

INSTALLATION MANUAL

CLIMA STAR
silicium technology



SILICIUM H2O

Index

Introduction:	3
Steel Panel radiator main features:	4
Packing content:	4
Installation and hydraulic connections:	5
Wall fitting:	6
Double pipe installations:	8
Single pipe installations:	9
Installation of Dual Kherr (DK) panel:	9
Technical features of H2O radiators:	11
Guarantee:	13

Introduction:

Congratulations on your purchase of your SILICIUM H2O hydronic solution!!

The product you have just purchased has undergone all necessary tests and inspections to guarantee the highest quality.

We hope it gives you entire satisfaction.









Please, read carefully this guide before installing the device.

Steel Panel radiator MAIN FEATURES

- 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.
- Panels are suitable for both single pipe and double pipe installations.
- Panels are supplied with:
 - 3 x water connection caps,
 - 1 x air vent and
 - wall fixing material (brackets, screws and plugs).
- All devices have been checked under a leak pressure test of 10 bar, which means a maximum service pressure of 6 bar.
- PH water installation value must be between 5 and 8.



Steel panel radiator packing content:

- 1 x steel panel radiator
- 4 x sets screw and plug:
- 2 x L-shape wall brackets
- 4 x metal expansion protector caps:
- 3 x caps for water connections:
- 1 x air vent:
- 1 x manifold balancing valve:



INSTALLATION

- 1** The heater is supplied in 2 different cartons:
- One carton with the heat accumulator Dual Kherr (DK) panel.
 - Second carton with the water steel panel radiator.

Steel panel radiator



DK panel

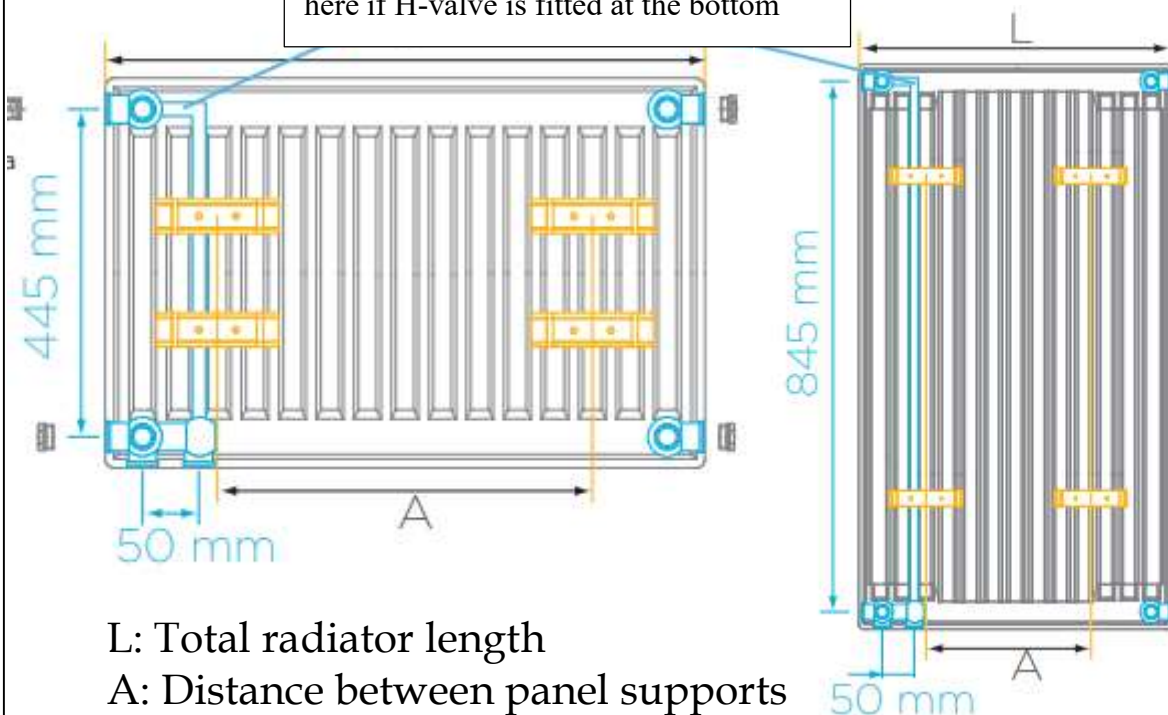


Cut the straps that hold the two cartons. Handle carefully the one with the DK and leave it for the last installation step.

2 Panel radiator installation and hydraulic connections:

General layout:

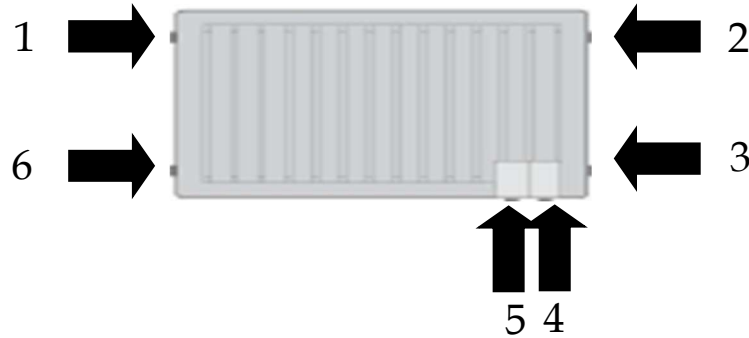
Balancing valve has to be included up here if H-valve is fitted at the bottom





Before starting with wall fitting:

Remove the 6 plastic protection caps included in the water connections:



Wall fitting:

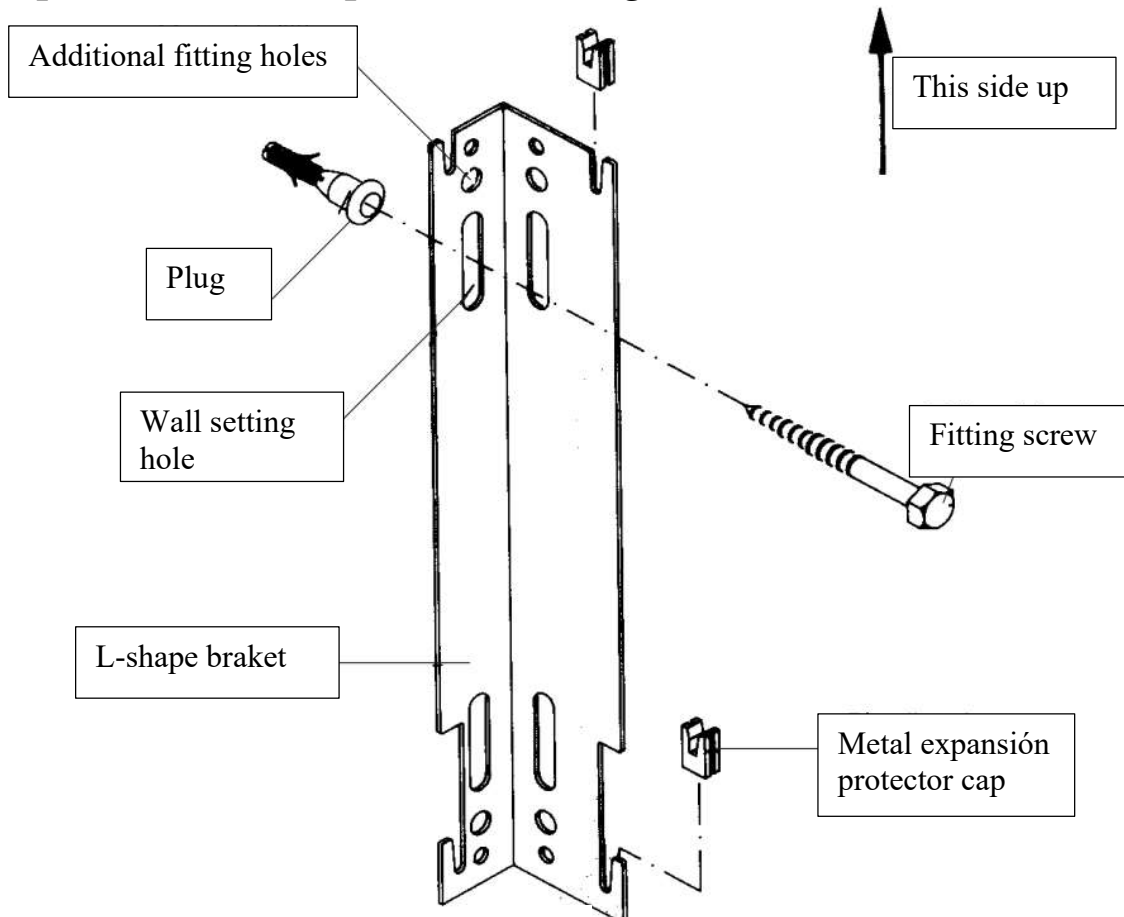


L-shape bracket has two fitting positions:

-Shorter part attached to the wall when installing models ref. 11.

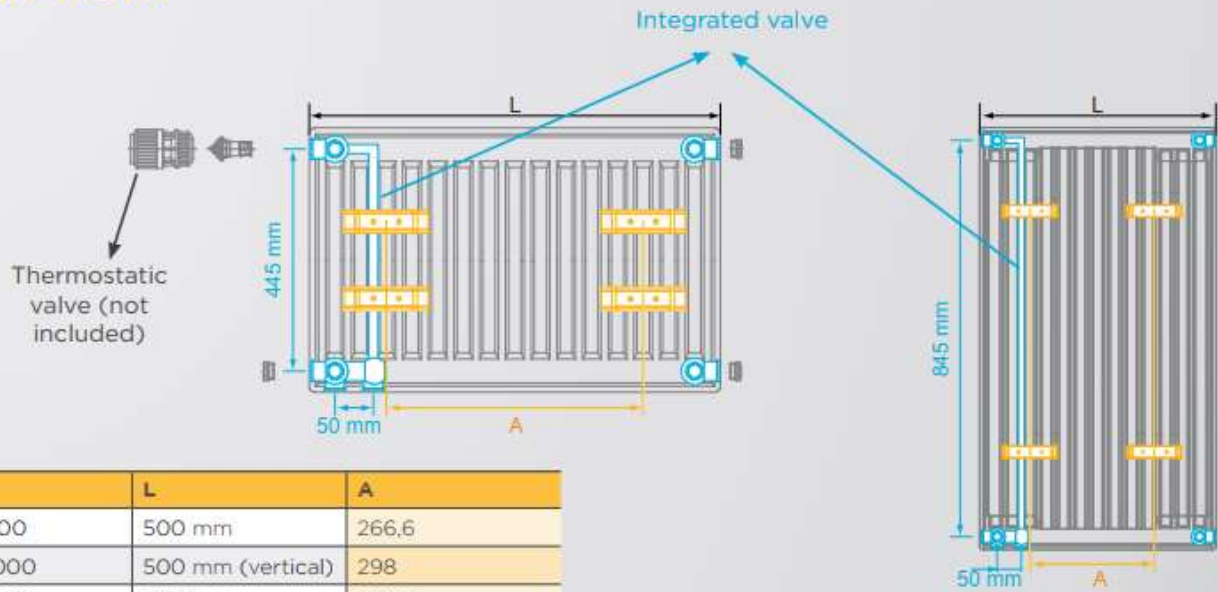
-Longer part attached to the wall when installing models ref. 21,22 and 33.

L-shape bracket example when fitting ref 11 models:



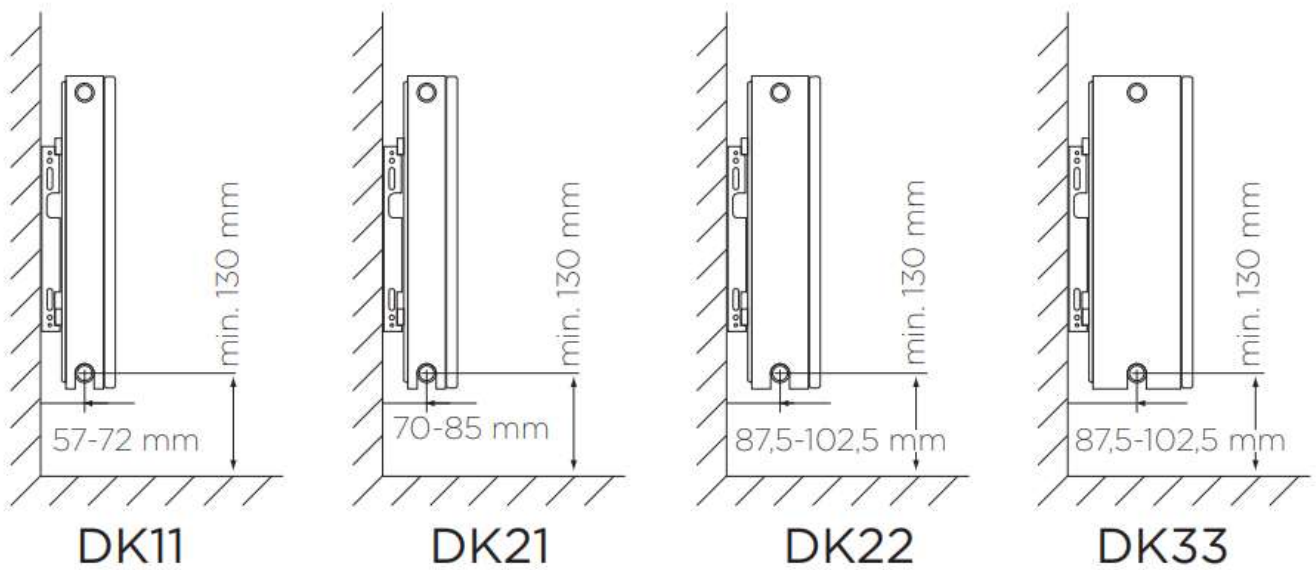
Now proceed to fit the L-shape to the wall according to the previous advice and considering the below dimensions between panel supports:

Back view:



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

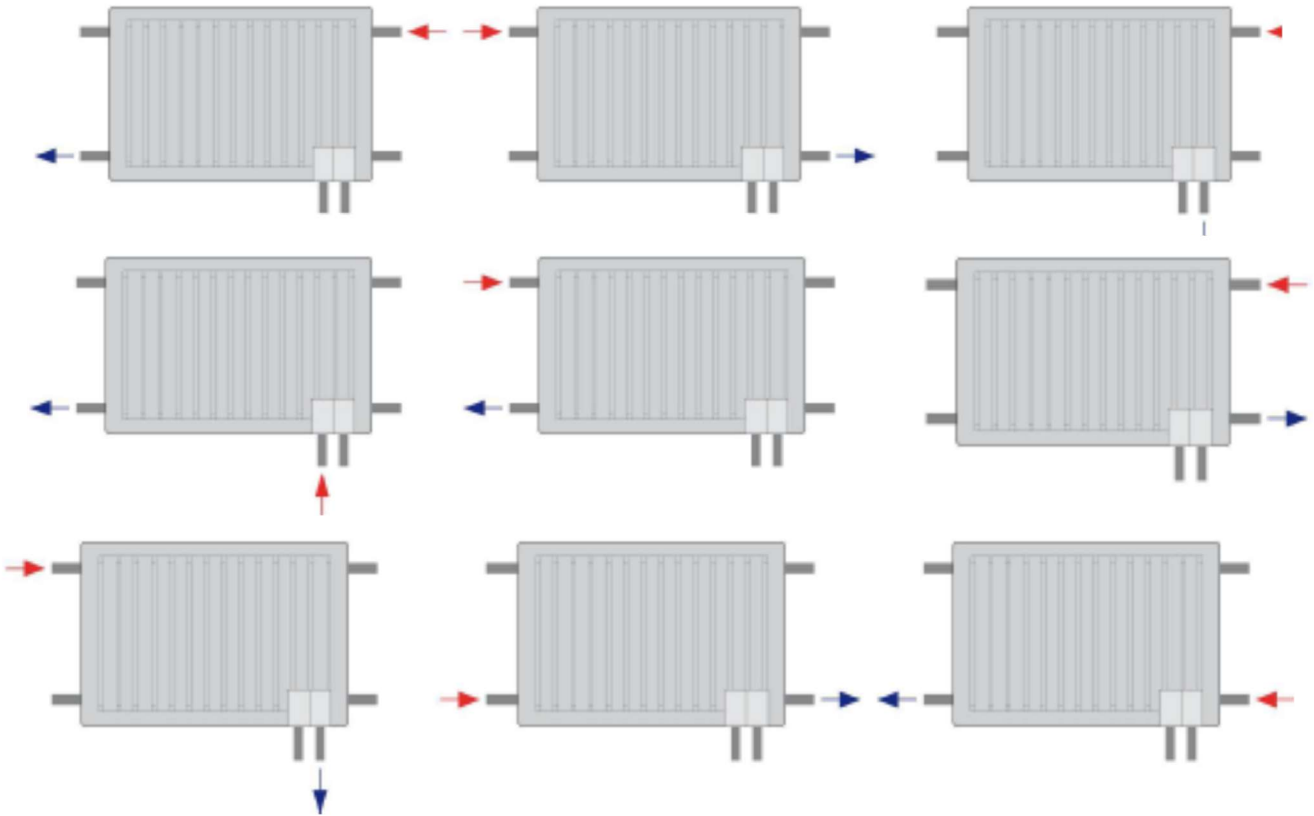
About distances from water connections to the floor and to the wall, we recommend the following:



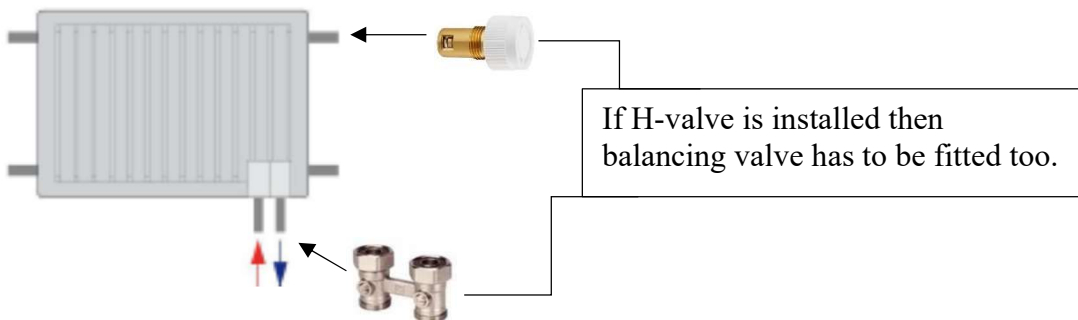
Please do never leave a distance to the floor lower than 100mm. You may hinder the piping installation.

Double pipe installations.

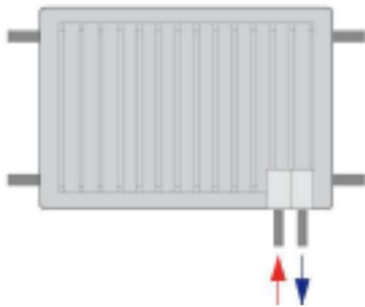
Some examples:



In double pipe scheme, air vent must be fitted in the upper part of the radiator, in one of the water connections. It will not be necessary to fit the manifold balancing valve unless an H-valve is also included.



Single pipe installations.



Even though final decision will always be taken by a plumber, we strongly recommend to include H-Valves in radiators when set under single pipe scheme.

Some examples of recommended H-Valves (not included with the panel):



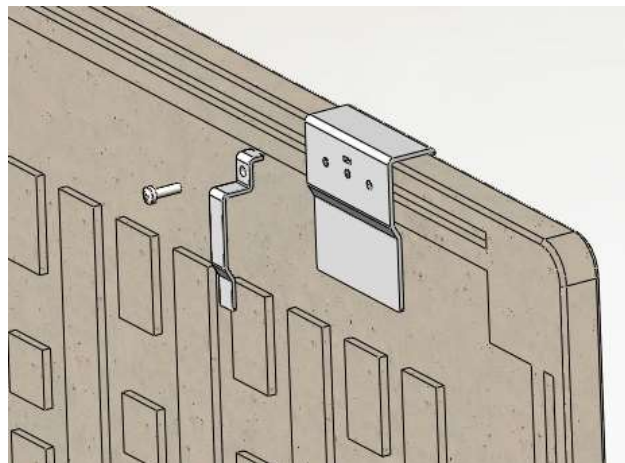
In single pipe scheme, air vent should be fitted in the panel upper left water connector and the manifold balancing valve in the opposite upper right water connector if installation with H-valves.

3 Installation of Dual Kherr (DK) panel.

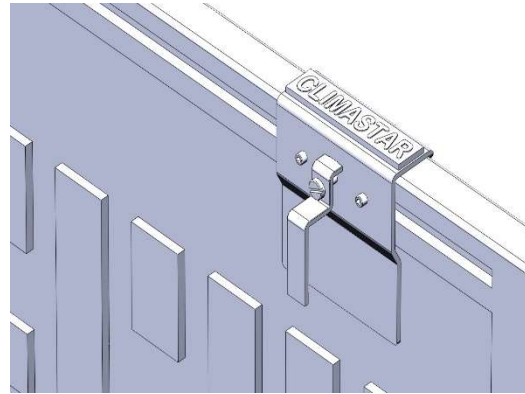
Clamps fitting

After removing the DK panel from the packaging, we will proceed to fit the clamps in the upper part of the panel.

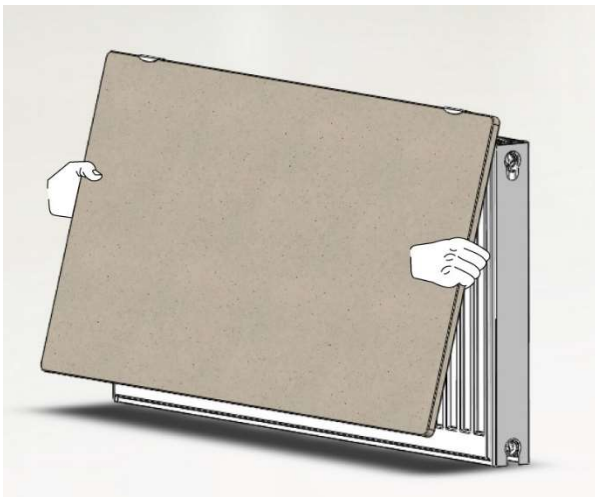
Each clamp contains a shaped plate, a hook and three small screws (two of them Allen screws)



You can fit the plate at a distance of approx. 100 to 150mm from both lateral edges. Fit it with both Allen screws to the panel. Then you can fit the hook to the plate with the longest screw.



Now we can fit the DK panel over the steel panel radiator:



If the support clamp does not properly fit onto the radiator grille, loosen the Allen screws and move until it is perfectly fitted.

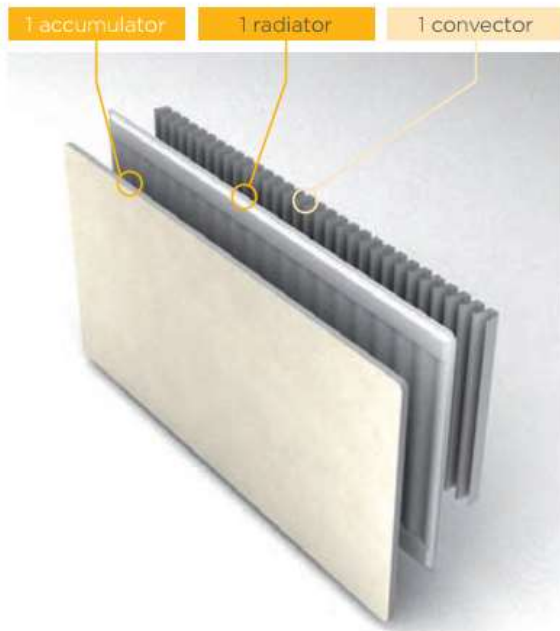


H2O Climastar radiator should have this final appearance.

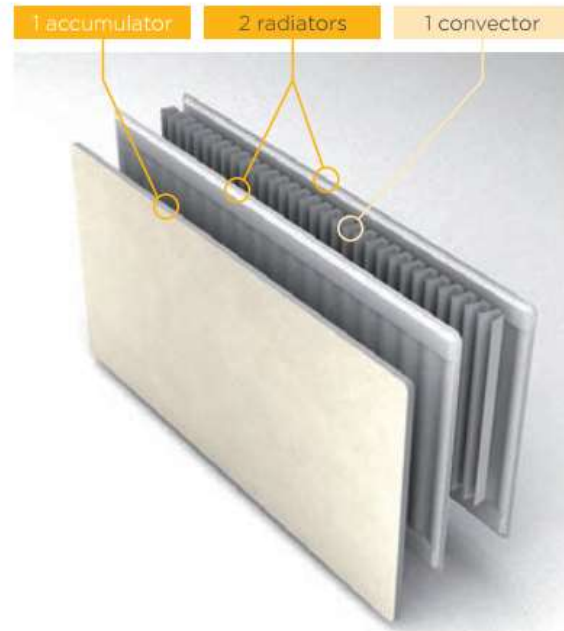
Please note that the DK panel remains slightly elevated to provide with a slimline effect to the whole radiator.

Technical features

DK11
Extra Slim
390 - 780 W



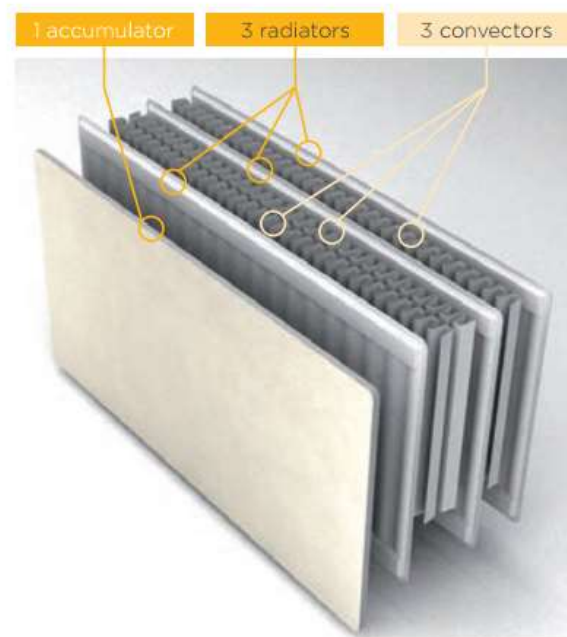
DK21
Extra Slim and powerful
589 - 1178 W



DK22
Powerful and compact
762 - 1524 W



DK33
The most powerful
1088 - 2176 W



Reference	Height (mm)	Length (mm)	Width (mm)	Weight (KG)	Water Capacity (l)	Axis Distance (mm)	Kcal./h ΔT 50°	W ΔT 50°	N Factor
DK H2O 11 - 500	50	50	7	14,24	1,25	445	336	390	1,2814
DK H2O 11 - 1000	50	100	7	29,42	2,5	445	671	780	1,2814
DK H2O 11 - 850 Vertical	100	50	7	27,9	1,75	845	534	621	1,2814

Reference	Height (mm)	Length (mm)	Width (mm)	Weight (KG)	Water Capacity (l)	Axis Distance (mm)	Kcal./h ΔT 50°	W ΔT 50°	N Factor
DK H2O 21 - 750	50	50	9	19,21	2,47	445	507	589	1,2923
DK H2O 21 - 1500	50	100	9	39,43	4,93	445	1014	1178	1,2923
DK H2O 21 - 1200 Vertical	100	50	9	36,85	3,85	845	774	900	1,2923

Reference	Height (mm)	Length (mm)	Width (mm)	Weight (KG)	Water Capacity (l)	Axis Distance (mm)	Kcal./h ΔT 50°	W ΔT 50°	N Factor
DK H2O 22 - 900	50	50	12,5	21,16	2,5	445	656	762	1,3125
DK H2O 22 - 1800	50	100	12,5	43,33	5,0	445	1312	1524	1,3125
DK H2O 22 - 1500 Vertical	100	50	12,5	40,6	3,8	845	1008	1172	1,3125

Reference	Height (mm)	Length (mm)	Width (mm)	Weight (KG)	Water Capacity (l)	Axis Distance (mm)	Kcal./h ΔT 50°	W ΔT 50°	N Factor
DK H2O 33 - 1300	50	50	18	28,21	3,6	445	936	1088	1,3143
DK H2O 33 - 2500	50	100	18	57,43	7,2	445	1873	2176	1,3143
DK H2O 33 - 2100 Vertical	100	50	18	43,25	5,63	845	1470	1709	1,3143

Reference	Height (mm)	Length (mm)	Width (mm)	Weight (KG)	Water Capacity (l)	Axis Distance (mm)	Kcal./h ΔT 50°	W ΔT 50°	N Factor
Towel Warmer DK H2O 11 - 500	50	50	7	14,24	1,25	445	336	390	1,2814
Towel Warmer DK H2O 11 - 800	100	50	7	27,9	1,75	845	671	780	1,2814

Guarantee

DECLARATION OF LIMITED WARRANTY (Executable in countries where products are sold)

CLIMASTAR-GLOBAL COMPANY S.L. guarantees that in the moment of its purchase the product is free of any defect in the materials and in the work force (limited guarantee). The decree law 1/2007 dated 16th November establishes a legal guarantee that obliges the seller of the device. CLIMASTAR, independently of said legal guarantee, offers a commercial and voluntary guarantee; conditions included are similar to those of the legal guarantee, being Climastar responsible for the non-conformities arisen in the terms and conditions mentioned below. Moreover, Climastar offers a total warranty of 10 years in the spare parts.

- 1) Climastar is responsible for the non-conformities arisen within the 6 months following the date of sale. If the non-conformity arises after those 6 months, the user shall prove that the non-conformity already existed when delivered. The user must inform Climastar of said non-conformity in a period inferior to two months.
- 2) To obtain the service under the terms of this warranty it is important to detail the device's purchasing date because the warranty period starts with the purchase invoice of the system customer. However, in no case this warranty will be liable for defects that may arise after thirty-six months from the manufacture date.
- 3) This warranty is strictly limited to the repairing in the factory of the manufacturing defect part or parts of the device, or to the complete replacement of the system when, in the opinion of the manufacturer, it is not possible or is uneconomical. This does not include any other type of expenditure as an installation, assembly, disassembly or transport.
- 4) This warranty is also excluded if it is used with another purpose other than heating, for an alteration, modification, tampering or unauthorized repairing of the product, and by other different causes beyond the manufacturer's reach after the delivery of the product.
- 5) The warranty does not cover the costs and expenses incurred to access the device or installation, such as in hidden locations, heights, non-practicable ceilings... Neither does it include the costs derived from removing or replacing any structural element to access the device or the installation.
- 6) No heating system will be returned to CLIMASTAR without a previous codified and official MERCHANDISE RETURN AUTHORITY. CLIMASTAR assumes no liability for any equipment that is returned without the previously mentioned MERCHANDISE RETURN AUTHORITY.
- 7) CLIMASTAR and/or its agents have the right to decide whether to replace the system or to repair the damaged components. None of these options will extend the original warranty period.
- 8) Any reparation must be done by the Technical Service and authorized by the manufacturer and/or any of its agents; any manipulation done by unauthorized personal will void this warranty. In case of substitution of the device the buyer must go to the selling centre which will be in charge of receiving the system.
- 9) **RESPONSIBILITY LIMITATION:** CLIMASTAR as a manufacturer is not responsible for any personal or material damage that directly or indirectly might result of a no proper installation, from an improper handling or neither for the lack of technical qualified staff, nor for the installation costs which are expressly excluded from this warranty.
- 10) None of the present conditions might be extended or modified without the express consent of CLIMASTAR

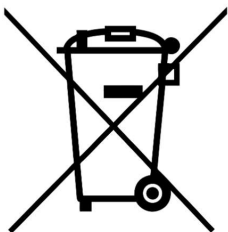
CLIMASTAR

silicium technology

CLIMASTAR GLOBAL COMPANY S.L.
Carretera AS-266 OVIEDO-PORCEYO/ Km.7 Pruvia
33192 - Llanera (Asturias)- Spain
Phone: +34 985 66 80 80 / Fax: +34 985 264 751
www.climastar.es



CARDBOARD PACKAGING CAN BE RECYCLED



DO NOT PLACE THE DEVICE IN THE
GENERAL WASTE (IT SHOULD BE TAKEN TO
A LOCAL RECYCLING CENTRE).