



COIL - KT 110

CHARACTERISTICS

- ✘ for heating dry interiors
- ✘ high heat output
- ✘ also heating when the fan is switched off
- ✘ KT110 variant with lower demands on construction height.

DIMENSIONS

total width	303 mm
construction height	110 mm
length L	900 to 3000 mm

USAGE

The most universal MINIB convector for dry applications. The convector produces high levels of heat out-put with the 12V fan switched on but it also heats - tempers the interior when the fan is switched off. A high heat output and ability to keep low levels of natural convection when the fan is switched off provide a wide range of uses for interiors with a variety of safety and heating demands.

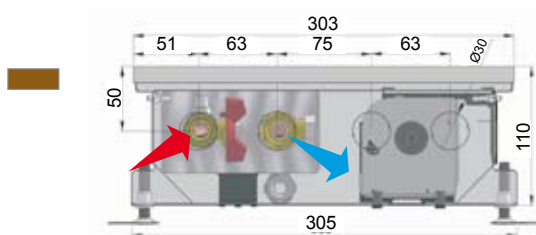
TEMPERATURE EQUATION

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

where:

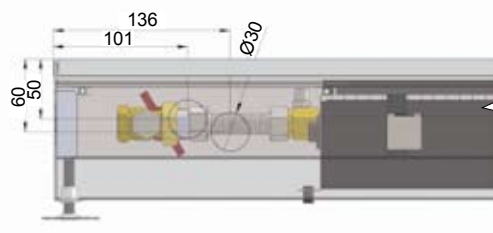
- m** = 1,0543 temperature exponent
- t_w** = mean heating water temperature, °C
- t_A** = mean air temperature [°C]
- Q_N** = nominal heat transfer rate for difference of temperatures t_w - t_A = 50 °C [W]
- Q** = heat transfer rate for other temperatures [W]

CROSS SECTION OF COIL-KT110



Window

LONGITUDINAL SECTION COIL-KT110



HEAT TRANSFER RATE Q [W] COIL - KT 110

		1 min. speed			2 med. speed			3 max. speed				
		length L (mm) 900			length L (mm) 900			length L (mm) 900				
		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 _w	90	1 114	1 036	1 005	90	1 220	1 134	1 100	90	1 374	1 278	1 239
	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
	50	499	424	394	50	546	464	432	50	615	523	486
		length L (mm) 1000			length L (mm) 1000			length L (mm) 1000				
		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 _w	90	1 300	1 209	1 172	90	1 423	1 324	1 284	90	1 603	1 491	1 446
	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
	50	582	495	460	50	637	542	504	50	718	610	567
		length L (mm) 1250			length L (mm) 1250			length L (mm) 1250				
		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 _w	90	1 764	1 641	1 591	90	1 932	1 796	1 742	90	2 176	2 023	1 962
	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
	50	790	671	624	50	865	735	684	50	974	828	770
		length L (mm) 1500			length L (mm) 1500			length L (mm) 1500				
		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 _w	90	2 229	2 072	2 010	90	2 440	2 269	2 201	90	2 748	2 556	2 479
	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
	50	998	848	789	50	1 093	929	864	50	1 231	1 046	973
		length L (mm) 1750			length L (mm) 1750			length L (mm) 1750				
		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 _w	90	2 693	2 504	2 429	90	2 949	2 742	2 659	90	3 321	3 088	2 995
	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
	50	1 206	1 025	953	50	1 320	1 122	1 043	50	1 487	1 264	1 175
		length L (mm) 2000			length L (mm) 2000			length L (mm) 2000				
		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 _w	90	3 157	2 936	2 847	90	3 457	3 214	3 118	90	3 894	3 620	3 511
	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
	50	1 414	1 202	1 117	50	1 548	1 316	1 223	50	1 743	1 482	1 378
		length L (mm) 2500			length L (mm) 2500			length L (mm) 2500				
		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 _w	90	4 086	3 799	3 685	90	4 474	4 160	4 035	90	5 039	4 685	4 544
	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
	50	1 829	1 555	1 446	50	2 003	1 703	1 583	50	2 256	1 918	1 783
		length L (mm) 3000			length L (mm) 3000			length L (mm) 3000				
		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 _w	90	5 014	4 663	4 522	90	5 490	5 105	4 951	90	6 184	5 750	5 577
	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
	50	2 245	1 908	1 775	50	2 458	2 090	1 943	50	2 769	2 354	2 188

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