GLOBAL
RADIATORI

aluminium
radiators

junior

junior

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.

CERTIFIED QUALITY

On April 15th 1994 (cert. n. 0162) the ICIM granted the ISO 9001:2000 Quality System normative to Global and on June 8th 2001 (cert. n. 0023A/0) the Environmental Management System UNI EN ISO 14001. Both the certifications are also attested by the IQNet International Certification Network.

performance

- Produced in diecast aluminium alloy.
- Excellent output in relationship to the limited space occupied.
- Working pressure up to 600 K Pascal - 6 bar.
- Double protection 'anaphoresis-bath' followed by epoxy powder enamelling.
- Junior radiators can be used in a dual application version with the insertion of an electric element of suitable wattage, combined with the flow and return of the heating system water.
- Alternatively for electric only heating, an electric element of suitable wattage may be enclosed in a recommended mixture of glycol-ethylene and water.

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.

strong light elegant

CE 05 EN 442

Model	Dimensions in mm				ø connec-tion	empty weight Kg ca.	contents in water in litres	Thermal powers EN 442				Exponent n.	Coefficient Km
								ΔT 50°C		ΔT 60°C			
	A total height	B length	C depth	D pipe centres				**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

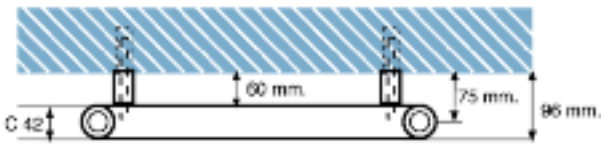
The thermal output is certified in according to the norm EN 442.

Example for a different ΔT from ΔT 50° C

If you need to know a radiator thermal power (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:
$P= 4,85827 \cdot 60^{1,22995}=747$ Watt

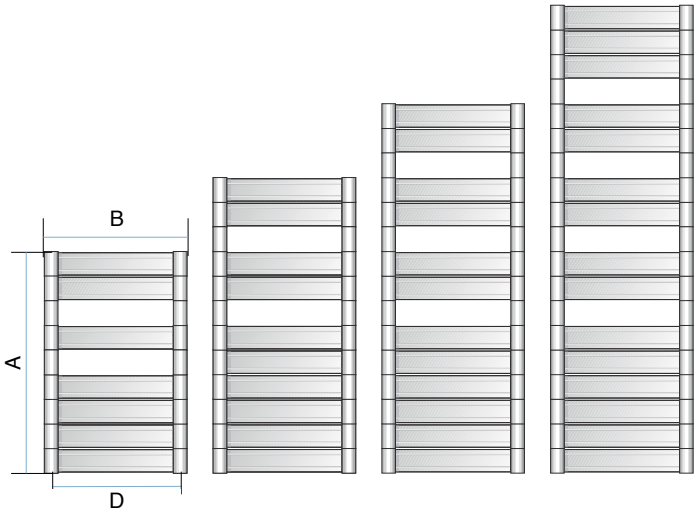
Example of thermal powers readings with different ΔT from ΔT 50° C

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 thermal output can be obtained by mounting the radiators observing the following distances:
  ≥ cm 6 from the wall (special bracket art.30)
  ≥ cm 10 from the floor or bath-rim
- In order to avoid problems due to deposit and corrosion in the heating system when using mixed metals it is recommended that the water pH is checked (preferably between 6,5 and 8) and to introduce a suitable inhibitive additive (Cillit-HS 23 Combi or another product equal or similar) in a quantity equal 1 litre to every 200 litres of circulating water or according to the manufacturer's instructions.
- We recommend the installation of floating automatic or manual air vent valves for radiators to ensure maximum efficiency.
- In order to avoid problems with gases which can be present in the heating system and to eliminate excessive pressure, we suggest not completely closing the valves.



- 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 cleasing the radiator surface.

accessories

30 -Wall bracket for Junior models (two)

5- Painted plug or reduction
6- Galvanized plug or reduction

41- Manual air vent valve 1/2”

18- Cillit Combi liquid

24- O-R gasket for Oscar, Ekos Plus, Junior

44- Reduction kit 3/8” with silicon gasket for model from 900 to 2000 mm, Junior
47- Reduction kit 1/2” with silicon gasket for model from 900 to 2000 mm, Junior
49- Reduction kit 3/4” with silicon gasket for model from 900 to 2000 mm, Junior

19- Spanner for plug

79- Lever for spanner
80- Spanner mm 500
81- Spanner mm 800

9- Nipples 1”

10- Spray paint

standard colour:

white RAL 9010

special colours: see colour card

oyster white RAL 1013	stone grey RAL 7030	beige grey RAL 7006	red lilac RAL 4001	dark grey N. 2748	silver grey N. 2676	oxide brown N. 3112

Quality Certificate

Environment Certificate

GLOBAL di Fardelli Ottorino & C. s.r.l.

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