

# Silicium H2O Inertia Radiators



Energy saving

CLIMASTAR ranges of H2O Inertia Radiators are based on use of **DUAL-KHERR** Silicon stone front panels to increase the heat transference to the room through radiation and convection.



H2O inertia radiators

They are manufactured with **Star-Deutsch**  **steel panel**, the standard solution in Northern and Central Europe for hydronic installations.

Silicium H2O Inertia radiators start transferring heat to the room mainly by convection, but after few minutes the heat accumulated in the **DUAL-KHERR** front stone panel will maintain and homogenize the room temperature mainly by radiation.

These hydronic series provide perfect heat distribution in the room. This radiation and thermal inertia will ensure very low running costs.

With a choice of three different dimensions, multiple power outputs, standard and customize stone Dual Kherr designs and an excellent quality in finishes, the CLIMASTAR H2O inertia radiators will blend in with any existing decoration.





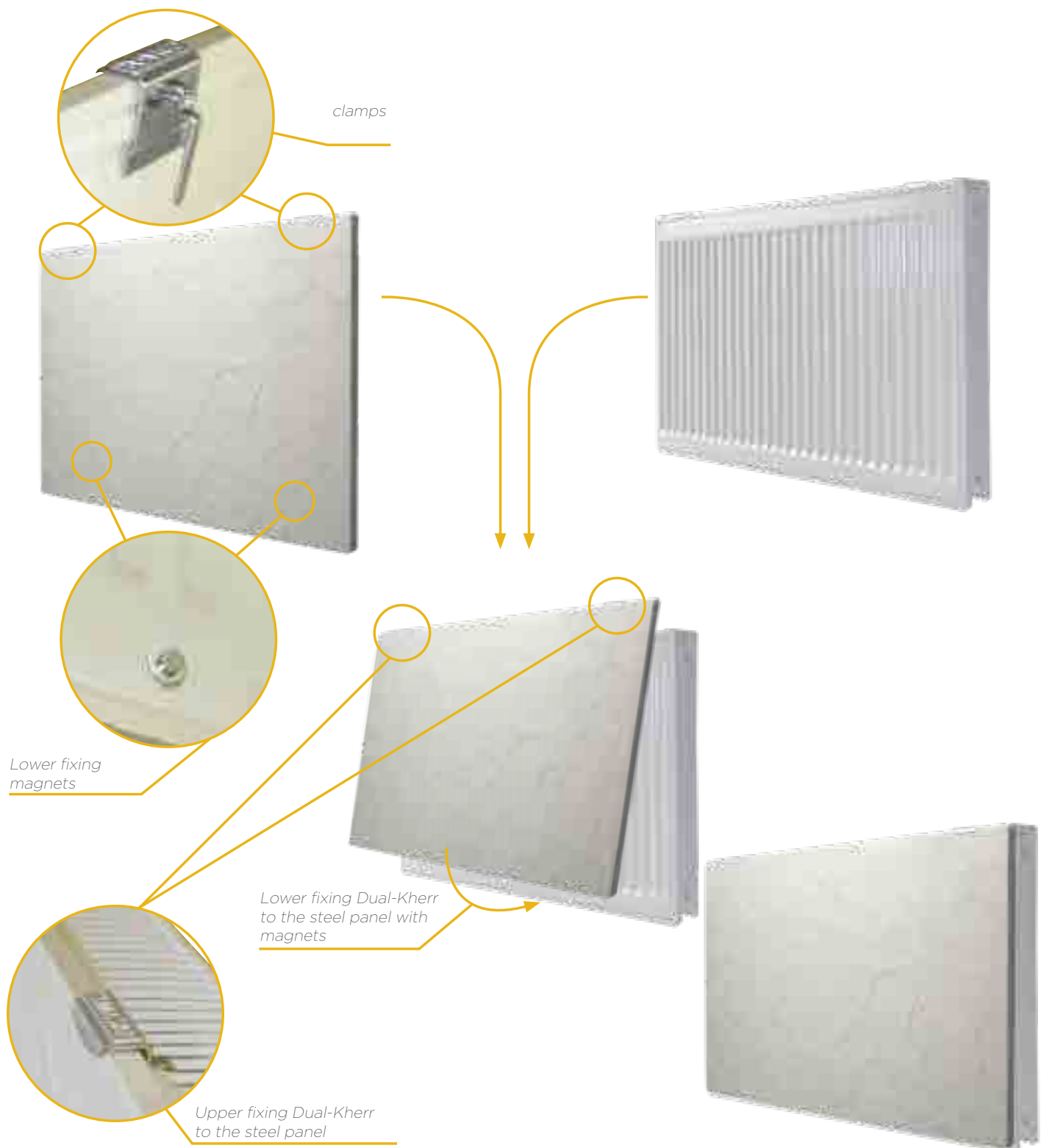
**Star-Deutsch  steel panel**

Climastar H2O Inertia Radiators are manufactured with the best stone made front panel heat accumulator, **DUAL-KHERR**, and with the best quality steel water radiator panel, **Star-Deutsch  steel panel**.

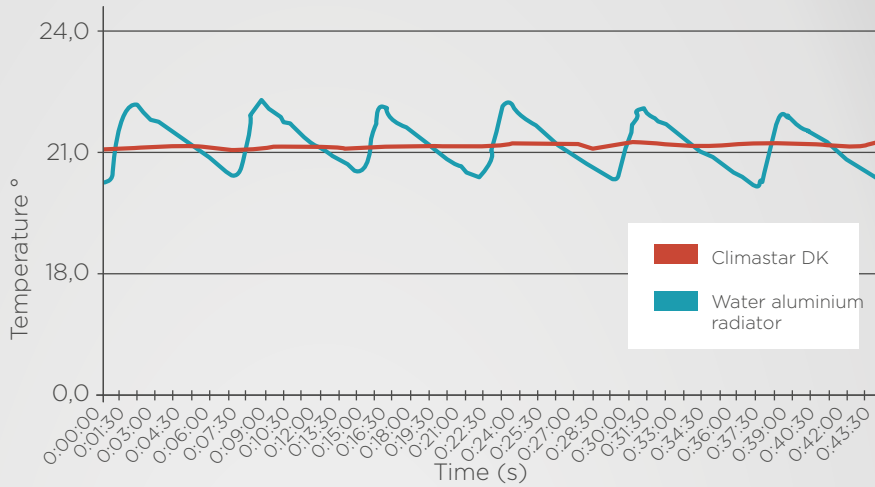
It is manufactured under the most strict quality standards:

- Semi panels and water canals are manufactured in automatic welding and assembly lines.

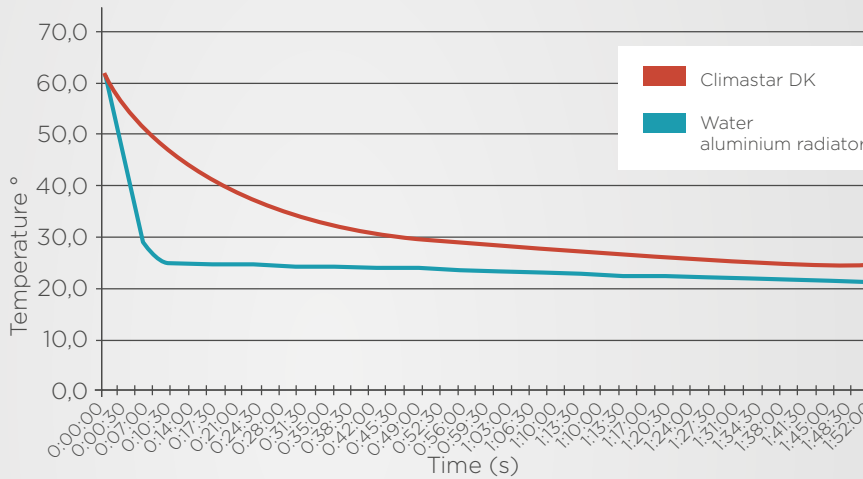
- They are 100% verified under a water tightness test subject to a pressure of 13 bar, at a maximum work pressure of 10 bar.
- Panels are fully protected against corrosion. Steel is finished in carbon-epoxy resin and polymerized on all its surface. Colour reference is RAL9010 white.



**Star-Deutsch  steel panel**

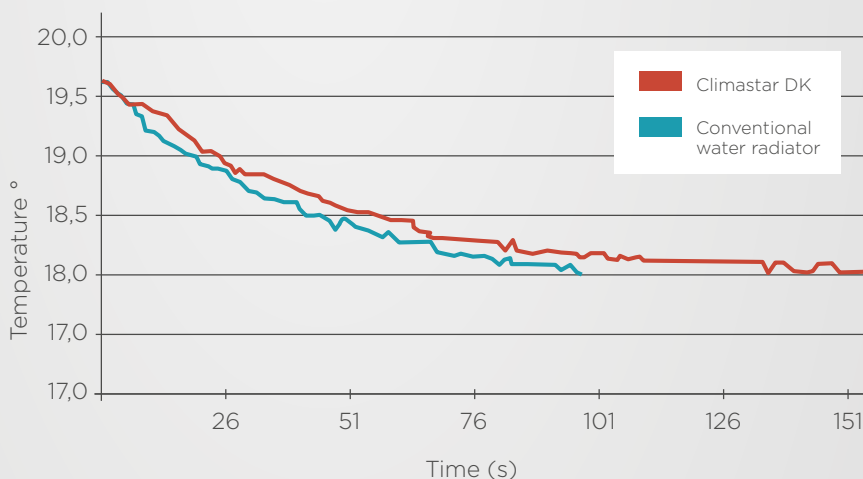


H2O Inertia radiators achieve a temperature more stable. Temperature oscillations are avoided and consumption and pressure differences are reduced.

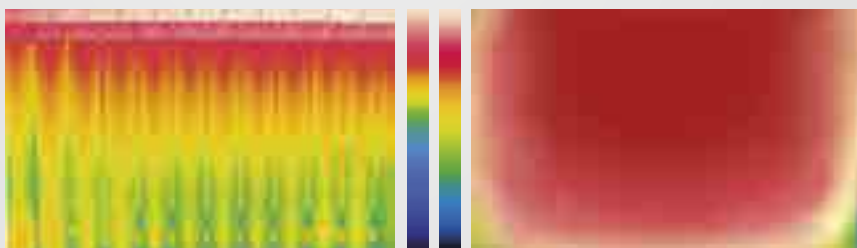


This graph shows a comparative between the cooling temperature time of a standard aluminium radiator and a Climastar H2O Inertia radiator

Central boiler will need less working periods to maintain same heat.



An H2O Inertia radiator will maintain the temperature in the room for longer. Up to 50% more!



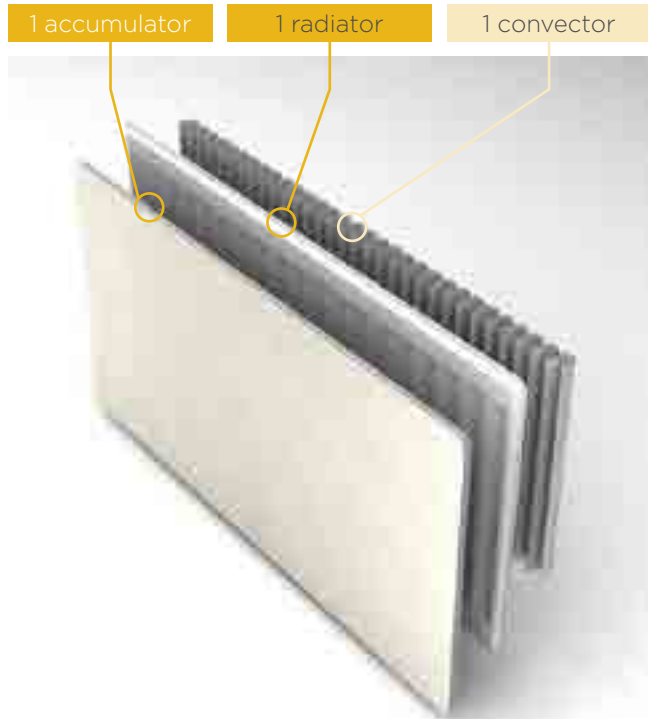
Standard radiator

H2O inertia radiator

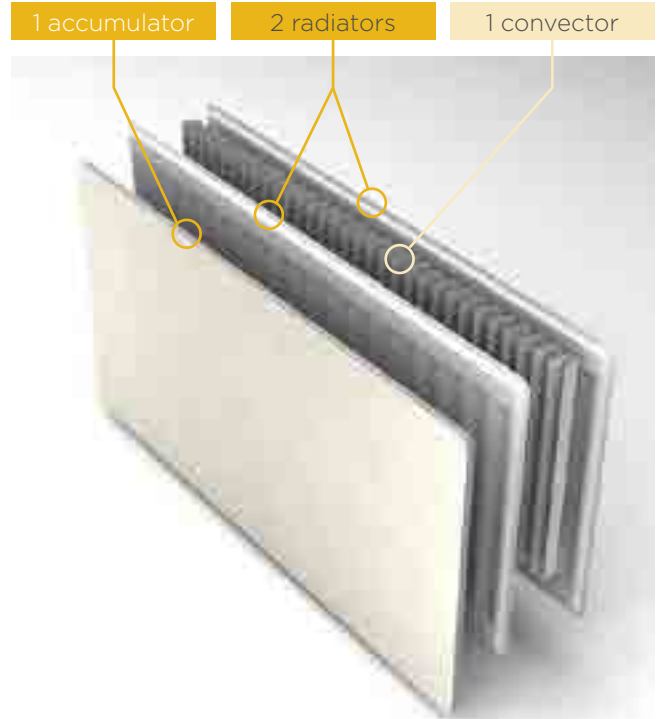
H2O Inertia radiators radiate heat to the room for longer periods due to their inertia capacity. Also surface temperature is very homogeneous (right image), heat is transferred to the room in a very uniformed way. Radiation is continuous.

**Comfort temperature is felt much quicker and room temperature stratification is reduced!**

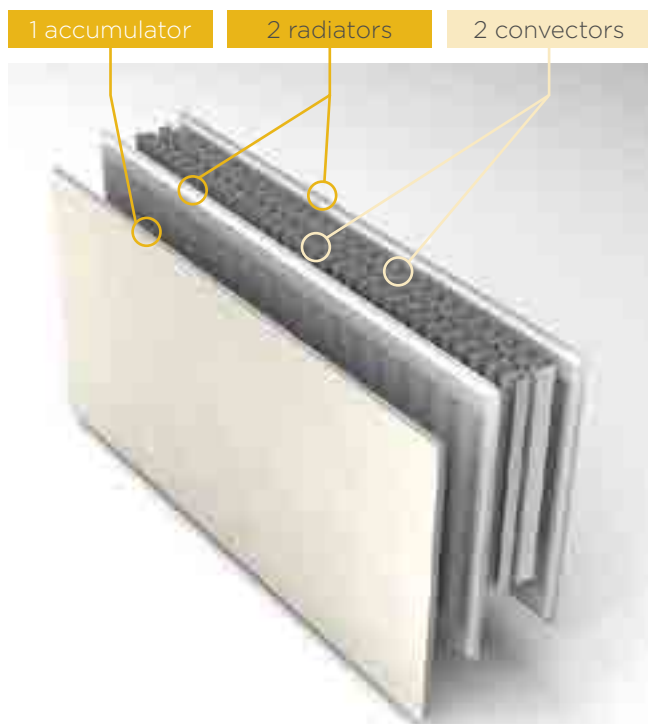
DK11  
Extra Slim  
390 - 780 W



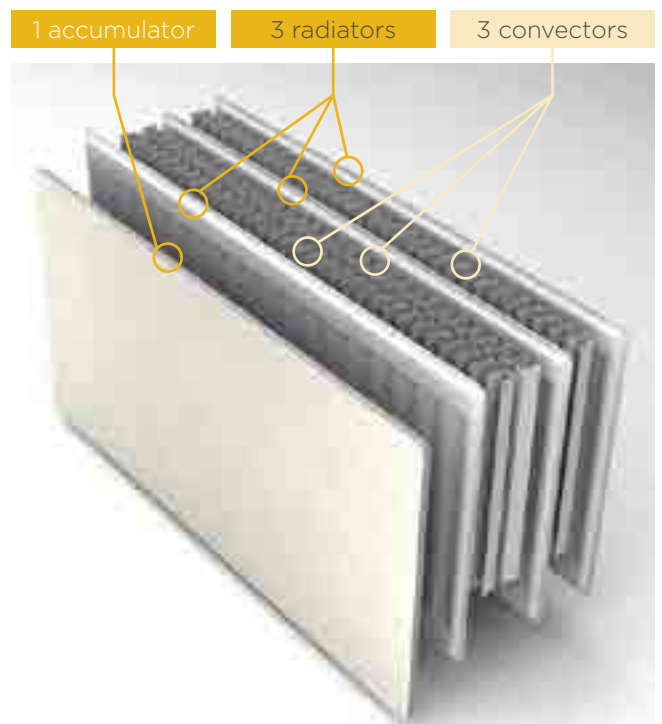
DK21  
Extra Slim and powerful  
589 - 1178 W



DK22  
Powerful and compact  
762 - 1524 W



DK33  
The most powerful  
1088 - 2176 W





Energy saving



H2O inertia radiators



Towel radiator

## Silicium H2O Towel radiators

H2O models are also suitable as towel radiators by adding additional towel bars and towel hooks.

Additional stainless steel towel bars are available for square or vertical models (51 cm) and also for horizontal models (102 cm). Both in a choice of 5 cm and 8 cm depth.

Additional stainless steel hooks are also available for any model. Supplied in packs of 3 units.



### Stainless Steel towel bars:



Description	References		Weight (Kg)
	5 cm depth	8 cm depth	
51 cm. stainless steel bar	BT050X5	BT050X8	0,50
102 cm. stainless steel bar	BT100X5	BT100X8	0,85

### Stainless Steel towel hooks:

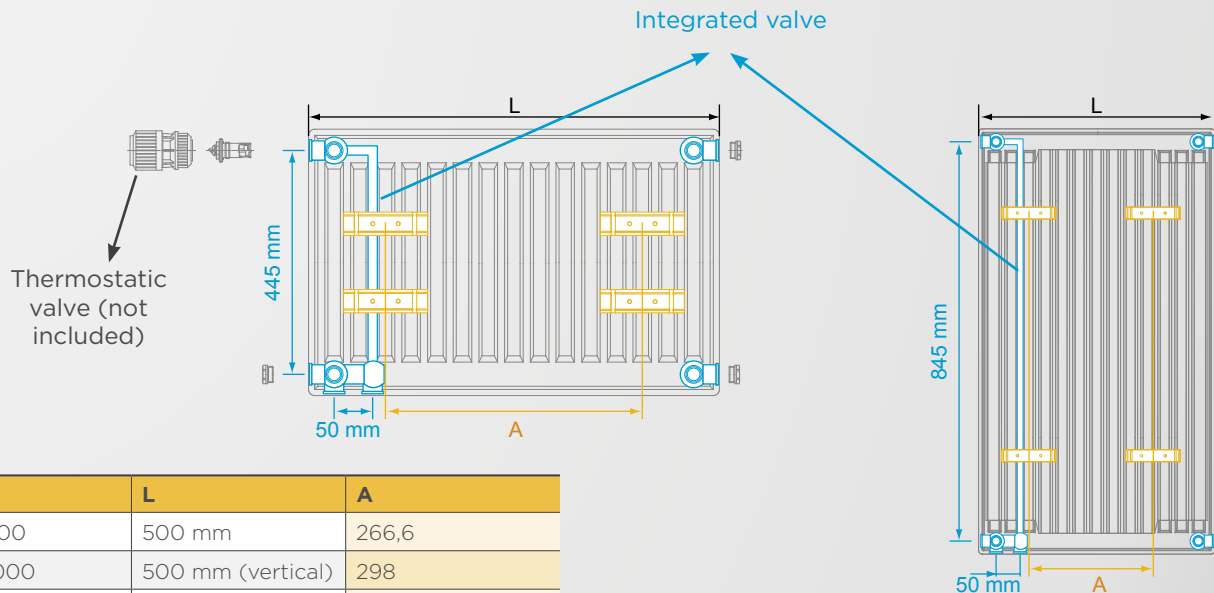


Description	Ref.
Towel hooks, pack 3 units	PERINOX

## Technical features

Star-Deutsch  steel panel

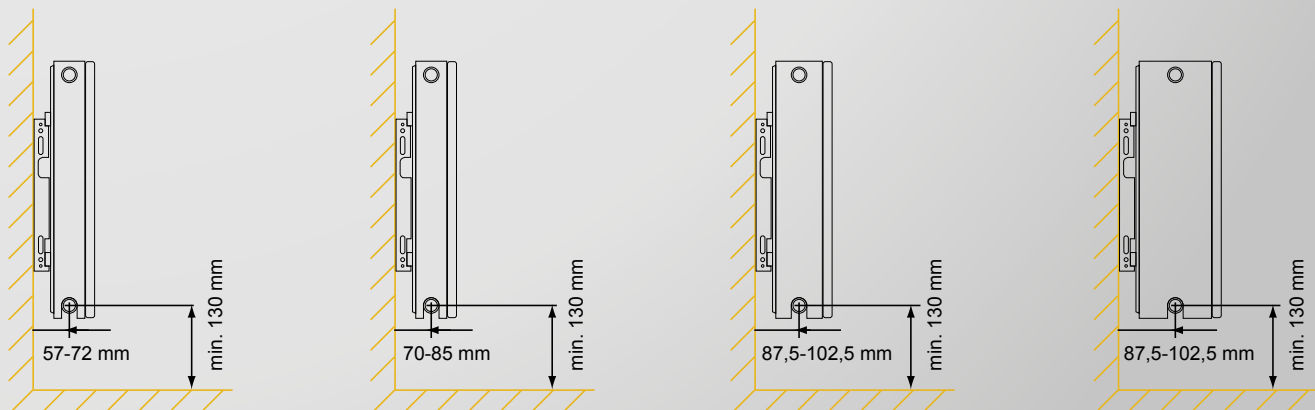
Back view:



Model	L	A
500x500	500 mm	266,6
500x1000	500 mm (vertical)	298
1000x500	1000 mm	766,6

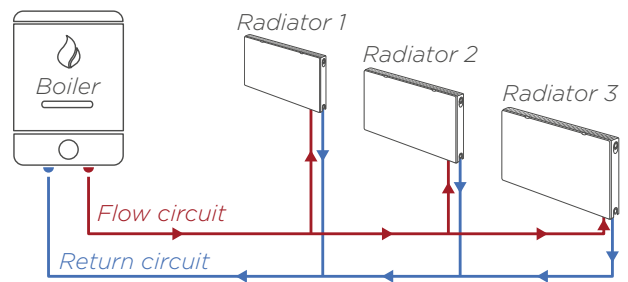
- 6 x 1/2" water connections.
- Valve is integrated in the steel panels. It allows different possible connections. It provides a better internal water flow and uniform heat. It is suitable for both single pipe and double pipe installations.
- Panels supplied with 3 x water connection caps, 1 x air vent and all the required wall fixing material (brackets, screws and plugs).

Water connections distances to the wall:



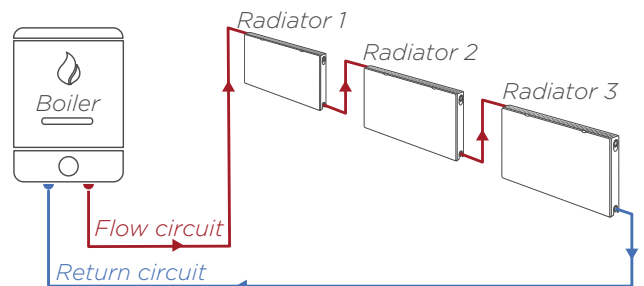
## Accessories:

### Double pipe installations:



Valve 1/2"		Lockshield valve		Pipe fitting		Thermostatic valves	
	<b>Ref.</b>		<b>Ref.</b>	<b>mm</b>	<b>Cooper</b>	<b>Reference</b>	<b>Reference</b>
Straight valve	TC09765	Straight valve	CO09767	10/12	10754	CO08900	TC20147
Angle valve	TC09766	Angle valve	CO09768	13/15	10755		

### Single pipe installations:



H-valve		Pipe fitting			Thermostatic valve	
	<b>Ref.</b>	<b>mm</b>	<b>Copper</b>	<b>Multilayer</b>	<b>Reference</b>	<b>Reference</b>
Straight valve	TC09317	15	TC10752		CO08900	PT20147
Angle valve	TC09316	16	TC10751	TC10893		
		18	TC10753	TC11127		

### Adaptor for axis distances:

- In order to ease the fitting on already existing installations with different axis dimensions.

Model	Reference	Length	Connection A	Connection B
Superflex	TC12016	85 mm	Sliding nut 3,8"	1/2" - 3/8"



## Silicium H2O References

	Model	Reference*	Dimensions (***) Length x Height x Depth	Kg (dry weight)	Axis distance (**)	W $\Delta$ T 60°	Kcal/h $\Delta$ T 60° W	W $\Delta$ T 50 °C	Kcal/h $\Delta$ T 50 °
DK11	H2O DK 11 - 500	050011	50x50x8 cm	14,21	44,5 cm	494 W	425	390 W	336
	H2O DK 11 - 850	085011	50x100x8 cm	27,90	84,5 cm	786 W	676	621 W	534
	H2O DK 11 - 1000	100011	100x50x8 cm	29,42	44,5 cm	987 W	849	780 W	671
DK21	H2O DK 21 - 750	075021	50x50x9 cm	19,21	44,5 cm	746 W	642	589 W	507
	H2O DK 21 - 1200	120021	50x100x9 cm	36,85	84,5 cm	1139 W	980	900 W	774
	H2O DK 21 - 1500	150021	100x50x9 cm	39,43	44,5 cm	1491 W	1283	1178 W	1014
DK 22	H2O DK 22 - 900	090022	50x50x12,5 cm	21,6	44,5 cm	965 W	830	762 W	656
	H2O DK 22 - 1500	150022	50x100x12,5 cm	40,6	84,5 cm	1483 W	1276	1172 W	1008
	H2O DK 22 - 1800	180022	100x50x12,5 cm	43,33	44,5 cm	1929 W	1660	1524 W	1312
DK 33	H2O DK 33 - 1300	130033	50x50x18 cm	28,21	44,5 cm	1377 W	1185	1088 W	936
	H2O DK 33 - 2100	210033	50x100x18 cm	43,25	84,5 cm	2163 W	1861	1709 W	1470
	H2O DK 33 - 2500	250033	100x50x18 cm	57,43	44,5 cm	2754 W	2370	2176 W	1873

\*\* Extension for axis distance available (See previous page)

\*Connections H 1/2

Thermal gap  $\Delta$ T (°C)

\*\*\* Without wall support.

## Standard finishes for Silicium H2O models



Classic



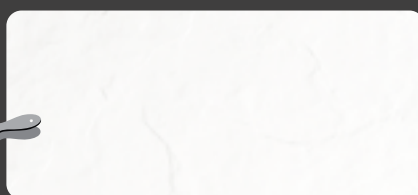
Terra Limestone



Black slate



White Cashmere - Mimetic



White slate

White cashmere finish can be painted in any colour you may wish if you add a coating for waterproof surfaces that can be found in any painting shop.

## Reference: Dual-Kherr code + Panel Reference \*

Dual-Kherr finishes	White Cashmere - Mimetic	White slate	Classic	Terra Limestone	Black slate
Dual-Kherr code	05	01	09	10	02

Example: 05 Dual Kherr  
White Cashmere + 085011

Panel Reference \*  
H2O DK 11 - 850

→ 05 085011

