

O calor ao seu alcance



**GLOBAL**

RADIADORES DE ALUMÍNIO INJECTADO

**Junior**



# Junior

o radiador toalheiro

**A elegância e o calor  
ao seu alcance**

O conforto de um ambiente acolhedor e bem aquecido é semelhante à agradável sensação de uma toalha quente. Eis porque o radiador toalheiro JUNIOR é o ideal para às casas de banho **apartamento, hotel** para um máximo de conforto e estética.

## Características Técnicas

- Elementos acoplados através de niples.
- Óptimas prestações térmicas devido à sua configuração "ultra plana".
- Liga de alumínio injectado UNI 5076.
- Pressão de serviço: 600 Kpa - 6 Bar.
- Tinta epoxy pulverizada.
- Versão termoeléctrica opcional com inserção de uma resistência imersa com a potência adequada.
- Versão apenas para aquecimento eléctrico com uma resistência imersa com a potência adequada.

**GARANTIA:** É concedida pela fábrica uma garantia de 10 anos a partir da data de produção na condição que esta seja efectuada de acordo com as regras e indicações em vigor, nomeadamente que as condições de utilização sejam as normais. Esta garantia é limitada à substituição dos elementos que apresentem defeitos de fabrico.



# Características gerais

Modelo	Dimensões mm.						Ø Rosca	Conteúdo de água	Peso Kg. cerca	Potencia termica NF EN 442				Expoente n.
	A altura	B largura	C profundidade	D entre-eixo	Elemento nº	Espaços nº				ΔT 50 K		ΔT 60 K		
										Watt	* Kcal/h	Watt	* Kcal/h	
JUNIOR 450/7	730	492	42	450	7	2	1"	1,20	8,10	<b>374</b>	<b>321</b>	466	401	1,21465
JUNIOR 450/10	970	492	42	450	10	2	1"	1,70	11,30	<b>495</b>	<b>426</b>	622	535	1,24519
JUNIOR 450/12	1210	492	42	450	12	3	1"	2,00	12,60	<b>592</b>	<b>509</b>	739	636	1,22010
JUNIOR 450/15	1540	492	42	450	15	4	1"	2,60	17,70	<b>732</b>	<b>629</b>	916	788	1,22990
JUNIOR 550/7	730	592	42	550	7	2	1"	1,25	12,40	<b>417</b>	<b>359</b>	523	450	1,23930
JUNIOR 550/10	970	592	42	550	10	2	1"	1,70	15,20	<b>561</b>	<b>482</b>	704	606	1,25160
JUNIOR 550/12	1210	592	42	550	12	3	1"	2,15	16,60	<b>682</b>	<b>586</b>	856	736	1,25030
JUNIOR 550/15	1540	592	42	550	15	4	1"	2,70	20,50	<b>871</b>	<b>749</b>	1093	940	1,24525

## Coefficiente de conversão K para variações térmicas diferentes de 50°C

40°C	41°C	42°C	43°C	44°C	45°C	46°C	47°C	48°C	49°C
0,74	0,76	0,79	0,82	0,84	0,87	0,89	0,92	0,95	0,97
50°C	51°C	52°C	53°C	54°C	55°C	56°C	57°C	58°C	59°C
1,00	1,03	1,05	1,08	1,11	1,14	1,17	1,19	1,22	1,25
60°C	61°C	62°C	63°C	64°C	65°C	66°C	67°C	68°C	69°C
1,28	1,31	1,34	1,37	1,40	1,42	1,45	1,48	1,51	1,53

### Exemplo de Cálculo

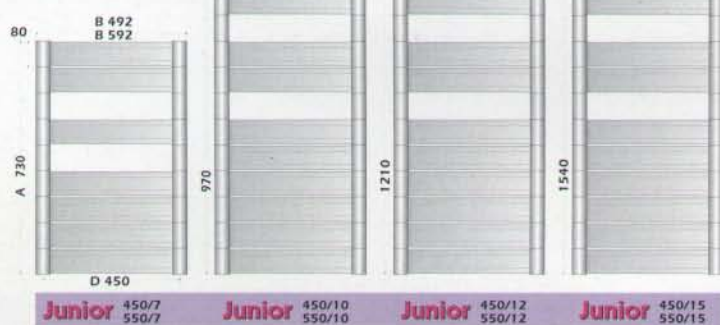
te = temperatura entrada de água = 85°C  
 tu = temperatura saída de água = 71°C  
 ta = temperatura ambiente = 20°C  
 tm = temperatura média de água

$$tm = \frac{te + tu}{2} = \frac{85 + 71}{2} = 78^\circ\text{C}$$

$$\Delta t = tm - ta = 78 - 20 = 58^\circ\text{C}$$

Coefficiente K = 1,21465

Emissão JUNIOR 450/7 = 1,21465 x 374 = 466 Watt



## QUALIDADE CERTIFICADA

O ICIM certificou em 15 de Abril de 1994 o Sistema de Qualidade da GLOBAL em conformidade com a Norma ISO 9002, também atestada pela Organização Europeia.

ICNet

## Correcta Instalação dos radiadores Modelo JUNIOR



Os radiadores JUNIOR foram especificamente estudados para casas de banho.

Para um funcionamento normal do radiador, é aconselhável fixá-lo na parede respeitando as seguintes distâncias:

- 6 cm da parede utilizando para o efeito os suportes especiais fornecidos como acessórios.
- 10 cm do chão ou do bordo superior da parede quando instalados em espaços especialmente estudados para o efeito.

O radiador pode também ser utilizado com tubos em aço, cobre ou material plástico. É CONDIÇÃO NOS CIRCUITOS DE AQUECIMENTO, que se controle o pH da água, que se introduza um inibidor passivo e que se purgue o ar a alta temperatura (água 90°C), no momento do arranque. Colocar purgadores de ar automáticos ou manuais.

Por precaução aconselhamos não fechar totalmente as válvulas dos radiadores para permitir a eliminação de eventuais gases e excessos de pressão.

# Junior

## ACESSÓRIOS



30 - Suporte para radiador JUNIOR



9 - Niples 1"



5 - Tampos ou reduções lacados  
6 - Tampos ou reduções galvanizados



23 - Niples 30 mm. para OSCAR  
24 - Junta tórica para tampos ou niples para OSCAR/JUNIOR



41 - Purgador de ar 1/2 cromado



18 - Liquido Cillit



10 - Spray de tinta

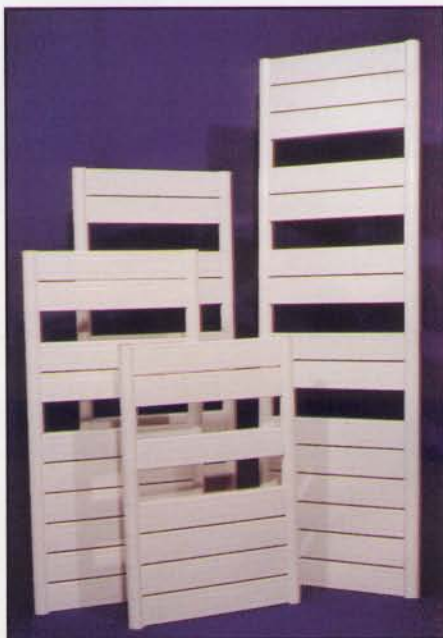


11 - Lata de Tinta



19 - Chave para montagem de tampos

14 - Chave para niples



CERTIFICATO n. 016203  
CERTIFICATE No. 016203

ICIM CERTIFIED QUALITY MANAGEMENT SYSTEM APPROVED BY

**GLOBAL di Fardelli Ottorino & C. S.a.s.**  
(solo operatori OPERATIONAL UNITS)

Via Rondinera, 51 - 24060 Rogno (BG) Italia

ICIM CONFIRMA ALLA SICILIA (IN CONFORMITÀ CON LE DISPOSIZIONI)

**UNI EN ISO 9001:2000**  
PER LE ATTIVITÀ PRINCIPALI PER LE ATTIVITÀ PRINCIPALI

EA: 17

Progettazione e produzione di radiatori componibili in alluminio per impianti di riscaldamento.  
Design and production of aluminum sectional radiators for central heating.

Nome e indirizzo dell'Ente Certificatore: ICIM s.p.a. - Via S. Felice, 10 - 00144 Roma (RM) - Italia  
Il presente certificato è valido in quanto al campo di applicazione, con validità fino al 31/03/2008.  
The certificate is valid in the field of application, with validity until 31/03/2008.

Ente emittente Emission body	Ente emittente Emission body	Ente emittente Emission body
13/04/1994	10/04/2003	10/04/2008

ICIM S.p.A. - Via S. Felice, 10 - 00144 Roma (RM) - Italia

THE INTERNATIONAL CERTIFICATION NETWORK

**CERTIFICATE**

IQNet and its partner  
CISQ/ICIM  
humbly certify that the organization

**GLOBAL di Fardelli Ottorino & C. S.a.s.**  
Via Rondinera, 51  
I-24060 ROGNO (BG)

for the following field of activities

Design and production of aluminum sectional radiators for central heating

has implemented and maintains a  
Quality Management System  
which fulfills the requirements of the following standard

**ISO 9001:2000**  
Issued on: 2003-04-10  
Validly date: 2008-04-09  
Registration Number: IT-3661

Fabrizio Rovera  
President of IQNet

CISQ  
Giuseppe Pini  
President of CISQ

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10 - Branco

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O seu contacto: