



## COIL - KT3

### CHARACTERISTICS

- ✘ trough identical with the COIL - P; width 243 mm
- ✘ dry environment heating

### DIMENSIONS

total width	243 mm
construction height	125 mm
length L	900 to 3000 mm

### USAGE

COIL-KT3 is a fast reacting heating unit from the medium power series of MINIB convectors with the 12V fan. The convector COIL-KT3 is an economically advantageous alternative to the COIL-KT unit for applications where heating demands on interior heating are lower and the COIL-KT would be oversized for the space heat losses.

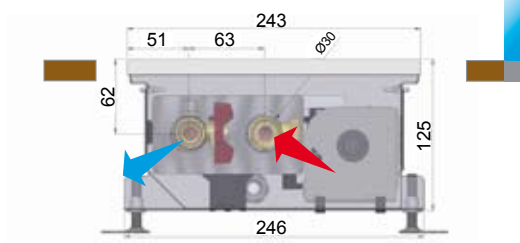
### TEMPERATURE EQUATION

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

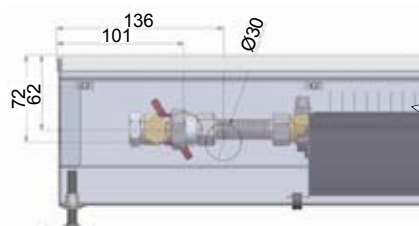
where:

- m=** 1,1059 temperature exponent
- $t_w$  -  $t_A$**  mean heating water temperature, mean air temperature [°C]
- $Q_N$**  nominal heat transfer rate for difference of temperatures  $t_w - t_A = 50$  °C [W]
- Q** heat transfer rate for other temperatures [W]

### CROSS SECTION OF COIL-KT3



### LONGITUDINAL SECTION COIL-KT3



HEAT TRANSFER RATE Q [W] COIL - KT3

		1 min. speed			2 med. speed			3 max. speed				
		length L (mm) <b>900</b>			length L (mm) <b>900</b>			length L (mm) <b>900</b>				
		mean air temperature tA			mean air temperature tA			mean air temperature tA				
		15	20	22	15	20	22	15	20	22		
mean water temperature t <sub>w</sub>	90	911	844	818	90	978	906	878	90	1 137	1 054	1 020
	80	778	712	686	80	835	764	736	80	971	888	856
	70	647	<b>582</b>	556	70	694	<b>625</b>	597	70	807	<b>726</b>	694
	50	392	331	307	50	421	355	329	50	490	413	382
		length L (mm) <b>1000</b>			length L (mm) <b>1000</b>			length L (mm) <b>1000</b>				
		mean air temperature tA			mean air temperature tA			mean air temperature tA				
		15	20	22	15	20	22	15	20	22		
mean water temperature t <sub>w</sub>	90	1 063	985	954	90	1 141	1 057	1 024	90	1 327	1 229	1 190
	80	908	831	800	80	974	891	859	80	1 133	1 037	998
	70	754	<b>679</b>	649	70	810	<b>729</b>	697	70	941	<b>847</b>	810
	50	458	386	358	50	491	414	384	50	571	482	446
		length L (mm) <b>1250</b>			length L (mm) <b>1250</b>			length L (mm) <b>1250</b>				
		mean air temperature tA			mean air temperature tA			mean air temperature tA				
		15	20	22	15	20	22	15	20	22		
mean water temperature t <sub>w</sub>	90	1 443	1 337	1 295	90	1 549	1 435	1 389	90	1 801	1 668	1 616
	80	1 232	1 127	1 086	80	1 322	1 210	1 165	80	1 537	1 407	1 355
	70	1 024	<b>922</b>	881	70	1 099	<b>989</b>	945	70	1 278	<b>1 150</b>	1 099
	50	621	524	485	50	667	562	521	50	775	654	606
		length L (mm) <b>1500</b>			length L (mm) <b>1500</b>			length L (mm) <b>1500</b>				
		mean air temperature tA			mean air temperature tA			mean air temperature tA				
		15	20	22	15	20	22	15	20	22		
mean water temperature t <sub>w</sub>	90	1 823	1 689	1 635	90	1 956	1 812	1 755	90	2 274	2 107	2 041
	80	1 556	1 424	1 372	80	1 670	1 528	1 472	80	1 941	1 777	1 712
	70	1 293	<b>1 164</b>	1 113	70	1 388	<b>1 249</b>	1 194	70	1 614	<b>1 453</b>	1 388
	50	785	662	613	50	842	710	658	50	979	826	765
		length L (mm) <b>1750</b>			length L (mm) <b>1750</b>			length L (mm) <b>1750</b>				
		mean air temperature tA			mean air temperature tA			mean air temperature tA				
		15	20	22	15	20	22	15	20	22		
mean water temperature t <sub>w</sub>	90	2 202	2 041	1 976	90	2 364	2 190	2 121	90	2 748	2 546	2 466
	80	1 880	1 721	1 657	80	2 018	1 847	1 779	80	2 346	2 147	2 068
	70	1 563	<b>1 407</b>	1 344	70	1 677	<b>1 509</b>	1 443	70	1 950	<b>1 755</b>	1 678
	50	948	799	741	50	1 017	858	795	50	1 183	998	924
		length L (mm) <b>2000</b>			length L (mm) <b>2000</b>			length L (mm) <b>2000</b>				
		mean air temperature tA			mean air temperature tA			mean air temperature tA				
		15	20	22	15	20	22	15	20	22		
mean water temperature t <sub>w</sub>	90	2 582	2 392	2 317	90	2 771	2 567	2 486	90	3 222	2 985	2 891
	80	2 204	2 017	1 943	80	2 365	2 165	2 085	80	2 750	2 517	2 425
	70	1 832	<b>1 649</b>	1 576	70	1 966	<b>1 770</b>	1 692	70	2 286	<b>2 058</b>	1 967
	50	1 112	937	868	50	1 193	1 006	932	50	1 387	1 170	1 084
		length L (mm) <b>2500</b>			length L (mm) <b>2500</b>			length L (mm) <b>2500</b>				
		mean air temperature tA			mean air temperature tA			mean air temperature tA				
		15	20	22	15	20	22	15	20	22		
mean water temperature t <sub>w</sub>	90	3 341	3 096	2 998	90	3 586	3 323	3 218	90	4 170	3 863	3 741
	80	2 852	2 611	2 515	80	3 061	2 802	2 699	80	3 559	3 258	3 138
	70	2 371	<b>2 134</b>	2 040	70	2 545	<b>2 290</b>	2 189	70	2 959	<b>2 663</b>	2 545
	50	1 438	1 213	1 124	50	1 544	1 302	1 206	50	1 795	1 514	1 402
		length L (mm) <b>3000</b>			length L (mm) <b>3000</b>			length L (mm) <b>3000</b>				
		mean air temperature tA			mean air temperature tA			mean air temperature tA				
		15	20	22	15	20	22	15	20	22		
mean water temperature t <sub>w</sub>	90	4 101	3 800	3 680	90	4 401	4 078	3 949	90	5 117	4 741	4 592
	80	3 501	3 204	3 086	80	3 757	3 439	3 312	80	4 368	3 998	3 851
	70	2 910	<b>2 619</b>	2 503	70	3 123	<b>2 811</b>	2 687	70	3 631	<b>3 268</b>	3 124
	50	1 765	1 489	1 379	50	1 895	1 598	1 480	50	2 203	1 858	1 721

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