

EKOS & EKOS PLUS[®] patented



A L U M I N I U M R A D I A T O R S



[®] **GLOBAL** 
R A D I A T O R I

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.

STURDY LIGHTWEIGHT STYLISH

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

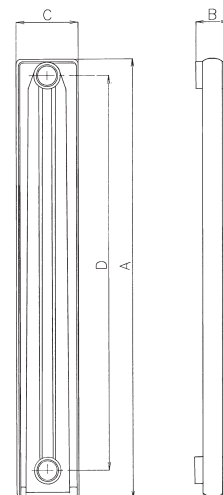
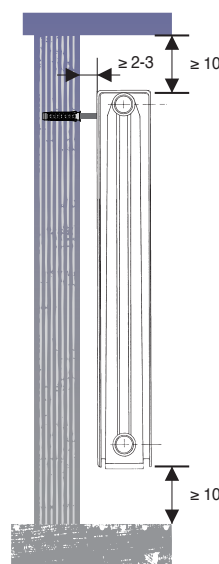
The expected heat output is obtained by observing the distances specified below:

≥ cm 2-3 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).

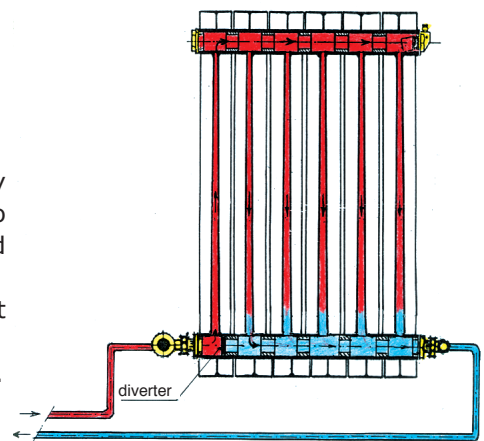


CORRECT INSTALLATION, USE AND MAINTENANCE INSTRUCTIONS

- ❖ 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 600 K Pascal - 6 bar.
- ❖ They can be installed in systems with iron, copper or thermoplastic pipes.
- ❖ In order to avoid problems due to deposit and corrosion in the systems it is recommended that the water pH is checked (preferably between 6.5 and 8) and to introduce a suitable inhibitive additive, for instance Cillit-HS 23 AI or similar in the quantity recommended by the manufacturer.
- ❖ Automatic or manual air vent valves must be installed on radiators.
- ❖ **Avoid complete closure of the radiator shut-off valves in order to allow any gas that there might be inside the same to escape through the automatic air vent valve, which is mandatory in any 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.**
- ❖ To ensure lasting protection of painting, radiators must not be stored in very wet or damp environments before and after installation such as inside showers, saunas, turkish baths, near swimming pools etc. Paint peeling off on parts of the radiator could cause the formation of aluminium oxide and have the paint completely peeled off.
Do not use porous clay humidifiers.
- ❖ For the external cleaning of the radiator and surfaces near the radiator, it is necessary to avoid the use of abrasive or chemically corrosive/aggressive products of any nature, as the use of water and neutral detergent is sufficient. Performing the operation when the radiators are cold to maintain the original brilliance of the paint over time.
Performing the operation when the radiators are cold to maintain 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 heating elements (e.g.: as a support system, as steps, as support for 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 must be used only with original 'O-R' gasket (art. A088) and 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



A001 galvanized straight bracket



ANGLE BRACKET

A003 galvanized
A004 white plastic



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

A026 195 mm white expansion plug bracket white or special colours (pair)



A027 universal brackets white blister pack (pair)

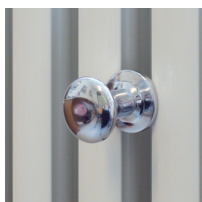
A014 long universal brackets for Ekos 130 white blister pack (pair)



A029 square brackets white blister pack (pair)



A018 Cillit HS 23 Combi liquid



A249 white handy grip
A250 chrome handy grip



TOWEL RAILS

A225 48 cm white
A226 48 cm chrome
A231 32 cm white
A232 32 cm chrome



A022 diverter for Ekos Plus



A017 RAL 9010 white marker



A010 RAL 9010 white or special colour spray can



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 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, 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, white or chrome



A009 nipples 1"

A023 nipples 1" mm 30 for Ekos Plus



SILICONE GASKET

A021 for plugs and reducers

A088 for plug and reducer for 900 to 2000 mm radiators



A024 O-ring gasket for Ekos Plus



A079 hex key with lever

A080 hex key 500 mm

A081 hex key 800 mm



1" BLIND PLUG OR REDUCER

A020 white with silicone gasket

A089 white with silicone gasket for 900 to 2000 mm radiators



A013 1" float type air vent valve right or left



MANUAL AIR VENT VALVE

A012 1/8"

A039 1/4"

A040 3/8"

A050 1/2"



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



A042 1/2" automatic air vent valve - chrome



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



A019 plug wrench



cod. 10
white glossy

RAL 9010



cod. 11
white sand

RAL 9016



cod. 12
white matt

RAL 1013



cod. 01
ivory glossy

RAL 1013



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



cod. 14
black matt

standard colour **special colours** see the Colour Card

The colours are indicative. For technical printing reasons, it is not possible to faithfully reproduce the paints used. The colour of the products supplied may differ from that shown in this catalogue.



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

24060 ROGNO (BG) ITALIA • via Rondinera, 51
tel. ++39 **035977111** • fax ++39 **035977110**
globalradiatori.it • info@globalradiatori.it

