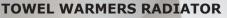




junior



The state of well-being in a comfortable environment, adequately heated, is like the pleasant feeling one experiences when wearing a warm bath-robe. This is the reason for the use of the JUNIOR radiator in homes and hotel bathrooms and anywhere comfort and practicality are needed.

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 warrings 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 globalradiator.it website. The warranty is regulated by further conditions indicated in the technical catalogue and the CONVENTIONAL WARRANTY section on the globalradiator.it website.

THE O

		dimens	ions mm		a	dry weight	water	heat outp	ut EN 442	avpapant	acofficient
Model	А	В	С	D	Ø connection	approx.	content	ΔT 50°C	ΔT 30°C	exponent n	coefficient Km
	overall height	width	depth	pipe centres		Kg	litres	Watts	Watts		
Junior 450/7	730	492	42	450	1"	8,10	1,20	377	201	1,22850	3,08458
Junior 450/10	970	492	42	450	1"	11,30	1,70	488	260	1,22922	3,97959
Junior 450/12	1210	492	42	450	1"	15,40	2,00	597	319	1,22995	4,85827
Junior 450/15	1540	492	42	450	1"	17,70	2,60	743	396	1,23095	6,02033

* 1 Watt = 0,863 Kcal/h

The heat output is certified in according to the norm EN 442.

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 Junior 450/12 model with $\Delta T = 60^{\circ}C \rightarrow P= 4,85827 \cdot 60^{1,22995} = 747$ 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	∆T 55°C	ΔT 60°C	_
Junior 450/ 7	122	161	201	243	287	331	377	424	472	

Junior 450/7	122	161	201	243	287	331	377	424	472
Junior 450/10	158	208	260	315	371	429	488	548	610
Junior 450/12	194	255	319	385	454	525	597	671	747
Junior 450/15	241	317	396	479	565	653	743	835	930

The expected heat output is obtained by observing the distances specified below:

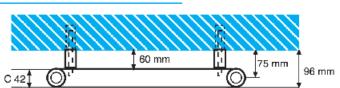
 \geq cm 6 from the wall using special brackey (art. A030)

 \geq cm 10 from the floor or bath-rim

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 (art. A030 in our catalogue).

CORRECT INSTALLATION, USE AND MAINTENANCE INSTRUCTIONS

- The Junior 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 abovementioned UNI Standard, there is a specific one for aluminium, an aliphatic filmforming polyamine marked under the name Cillit-HS 23 Combi (recommended dosage: 1 litre for every 200 litres of water circulating in the system). 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



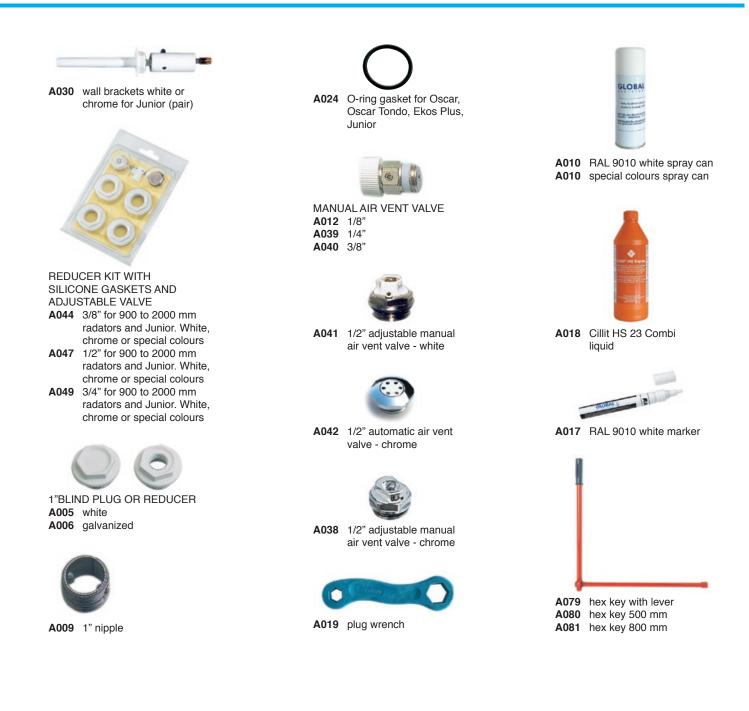


in very humid environments (inside showers, in saunas, in Turkish baths, near swimming pools, etc.). If paint comes off at one point on the radiator, aluminium oxide con from and cause the paint to peel off completely. Do not use porous clay humidifiers.

- 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



tandard colour	special colo	urs see the Colo	ur Card				
cod. 10 white glossy	cod. 11 white sand	cod. 01 ivory glossy	cod. 05 metallic matt beige	cod. 06 metallic matt quartz	cod. 07 metallic matt dark grey	cod. 08 metallic matt silver grey	cod. 09 metallic matt rust
RAL 9010	RAL 9016	RAL 1013	2589	2921	2748	2676	3112



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