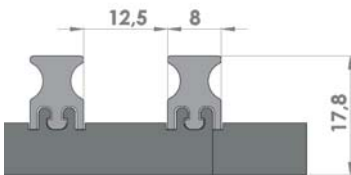


THERMAL OUTPUT Q [W]

		Level 1 min. r.p.m.			Level 2 medium r.p.m.			Level 3 max. r.p.m.					
		air temperature t_A			air temperature t_A			air temperature t_A					
		15	20	22	15	20	22	15	20	22			
mean water temperature t_w	900	length L (mm)			length L (mm)			length L (mm)					
		900			900			900					
		80	986	907	876	80	1 235	1 136	1 097	80	1 525	1 404	1 355
		70	829	751	720	70	1 038	941	902	70	1 282	1 162	1 114
	60	673	596	565	60	843	746	708	60	1 042	922	874	
	45	442	366	336	45	554	459	421	45	684	566	520	
	1000	length L (mm)			length L (mm)			length L (mm)					
		1000			1000			1000					
		80	1 150	1 059	1 022	80	1 441	1 326	1 280	80	1 779	1 637	1 581
		70	967	876	840	70	1 212	1 098	1 052	70	1 496	1 355	1 299
	60	786	695	659	60	984	871	826	60	1 215	1 076	1 020	
	45	516	427	392	45	646	535	491	45	798	661	606	
	1250	length L (mm)			length L (mm)			length L (mm)					
		1250			1250			1250					
		80	1 561	1 437	1 387	80	1 955	1 799	1 737	80	2 414	2 222	2 146
		70	1 313	1 189	1 140	70	1 644	1 490	1 428	70	2 031	1 840	1 763
	60	1 066	944	895	60	1 335	1 182	1 121	60	1 649	1 460	1 384	
	45	700	580	532	45	877	726	666	45	1 083	897	823	
	1500	length L (mm)			length L (mm)			length L (mm)					
		1500			1500			1500					
80		1 972	1 815	1 752	80	2 469	2 273	2 194	80	3 050	2 807	2 710	
70		1 658	1 502	1 440	70	2 077	1 882	1 804	70	2 565	2 324	2 227	
60	1 347	1 192	1 130	60	1 687	1 493	1 416	60	2 083	1 844	1 748		
45	885	732	672	45	1 108	917	841	45	1 368	1 133	1 039		

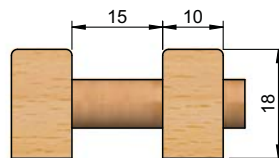
*Grilles

1| SEGMENTED – AL



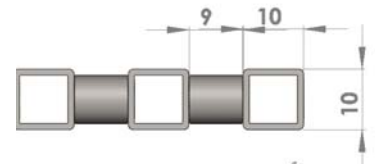
P, P80,PT, PT80, PT105, PT4, PT180, PT300,PO, PO4, KT, MT, KT110, KO, MO, KT1, HC4pipe, TE

5| SEGMENTED – WOOD SPARSE



P, P80,PT, PT80, PT105, PT4, PT180, PT300, KT, MT, KT110, KT1

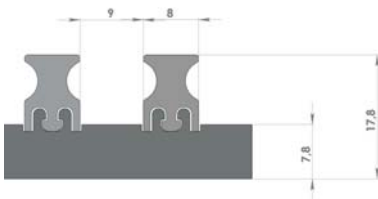
9|* ROLLABLE – STAINLESS STEEL



ALL except T50

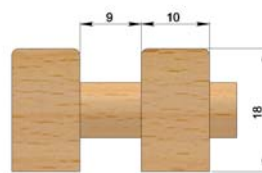
*this grille must be ordered together with the convector

2| SEGMENTED – AL



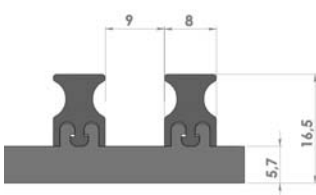
KT3, KT3 105, T80, T085, HC

6| SEGMENTED – WOOD DENSE



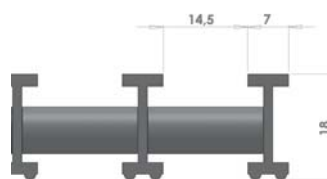
KT3, KT3 105, T80

3| SEGMENTED – AL



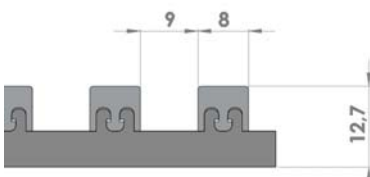
T60

7| ROLLABLE – ALUMINIUM DENSE/ SPARSE



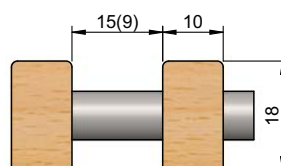
P, P80,PT, PT80, PT105, PT4, PT180, PT300,PO, PO4, PMW90, PMW125, PMW165, PMW205, KT, MT, KT110, KO, MO, KT1, KT3, KT3 105, T80, T085, KT2, KO2, HC, HC4pipe, HCM, HCM4pipe, TE.

4| SEGMENTED – AL



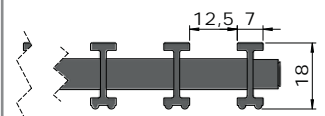
T50, KT0

8| ROLLABLE – WOOD DENSE/SPARSE



P, P80,PT, PT80, PT105, PT4, PT180, PT300, PMW90, PMW125, PMW165, PMW205, KT, MT, KT110, KT1, KT3, KT3 105, T80, KT2.

AL LONGITUDINAL



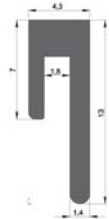
A longitudinal grille can be supplied following prior agreement or consultation. (Only in Al version.) All types of floor convectors require that the trough for use of the longitudinal grille be adjusted in height (to support the grille) and that the inner part of the convector be shifted. The longitudinal grille must be ordered together with the convector or this variant must be anticipated in advance in the order.

Frames

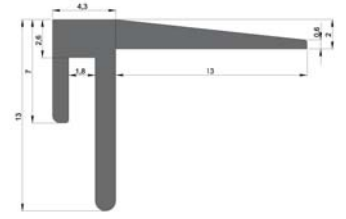
EXAMPLES OF FRAMES

(the shades of grilles and frames in the photographs are only illustrative)

Standard frame with wooden grille



Covering frame with aluminium grille



Grilles

MATERIAL OF WALKABLE FLOOR GRILLES

(the shades in the photographs are only illustrative)

OAK/WOOD



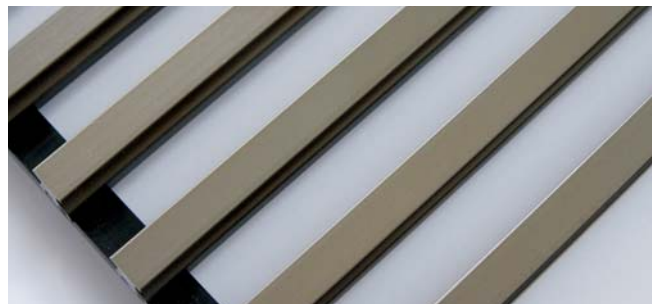
MAPLE/WOOD



BEECH/WOOD



DARK BRONZE/ALUMINIUM (AL)



LIGHT BRONZE/ALUMINIUM (AL)



SILVER/ALUMINIUM (AL)



Physical properties

ACOUSTIC PRESSURE

The experimental and calculated values of the acoustic pressure (noise) were obtained by measuring selected MINIB convectors samples at a distance of 1 m from the measured object at an angle of 45° from the floor. The convector was fixed in the floor with concrete in an acoustically hard room. When the convector is installed for example in a residential room with furniture or a carpet, a subsequent noise level of 1 to 2 dB lower than that given here can be considered because of the noise absorptivity of the furnished area. For completeness, we point out that the noise of a personal computer in the same room was also measured for comparison and the determined noise level corresponded to 40.8 dB.

It follows from the given approximate graphical dependences, which are depicted separately in each case for a certain group of convectors, that the minimum r.p.m. 1 and medium r.p.m. 2 of the fan conform in all cases to the requirements of the standard for day (to 40 dB) and night (to 30 dB) operation for all convector lengths. Consequently, we recommend planning MINIB convectors for r.p.m. 2, i.e. medium revolutions of the fan. For areas with requirements on noise minimization or where a larger number of convectors are located, we recommend that the convectors be planned for minimum convector revolutions, 1, where the acoustic pressure is negligible if the convector is properly installed, compared to the normal noise background in the interior.

TYPICAL AIR FLOW RATE OF MINIB CONVECTORS, m³/h

fan wheel diameter	convector length	low r.p.m.	medium r.p.m.	max. r.p.m.
30 mm	1000 mm	100	120	250
50 mm	1000 mm	200	220	300

Note:

The values of the air flow rate given in the table are valid for a convector length of 1000 mm. For other lengths, multiply these individual flow rates by the relevant convector length in metres (e.g. COIL-KT, with a length of 2500 mm has an air flow rate of 220 x 2.5 = 550 m³/h for medium r.p.m.)

WATER VOLUME IN 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	
heat exchanger water volume, dm ³ (for average pipe diameter of 15 mm)	0,2	0,25	0,3	0,4	0,5	0,6	0,7	0,9	
heat exchanger water volume, dm ³ (for average pipe diameter of 12 mm)	0,13	0,15	0,2	0,25	0,3	0,35	0,4	0,5	

CHARACTERISTICS OF THE REGULATING VALVE ADJUSTMENT (for MINIB convectors)

Adjustment (turns)	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	5,75
Kv [m ³ .h-1]	0	0,09	0,18	0,37	0,54	0,72	0,93	1,13	1,23	1,31	1,35	1,38

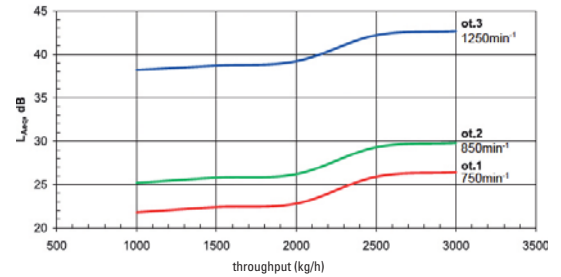
Example of how to determine of the necessary adjustment of the fitting:

Given: Flow rate q = 180 kg/h

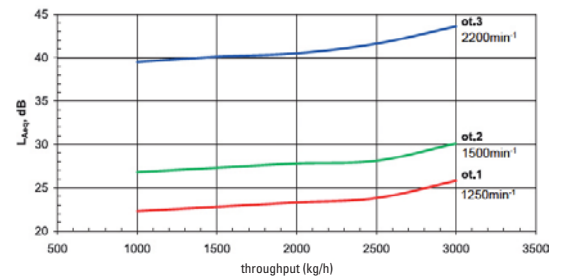
Requirement: Adjusted for differential pressure p – 10,000 Pa

Solution: The required adjustment is the point of intersection of the values plotted on the flow rate axes and the pressure losses. The result is adjustment by 2.5 turns.

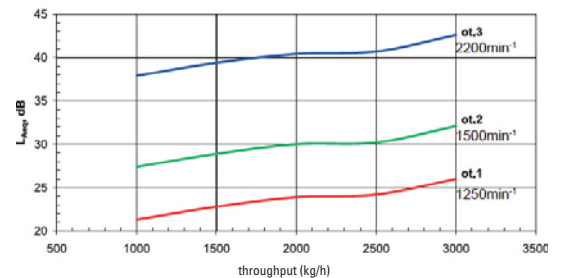
COIL-KT/KO, COIL-MT/MO, KT-2/KO-2, HC-4P



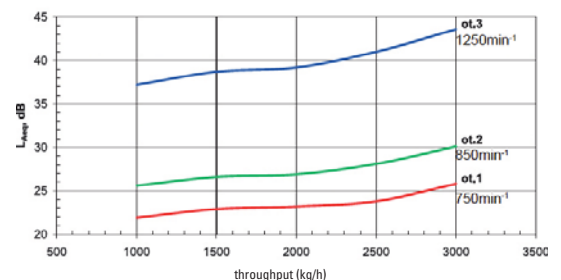
COIL-T50



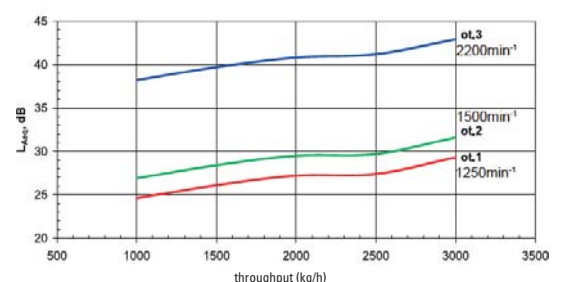
COIL-KT-0



COIL-KT-3, HC, SK-1, NK-2, SK, KP

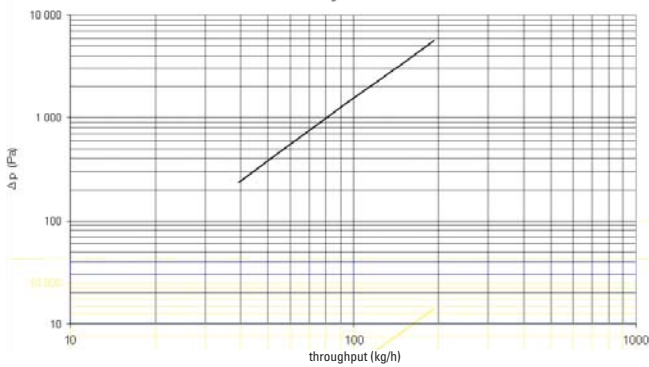


COIL-KT-1

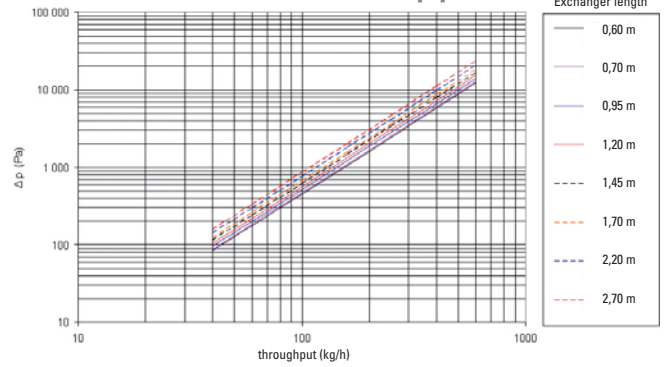


Pressure losses in regulating valves and heat exchangers with 3/8" connection

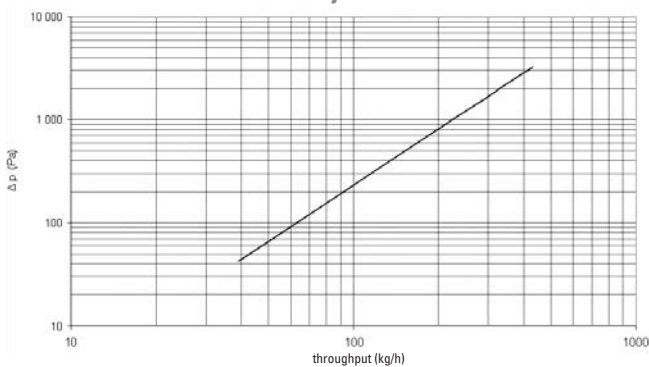
Pressure losses in regulation direct 3/8" screw adjustment



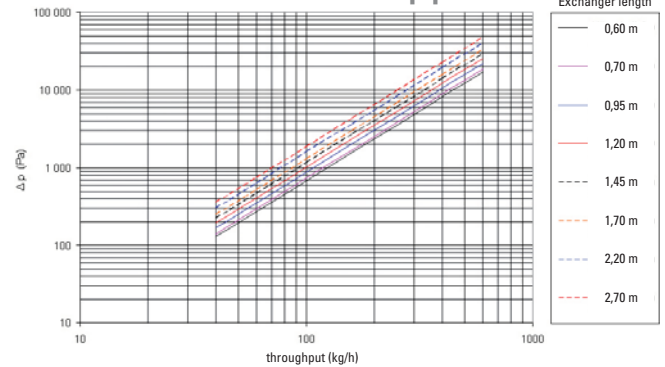
Pressure losses in 2-pipe MINIB heat exchanger Cu Ø 12 mm pipe



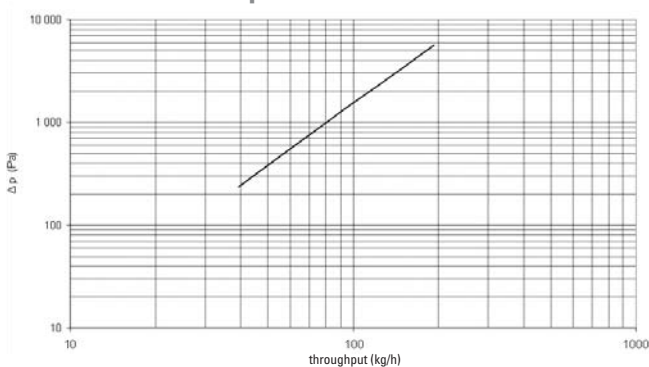
Pressure losses in regulation corner 3/8" screw adjustment



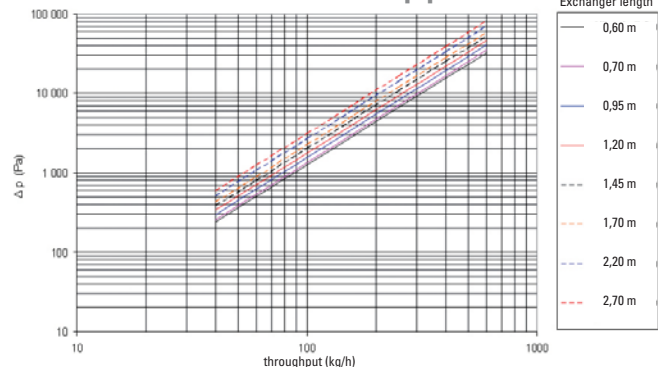
Pressure losses in 4-pipe MINIB heat exchanger Cu Ø 12 mm pipe



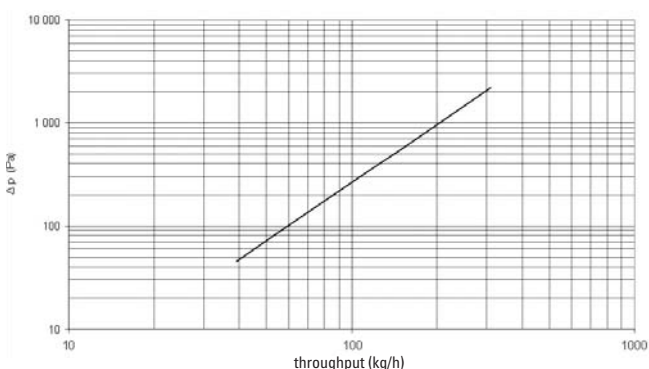
Pressure losses in direct 3/8" spherical valve



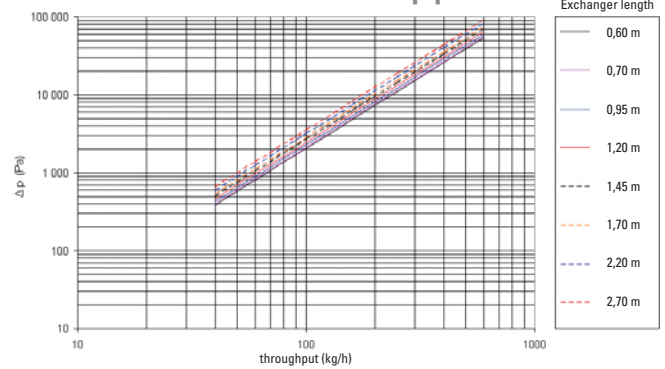
Pressure losses in 6-pipe MINIB heat exchanger Cu Ø 12 mm pipe



Pressure losses in stainless steel pipe AZ 3/8" – 65 mm

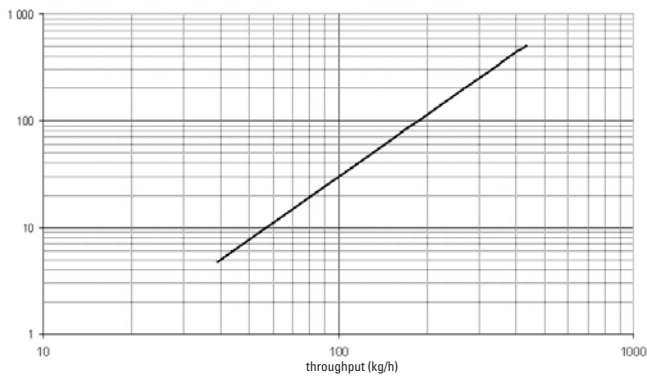


Pressure losses in 8-pipe MINIB heat exchanger Cu Ø 12 mm pipe

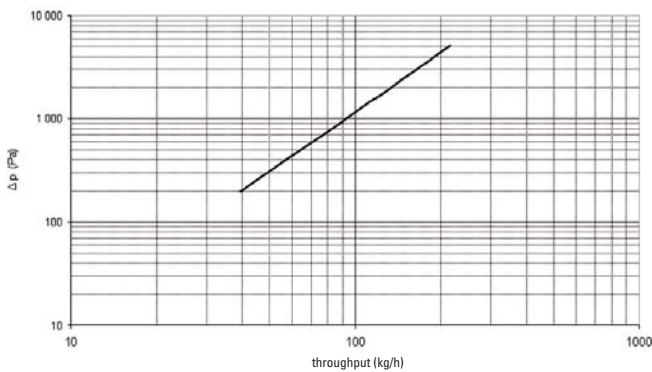


Pressure losses in regulating valves and heat exchangers with 1/2" connection

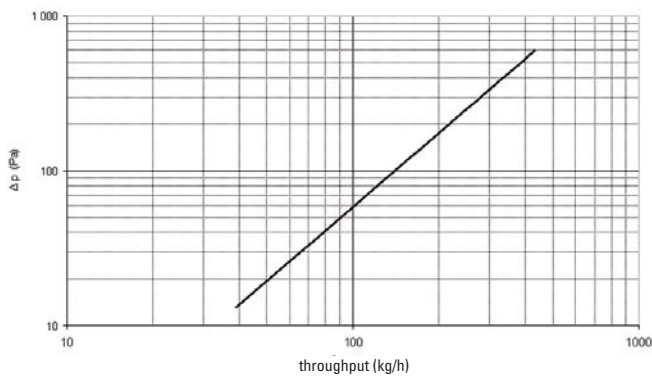
Pressure losses in regulation direct 1/2" spherical valve



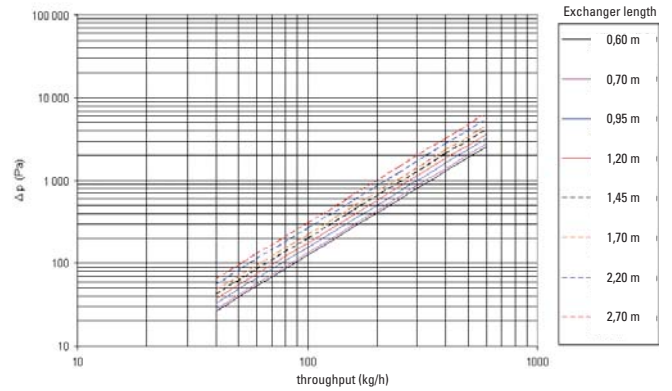
Pressure losses in corner ARCO 1/2" regulation direct screw adjustment



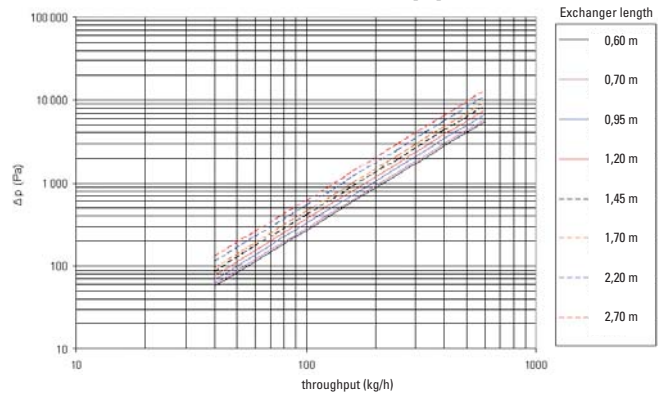
Pressure losses in stainless steel pipe AZ 1/2" - 65 mm



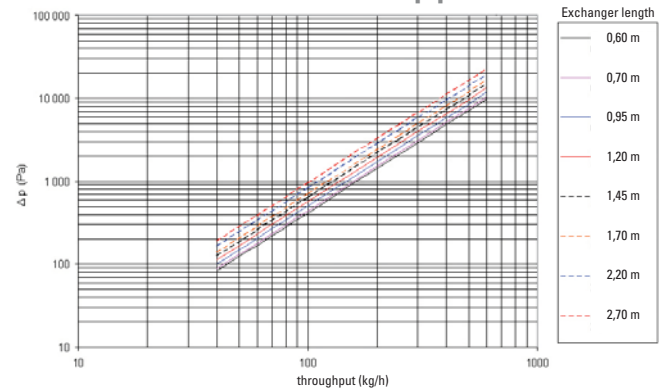
Pressure losses in 2-pipe MINIB heat exchanger Cu Ø 15 mm pipe



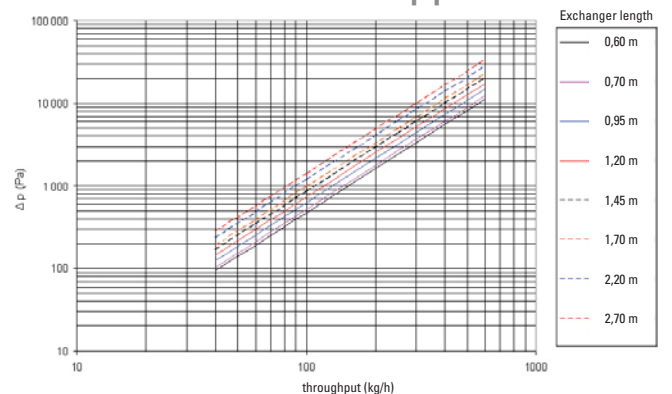
Pressure losses in 4-pipe MINIB heat exchanger Cu Ø 15 mm pipe



Pressure losses in 6-pipe MINIB heat exchanger Cu Ø 15 mm pipe

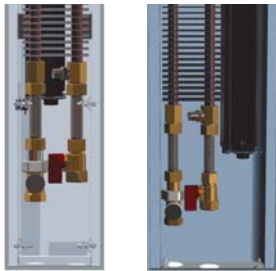


Pressure losses in 8-pipe MINIB heat exchanger Cu Ø 15 mm pipe

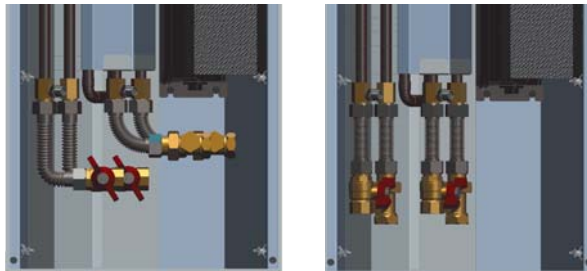


Types of connections

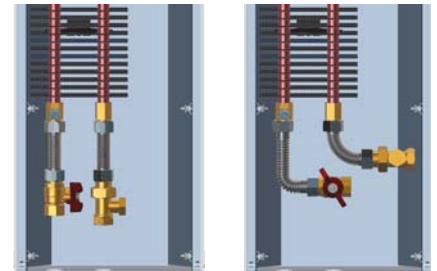
COIL KT0 COIL T50



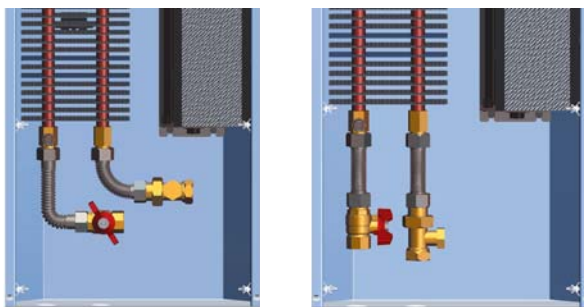
COIL HC 4PIPE – side/straight



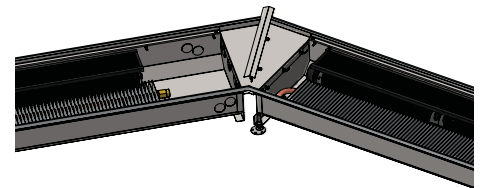
COIL P – straight/side



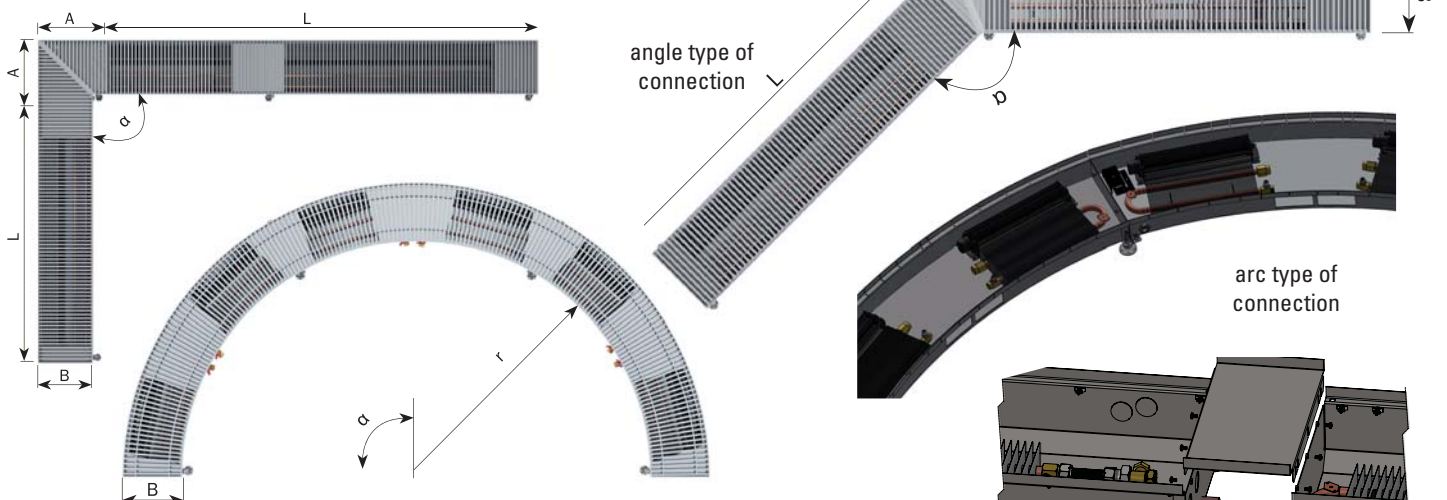
COIL KT – side/straight



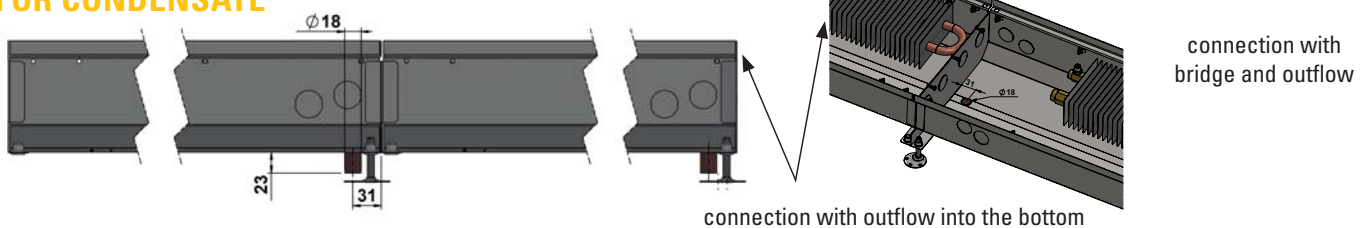
connection to room



POSSIBLE ANGLES AND ARCS OF CONVECTORS

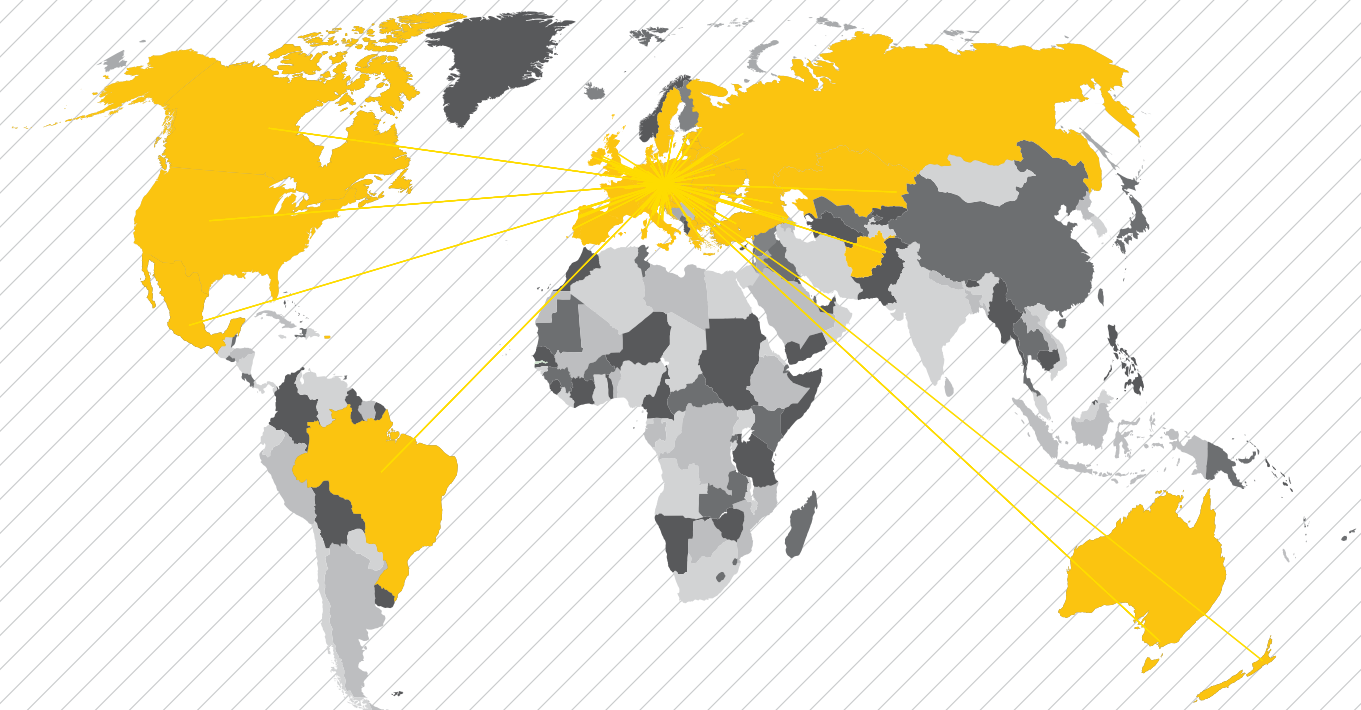


LOCATION OF OPENINGS FOR OUTFLOW FOR CONDENSATE



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●●● more than just heat



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