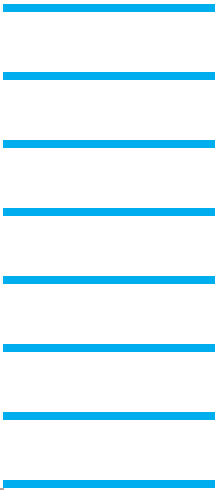


junior



aluminium
radiators



[®]**GLOBAL** 
R A D I A T O R I



towel warming radiator

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.

junior

- **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 radiators have a ten year guarantee starting from the date of manufacture.
This guarantee covers the replacement of those elements that because of manufacturing or material defects are not usable, but only on condition that installation has been executed in compliance with suitable regulations and correct installation.

Model	Dimensions in mm				ø connec- tion	empty weight Kg ca.	contents in water in litres	Heat output EN 442				Exponent n.	Coefficient Km
	A total height	B length	C depth	D pipe centres				ΔT 50°C		ΔT 60°C			
								Watt	*Kcal/h	Watt	*Kcal/h		
Junior 450/ 7	730	492	42	450	1"	8,10	1,20	377	325	472	407	1,22850	3,08458
Junior 450/10	970	492	42	450	1"	11,30	1,70	488	421	610	527	1,22922	3,97959
Junior 450/12	1210	492	42	450	1"	15,40	2,00	597	515	747	645	1,22995	4,85827
Junior 450/15	1540	492	42	450	1"	17,70	2,60	743	641	930	803	1,23095	6,02033
Junior 550/ 7	730	592	42	550	1"	9,20	1,50	417	360	523	451	1,23930	3,27180
Junior 550/10	970	592	42	550	1"	12,80	2,00	561	484	704	608	1,25160	4,19100
Junior 550/12	1210	592	42	550	1"	15,70	2,40	682	589	856	739	1,25030	5,12010
Junior 550/15	1540	592	42	550	1"	19,60	3,10	871	752	1093	944	1,24525	6,67730

* 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

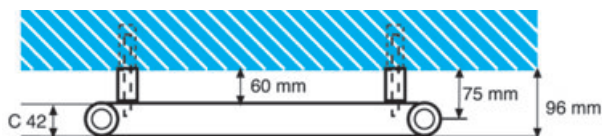
If you need to know a radiator heat output (P) with different ΔT from ΔT 50° C, use the following characteristic equation: $P = Km \cdot \Delta T^n$

Example for the Junior 450/12 model with ΔT = 60° C:

$$P = 4,85827 \cdot 60^{1,22995} = 747 \text{ Watt}$$

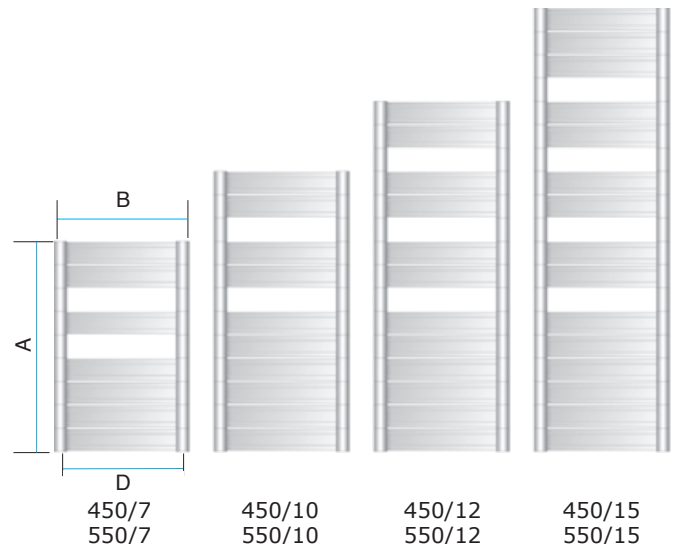
Example of heat output readings with different ΔT from ΔT 50° C

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
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
Junior 550/ 7	134	177	222	268	316	366	417	469	523
Junior 550/10	178	235	296	359	424	491	561	632	704
Junior 550/12	217	286	360	436	516	597	682	768	856
Junior 550/15	278	368	461	559	660	764	871	981	1093



correct installation

- The Junior radiators can be used in all hot water or vapour heating installations up to 110° C with a working pressure up to 600 K Pascal - 6 bar.
- They can be installed in systems using iron, copper or thermoplastic pipes.
- The highest heat output can be obtained by mounting the radiators observing the following distances:
 ≥ cm 6 from the wall using special bracket (art.30)
 ≥ cm 10 from the floor or bath-rim
- In order to protect the heating system against rust and corrosion, it is highly recommended to check the pH level of the water used (preferably between 6.5 and 8) and to introduce a suitable inhibitive additive, Cillit-HS 23 Al or similar, in a quantity equal to 1 litre to every 200 litres of water circulating in the system.
- We recommend the installation of automatic or manual air vent valves for radiators to ensure maximum efficiency.
- The interceptor valves should not be closed completely in order to prevent excessive pressure from building up in the system. It is recommended to install automatic air vent valves on each radiator if it is necessary to isolate one or more radiators from the circuit.



- The plugs or reductions (art. 5 and 6) must be used only with original 'O-R' gasket (art. 24), alternatively the kit (artt. 44, 47, 49) can be used.
- If it is necessary to isolate one or more radiators from the circuit it is advisable to put automatic air vent valves on every radiator.
- To ensure lasting protection of the finished paint surface radiators must not be installed in a permanently wet or damp environment.
- Small paint imperfections or damage can allow aluminium oxidization that will stain or destroy the finished surface.
- It is advisable not to use abrasive products when cleaning the radiator surface.

accessories



30 -White bracket for Junior models (two)



24- O-Ring gasket for Oscar, Oscar Tondo, Ekos Plus, Junior



18- Cillit HS 23 Combi liquid



White, chrome or special colours reduction kit with silicon gasket

- 44- 3/8" for Junior models
- 47- 1/2" for Junior models
- 49- 3/4" for Junior models



Manual air vent valve
12- 1/8"
39- 1/4"
40- 3/8"



10- White or special colours spray paint



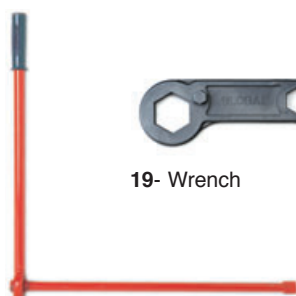
- 5- White plug or reduction
- 6- Galvanized plug or reduction



41- 1/2" white manual air vent valve



17- White marker RAL 9010



19- Wrench



42- 1/2" chrome automatic air vent valve

- 79- Assembly spanner lever
- 80- 500 mm assembly spanner
- 81- 800 mm assembly spanner



38- 1/2" chrome manual air vent valve



9- Nipples 1"

standard colour | special colours see colour card

cod. 10 white RAL 9010	cod. 11 matt white RAL 9016	cod. 01 oyster white RAL 1013	cod. 05 beige sparkle 2589	cod. 06 quartz sparkle 2921	cod. 07 dark gray 2748	cod. 08 silver gray 2676	cod. 09 oxide brown 3112
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