

GLOBAL[®]
R A D I A T O R I 



ALUMINIUM RADIATORS

EKOS & EKOS PLUS[®] *patented*

EKOS PLUS®



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 workmanship, 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.

The timeless harmony and flowing lines combined with a succession of panels and voids create a regular and reassuring rhythm.

Ekos is a patented model dedicated to where aesthetics and attention to every detail in order to achieve a *unique* highly expressive and distinctive ambient is of the utmost importance.

EKOS®



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.

Model	dimensions mm				Ø connec- tion	dry weight approx. Kg	water content litres	heat output EN 442		exponent n	coefficient Km
	A	B	C	D				ΔT 50°C	ΔT 30°C		
	overall height	width	depth	pipe centres				Watts	Watts		
EKOS PLUS 2000	2070	50	95	2000	1"	3,34	0,65	196	99	1,33285	1,06514
EKOS PLUS 1800	1870	50	95	1800	1"	3,05	0,59	178	90	1,33883	0,94330
EKOS PLUS 1600	1670	50	95	1600	1"	2,76	0,53	160	80	1,34480	0,82963
EKOS PLUS 1400	1470	50	95	1400	1"	2,46	0,49	143	72	1,32938	0,78649
EKOS PLUS 1200	1270	50	95	1200	1"	2,16	0,44	126	64	1,31396	0,73725
EKOS PLUS 1000	1070	50	95	1000	1"	1,88	0,36	109	57	1,28835	0,70844
EKOS PLUS 900	970	50	95	900	1"	1,73	0,31	101	53	1,27555	0,68929
EKOS 800/95	868	50	95	800	1"	1,77	0,68	87	45	1,29916	0,53732
EKOS 700/95	768	50	95	700	1"	1,49	0,63	78	40	1,29022	0,49989
EKOS 600/95	668	50	95	600	1"	1,36	0,58	69	36	1,28127	0,46027
EKOS 500/95	568	50	95	500	1"	1,11	0,50	61	32	1,26879	0,42369
EKOS 800/130	883	50	95	800	1"	1,92	0,66	108	56	1,29675	0,67867
EKOS 600/130	683	50	95	600	1"	1,56	0,54	87	45	1,27355	0,59635

* 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.

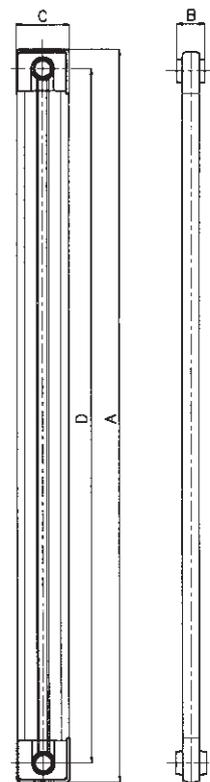


EXAMPLE FOR A DIFFERENT ΔT FROM ΔT 50°C

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 Ekos Plus 1600 model with ΔT = 60°C → $P = 0,82963 \cdot 60^{1,34480} = 204$ Watt

Example for the Ekos 600 model with ΔT = 60°C → $P = 0,46027 \cdot 60^{1,28127} = 87$ 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
EKOS PLUS 2000	58	78	99	122	145	170	196	222	250
EKOS PLUS 1800	52	70	90	110	132	154	178	202	227
EKOS PLUS 1600	47	63	80	99	118	139	160	182	204
EKOS PLUS 1400	42	57	72	89	106	124	143	162	182
EKOS PLUS 1200	38	51	64	79	94	110	126	143	160
EKOS PLUS 1000	34	45	57	69	82	96	109	124	138
EKOS PLUS 900	31	42	53	64	76	89	101	114	128
EKOS 800/95	26	35	45	54	65	76	87	98	110
EKOS 700/95	24	32	40	49	58	68	78	88	98
EKOS 600/95	21	28	36	44	52	60	69	78	87
EKOS 500/95	19	25	32	39	46	53	61	68	76
EKOS 800/130	33	44	56	68	81	95	108	123	137
EKOS 600/130	27	36	45	55	65	76	87	98	110

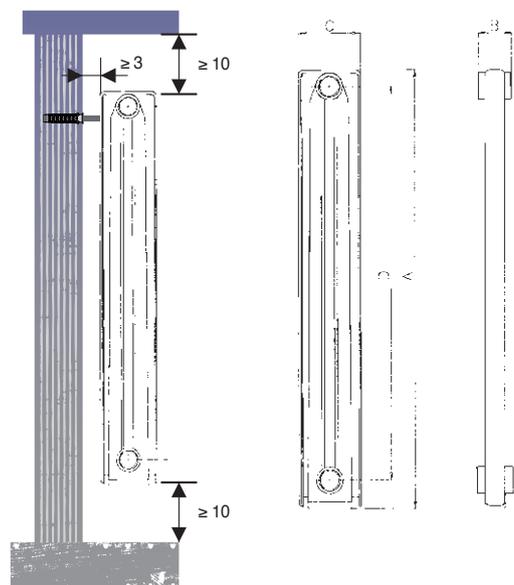
The expected heat output is obtained by observing the distances specified below:

≥ 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).

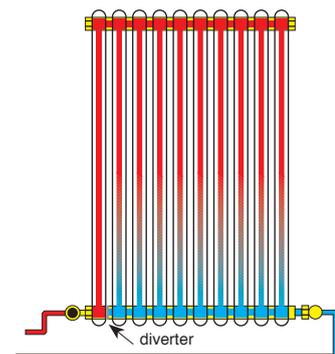


CORRECT INSTALLATION, USE AND MAINTENANCE INSTRUCTIONS

- ◆ The Ekos and Ekos Plus 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 UNI-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 film-forming 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 can form 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 brilliance 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).

ADDITIONAL NOTES FOR EKOS PLUS

- ◆ Important: if the Ekos Plus radiator are connected hydraulically with the connections at the bottom on opposite sides, it is useful to insert a diverter (art. A022) between the first and the second section.
- ◆ The plugs or reductions (artt. A005 and A006) must be used only with original 'O-R' gasket (art. A024) alternatively the kit (artt. A044, A047, A049) can be used.
- ◆ In the case of assembling more sections the nipple 1" mm 30 (art. A023) and the 'O-R' gaskets (art. A024) must be used.



accessories



A011 galvanized straight bracket



ANGLE BRACKET
A003 galvanized
A003 white plastic



A025 170 mm whit expansion plug bracket white (pair)
A026 170 mm whit expansion plug bracket special colours (pair)



A027 universal brackets white blister pack (pair)



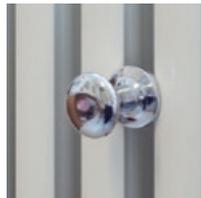
A029 square brackets white blister pack (pair)



A024 O-ring gasket for Ekos Plus, Oscar, Oscar Tondo, Junior



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



A249 white handy grip
A250 chrome handy grip



TOWEL RAILS
A225 45 cm white
A226 45 cm chrome
A231 30 cm white
A232 30 cm chrome



A022 diverter for Oscar, Oscar Tondo, Ekos Plus



A010 RAL 9010 white spray can
A010 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
A044 3/8" for 900 to 2000 mm radiators and Junior white or chrome
A046 1/2" for 200/D radiators - 800 mm white, chrome or special colours
A047 1/2" for 900 to 2000 mm radiators and Junior, white, chrome or special colours
A048 3/4" for 200/D radiators - 800 mm white or chrome
A049 3/4" for 900 to 2000 mm radiators and Junior, white or chrome



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"



A009 1" nipple



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



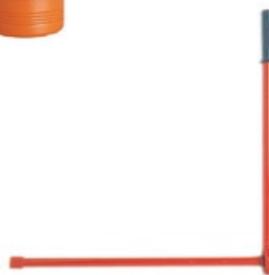
A018 Cillit HS 23 Combi liquid



A042 1/2" automatic air vent valve - chrome



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



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



A019 plug wrench

standard colour

cod. 10
white glossy
RAL 9010

special colours see the Colour Card

cod. 11
white sand
RAL 9016

cod. 01
ivory glossy
RAL 1013

cod. 05
metallic
matt beige
2589

cod. 06
metallic
matt quartz
2921

cod. 07
metallic matt
dark grey
2748

cod. 08
metallic matt
silver grey
2676

cod. 09
metallic matt
rust
3112



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