

KORATHERM AQUAPANEL





Design radiators **KORATHERM** are characterized by interconnection of elegant design with an efficient way of sharing heat and represent so a novel addition for every interior. Variable connection solution and a wide variety of colour schemes will satisfy even the most demanding customer.

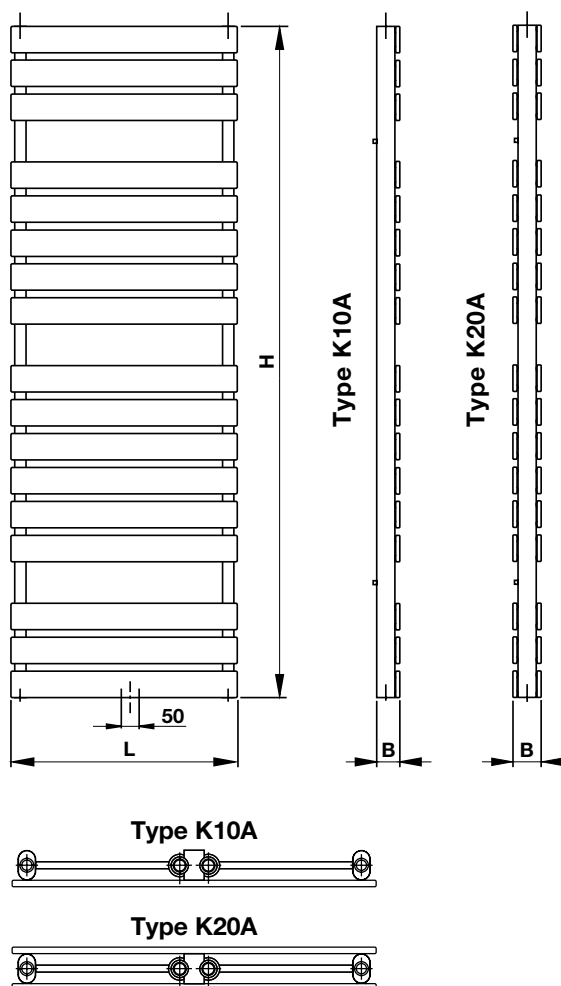




Description

KORATHERM AQUAPANEL is a design radiator with horizontally aligned profiles. Its design primarily enables **bottom middle connection** to pressurized heating systems. Alternatively, it is available for **bottom side**, or **diagonal connection**. Rectangular steel profiles 70 × 11 mm are used as heating elements, collector profiles are oval 50 × 30 mm. Special mounting set which ensures a safe fitting to the wall is delivered as standard.

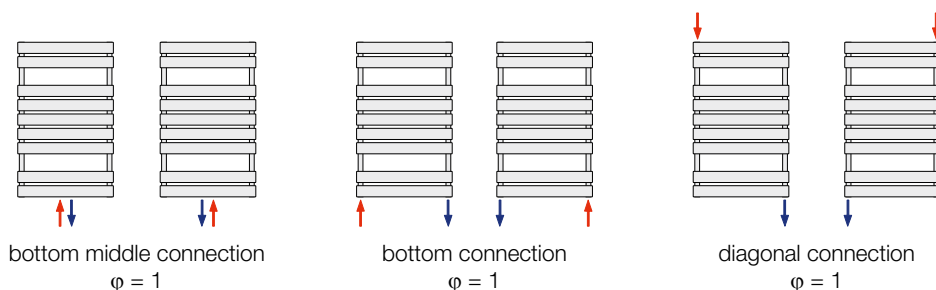
Overview of types



Technical data

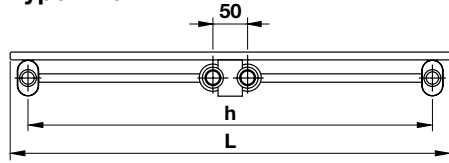
Height H	790, 970, 1240, 1510, 1780 mm
Length L	500, 600, 750 mm
Depth B	
Type K10A	61 mm
Type K20A	72 mm
Connecting pitch h	
Bottom middle connection	50 mm
Bottom connection	L-50 mm
Connecting thread	G 1/2" inside
Highest allowed working pressure	4 bar
Highest allowed working temperature	110 °C
Flow coefficient A_T	
Type K10A	$3,2 \times 10^{-5} \text{ m}^2$
Type K20A	$3,5 \times 10^{-5} \text{ m}^2$
Resistance coefficient ξ_T	
Type K10A	79,0
Type K20A	66,0

Ways of connecting to the heating system

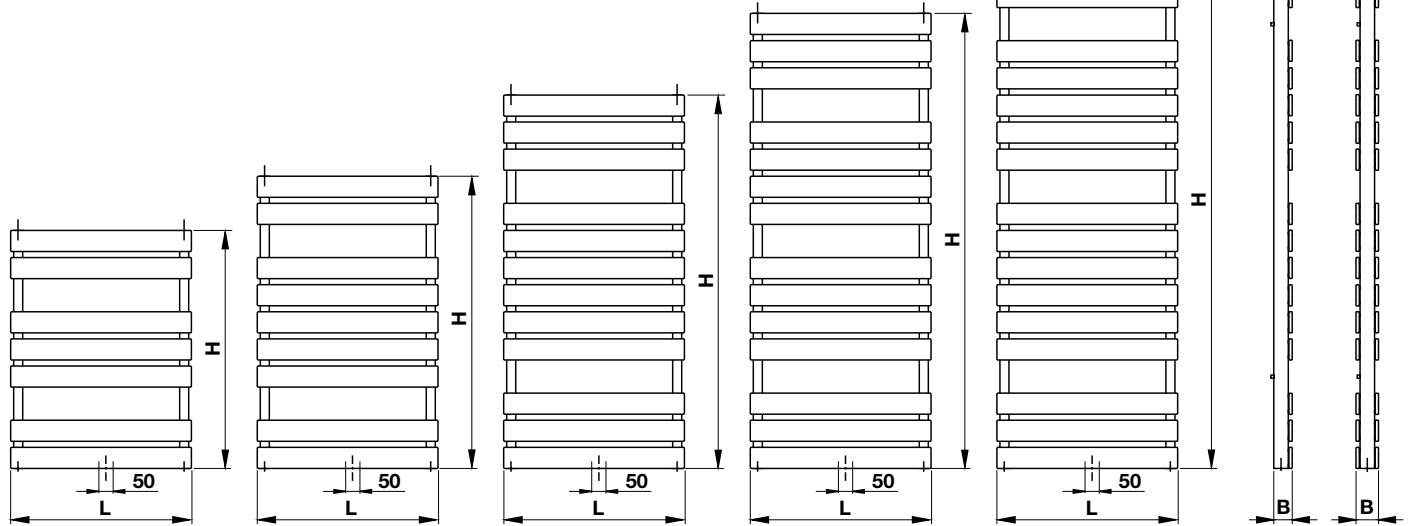
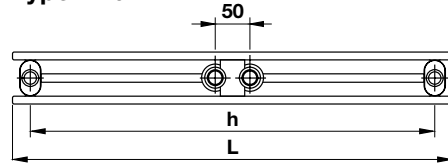


KORATHERM AQUAPANEL – Type K10A, K20A

Type K10A



Type K20A



K10A 0790...
K20A 0790...

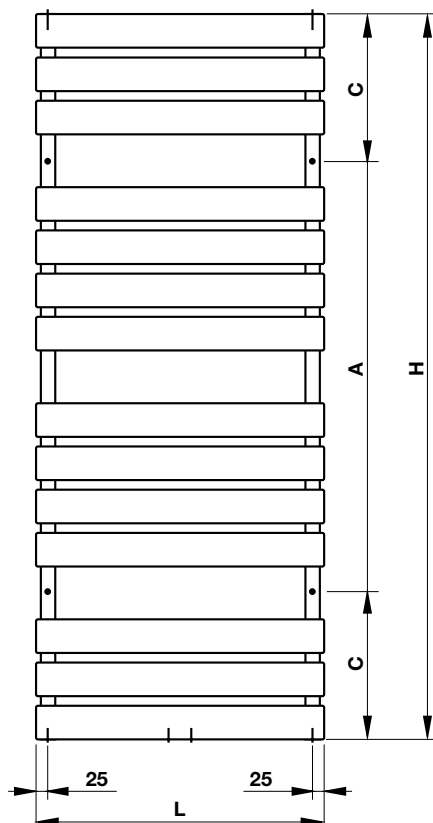
K10A 0970...
K20A 0970...

K10A 1240...
K20A 1240...

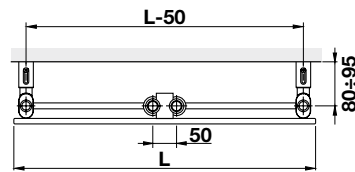
K10A 1510...
K20A 1510...

K10A 1780...
K20A 1780...

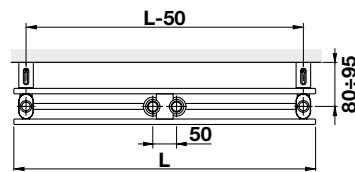
KORATHERM AQUAPANEL – DATA FOR MOUNTING



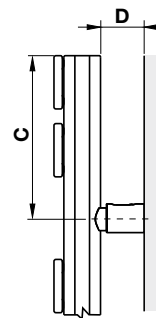
Type K10A



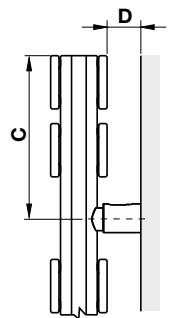
Type K20A



Type K10A



Type K20A



H [mm]	A [mm]	C [mm]
790	360	215
970	540	215
1240	630	305
1510	900	305
1780	1170	305

Type	K10A	K20A
D [mm]	73 ÷ 88	62 ÷ 77



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442 BASIC TECHNICAL PARAMETERS

Type K10A														
L [mm]	H [mm]	t _i = 20 °C				t _i = 24 °C				Basic technical parameters				
		Q [W] for t ₁ / t ₂ [°C]				Q [W] for t ₁ / t ₂ [°C]				K _m [-]	n [-]	M _T [kg]	V _T [l]	Max. heat output E-element [W]*
		75/65	70/55	55/45	45/40	75/65	70/55	55/45	45/40					
500	790	403	331	218	154	364	294	183	122	3,6078	1,2054	9,2	3,7	300
	970	491	404	266	188	444	359	224	149	4,4894	1,2002	11,6	4,6	400
	1240	619	510	337	239	560	453	284	189	5,8313	1,1924	15,2	6,0	500
	1510	740	611	404	287	671	543	341	228	7,1926	1,1845	17,9	7,1	600
	1780	855	706	469	334	775	629	396	265	8,5699	1,1767	21,5	8,5	700
600	790	475	390	256	181	429	346	216	143	4,2492	1,2054	10,5	4,1	400
	970	579	476	313	222	523	423	264	175	5,2875	1,2002	13,3	5,1	500
	1240	729	601	396	281	660	534	334	223	6,8681	1,1924	17,5	6,6	600
	1510	872	719	476	339	790	640	402	268	8,4713	1,1845	20,5	7,9	800
	1780	1007	832	552	394	913	741	467	313	10,0934	1,1767	24,7	9,4	900
750	790	580	477	313	221	524	423	264	175	5,1914	1,2054	12,5	4,6	500
	970	707	582	383	271	640	517	322	214	6,4599	1,2002	15,8	5,8	600
	1240	891	734	484	344	806	652	408	272	8,3909	1,1924	20,8	7,6	800
	1510	1065	879	582	414	965	781	491	328	10,3497	1,1845	24,4	9,0	900
	1780	1231	1017	675	481	1116	905	570	382	12,3315	1,1767	29,4	10,8	1 000

Type K20A														
L [mm]	H [mm]	t _i = 20 °C				t _i = 24 °C				Basic technical parameters				
		Q [W] for t ₁ / t ₂ [°C]				Q [W] for t ₁ / t ₂ [°C]				K _m [-]	n [-]	M _T [kg]	V _T [l]	Max. heat output E-element [W]*
		75/65	70/55	55/45	45/40	75/65	70/55	55/45	45/40					
500	790	577	472	307	215	520	417	257	169	4,5779	1,2362	15,7	5,5	500
	970	705	577	376	264	636	511	315	207	5,7315	1,2300	20,0	7,0	600
	1240	889	729	476	335	803	646	400	264	7,4997	1,2206	26,4	9,2	800
	1510	1063	873	573	404	961	775	481	319	9,3050	1,2112	30,9	10,8	900
	1780	1227	1009	664	470	1110	896	559	371	11,1414	1,2019	37,3	13,0	1 000
600	790	686	561	365	256	619	497	306	201	5,4481	1,2362	18,3	6,3	600
	970	839	687	447	314	757	608	375	247	6,821	1,2300	23,3	8,0	700
	1240	1058	867	567	399	955	769	476	314	8,9252	1,2206	30,8	10,5	900
	1510	1265	1039	681	481	1143	922	573	379	11,0737	1,2112	36,1	12,3	1 000
	1780	1461	1201	790	559	1321	1067	666	442	13,2591	1,2019	43,6	14,8	1 200
750	790	849	695	452	316	766	615	378	248	6,7412	1,2362	22,2	7,4	700
	970	1038	850	554	389	937	752	464	305	8,44	1,2300	28,2	9,4	900
	1240	1309	1073	702	494	1182	951	589	389	11,0437	1,2206	37,5	12,4	1 200
	1510	1565	1286	843	595	1415	1141	709	469	13,7021	1,2112	43,8	14,6	1 200
	1780	1807	1487	978	692	1635	1320	824	547	16,4063	1,2019	53,0	17,6	1 200

Characteristic equation: $\phi = K_m \cdot \Delta T^n \left[\frac{W}{m} \right]$, $\Delta T = \frac{t_1 + t_2}{2} - t_r [K]$

t₁ – temperatur water-in, t₂ – temperatur water-out, t_r – relative air temperature

COMBINED HEATING

Combined heating

Design radiators KORATHERM AQUAPANEL connected to the heating system can be supplemented with electric heating element:

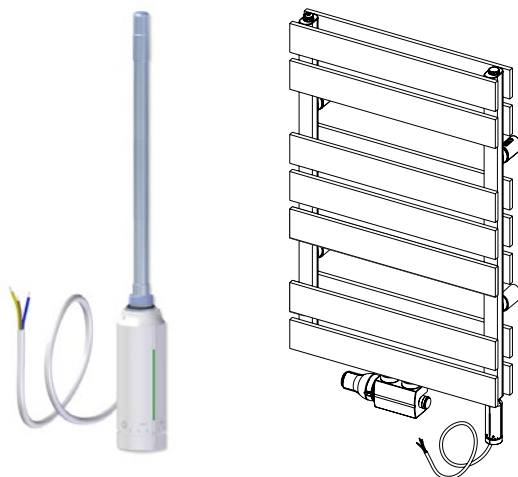
- without the integrated temperature regulator Z-KT7-XXXX-10
- with the integrated temperature regulator Z-KT7R-XXXX-XY

This way a design radiator for combined heating (hot water – electricity) is created and can be used regardless of whether the heating system is in operation.

Electric heating element

With the integrated temperature regulator

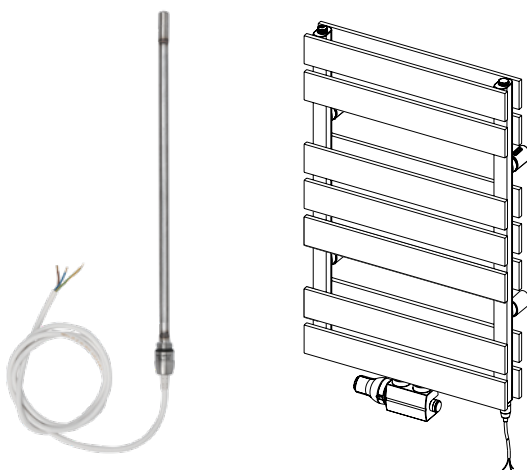
Electric heating element with electronic regulator of room air temperature. Available in white or chrome colour. The electric heating element is connected to the electricity mains with a supply cable into the installation box.



Electric heating element

Without the integrated temperature regulator

It is designed for connection into the mains socket using the adjusted supply cable. In this case it is necessary to order accessories depending on the required handling comfort and operation and attach it to the supply cable.



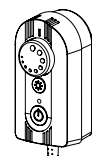
Electric heating elements

Technical data	El. heating element EL.07 with integrated temperature regulator	El. heating element EL.07 without integrated temperature regulator
Ordering code	Z-KT7R-XXXX-XY	Z-KT7-XXXX-10
Switch	Yes	No
Indication of operation	Yes	No
Indication of fault condition	Yes	No
Thermostat	Yes	No
Temperature switch	Yes	Yes
Temperature limiter	Yes	Yes
Selection of operation modes	Yes	No
Rated voltage	230 V / 50 Hz	230 V / 50 Hz
Input range	200 ÷ 1 200 W	200 ÷ 1 200 W
Protection	IP 44	IP 44
Appliance class	1	1
Cable length	1.5 m	1.5 m
Connecting thread	G 1/2"	G 1/2"
Working position	Vertical model with the electric power supply at the bottom	

Accessories

Technical data	VS1 plug	RE10A Temperature regulator
Ordering code	Z-SKV-0002	Z-SKV-0004
Switch	Yes	Yes
Indication of operation	Yes	Yes
Thermostat	No	Yes
Selection of operation modes	No	Yes
Rated voltage	230 V / 50 Hz	230 V / 50 Hz
Protection	IP 41	IP 20
Working position	In compliance with General Safety Regulation	Vertical model with the lead-in cable at the bottom

Accessories:



RE10A



VS1



"T-branch"

Warning for your safety

- The installation and replacement of the heating element, replacement of the power cable and fitting of all electric accessories may be carried out only by a person with the required and valid professional qualification.
- The recommended (maximum) heat output values of the electric heating elements mentioned in the technical data sheet of each individual towel rail radiator KORATHERM may not be exceeded.
- If the same outlet is used both for connection of the radiator to the heating system and for the installation of the electric heating element it is necessary to order the "T-branch" (article code Z-SKV-0001).
- The allowed working position is only vertical with the power cable below, that means the electric heating element may be inserted in the radiator only from below.
- The radiator may not be aerated and must be permanently connected to the heating system.
- Please study carefully the attached "Operating Instructions" where all principles and conditions of a safe operation of the radiator with combined heating are explained and highlighted clearly and demonstrably.

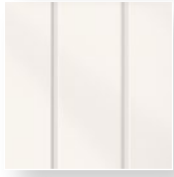
COLOUR CARD

SATIN GLOSS

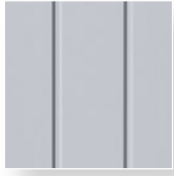
code 10
White RAL 9016*



code 14
Jasmine



code 35
Silber RAL 9006



code 16
Bahama



code 22
Manhattan



code 26
Pergamon



code 32
Anthrazit Metallic



code 37
Red RAL 3001



code 39
Black RAL 9005



code 45
Pearl Brown



HIGH GLOSS

MATTE

code 47
RAL 9007



code 48
RAL 9006



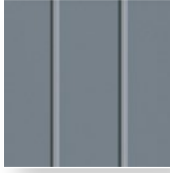
code 49
RAL 7024



code 51
RAL 7016



code 54
RAL 7015



code 57
RAL 7040



DEEP MATTE

code 40
Alloy Black



code 42
Gold



Notice:

The colour of the radiator may vary in comparison with the colour shown in the KORATHERM colour card. The standard paint finish is white RAL 9016, other colours are available at an extra charge.

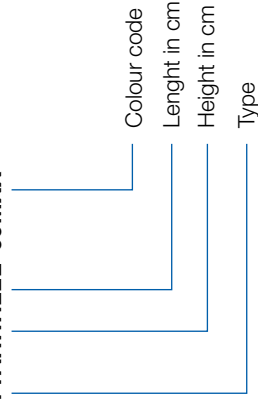
Extra charge:

20 % colours from KORADO colour range
30 % colours from RAL colour range

KORATHERM AQUAPANEL – how to order

Code creation pattern

KTTAHHLLL-00MXX



Practical example of the ordering code

Design radiator KORATHERM AQUAPANEL
Type10, height 970 mm, length 500 mm, colour white RAL 9016

K10A097050-00M10

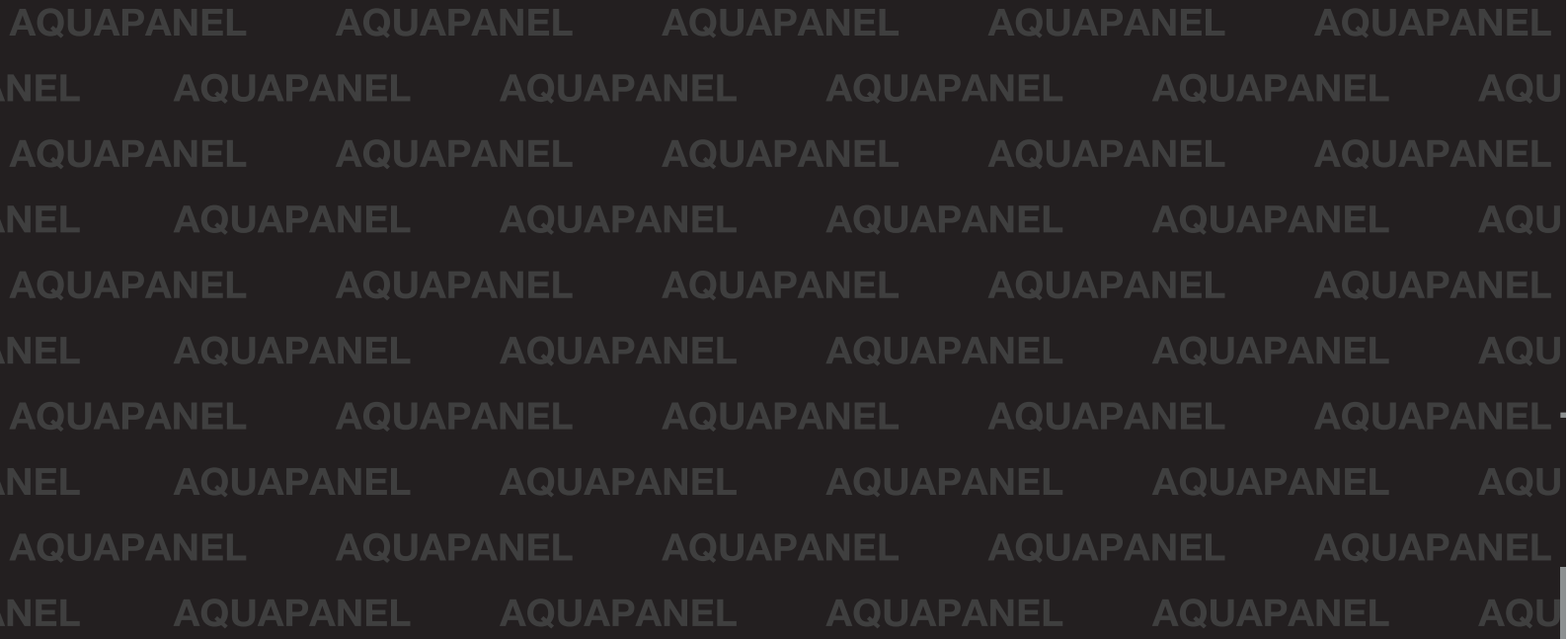
Design radiator KORATHERM AQUAPANEL
Type 20, height 1780 mm, length 600 mm, colour Gold (code 42)

K20A178060-00M42

The company reserves the right to make technical changes.



NOTES



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