Klass

ALUMINIUM RADIATORS

GLOBAL RADIATORI

Klass

The minimalist style and the functionality of a slim profile complete the wide range of Global die-cast aluminum radiators, meeting the needs to be placed in tight spaces without ever having to lose the comfort of a warm place in terms of heating.
In this way Global expresses its commitment to environmental and human respectful models of production.

HIGH THERMAL OUTPUT Guaranteed by certification, according to the norm EN 442, from the *Politecnico* in Milan. The high thermal output allows less bulky radiators to be installed.
ENERGY SAVING WITH MAXIMUM COMFORT With the Global radiators the regulation of the temperature is easy and inexpensive. An ideal temperature for every environment according to personal needs is rapidly achieved.
VERY LONG DURATION Thanks to the high quality of the material, that gives the maximum guarantee of resistance and duration. The double protection in the "anaphoresis-bath" followed with epoxy power enameling guarantees a perfect and durable finish.
EASIER INSTALLATION Due to the lightness of the aluminum and the sectional elements that allow greater ease and flexibility of installation.
CERTIFIED QUALITY AND ENVIRONMENTAL The ICIM certified on 1994 (norm ISO 9001:2000) the Quality System and on 2001 (norm UNI EN ISO 14001) the System of Environmental Management.

GLOBAL provides a 10 year warranty from the production date

(stamped on the side of each sections)
The conventional warranty grants the sole right to free replacement of the radiator which, due to defects originating from defects in material or wokmanship, is not fit for purpose or its ordinary intended use. Replacement radiators shall be delivered free of charge to the retailer who sold the radiator to the end customer or his installer.

The warranty is valid on the condition that the installation and the system to which the product is connected are performed by qualified/authorised personnel to top workmanship standards and in compliance with the regulations and requirements of the sector in force; it is also valid on the condition that there has been full compliance with warnings and instructions for proper installation, use and maintenance of the product indicated in the technical documentation under the paragraph entitled *correct installation, use and maintenance instructions*, available and downloadable from the *TECHNICAL INFO* section on the **globalradiatori.it** website. The warranty is regulated by further conditions indicated in the technical catalogue and the CONVENTIONAL WARRANTY section on the **globalradiatori.it** website.

model	dimensions mm				Ø connection	dry weight approx. Kg	water content litres	heat output EN 442		exponent n	coefficient Km
	A overall height	B width	C depth	D pipe centres				**ΔT 50°C** Watt	ΔT 30°C Watt		
KLASS 800	882	80	80	800	1”	1,95	0,58	**162**	82	1,33906	0,86204
KLASS 700	782	80	80	700	1”	1,73	0,54	**148**	75	1,34059	0,78054
KLASS 600	682	80	80	600	1”	1,58	0,50	**132**	67	1,32865	0,72728
KLASS 500	582	80	80	500	1”	1,41	0,44	**116**	60	1,30020	0,71593
KLASS 350	432	80	80	350	1”	1,04	0,37	**85**	44	1,29157	0,54598

* 1 Watt = 0,863 Kcal/h

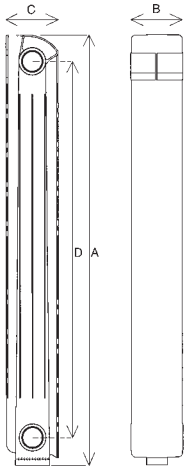
The heat output is certified by the Institute of engineering *Politecnico* in Milano according to the norm EN 442.

CE 05 EN 442

NF WATER-HEATED RADIATORS, CONVECTORS AND RADIANT PANELS

EXAMPLE FOR A DIFFERENT ΔT FROM ΔT 50°C

If you need to know a radiator heat output (P) with different ΔT from Δt 50°C, use the following characteristic equation: $P=Km \cdot \Delta T^{n}$
Example for the Klass 600 model with ΔT = 60°C → $P= 0,72728 \cdot 60^{1,32865} = 168$ Watt



EXAMPLE OF HEAT OUTPUT READINGS WITH DIFFERENT ΔT FROM ΔT 50°C

model	ΔT 20°C	ΔT 25°C	ΔT 30°C	ΔT 35°C	ΔT 40°C	ΔT 45°C	**ΔT 50°C**	ΔT 55°C	ΔT 60°C
KLASS 800	48	64	82	101	120	141	**162**	184	207
KLASS 700	43	58	75	92	110	128	**148**	168	189
KLASS 600	39	52	67	82	98	114	**132**	149	168
KLASS 500	35	47	60	73	87	101	**116**	131	147
KLASS 350	26	35	44	54	64	75	**85**	97	108

The expected heat output is obtained by observing the distances specified below:
≥ cm 3 from the wall
≥ cm 10 from the floor
≥ cm 10 from the shelf or window-sills
In order to prevent the thermal expansion of the system from causing noise in correspondence with the heaters, it is advisable to use plastic brackets to support the radiators (items A004, A025, A027 or A029 in our catalogue).

CORRECT INSTALLATION, USE AND MAINTENANCE INSTRUCTIONS

- The Klass radiators can be used in all hot water or vapour heating installations up to 110°C with a working pressure up to 1600 K Pascal - 16 bar.
- They can be installed in systems with iron, copper or thermoplastic pipes.
- In order to protect the system from scaling and corrosion processes, which affect radiators, pipes and boilers, the INI-CTI 8065 Standard provides for the treatment of the filling water of the system, without distinguishing between aluminium, steel or cast iron.
- Among the various products to be added to the system in accordance with the abovemen tioned UNI Standard, there is a specific one for aluminium, an aliphatic film-forming polyamine marked under the name Cillit-HS 23 Combi in the quantity recommended by the manufacterer. However, it is useful to check the pH value of the water, which should preferably be between 6.5 and 8.
- It is recommended to install automatic air vent valves on each radiator.
- Avoid closing the radiator shut-off valves completely in order to allow any gas that may be inside the radiators to escape through the automatic air vent valve that is compulsory in every heating system, thus avoiding possible overpressure that could damage the radiators.
- If one or more batteries are to be excluded from the circuit, an automatic air vent must be fitted to each battery.
- For a good preservation of the paint, it is necessary that the radiators, before and after installation, are not kept in very humid environments (inside showers, in saunas, in Turkish baths, near swimming pools, etc.). If paint comes off at one point on the radiator, aluminium oxide con from and cause the paint to peel off completely. Do not use porous clay humidifiers.
- To clean the outside of the radiator, do not use abrasive or chemically corrosive/aggressive products of any kind, as the use of water and neutral detergents is sufficient and the operation must be carried out when the radiator is cold to preserve the original brillance of the paint over time.
- Do not place weights and/or objects on the radiators. Do not use radiators for any purpose other than as a heater (e.g.: as a bench/stand, ladder, to store furniture or objects).

ACCESSORIES

A001 galvanized straight bracket

ANGLE BRACKET
A003 galvanized
A004 white plastic

A025 170 mm whit expansion plug bracket (pair)
A026 195 mm whit expansion plug bracket (pair)

A027 universal brackets white blister pack (pair)

A029 square brackets white blister pack (pair)

WHITE WALL BRACKET

A033 800 mm
A034 700 mm
A035 600 mm
A036 500 mm
A037 350 mm

A015 white floor fixing system

A237 white handy grip
A238 chrome handy grip

TOWEL RAILS
A201 48 cm white
A202 48 cm chrome
A207 32 cm white
A208 32 cm chrome

A010 RAL 9010 white or special colours spray can

A017 RAL 9010 white marker

REDUCER KIT
WITH SILICONE GASKETS
AND ADJUSTABLE VALVE
A043 3/8" for 200/D radiators - 800 mm - white or chrome
A046 1/2" for 200/D radiators - 800 mm - white, chrome, special colours
A048 3/4" for 200/D radiators - 800 mm - white or chrome

A007 1" plug gasket 1,50 mm
A008 1" nipple gasket 1,00 mm
A021 silicone gasket for plugs and reducers

A009 1" nipple

A018 Cillit HS 23 Combi liquid

A079 hex key with lever
A080 hex key 500 mm
A081 hex key 800 mm

1" BLIND PLUG OR REDUCER
A005 white
A006 galvanized
A020 white with silicone gasket

A013 1" float type air vent valve right or left

MANUAL AIR VENT VALVE
A012 1/8"
A039 1/4"
A040 3/8"
A050 1/2"

A041 1/2" adjustable manual air vent valve - white

A042 1/2" automatic air vent valve - chrome

A038 1/2" adjustable manual air vent valve - chrome

A019 plug wrench

cod. 10 white glossy	cod. 11 white sand	cod. 12 white matt	cod. 01 ivory glossy	cod. 05 metallic matt	cod. 06 metallic matt	cod. 07 metallic matt	cod. 08 metallic matt	cod. 09 metallic matt	cod. 14 black matt
RAL 9010	RAL 9016		RAL 1013	beige	quartz	dark grey	silver grey	rust	

standard colour | **special colours** see the Colour Card

The colours are indicative. For technical printing reasons, it is no possible to faithfully reproduce the paints used. The colour of the products supplied may differ from that shown in this catalogue.

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