



















fondital



Fondital is the first manufacturer of die-cast aluminium radiators worldwide as well as the international leader in heating systems.

This is the result of the focus on sustainable innovation in R&D, production renewal related to study of the products, the constant development and training of human resources and the attention to well-being of its employees.

Fondital establishes with its clients strategic partnerships that go beyond a simple supplier-client relationship, but are based on information sharing and customer orientation, maintaining focus on environmental sustainability.











VISION

We want to be an innovative company in the production of efficient and sustainable products, creating strong partnerships with our stakeholders, enhancing our local roots to be a global reference.

MISSION

Our mission is to produce heating systems and structural castings for the automotive sector, manufacturing high-quality products using the latest industrial technologies. We are committed to operating efficiently, minimising our energy consumption and promoting sustainable processes that respect the environment. We also want to be a centre of expertise and added value for the territory in which we operate.

FONDITAL WORLDWIDE

Fondital is market leader internationally. Multilingual staff and representation offices assure a constant presence on the global market, as evidence of its customer oriented vision. Fondital is constantly growing, thanks to its ability to interpret customer needs and

changes, and to the ability to constantly adapt its supply to the new end market needs with process and product innovations.





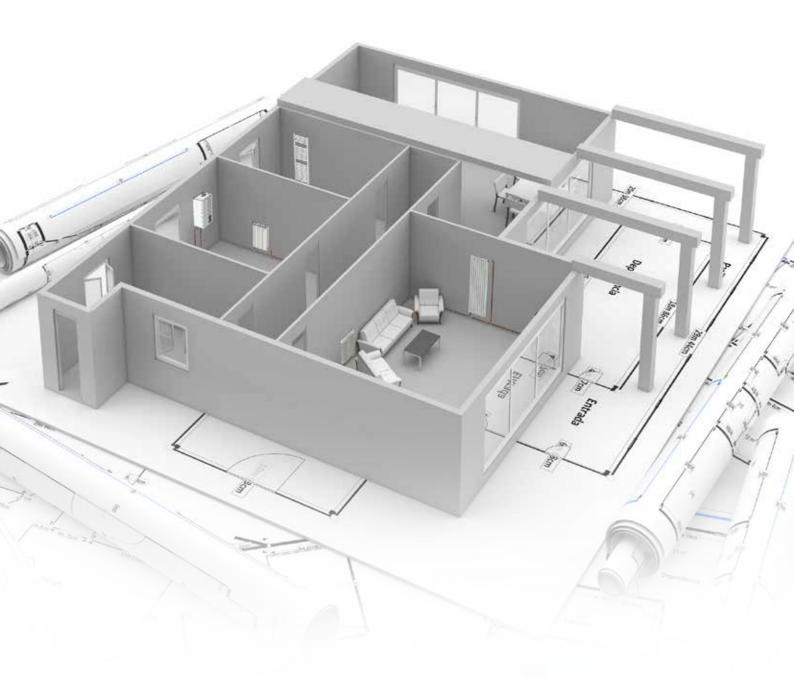
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FONDITAL AND BIM:

INNOVATION IN PROJECT DESIGN

Fondital products full range has been added to BIMobject, the world's largest platform of BIM content.

Therefore, you can download the product files and insert them into the desired project by directly accessing all the specific and detailed information for each prototype.





Download the Fondital products from www.bimobject.com/en/fondital

CONTENTS

	DIE-CAST RADIATORS	PAGE 11
	EXTRUDED RADIATORS	PAGE 33
	TOWEL RAILS	PAGE49
	DESIGN RADIATORS	PAGE 55
X	RADIATOR ACCESSORIES	PAGE 65
0	ELECTRIC RADIATORS	PAGE 75
5	CONVECTIVE GAS STOVES	PAGE 83

PRODUCT RANGE













SYMBOLS



LOW THERMAL INERTIA

The low thermal inertia proper of aluminum, makes the Fondital Radiators the perfect heating body to achieve an installation capable of giving a quick and precise response to temperature variations in the room. This aspect, best highlighted in low temperature installations, is reflected in a better comfort and considerable savings both energetic and economic.



LOW WATER CONSUMPTION

Compared with steel or iron radiators, Fondital's aluminum radiators stand out for a lower water content. This characteristic allows the installation to reach the desired temperature quicker using a lower quantity of combustible at the same time, resulting once again in an energetic and economic saving for the user.



VERSATILITY

The technical properties of aluminum, make Fondital radiators perfectly compatible with all tecent technologies in heating production, as consensing boilers and heat pumps, prooving to be the perfect solution both in replacements and new buildings.



EASY TO STOCK AND INSTALL

Fondital radiators, assemblable at will based on different demands, allow you to have a more functional warehouse, in terms of number of section for battery. Furthermore, in case you need to adjust the energetic demand of a space, you'd be able to simply add or remove aluminum sections without any intrusive renovation work. Moreover, aluminum's lightweight allows an easier handling and installation of the radiator.



100% MADE IN ITALY QUALITY

Fondital manufactures its radiators in Italy, using just certificated raw materials. The aluminum used to create the radiators is provided directly in liquid state by Raffmetal, and respects the UNI EN 1676:1998 European legislations, with values of the chemical composition specific of EN AB 46100 and EN AB 46000 alloys.



CORROSION RESISTANCE

Durability tested at 200 hours in a saline environment, twice as long as required by UNI EN 442.



100% RECYCLABLE ECO-FRIENDLY PRODUCT

The aluminum used to produce Fondital's radiators is 100% recycled and 100% recyclable itself. This is the only possible way to provide to our customers a totally eco-friendly product, made in complete respect of the environment.



DOUBLE PAINTING: ANAPHORESIS + EPOXY POWDERS

The signature look of Fondital's radiators is made possible by a double painting process that ensures the brightness and integrity of the radiator through time. In detail, applying the first coating of anaphoretic painting ensures a better grip throughout the surface of the radiator, making its quality and color unalterable. The second epoxy powder coating gives the standard white RAL 9010 color, making every single section the same shade and brightness, ensuring a perfect match even when assemblying sections form different batteries.



WORKING PRESSURE

Fondital's radiators are internationally thought and able to adapt to every market, this is reflected in their operating characteristics: Max working pressure 16 bar, testing pressure of 24 bar on 100% of production, burst pressure reached in laboratory of 60 bar.



WARRANTY

Using certificated aluminum alloys and the innovative production and control process that Fondital operates, allow us to offer a 10 years warranty on die cast and home-furnishing radiators, extending up to 20 years for the models treated with the anti-corrosion system Aleternum, and 12-15 years for design radiators.



PATENTS

Standing out among the numerous international patents that Fondital's products possess, the new thermoelectric joining technology, that makes our radiators even more resistant, better looking and ecofriendly, and the anti-corrosion internal treatment Aleternum, that ensures a perfect functioning in a wider water pH range, compared with the one of untreated aluminum or steel.



BOTTOM CONNECTION

An installation kit is available to connect the radiator in systems with hydraulic connections from the bottom, according to standard, at a distance of 50 mm of steel plate radiators. The kit includes an integral valve with thermostat option.





DIE-CAST RADIATORS

Aleternum B4	page 12
Calidor Super B4	page 14
Blitz Super B4	page 16
Blitz Super B4 - Coloured	page 18
Blitz B3	page 20
Exclusivo	page 22
Radiator with bottom connection	page 24
Blitz80 B2	page 26
Calidor80 B2	page 28
Ardente C2	page 30





Aleternum[®] B 4





Low thermal inertia



Low water content



Versatility



Maximum working pressure



4 internatonal patents





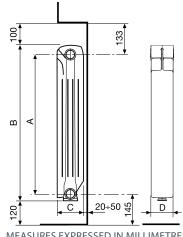


Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Aleternum treatment	Supplied as standard

For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Aleternum B4** are guaranteed **20 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output							
Model	ΔΤ 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70		
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.		
350/100	28,3	47,2	67,9	89,9	113,1	137,3		
500/100	38,0	64,1	92,8	123,8	156,5	190,9		
600/100	43,7	74,0	107,5	143,6	182,0	222,3		
700/100	49,0	83,1	120,7	161,3	204,5	249,8		
800/100	53,6	91,1	132,7	177,7	225,6	276,0		



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V701014	97	407	350	80	G1	0,20	1,2598	0,6506
500/100	V701034	97	558	500	80	G1	0,26	1,2890	0,7991
600/100	V701044	97	658	600	80	G1	0,31	1,2981	0,8950
700/100	V701054	97	758	700	80	G1	0,36	1,2998	0,9986
800/100	V701064	97	858	800	80	G1	0,39	1,3085	1,0635

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
88	A 80	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal	550103
8	A 81	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
0	A 10/1	1" Seals for nipples (without asbestos)	530105
0	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page $65\,$











Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 internatonal patents

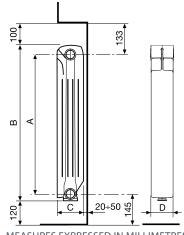




Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections "Fondital logo" from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Calidor Super B4** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output						
Model	ΔΤ 20	ΔΤ 30	ΔT 40	ΔT 50	ΔΤ 60	ΔΤ 70	
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	
350/100	28,3	47,2	67,9	89,9	113,1	137,3	
500/100	38,0	64,1	92,8	123,8	156,5	190,9	
600/100	43,7	74,0	107,5	143,6	182,0	222,3	
700/100	49,0	83,1	120,7	161,3	204,5	249,8	
800/100	53,6	91,1	132,7	177,7	225,6	276,0	



MEASURES	EXPRESSED	INIA	ALL LIMETRES
MILMOUNES	LAFILLUSED	11 11 11	///

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V690014	97	407	350	80	G1	0,20	1,2598	0,6506
500/100	V690034	97	558	500	80	G1	0,26	1,2890	0,7991
600/100	V690044	97	658	600	80	G1	0,31	1,2981	0,8950
700/100	V690054	97	758	700	80	G1	0,36	1,2998	0,9986
800/100	V690064	97	858	800	80	G1	0,39	1,3085	1,0635

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
8.8	A 80	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal	550103
8	A 81	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
0	A 10/1	1" Seals for nipples (without asbestos)	530105
0	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page $65\,$













Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 internatonal patents





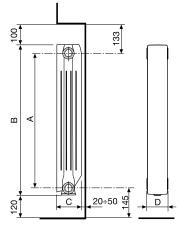




Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections "Fondital logo" from 6 sections			
Colours	PURE WHITE RAL 9010			
Maximum working pressure	16 bar			
Test pressure	24 bar			

All models **Blitz Super B4** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output									
Model	ΔΤ 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70				
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.				
350/100	28,6	48,0	69,4	92,4	116,8	142,3				
500/100	37,6	63,7	92,7	124,0	157,2	192,1				
600/100	43,5	73,8	107,3	143,5	181,9	222,3				
700/100	48,3	82,6	120,9	162,5	206,8	253,6				
800/100	52,7	90,3	132,4	178,2	227,1	278,8				



MEASURES EXPRESSED IN MILLIMETRES

Model	Code PURE WHITE	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
	RAL 9010	(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V693014	97	407	350	80	G1	0,24	1,2818	0,6139
500/100	V693034	97	557	500	80	G1	0,27	1,3027	0,7587
600/100	V693044	97	657	600	80	G1	0,29	1,3015	0,8822
700/100	V693054	97	757	700	80	G1	0,35	1,3238	0,9155
800/100	V693064	97	857	800	80	G1	0,38	1,3301	0,9796

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta\mathsf{T}^{\mathsf{n}}$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

ltem		Description	Code
8.8	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
-00	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
0	A 10/1	1" Seals for nipples (without asbestos)	530105
0	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037
19.0	-	Side kit 350 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550360
	-	Side kit 500 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550361
	-	Side kit 600 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550362
		Side kit 700 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550363
4.5	-	Side kit 800 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550364











CLASSIC: SILVER SPECIAL: HAMMERED BLACK





Low water content



Versatility



Easy to stock and install



Maximum working pressure



Available in 9 colours





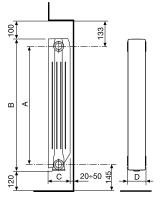
Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections
Colours	see colours table
Maximum working pressure	16 bar
Test pressure	24 bar

Combinable with the models **Garda S/90 coloured**, see p. 38

For aesthetic reasons, it is not recommended to disassemble batteries. Instead, batteries can be assembled together to make larger compositions than those supplied by the factory.

All models **Blitz Super B4** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output									
Model	ΔΤ 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70				
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.				
350/100	28,6	48,0	69,4	92,4	116,8	142,3				
500/100	37,6	63,7	92,7	124,0	157,2	192,1				
600/100	43,5	73,8	107,3	143,5	181,9	222,3				
700/100	48,3	82,6	120,9	162,5	206,8	253,6				
800/100	52,7	90,3	132,4	178,2	227,1	278,8				



Model with CLASSIC	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
color		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	VC05xx014	97	407	350	80	G1	0,24	1,2818	0,6139
500/100	VC05xx034	97	557	500	80	G1	0,27	1,3027	0,7587
600/100	VC05xx044	97	657	600	80	G1	0,29	1,3015	0,8822
700/100	VC05xx054	97	757	700	80	G1	0,35	1,3238	0,9155
800/100	VC05xx064	97	857	800	80	G1	0,38	1,3301	0,9796

Model for colour	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
SPECIAL		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	VC05xx014	97	407	350	80	G1	0,24	1,2818	0,6139
500/100	VC05xx034	97	557	500	80	G1	0,27	1,3027	0,7587
600/100	VC05xx044	97	657	600	80	G1	0,29	1,3015	0,8822
700/100	VC05xx054	97	757	700	80	G1	0,35	1,3238	0,9155
800/100	VC05xx064	97	857	800	80	G1	0,38	1,3301	0,9796

Characteristic equation of the model $\Phi=\text{Km }\Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

(*) Enter the colour code instead of xx. After the last digit (4) add the number of elements required.

For example, to request the Blitz Super B4 350/100 (VC05xx014) Silver colour of 3 elements, the code would be VC05 + 07 + 01403

	CLASSIC							
NEUTRAL WHITE	SILVER	GRAPHITE	SLATE GREY	BLACK COFFEE	BRONZE			
Cod. 06	Cod. 07	Cod. 3R	Cod. 3B	Cod. 3V	Cod. 08			

SPECIAL					
HAMMERED BLACK	PURE METAL				
Cod. 17	Cod. 18				

ltem		Description	Colour	Code
		1/2" plug and fixing kit - Colour: ACCORDING TO THE CHOICE	NEUTRAL WHITE	55014906
		2 Rh G ½" adapters;	SILVER	55014907
		2 Lh G 1/2" adapters;	BRONZE	55014908
00000		4 retaining gaskets for model Blitz	HAMMERED BLACK	55014917
$\bullet \bullet \bullet \bullet \bullet \bullet \bullet$	-	4 retaining gaskets for model Garda 1/2" manual air-purging valve with gasket;	SLATE GREY	5501493B
		1 Rh G 1" blind plug;	GRAPHITE	5501493R
		1 Lh G 1" blind plug;	BLACK COFFEE	5501493V
U U		4 fixing brackets.	PURE METAL	55014918
	A 2/1	RH/LH G 1" Nipple	-	510011
0	A 10/1	1" Seals for nipples (without asbestos)	-	530105
0	A 11/1	1" Seals for plugs (without asbestos)	-	530108

For other accessories, see from page 65













Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 internatonal patents



SIDE KIT, AVAILABLE ON REQUEST AS AN ACCESSORY (AVAILABLE IN PURE WHITE RAL 9010 ONLY)

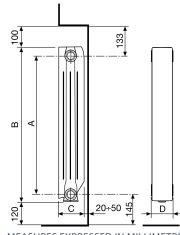


4RRA

Standard supply	500: from 3 to 14 sections "Fondital logo" from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Blitz B3** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output						
Model	ΔT 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70	
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	
500/100	37,1	62,3	89,9	119,5	150,8	183,6	



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/100	V659034	97	557	500	80	G1	0,26	1,2767	0,8097

Characteristic equation of the model $\Phi=\text{Km }\Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

ltem		Description	Code
800	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
80.00	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
0	A 10/1	1" Seals for nipples (without asbestos)	530105
0	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037
	-	Side kit 500 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550361

For other accessories, see from page 65











Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 internatonal patents





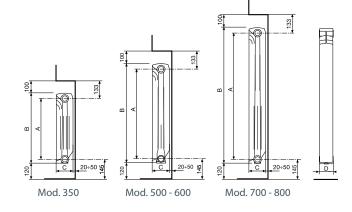




Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections "Fondital logo" from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models Exclusivo are guaranteed 10 years from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output						
Model	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70	
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	
350/100	28,0	47,3	68,6	91,5	115,8	141,3	
500/100	35,4	59,5	86,0	114,5	144,6	176,2	
600/100	40,7	68,9	100,0	133,5	169,1	206,4	
700/100	45,6	77,1	112,0	149,5	189,4	231,3	
800/100	50,1	85,2	124,0	166,0	210,7	257,7	



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V680014	97	407	350	80	G1	0,21	1,2910	0,5865
500/100	V710034	97	556	500	80	G1	0,26	1,2823	0,7588
600/100	V710044	97	657	600	80	G1	0,29	1,2953	0,8410
700/100	V666054	97	757	700	80	G1	0,39	1,2970	0,9358
800/100	V666064	97	857	800	80	G1	0,43	1,3070	0,9992

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=\text{Km }\Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
8.8	A 80	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal	550103
8	A 81	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
0	A 10/1	1" Seals for nipples (without asbestos)	530105
0	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 65



RADIATOR WITH BOTTOM CONNECTION





Low thermal inertia



Low water content



Bottom connection



Easy to stock and install



Maximum working pressure



Exclusive patent





Radiator with bottom connection is made of:

- standard composition (A)
- single section with right (\mathbf{B}) or left (\mathbf{C}) bottom connection
- valve (D)

The three articles need to be ordered separately and assembled by the installer.

For the codes, see the following page.





All models are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.



RADIATOR WITH A RIGHT BOTTOM CON-**NECTION**

ELEMENT:

RADIATOR MODEL WITH ACCESSORY KIT RIGHT BOTTOM CONNECTION INCLUDED (B) VALVE KIT (D) (TO BE ORDERED SEPARATELY)

RADIATOR WITH A LEFT BOTTOM CON-**NECTION**

ELEMENT:

RADIATOR MODEL WITH ACCESSORY KIT LEFT BOTTOM CONNECTION INCLUDED (C)

VALVE KIT **(D)** (TO BE ORDERED SEPARATELY)



CODE OBTAINING EXAMPLE

To create a composition Calidor Super B4 600/100 with 10 sections with right bottom connection and a bottom connection valve with bypass, please order:

- 1 radiator Calidor Super B4 600/100 with **9** sections: **V69004409** (see page 17)
- 1 section with right bottom connection: **V690044DX** (see the following tables)
- 1 bottom connection valve kit with bypass: **520205DS** (see the table at the end of the page)

Model Calidor Super B4	Code
350/100 DX	V686014DX
350/100 SX	V686014SX
500/100 DX	V690034DX
500/100 SX	V690034SX
600/100 DX	V690044DX
600/100 SX	V690044SX
700/100 DX	V690054DX
700/100 SX	V690054SX
800/100 DX	V690064DX
800/100 SX	V690064SX

Model Blitz Super B4	Code
350/100 DX	V693014DX
350/100 SX	V693014SX
500/100 DX	V693034DX
500/100 SX	V693034SX
600/100 DX	V693044DX
600/100 SX	V693044SX
700/100 DX	V693054DX
700/100 SX	V693054SX
800/100 DX	V693064DX
800/100 SX	V693064SX

For the heat output values see corresponding model on page 17

Model Exclusivo	Code
350/100 DX	V680014DX
350/100 CV	V600014CV

350/100 DX	V680014DX
350/100 SX	V680014SX
500/100 DX	V710034DX
500/100 SX	V710034SX
600/100 DX	V710044DX
600/100 SX	V710044SX

For the heat output values see corresponding model on page 19

Model Master	Code
350/100 DX	V686014DX
350/100 SX	V686014SX
500/100 DX	V715034DX
500/100 SX	V715034SX
600/100 DX	V715044DX
600/100 SX	V715044SX

For the heat output values see corresponding model on page 23

For the heat output values see corresponding model on page 25

ltem	Description	Code
	RH-LH VALVE BOTTOM TO WALL FITTING KIT - H-valve with 50-mm pitch - 3/4 Eurocone threads - Material nickel-plated brass with check valve - With screws/O-rings to install bottom fitting element	520215M
	RH-LH VALVE BOTTOM TO FLOOR FITTING KIT - H-valve with 50-mm pitch - 3/4 Eurocone threads - Material nickel-plated brass with check valve - With screws/O-rings to install bottom fitting element	520216P
E CO	RH-LH VALVE BOTTOM FITTING KIT WITH BYPASS - H-valve with 50-mm pitch - 3/4 Eurocone threads - Material nickel-plated brass with closing device and adjustable bypass - With screws/O-rings to install bottom fitting element - Adjustable bypass for single-pipe system	520205DS









Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 internatonal patents

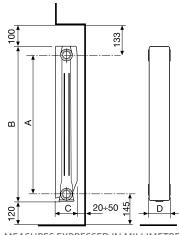




Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500: from 3 to 14 sections "Fondital logo" from 6 sections				
Colours	PURE WHITE RAL 9010				
Maximum working pressure	16 bar				
Test pressure	24 bar				

All models **Blitz80 B2** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

		Hosto	autout				
ΔT 20	Heat output ΔT 20 ΔT 30 ΔT 40 ΔT 50 ΔT 60 ΔT 70						
W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.		
30,5	51,3	74,2	98,8	124,8	152,2		
34,7	58,6	85,1	113,5	143,7	175,5		
39,7	67,2	97,6	130,4	165,3	201,9		
44,0	74,5	108,2	144,7	183,3	224,0		



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/80	V617134	77	557	500	80	G1	0,25	1,2833	0,6524
600/80	V617144	77	657	600	80	G1	0,28	1,2935	0,7203
700/80	V617154	77	757	700	80	G1	0,39	1,2993	0,8088
800/80	V617164	77	857	800	80	G1	0,44	1,2995	0,8966

Characteristic equation of the model $\Phi {=} \mathsf{Km} \; \Delta T^n$

Model

500/80 600/80 700/80 800/80

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
8.8	A 80	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal	550103
8	A 81	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
0	A 10/1	1" Seals for nipples (without asbestos)	530105
0	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 65









Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 international patents



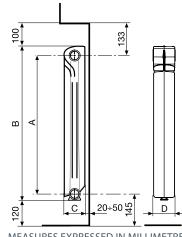
Mod. 500



Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500: from 3 to 14 sections "Fondital logo" from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models Calidor80 B2 are guaranteed 10 years from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	1								
	Heat output								
Model	ΔΤ 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70			
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.			
500/80	30,6	51,8	75,1	100,2	126,9	154,8			
600/80	35,7	59,8	86,4	114,9	145,1	176,6			
700/80	40,8	68,7	99,6	132,7	167,8	204,7			
800/80	44,6	75,6	109,9	147,1	186,5	228,0			



MEASURES	EXPRESSED	IN M	II I IMETRE
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Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/80	V622134	77	556	500	80	G1	0,24	1,2935	0,6358
600/80	V622144	77	658	600	80	G1	0,28	1,2774	0,7765
700/80	V622154	77	757	700	80	G1	0,39	1,2878	0,8608
800/80	V622164	77	858	800	80	G1	0,42	1,3031	0,8984

Characteristic equation of the model $\Phi {=} \mathsf{Km} \; \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
8.8	A 80	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal	550103
8	A 81	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
0	A 10/1	1" Seals for nipples (without asbestos)	530105
0	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page $65\,$



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Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 internatonal patents

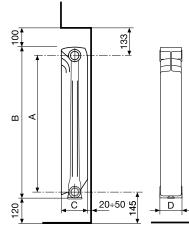




Standard supply	600/500: from 3 to 14 sections "Fondital logo" from 6 sections			
Colours	PURE WHITE RAL 9010			
Maximum working pressure	16 bar			
Test pressure	24 bar			

All models **Ardente C2** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

			output			
Model	ΔT 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/100	33,9	57,0	82,4	109,8	138,7	169,0
600/100	39,3	66,2	95,7	127,5	161,2	196,5



MEASURES EXPRESSED IN MILLIMETRES

Model Code	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/100	V639034	97	556	500	80	G1	0,26	1,2835	0,7240
600/100	V639044	97	656	600	80	G1	0,29	1,2851	0,8361

Characteristic equation of the model $\Phi=\text{Km }\Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description		
800	A 80	The radiator fixing kit includes: 2 Rh G $\frac{1}{2}$ " adapters; 2 Lh G $\frac{1}{2}$ " adapters, galvanized and painted; 4 sealing gaskets; 1 G $\frac{1}{2}$ " manual bleed valve with seal; 1 G $\frac{1}{2}$ " blind plug with seal		
0.00	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets		
	A 2/1	RH/LH G 1″ Nipple		
0	A 10/1	1" Seals for nipples (without asbestos)	530105	
0	A 11/1	1" Seals for plugs (without asbestos)	530108	
	A 20	Kit with two adjustable coated brackets	550037	

For other accessories, see from page 65





EXTRUDED RADIATORS

Garda S/90	page 34
Garda S/90 - Coloured	page 36
Garda Dual 80	page 38
Garda S/90 Aleternum	page 40
Garda Dual 80 Aleternum	page 42
Garda S/90 AC	page 44













Low water content



Versatility



Easy to stock and install



Maximum working pressure

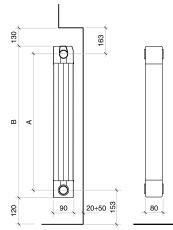




Standard supply	3, 4, 5, 6 sections		
Colours	PURE WHITE RAL 9010		
Maximum working pressure	16 bar		
Test pressure	24 bar		
Included in the package	Water diaphragm (retainer cap)		

All models **Garda S/90** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output									
Model	ΔΤ 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70				
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.				
900	52,3	90,9	134,4	182,0	233,3	287,7				
1000	55,9	97,2	143,9	195,0	250,0	308,5				
1200	64,1	111,3	164,6	223,0	285,8	352,5				
1400	71,9	124,8	184,6	250,0	320,3	395,1				
1600	77,5	135,9	202,4	275,0	354,8	439,2				
1800	86,5	150,0	221,6	300,0	384,2	473,6				
2000	90,7	159,5	237,9	324,0	418,0	518,0				



MEASURES EXPRESSED IN MILLIMETRES

Model (Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	83A014	90	966	900	80	G1	0,43	1,3605	0,8886
1000	83B014	90	1066	1000	80	G1	0,47	1,3630	0,9426
1200	83C014	90	1266	1200	80	G1	0,55	1,3610	1,0864
1400	83D014	90	1466	1400	80	G1	0,62	1,3600	1,2227
1600	83E014	90	1666	1600	80	G1	0,70	1,3843	1,2260
1800	83F014	90	1866	1800	80	G1	0,78	1,3570	1,4846
2000	83G014	90	2066	2000	80	G1	0,86	1,3905	1,4083

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta\mathsf{T}^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

ltem		Description	Code
	A 72	1/2" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ½"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ½"; 2 Lh adapters ½"; 4 O-ring seals; 2 Supporting brackets	550118
	A 73	¾" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ¾"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ¾"; 2 Lh adapters ¾"; 4 O-ring seals; 2 Supporting brackets	550119
	A 30/1	Rubber lockshield plug (water diaphragm)	521011
0	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 65











CLASSIC: NEUTRAL WHITE CLASSIC: GRAPHITE CLASSIC: BLACK COFFEE



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure



Available in 8 colours





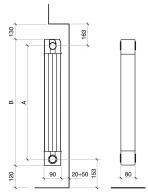
Standard supply	3, 4, 5, 6 sections
Colours	see colours table
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)

Combinable with the models **Blitz Super B4 coloured**, see p. 20

For aesthetic reasons, it is not recommended to disassemble batteries. Instead, batteries can be assembled together to make larger compositions than those supplied by the factory.

All models **Garda S/90** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output									
Model	ΔΤ 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70				
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.				
900	52,3	90,9	134,4	182,0	233,3	287,7				
1000	55,9	97,2	143,9	195,0	250,0	308,5				
1200	64,1	111,3	164,6	223,0	285,8	352,5				
1400	71,9	124,8	184,6	250,0	320,3	395,1				
1600	77,5	135,9	202,4	275,0	354,8	439,2				
1800	86,5	150,0	221,6	300,0	384,2	473,6				
2000	90,7	159,5	237,9	324,0	418,0	518,0				



MEASURES EXPRESSED IN MILLIMETRES

Model with CLASSIC	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
color		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	81AGS <i>xx</i> 4	90	966	900	80	G1	0,43	1,3605	0,8886
1000	81BGS <i>xx</i> 4	90	1066	1000	80	G1	0,47	1,3630	0,9426
1200	81CGSxx4	90	1266	1200	80	G1	0,55	1,3610	1,0864
1400	81DGSxx4	90	1466	1400	80	G1	0,62	1,3600	1,2227
1600	81EGS <i>xx</i> 4	90	1666	1600	80	G1	0,70	1,3843	1,2260
1800	81FGS <i>xx</i> 4	90	1866	1800	80	G1	0,78	1,3570	1,4846
2000	81GGS <i>xx</i> 4	90	2066	2000	80	G1	0,86	1,3905	1,4083

Model for colour	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
SPECIAL		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	81AGSxx4	90	966	900	80	G1	0,43	1,3605	0,8886
1000	81BGSxx4	90	1066	1000	80	G1	0,47	1,3630	0,9426
1200	81CGSxx4	90	1266	1200	80	G1	0,55	1,3610	1,0864
1400	81DGSxx4	90	1466	1400	80	G1	0,62	1,3600	1,2227
1600	81EGS <i>xx</i> 4	90	1666	1600	80	G1	0,70	1,3843	1,2260
1800	81FGSxx4	90	1866	1800	80	G1	0,78	1,3570	1,4846
2000	81GGSxx4	90	2066	2000	80	G1	0,86	1,3905	1,4083

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta\mathsf{T}^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

 $(\hbox{\ensuremath{^{*}}}) \ Enter the colour code instead of xx. \ After the last digit (4) add the number of elements required.$

For example, to request the Garda S/90 (81AGSxx4) model 900 Silver colour of 4 el., the code would be 81AGS + 07 + 404

	CLASSIC									
NEUTRAL WHITE	SILVER	GRAPHITE	SLATE GREY	BLACK COFFEE	BRONZE					
Cod. 06	Cod. 07	Cod. 3R	Cod. 3B	Cod. 3V	Cod. 08					

SPECIAL
HAMMERED BLACK
Cod. 17

Item		Description	Colour	Code
© RUNRUN		1/2" plug and fixing kit - Colour: ACCORDING TO THE CHOICE	NEUTRAL WHITE	55014906
OOmnun		2 Rh G ½" adapters; 2 Lh G ½" adapters;	SILVER	55014907
		4 retaining gaskets for model Blitz	BRONZE	55014908
	-	4 retaining gaskets for model Garda	HAMMERED BLACK	55014917
		1/2" manual air-purging valve with gasket;	SLATE GREY	5501493B
		1 Rh G 1" blind plug; 1 Lh G 1" blind plug;	GRAPHITE	5501493R
		4 fixing brackets.	BLACK COFFEE	5501493V
	-	Rubber lockshield plug (water diaphragm)	-	521011
0	A 32/1	O-ring seal for nipples, plugs and adapters	-	530102
	A 33/1	Nipple for home furnishing radiators	-	521012













Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure

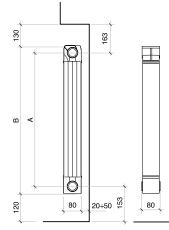




3, 4, 5, 6 sections
PURE WHITE RAL 9010
16 bar
24 bar
Water diaphragm (retainer cap)

All models **Garda Dual 80** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	Heat output									
Model	ΔT 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70				
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.				
900	49,7	86,6	128,5	174,4	223,8	276,4				
1000	52,9	92,9	138,6	189,1	243,6	301,9				
1200	60,2	105,8	157,7	215,0	276,9	343,1				
1400	67,6	118,6	176,8	241,0	310,4	384,4				
1600	73,9	130,2	194,7	266,0	343,2	425,8				
1800	81,1	142,1	211,5	288,0	370,6	458,7				
2000	86,7	152,4	227,3	310,0	399,4	494,9				



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	82F014	80	966	900	80	G1	0,47	1,3695	0,8217
1000	82G014	80	1066	1000	80	G1	0,52	1,3908	0,8198
1200	82H014	80	1266	1200	80	G1	0,60	1,3889	0,9391
1400	821014	80	1466	1400	80	G1	0,70	1,3875	1,0585
1600	82L014	80	1666	1600	80	G1	0,79	1,3980	1,1213
1800	82M014	80	1866	1800	80	G1	0,88	1,3832	1,2864
2000	82N014	80	2066	2000	80	G1	0,96	1,3902	1,3473

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta\mathsf{T}^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

ltem		Description	Code
	A 72	½" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ½"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ½"; 2 Lh adapters ½"; 4 O-ring seals; 2 Supporting brackets	550118
00000	A 73	¾" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ¾"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ¾"; 2 Lh adapters ¾"; 4 O-ring seals; 2 Supporting brackets	550119
•	A 30/1	Rubber lockshield plug (water diaphragm)	521011
0	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 65









Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure



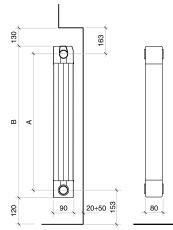


Standard supply	3, 4, 5, 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)
Aleternum treatment	Supplied as standard

For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Garda S/90 Aleternum** are guaranteed **20 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

		Heat output								
Model	ΔT 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70				
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.				
900	52,3	90,9	134,4	182,0	233,3	287,7				
1000	55,9	97,2	143,9	195,0	250,0	308,5				
1200	64,1	111,3	164,6	223,0	285,8	352,5				
1400	71,9	124,8	184,6	250,0	320,3	395,1				
1600	77,5	135,9	202,4	275,0	354,8	439,2				
1800	86,5	150,0	221,6	300,0	384,2	473,6				
2000	90,7	159,5	237,9	324,0	418,0	518,0				



MEASURES EXPRESSED IN MILLIMETRES

Model C	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	83AA14	90	966	900	80	G1	0,43	1,3605	0,8886
1000	83BA14	90	1066	1000	80	G1	0,47	1,3630	0,9426
1200	83CA14	90	1266	1200	80	G1	0,55	1,3610	1,0864
1400	83DA14	90	1466	1400	80	G1	0,62	1,3600	1,2227
1600	83EA14	90	1666	1600	80	G1	0,70	1,3843	1,2260
1800	83FA14	90	1866	1800	80	G1	0,78	1,3570	1,4846
2000	83GA14	90	2066	2000	80	G1	0,86	1,3905	1,4083

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta\mathsf{T}^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

ltem		Description	Code
	A 72	½" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ½"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ½"; 2 Lh adapters ½"; 4 O-ring seals; 2 Supporting brackets	550118
00000	A 73	¾" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ¾"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ¾"; 2 Lh adapters ¾"; 4 O-ring seals; 2 Supporting brackets	550119
•	A 30/1	Rubber lockshield plug (water diaphragm)	521011
0	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 65



COLLEG Aleternum







Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure



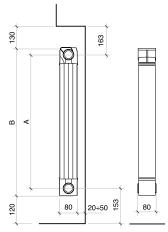


Standard supply	3, 4, 5, 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)
Aleternum treatment	Supplied as standard

For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Garda Dual 80 Aleternum** are guaranteed **20 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

		Heat output								
Model	ΔT 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70				
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.				
900	49,7	86,6	128,5	174,4	223,8	276,4				
1000	52,9	92,9	138,6	189,1	243,6	301,9				
1200	60,2	105,8	157,7	215,0	276,9	343,1				
1400	67,6	118,6	176,8	241,0	310,4	384,4				
1600	73,9	130,2	194,7	266,0	343,2	425,8				
1800	81,1	142,1	211,5	288,0	370,6	458,7				
2000	86,7	152,4	227,3	310,0	399,4	494,9				



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	82FA14	80	966	900	80	G1	0,47	1,3695	0,8217
1000	82GA14	80	1066	1000	80	G1	0,52	1,3908	0,8198
1200	82HA14	80	1266	1200	80	G1	0,60	1,3889	0,9391
1400	82IA14	80	1466	1400	80	G1	0,70	1,3875	1,0585
1600	82LA14	80	1666	1600	80	G1	0,79	1,3980	1,1213
1800	82MA14	80	1866	1800	80	G1	0,88	1,3832	1,2864
2000	82NA14	80	2066	2000	80	G1	0,96	1,3902	1,3473

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta\mathsf{T}^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

Item		Description	Code
	A 72	1/2" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ½"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ½"; 2 Lh adapters ½"; 4 O-ring seals; 2 Supporting brackets	550118
00000	A 73	¾" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ¾"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ¾"; 2 Lh adapters ¾"; 4 O-ring seals; 2 Supporting brackets	550119
•	A 30/1	Rubber lockshield plug (water diaphragm)	521011
0	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 65









Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure





Standard supply	3, 5, 7, 9 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)

All models **Garda S/90 AC** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.





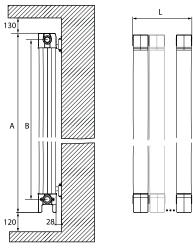
BOTTOM CENTRE CONNECTION

BOTTOM SIDE CONNECTION

To connect the radiator with a valve at the bottom on one side, you will need to join two Garda S/90 AC radiators using dedicated accessories

Art. 550111E + Art. 520118.

	Heat output								
Model	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70			
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.			
1200/3	192	334	494	669	857	1058			
1200/5	320	556	823	1115	1429	1763			
1200/7	449	779	1152	1561	2001	2468			
1200/9	577	1001	1481	2007	2572	3173			
1400/3	216	374	554	750	961	1185			
1400/5	359	624	923	1250	1602	1975			
1400/7	503	874	1292	1750	2242	2765			
1400/9	647	1123	1661	2250	2883	3555			



MEASURES EXPRESSED IN MILLIMETRES

	Heat output					
Model	ΔT 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
1600/3	233	408	607	825	1064	1318
1600/5	388	680	1012	1375	1774	2196
1600/7	543	951	1417	1925	2484	3074
1600/9	698	1223	1822	2475	3193	3953
1800/3	260	450	665	900	1153	1421
1800/5	433	750	1108	1500	1921	2368
1800/7	606	1050	1551	2100	2689	3315
1800/9	779	1350	1995	2700	3458	4262

Model	Code	Depth	Height	Centre distance	Length *	Connection diameters	Water capacity	Exponent	Coefficient
	300.0	mm	(B) mm	(A) mm	(L) mm	inches	litres/sect.	n	Km
1200/3	83CF1403	90	1287	1187	260	G1/2	1,65	1,3610	3,2592
1200/5	83CF1405	90	1287	1187	420	G1/2	2,75	1,3610	5,4320
1200/7	83CF1407	90	1287	1187	580	G1/2	3,85	1,3610	7,6048
1200/9	83CF1409	90	1287	1187	740	G1/2	4,95	1,3610	9,7776
1400/3	83DF1403	90	1487	1387	260	G1/2	1,86	1,3600	3,6681
1400/5	83DF1405	90	1487	1387	420	G1/2	3,10	1,3600	6,1135
1400/7	83DF1407	90	1487	1387	580	G1/2	4,34	1,3600	8,5589
1400/9	83DF1409	90	1487	1387	740	G1/2	5,58	1,3600	11,0043
1600/3	83EF1403	90	1687	1587	260	G1/2	2,10	1,3843	3,6780
1600/5	83EF1405	90	1687	1587	420	G1/2	3,50	1,3843	6,1300
1600/7	83EF1407	90	1687	1587	580	G1/2	4,90	1,3843	8,5820
1600/9	83EF1409	90	1687	1587	740	G1/2	6,30	1,3843	11,034
1800/3	83FF1403	90	1887	1787	260	G1/2	2,34	1,3570	4,4538
1800/5	83FF1405	90	1887	1787	420	G1/2	3,90	1,3570	7,4230
1800/7	83FF1407	90	1887	1787	580	G1/2	5,46	1,3570	10,3922
1800/9	83FF1409	90	1887	1787	740	G1/2	7,02	1,3570	13,3614

 $[\]ensuremath{^{*}}$ The measure includes the overall dimensions of the side caps.

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi{=}\text{Km}\ \Delta T^n$ Reference EN 442-1:2014.



50 mm centre distance valves with by-pass - nickel-plated finish

ltem	Description	Code
	Angle valve with thermostat option	847V81210Q
	Straight valve with thermostat option	847V81610Q

50 mm centre distance valves with by-pass - \boldsymbol{white} finish

Item	Description	Code
-	Angle valve with thermostat option	847V81210E
weight.	Straight valve with thermostat option	847V81610E

Complementary accessories

Item	Description	Code
	Extension kit with O-ring	550140
	Thermostatic head with liquid sensor - Colour: white/chrome	847A40300A
PQ.	Angle adapter for thermostatic head	847M02610A

Components supplied with the **radiator**

ltem	Description	Code
FILE	Fixing system kit and plugs	550128
	Blind plug with groove, 1" right thread	525013
	Blind plug with groove, 1" left thread	525113
Reduction with groove, 1" ÷ ½ right thread		526241
۹	Reduction with groove, 1" $\div \frac{1}{2}$ left thread	526341

Components supplied with the valve

Item	Description	Code
	Plastic probe 11 mm - 110 mm long	847NV81109A
	Flow diverter	847A31301A
The state of the s	Nut and pipe union for valve - Colour: Chrome	847A34450B
0	½" O-Ring for pipe union connection	847A15029A

Components for battery composition with **side connections**

ltem	Description	Code
•	½" Plug to close central element	520118
	Plastic wrench for plugs	560257
	Nipple metal wrench kit 1" and ¾" (50 cm) with lever and plastic wrench for plugs	550092
	Nipple metal wrench 1" (80 cm) without lever	550090
-	Nipple metal wrench 1" (100 cm) without lever	550093

Copper pipe adapters

Pipe size	Connection	Nickel	Chrome
(Ø mm)		Code	Code
10	3⁄4" EK	847A43301Q	847A33501B
12	³¼″ EK	847A43302Q	847A33502B
14	3/4" EK	847A43303Q	847A33503B
15	3⁄4″ EK	847A43304Q	847A33504B
16	³¼″ EK	847A43305Q	847A33505B
18	3⁄4″ EK	-	847A33506B



Multilayer pipe adapters

Pipe size	Connection	Nickel	Chrome
(Ø mm)		Code	Code
14 x 2	3⁄4" EK	847A39301Q	847A58701B
16 x 2	3⁄4" EK	847A39302Q	847A58702B
17 x 2	3⁄4" EK	847A39304Q	847A58704B
18 x 2	3⁄4" EK	847A39306Q	847A58706B
20 x 2	3/4" EK	847A39308Q	847A58708B
16 x 2.25	3⁄4" EK	847A39303Q	847A58703B
20 x 2.25	3⁄4" EK	847A39309Q	847A58709B
20 x 2.5	3⁄4" EK	847A39307Q	847A58707B
16 x 2.6	3/4" EK	847A39315Q	-
20 x 2.9	¾″ EK	847A39316Q	-



PEX pipe adapters

Pipe size	Connection	Nickel	Chrome
(Ø mm)		Code	Code
12 x 1	3/4" EK	847A39420Q	847A58810B
16 x 1.5	3/4" EK	847A39405Q	847A58811B
12 x 2	3/4" EK	847A39401Q	847A58800B
14 x 2	3/4" EK	847A39402Q	847A58801B
16 x 2	3⁄4″ EK	847A39406Q	847A58803B
17 x 2	3⁄4″ EK	847A39408Q	847A58805B
18 x 2	3/4" EK	847A39410Q	847A58806B
20 x 2	3/4" EK	847A39413Q	847A58808B
16 x 2.2	3⁄4″ EK	847A39407Q	847A58804B
15 x 2.5	3/4" EK	847A39404Q	847A58802B
18 x 2.5	3/4" EK	847A39411Q	847A58807B
20 x 2.5	3/4" EK	847A39415Q	847A58809B







TOWEL RAILS

Cool page 50





Coo Aleternum





STYLE: DUSTY ROSE

SPECIAL: HAMMERED BLACK



Low thermal inertia



Low water content



Versatility



Available in 18 colors



Double painting: anaphoresis + epoxy powders



Corrosion resistance

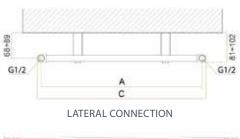


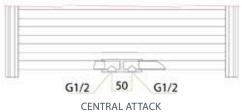


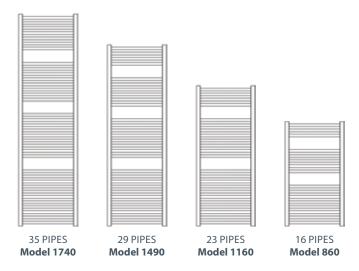
Centre-to-centre distances (mm)	400 - 450 - 500 -550 - 600
Heights (mm)	858 - 1152 - 1488 - 1740
Colours	see colours table
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Installation kit
Aleternum treatment	Supplied as standard

All models **Cool** are guaranteed **12 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.









	Unimbt	Heat output						
Model	Height	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70	
	mm	W	W	W	W	W	W	
860/400	858	116	188	266	348	433	521	
860/450	858	118	196	280	370	464	562	
860/500	858	127	211	302	399	501	607	
860/550	858	136	226	324	428	537	651	
860/600	858	145	241	346	457	574	696	
1160/400	1152	152	248	350	458	571	687	
1160/450	1152	160	265	380	502	630	763	
1160/500	1152	173	288	412	544	684	829	
1160/550	1152	187	310	444	587	737	894	
1160/600	1152	200	333	477	630	791	959	

		Heat output						
Model	Height	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70	
	mm	W	W	W	W	W	W	
1490/400	1488	197	322	455	595	741	892	
1490/450	1488	209	347	497	658	826	1002	
1490/500	1488	228	378	542	717	900	1092	
1490/550	1488	247	410	587	776	975	1182	
1490/600	1488	266	441	632	835	1049	1271	
1740/400	1740	231	379	539	707	883	1065	
1740/450	1740	250	413	590	778	976	1181	
1740/500	1740	273	451	645	850	1066	1291	
1740/550	1740	296	489	699	922	1156	1400	
1740/600	1740	319	527	754	994	1247	1509	

	Height	Depth	Centre distance	Length	Water capacity	Exponent	Coefficient
Model	mm	mm	mm	mm	litres	n	Km
860/400	858	26	400	428	2,4	1,2015	3,1596
860/450	858	26	450	478	2,7	1,2443	2,8430
860/500	858	26	500	528	2,9	1,2468	3,0374
860/550	858	26	550	578	3,2	1,2492	3,2277
860/600	858	26	600	628	3,4	1,2517	3,4143
1160/400	1152	26	400	428	3,4	1,2029	4,1431
1160/450	1152	26	450	478	3,8	1,2479	3,8033
1160/500	1152	26	500	528	4,1	1,2487	4,1156
1160/550	1152	26	550	578	4,5	1,2495	4,4259
1160/600	1152	26	600	628	4,9	1,2502	4,7339
1490/400	1488	26	400	428	4,4	1,2045	5,3470
1490/450	1488	26	450	478	4,8	1,2520	4,9057
1490/500	1488	26	500	528	5,2	1,2509	5,3720
1490/550	1488	26	550	578	5,7	1,2497	5,8423
1490/600	1488	26	600	628	6,1	1,2486	6,3166
1740/400	1740	26	400	428	5,3	1,2182	6,0193
1740/450	1740	26	450	478	5,7	1,2406	6,0741
1740/500	1740	26	500	528	6,3	1,2408	6,6300
1740/550	1740	26	550	578	6,8	1,2410	7,1851
1740/600	1740	26	600	628	7,5	1,2412	7,7391

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body № 1695.



CODE OBTAINING EXAMPLE

Cool radiator 860/400, PURE WHITE RAL 9010 colour

Ex: **EA42E0 04**

Cool radiator 1160/500, GRAPHITE colour

Ex: **EA52G0 3R**

To obtain the radiator code, it is necessary to add to the code the two final numbers concerning the finishing and the desired colour.

	Side connection ve	ersion	Central connection version		
Model	PURE WHITE RAL 9010	Colours	PURE WHITE RAL 9010	Colours	
860/400	EA42E0 04	EA52E0 xx	EA62E0 04	EA62E0 xx	
860/450	EA42A0 04	EA52A0 xx	EA62A0 04	EA62A0 xx	
860/500	EA42B0 04	EA52B0 xx	EA62B0 04	EA62B0 xx	
860/550	EA42C0 04	EA52C0 xx	EA62C0 04	EA62C0 xx	
860/600	EA42D0 04	EA52D0 xx	EA62D0 04	EA62D0 xx	
1160/400	EA42L0 04	EA52L0 xx	EA62L0 04	EA62L0 xx	
1160/450	EA42F0 04	EA52F0 xx	EA62F0 04	EA62F0 xx	
1160/500	EA42G0 04	EA52G0 xx	EA62G0 04	EA62G0 xx	
1160/550	EA42H0 04	EA52H0 xx	EA62H0 04	EA62H0 xx	
1160/600	EA42I0 04	EA52I0 xx	EA62I0 04	EA62I0 xx	
1490/400	EA42Q0 04	EA52Q0 xx	EA62Q0 04	EA62Q0 xx	
1490/450	EA42M0 04	EA52M0 xx	EA62M0 04	EA62M0 xx	
1490/500	EA42N0 04	EA52N0 xx	EA62N0 04	EA62N0 xx	
1490/550	EA42O0 04	EA52O0 xx	EA62O0 04	EA62O0 xx	
1490/600	EA42P0 04	EA52P0 xx	EA62P0 04	EA62P0 xx	
1740/400	EA42V0 04	EA52V0 xx	EA62V0 04	EA62V0 xx	
1740/450	EA42R0 04	EA52R0 xx	EA62R0 04	EA62R0 xx	
1740/500	EA42S0 04	EA52S0 xx	EA62S0 04	EA62S0 xx	
1740/550	EA42T0 04	EA52T0 xx	EA62T0 04	EA62T0 xx	
1740/600	EA42U0 04	EA52U0 xx	EA62U0 04	EA62U0 xx	

COLOURS

See table on the following page

ltem		Description				
TOTAL TOTAL	A 77	nstallation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: White (supplied as standard with Pure White RAL 9010 radiators colour code 04)				
90 90	A 79	Installation kit for Cool 3 points central connection with bleed valve and 3 plugs - Colour: White (supplied as standard with Pure White RAL 9010 radiators colour code 04)	550126			
imi imi imi	A 78	Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Chrome (supplied as standard with the coloured radiators, excluding Pure White RAL 9010 colour code 04)	550125			
	A 89	Installation kit for Cool 3 points central connection with bleed valve and 3 plugs - Colour: Chrome (supplied as standard with the coloured radiators, excluding Pure White RAL 9010 colour code 04)	550127			
II	-	White supports for Cool - n° 2	570135			
ŦŦ	-	Chrome supports for Cool - n° 2	570135C			
1	-	Towel rail Cool 450/500/550 - Colour: White	570133			
84	-	Towel rail COOL 600 - Colour: White	570134			
	-	Towel rail Cool 450/500/550 - Colour: Chrome	570133C			
# #	-	Towel rail COOL 600 - Colour: Chrome	570134C			

TONDERA series for central connection

Item	Description	Code
	Thermostatic valve and lockshield assembly 50 mm square, interchangeable connection for copper and multilayer pipe, anti-drip tang (thermostatic head code 8480931 to be purchased separately). RIGHT - Colour Pure White RAL 9010	8496811
4	Thermostatic valve and lockshield assembly 50 mm square, interchangeable connection for copper and multilayer pipe, anti-drip tang (thermostatic head code 8480931 to be purchased separately). RIGHT - Chromed Colour	8496812
	Thermostatic valve and lockshield assembly 50 mm square, interchangeable connection for copper and multilayer pipe, anti-drip tang (supplied with manual head, it is possible to add a thermostatic head, code 8480931). RIGHT - Colour Pure White RAL 9010	8496841
	Thermostatic valve and lockshield assembly 50 mm square, interchangeable connection for copper and multilayer pipe, anti-drip tang (supplied with manual head, it is possible to add a thermostatic head, code 8480931). RIGHT - Chromed Colour	8496842

For other accessories, see from page 65

Valves viewed from the back (wall side).

CLASSIC















Coloured versions: price increase 35% of a PURE WHITE RAL 9010 for the colours CLASSIC

STYLE



Cod.09



LIGHT GREY Cod.10



MIDNIGHT GREEN Cod.12



MIDNIGHT BLUE Cod.11



BLACK RAVEN Cod.3L



HOCOLATE Cod.13



CINNAMON Cod.14



FOREST GREEN Cod.16



SPECIAL





The colours shown are merely indicative and not binding, as they may slightly differ, due to the printing process.

Coloured versions: price increase 45% of a PURE WHITE RAL 9010 for the colours STYLE and SPECIAL





Mood	page 5
Tribeca	page 60





Mood Aleternum





STYLE: MIDNIGHT BLUE STYLE: LIGHT SHELL



Low thermal inertia



Low water content



Versatility



Maximum working pressure



Available in 17 colours





Radiator Mood: with decoration

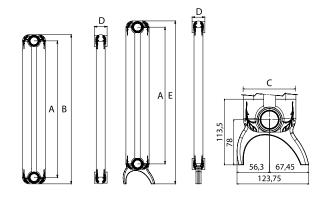
The Mood model with supporting feet is supplied with centre distances from 1000 to 2000 mm.

The supporting feet for this model only have an aesthetic function. The radiator must be secured to the wall with brackets.

For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Mood** are guaranteed **15 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	235 - 335 - 350 - 435 500 - 535 - 600	from 4 to 20 elements			
Standard supply	685 - 700 - 800 - 835	from 4 to 16 elements			
	900 - 935 - 1000 - 1135 1200 - 1400 - 1435 - 1600 1735 - 1800 - 1935 - 2000	from 4 to 9 elements			
Colours	see colours table				
Maximum working pressure	16 bar				
Test pressure	24 bar				
Aleternum treatment	Supplied as standard				



MEASURES EXPRESSED IN MILLIMETRES With supporting foot E = B + 54 mm

	Heat output					
Model	ΔT 20	ΔΤ 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
235	9,6	16,0	23,1	30,6	38,6	46,9
335	12,5	21,1	30,5	40,5	51,1	62,3
350	13,0	21,8	31,5	41,9	52,9	64,4
435	15,2	25,6	37,1	49,4	62,5	76,1
500	16,9	28,5	41,3	55,1	69,7	85,0
535	17,8	30,1	43,6	58,2	73,6	89,8
600	19,5	32,9	47,8	63,8	80,8	98,6
685	21,6	36,6	53,3	71,2	90,2	110,2
700	22,0	37,3	54,2	72,5	91,8	112,2
800	24,5	41,6	60,6	81,1	102,8	125,8
835	25,4	43,1	62,8	84,1	106,7	130,5
900	27,0	45,9	67,0	89,7	113,9	139,3

	Heat output								
Model	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70			
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.			
935	27,9	47,5	69,2	92,7	117,7	144,0			
1000	29,6	50,3	73,4	98,3	124,9	152,8			
1135	33,0	56,2	82,0	110,0	139,8	171,2			
1200	34,6	59,9	87,5	115,7	149,3	182,8			
1400	39,7	67,9	99,2	133,3	169,6	207,9			
1435	40,7	69,5	101,6	136,4	173,5	212,7			
1600	45,1	77,1	112,6	151,2	192,3	235,6			
1735	48,9	83,4	121,8	163,4	207,8	254,6			
1800	50,7	86,4	126,3	169,4	215,4	263,9			
1935	54,5	92,9	135,7	181,9	231,3	283,3			
2000	56,4	96,1	140,2	188,1	239,0	292,7			

Model	Depth	Height *	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
	(C) mm	(B) mm	(A) mm	(D) mm/sect.	inches	litres/sect.	n	Km
235	90	284	235	50	G1	0,43	1,2665	0,2158
335	90	384	335	50	G1	0,58	1,2792	0,2718
350	90	399	350	50	G1	0,71	1,2800	0,2799
435	90	484	435	50	G1	0,85	1,2849	0,3243
500	90	549	500	50	G1	0,95	1,2885	0,3566
535	90	584	535	50	G1	1,00	1,2905	0,3734
600	90	649	600	50	G1	1,10	1,2942	0,4037
685	90	734	685	50	G1	1,15	1,2990	0,4418
700	90	749	700	50	G1	1,18	1,2999	0,4484
800	90	849	800	50	G1	1,34	1,3055	0,4907
835	90	884	835	50	G1	1,38	1,3075	0,5050
900	90	949	900	50	G1	1,50	1,3091	0,5353
935	90	984	935	50	G1	1,56	1,3100	0,5514
1000	90	1049	1000	50	G1	1,66	1,3115	0,5812
1135	90	1184	1135	50	G1	1,88	1,3149	0,6420
1200	90	1249	1200	50	G1	1,98	1,3164	0,6709
1400	90	1449	1400	50	G1	2,28	1,3213	0,7583
1435	90	1484	1435	50	G1	2,36	1,3210	0,7771
1600	90	1649	1600	50	G1	2,60	1,3192	0,8673
1735	90	1784	1735	50	G1	2,85	1,3178	0,9430
1800	90	1849	1800	50	G1	2,95	1,3171	0,9801
1935	90	1984	1935	50	G1	3,10	1,3156	1,0585
2000	90	2049	2000	50	G1	3,22	1,3150	1,0970

^{*} To calculate the height of the radiator with the supporting foot (E), add 54 mm to the height of the radiator without foot (B)

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta\mathsf{T}^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body N^{o} 1695.



CODE OBTAINING EXAMPLE

Mood radiator 600 from 10 sections PURE WHITE RAL 9010 colour Ex: **EA10C0 + 04 + 10**

Mood radiator 600 from 12 sections SILVER colour Ex: **EA10C0 + 07 + 12**

To obtain the radiator code, it is necessary to add the code to the four final digits relating to the colour and number of elements.

Model	Code
235	EA11A0 xx xx
335	EA11B0 xx xx
350	EA10A0 xx xx
435	EA11C0 xx xx
500	EA10B0 xx xx
535	EA11D0 xx xx
600	EA10C0 xx xx
685	EA11E0 xx xx
700	EA10D0 xx xx
800	EA10E0 xx xx
835	EA11F0 xx xx
900	EA10F0 xx xx

•	
Model	Code
935	EA11G0 xx xx
1000	EA10G0 xx xx
1135	EA11H0 xx xx
1200	EA10H0 xx xx
1400	EA10I0 xx xx
1435	EA11I0 xx xx
1600	EA10L0 xx xx
1735	EA11L0 xx xx
1800	EA10M0 xx xx
1935	EA11M0 xx xx
2000	EA10N0 xx xx

Model with support	Code
1000	EA30G0 xx xx
1135	EA31H0 xx xx
1200	EA30H0 xx xx
1400	EA30I0 xx xx
1435	EA31I0 xx xx
1600	EA30L0 xx xx
1735	EA31L0 xx xx
1800	EA30M0 xx xx
1935	EA31M0 xx xx
2000	EA30N0 xx xx

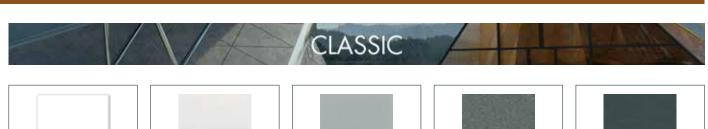
COLOURS

See table on the following page

Item	Description	Colour	Code	
		PURE WHITE RAL 9010	550122	
88		NEUTRAL WHITE	55012206	
		SILVER	55012207	
00	Fixing kit with pincers + plugs and adapters:	BRONZE	55012208	
88 00 00	1 Flat ½ bleed valve	LIGHT SHELL	55012209	
<u>@</u>	2 Plastic covers	LIGHT GREY	55012210	
	1 Flat ½ plug 2 ½ Rh adapters	. 3	MIDNIGHT BLUE	55012211
In mil o		MIDNIGHT GREEN	55012212	
	2 ½ Lh adapters 3 Metal sheet brackets	CHOCOLATE	55012213	
0.00	3 White plastic covers 3 Rh pincers	CINNAMON	55012214	
10 10 10		DUSTY ROSE	55012215	
6 6 6	3 Lh pincers	FOREST GREEN	55012216	
8.8.8.	4 1" O-ring seals 1 Retainer rubber cap	THE FONDITAL RED	550122BL	
Proch Proch		SLATE GREY	550122E	
7145		BLACK RAVEN	550122L	
9 4 4 4 4		GRAPHITE	550122R	
		BLACK COFFEE	550122V	

ltem		Description	Code
		Towel rail kit with decoration of 237 mm	570125
[[T]		Towel rail kit with decoration of 337 mm	570126
11.14	_	Towel rail kit with decoration of 437 mm	570127
		Towel rail kit with decoration of 537 mm	570128
	A 30/2	Lockshield plug for Mood - Tribeca 50 mm (water diaphragm)	521011M
0	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 74	Fixing kit for horizontal installation, colour white n° 4	550120
	A 75	Fixing kit for horizontal installation, colour white n° 4	550121

For other accessories, see from page 65



PURE WHITE RAL 9010 Cod.04













Coloured versions: price increase 35% of a PURE WHITE RAL 9010 for the colours CLASSIC







LIGHT GREY Cod.10



MIDNIGHT GREEN Cod.12



MIDNIGHT BLUE Cod.11



BLACK RAVEN Cod.3L











SPECIAL



The colours shown are merely indicative and not binding, as they may slightly differ, due to the printing process.

Coloured versions: price increase 45% of a PURE WHITE RAL 9010 for the colours STYLE and SPECIAL



Tribeca Aleternum





STYLE: FOREST GREEN

SPECIAL: HAMMERED BLACK



Low thermal inertia



Low water content



Versatility



Maximum working pressure



Available in 18 colors



Tribeca radiator: without decoration.



For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Tribeca** are guaranteed **15 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

	235 - 335 - 350 - 435 500 - 535 - 600	from 4 to 20 elements
	685 - 700 - 800 - 835	from 4 to 16 elements
Standard supply	900 - 935 - 1000 - 1135 1200 - 1400 - 1435 1600 - 1735 - 1935	from 4 to 9 elements
	1800 - 2000	from 4 to 12 elements
Colours	see colours table	
Maximum working pressure	16 bar	
Test pressure	24 bar	
Aleternum treatment	Supplied as standard	

100		125	
ВА			
		*	
120	20-	÷50 4 5	D D

MFASURES EXPRESSE	D IN MILLIMETRES

	Heat output						
Model	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70	
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	
235	9,6	16,0	23,1	30,6	38,6	46,9	
335	12,5	21,1	30,5	40,5	51,1	62,3	
350	13,0	21,8	31,5	41,9	52,9	64,4	
435	15,2	25,6	37,1	49,4	62,5	76,1	
500	16,9	28,5	41,3	55,1	69,7	85,0	
535	17,8	30,1	43,6	58,2	73,6	89,8	
600	19,5	32,9	47,8	63,8	80,8	98,6	
685	21,6	36,6	53,3	71,2	90,2	110,2	
700	22,0	37,3	54,2	72,5	91,8	112,2	
800	24,5	41,6	60,6	81,1	102,8	125,8	
835	25,4	43,1	62,8	84,1	106,7	130,5	
900	27,0	45,9	67,0	89,7	113,9	139,3	

	Heat output						
Model	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔΤ 70	
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	
935	27,9	47,5	69,2	92,7	117,7	144,0	
1000	29,6	50,3	73,4	98,3	124,9	152,8	
1135	33,0	56,2	82,0	110,0	139,8	171,2	
1200	34,6	59,9	87,5	115,7	149,3	182,8	
1400	39,7	67,9	99,2	133,3	169,6	207,9	
1435	40,7	69,5	101,6	136,4	173,5	212,7	
1600	45,1	77,1	112,6	151,2	192,3	235,6	
1735	48,9	83,4	121,8	163,4	207,8	254,6	
1800	50,7	86,4	126,3	169,4	215,4	263,9	
1935	54,5	92,9	135,7	181,9	231,3	283,3	
2000	56,4	96,1	140,2	188,1	239,0	292,7	

Model	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
	(C) mm	(B) mm	(A) mm	(D) mm/sect.	inches	litres/sect.		Km
235	90	284	235	50	G1	0,43	1,2665	0,2158
335	90	384	335	50	G1	0,58	1,2792	0,2718
350	90	399	350	50	G1	0,71	1,2800	0,2799
435	90	484	435	50	G1	0,85	1,2849	0,3243
500	90	549	500	50	G1	0,95	1,2885	0,3566
535	90	584	535	50	G1	1,00	1,2905	0,3734
600	90	649	600	50	G1	1,10	1,2942	0,4037
685	90	734	685	50	G1	1,15	1,2990	0,4418
700	90	749	700	50	G1	1,18	1,2999	0,4484
800	90	849	800	50	G1	1,34	1,3055	0,4907
835	90	884	835	50	G1	1,38	1,3075	0,5050
900	90	949	900	50	G1	1,50	1,3091	0,5353
935	90	984	935	50	G1	1,56	1,3100	0,5514
1000	90	1049	1000	50	G1	1,66	1,3115	0,5812
1135	90	1184	1135	50	G1	1,88	1,3149	0,6420
1200	90	1249	1200	50	G1	1,98	1,3164	0,6709
1400	90	1449	1400	50	G1	2,28	1,3213	0,7583
1435	90	1484	1435	50	G1	2,36	1,3210	0,7771
1600	90	1649	1600	50	G1	2,60	1,3192	0,8673
1735	90	1784	1735	50	G1	2,85	1,3178	0,9430
1800	90	1849	1800	50	G1	2,95	1,3171	0,9801
1935	90	1984	1935	50	G1	3,10	1,3156	1,0585
2000	90	2049	2000	50	G1	3,22	1,3150	1,0970

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 $^{\circ}\text{C}$

Characteristic equation of the model $\Phi{=}\mathsf{Km}\;\Delta\mathsf{T}^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body № 1695.



CODE OBTAINING EXAMPLE

Tribeca radiator 600 from 10 sections PURE WHITE RAL 9010 colour Ex: **EA20C0 + 04 + 10**

Tribeca radiator 600 from 12 sections SILVER colour Ex: **EA20C0 + 07 + 12**

To obtain the radiator code, it is necessary to add the code to the four final digits relating to the colour and number of elements.

Model	Code
235	EA21A0 xx xx
335	EA21B0 xx xx
350	EA20A0 xx xx
435	EA21C0 xx xx
500	EA20B0 xx xx
535	EA21D0 xx xx
600	EA20C0 xx xx
685	EA21E0 xx xx

Model	Code
700	EA20D0 xx xx
800	EA20E0 xx xx
835	EA21F0 xx xx
900	EA20F0 xx xx
935	EA21G0 xx xx
1000	EA20G0 xx xx
1135	EA21H0 xx xx
1200	EA20H0 xx xx

Model	Code
1400	EA20I0 xx xx
1435	EA21I0 xx xx
1600	EA20L0 xx xx
1735	EA21L0 xx xx
1800	EA20M0 xx xx
1935	EA21M0 xx xx
2000	EA20N0 xx xx

COLOURS

See table on the following page

Item	Description	Colour	Code
		PURE WHITE RAL 9010	550122
		NEUTRAL WHITE	55012206
0.0		SILVER	55012207
00		BRONZE	55012208
88	Fixing kit with pincers + plugs and adapters:	LIGHT SHELL	55012209
600000000000000000000000000000000000000	1 Flat ½ bleed valve	LIGHT GREY	55012210
œ	2 Plastic covers 1 Flat ½ plug	MIDNIGHT BLUE	55012211
	2 ½ Rh adapters	MIDNIGHT GREEN	55012212
Dand »	2 ½ Lh adapters	CHOCOLATE	55012213
•	3 Metal sheet brackets	CINNAMON	55012214
N IN IN	3 White plastic covers	DUSTY ROSE	55012215
the the the	3 Rh pincers	FOREST GREEN	55012216
TO THE RE	3 Lh pincers 4 1" O-ring seals 1 Retainer rubber cap	HAMMERED BLACK	55012217
the the sta		THE FONDITAL RED	550122BL
		SLATE GREY	550122E
		BLACK RAVEN	550122L
11.01.01		GRAPHITE	550122R
		BLACK COFFEE	550122V

ltem		Description	Code
		Towel rail kit with decoration of 237 mm	570125
[III]		Towel rail kit with decoration of 337 mm	570126
11.14	-	Towel rail kit with decoration of 437 mm	570127
		Towel rail kit with decoration of 537 mm	570128
	A 30/2	Lockshield plug for Mood - Tribeca 50 mm (water diaphragm)	521011M
0	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 74	Fixing kit for horizontal installation, colour white n° 4	550120
	A 75	Fixing kit for horizontal installation, colour white n° 4	550121

For other accessories, see from page $65\,$



PURE WHITE RAL 9010 Cod.04













Coloured versions: price increase 35% of a PURE WHITE RAL 9010 for CLASSIC colours







LIGHT GREY Cod.10



MIDNIGHT GREEN Cod.12



MIDNIGHT BLUE Cod.11



BLACK RAVEN Cod.3L



Cod.13



CINNAMON Cod.14



FOREST GREEN Cod.16



SPECIAL





The colours shown are merely indicative and not binding, as they may slightly differ, due to the printing process.

Coloured versions: price increase 45% of a PURE WHITE RAL 9010 for STYLE and SPECIAL colours





Accessories on request	page 66
Fittings for copper pipes	page 70
Fittings for multilayer pipes	page 71
Fittings for polyethylene pipes	page 73
Thermostatic head	page 73





ACCESSORIES ON REQUEST

ltem		Description	Code
c de		Rh 1"G automatic air-purging valve. Chromed (always to be installed with the vent in upward position)	520201
600	A 1/1	Lh 1"G automatic air-purging valve. Chromed (always to be installed with the vent in upward position)	520202
	A 4/4	Rh G 1" closing plug, galvanized and painted	525014
	A 4/1	Lh G 1" closing plug, galvanized and painted	525114
(A)		Rh adapter 3/8 - Colour: White	526014
		Lh adapter 3/8 - Colour: White	526114
0	A 6/1	Rh adapter 1/2 - Colour: White	526214
	A 6/ I	Lh adapter 1/2 - Colour: White	526314
		Rh adapter 3/4 - Colour: White	526414
		Lh adapter 3/4 - Colour: White	526514
6		Rh 1/4 valve plug - Colour: White	525214
	A 0 /1	Lh 1/4 valve plug - Colour: White	525314
6	A 8/1	Rh 1/8 valve plug - Colour: White	525414
		Lh 1/8 valve plug - Colour: White	525514
	A 13	Retouch spray 400 ml - Colour: White RAL 9010	540024
	A 16	175 mm Wall anchor bracket	550020
	A 18	Rh bracket to be screwed on to the wall	550035
	ATO	Lh bracket to be screwed on to the wall	550036
	A 26/1	Nipple wrench 1"G	550090
-	A 27	Nipple metal wrench 1" (100 cm) without lever	550093
	-	Nipple metal wrench kit 1" and ¾" (50 cm) with lever and plastic wrench for plugs	550092
0	A 40/2	Plastic wrench	560257
6	A 52	G½" air valve, chromed	520203
	-	½″Blind plug	525602

Accessories for all radiators except Cool model.

Article A 13 Touch-up Spray 400 ml - Colour: White RAL 9010 can also be used on the Cool model.

ALFA series valve ½" connection (Valves supplied without fitting)

Description	Colour White - Chrome	Colour Chrome	Colour Gold
	Code	Code	Code
Angle valve, iron pipe connection	8493051	8493052	8493053
Straight valve, iron pipe connection	8493061	8493062	8493063
Angle lockshield valve, iron pipe connection	8493031	8493032	8493033
Straight lockshield retainer, iron pipe connection	8493041	8493042	8493043
Angle valve retainer, copper/PE/multilayer pipe connection	8493151	8493152	8493153
Straight valve, copper/PE/multilayer pipe connection	8493161	8493162	8493163
Angle lockshield retainer, copper/PE/multilayer pipe connection	8493131	8493132	8493133
Straight lockshield retainer, copper/PE/multilayer pipe connection	8493141	8493142	8493143



BETA series valve ½" connection (Valves supplied without fitting)

Description	Colour White - Chrome	Colour Chrome
	Code	Code
Angle valve, iron pipe connection	8483351	8483352
Straight valve, iron pipe connection	8483361	8483362
Angle lockshield valve, iron pipe connection	8493531	8493532
Straight lockshield retainer, iron pipe connection	8493541	8493542
Angle valve retainer, copper/PE/multilayer pipe connection	8483451	8483452
Straight valve, copper/PE/multilayer pipe connection	8483461	8483462
Angle lockshield retainer, copper/PE/multilayer pipe connection	8493631	8493632
Straight lockshield retainer, copper/PE/multilayer pipe connection	8493641	8493642



Accessories for all radiators except Cool model with central connection and Garda model with central connection.





GAMMA series valve ½" connection (Valves supplied without fitting)

Description	Colour White - Chrome	Colour Chrome	
	Code	Code	
Angle valve, iron pipe connection	8484351	8484352	
Straight valve, iron pipe connection	8484361	8484362	
Angle lockshield valve, iron pipe connection	8494531	8494532	
Straight lockshield retainer, iron pipe connection	8494541	8494542	
Angle valve retainer, copper/PE/multilayer pipe connection	8484451	8484452	
Straight valve, copper/PE/multilayer pipe connection	8484461	8484462	
Angle lockshield retainer, copper/PE/multilayer pipe connection	8494631	8494632	
Straight lockshield retainer, copper/PE/multilayer pipe connection	8494641	8494642	



TONDERA series valves ½" connection (Valves supplied without fitting)

Description	Colour White	Colour Chrome	
	Code	Code	
Angle valve with thermostat option, copper and multilayer pipe connection, non-drip end	8496131	8496132	
Thermostatic angle valve, copper and multilayer pipe connection, non-drip end	8496331	8496332	
Manual adjustment angle valve, copper and multilayer pipe connection, non-drip end	8496231	8496232	
Angle lockshield valve, copper and multilayer pipe connection, non-drip end	8496731	8496732	
Straight valve with thermostat option, copper and multilayer pipe connection, non-drip end	8496151	8496152	
Thermostatic straight valve, copper and multilayer pipe connection, non-drip end	8496351	8496352	
Manual adjustment straight valve, copper and multilayer pipe connection, non-drip end	8496251	8496252	
Straight lockshield valve, copper and multilayer pipe connection, non-drip end	8496751	8496752	





MINIMAL series valves 1/2" connection (Valves supplied without fitting)

Description	Colour White	Colour Chrome
	Code	Code
Angle valve with thermostat option, interchangeable copper and multilayer pipe connection, non-drip end	8493851	8493852
Thermostatic angle valve, interchangeable copper and multilayer pipe connection, non-drip end	8493651	8493652
Angle lockshield retainer, copper/PE/multilayer pipe connection	8493631	8493632
Angle valve with thermostat option, iron pipe connection, non-drip end	8493751	8493752
Thermostatic angle valve, iron pipe connection, non-drip end	8493551	8493552
Angle lockshield valve, iron pipe connection	8493531	8493532

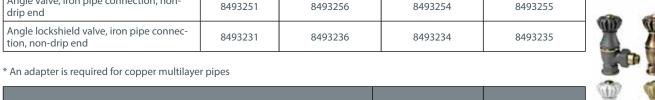




Accessories for all radiators except Cool model with central connection and Garda model with central connection.

LIBERTY series valve 1/2" connection (Valves supplied without fitting) *

Description	Colour White	Colour RAL 1036	Colour Cast iron	Colour Bronze
	Code	Code	Code	Code
Angle valve, iron pipe connection, non- drip end	8493251	8493256	8493254	8493255
Angle lockshield valve, iron pipe connection, non-drip end	8493231	8493236	8493234	8493235



Description	Colour Gold *	Colour Bronze
	Code	Code
Adapter for copper and multilayer LIBERTY series pipes Pipe size (Ø mm) 3/4" x 24/19	8493283	8493285

OLD STYLE series valve ½" connection (Valves supplied without fitting)

Description	Colour White	Colour Chrome	Colour Bronze
	Code	Code	Code
Thermostatic angle valve, iron pipe connection, non-drip end	8493671	8493672	8493675
Angle valve, iron pipe connection, non-drip end	8493371	8493372	8493375
Angle lockshield valve, iron pipe connection, non-drip end	8493411	8493412	8493415
Thermostatic straight valve, iron pipe connection, non-drip end	8493681	8493682	8493685
Straight valve, iron pipe connection, non-drip end	8493381	8493382	8493385
Straight lockshield valve, iron pipe connection, non-drip end	8493421	8493422	8493425
Thermostatic angle valve, copper and multilayer pipe connection, non-drip end	8493691	8493692	8493695
Angle valve, copper and multilayer pipe connection, non-drip end	8493391	8493392	8493395
Angle lockshield valve, copper and multilayer pipe connection, non-drip end	8493431	8493432	8493435
Thermostatic straight valve, copper and multilayer pipe connection, non-drip end	8493701	8493702	8493705
Straight valve, copper and multilayer pipe connection, non-drip end	8493401	8493402	8493405
Straight lockshield valve, copper and multilayer pipe connection, non-drip end	8493441	8493442	8493445



Accessories for all radiators except Cool model with central connection and Garda model with central connection.



 $^{^{\}ast}$ Can be used with valves and lockshield valves in white, RAL 1036 and cast iron

FITTINGS FOR COPPER PIPES

Fittings for copper pipes for ALFA, BETA and MINIMAL series valves

Pipe size	Colour Chrome	Colour Gold
(Ø mm)	Code	Code
10	849381210	849381310
12	849381212	849381312
14	849381214	849381314

Pipe size	Colour Chrome	Colour Gold
(Ø mm)	Code	Code
15	849381215	849381315
16	849381216	849381316
18	849381218	849381318



Fittings for copper pipes for **GAMMA** and **TONDERA** series valves

Pipe size	Colour Chrome
(Ø mm)	Code
10	849481210
12	849481212
14	849481214

Pipe size	Colour Chrome
(Ø mm)	Code
15	849481215
16	849481216
18	849481218



Fittings for copper pipes for **LIBERTY** series valves

Pipe size	Colour Gold *	Colour Bronze
(Ø mm)	Code	Code
10	849381310	849381510
12	849381312	849381512
14	849381314	849381514

Pipe size	Colour Gold *	Colour Bronze
(Ø mm)	Code	Code
15	849381315	849381515
16	849381316	849381516
18	849381318	849381518



Fittings for copper pipes for **OLD STYLE** series valves

Pipe size	Colour Chrome *	Colour Bronze
(Ø mm)	Code	Code
10	849481210	849481510
12	849481212	849481512
14	849481214	849481514

Pipe size	Colour Chrome *	Colour Bronze
(Ø mm)	Code	Code
15	849481215	849481515
16	849481216	849481516
18	849481218	849481518



^{*} Can be used with valves and lockshield valves in white, RAL 1036 and cast iron

^{*} Can be used with valves and lockshield valves in chrome and white

FITTINGS FOR MULTILAYER PIPES

Fittings for multilayer pipes for **ALFA** and **BETA** series valves

Pipe size	Connection	Colour Chrome	Colour Gold
(Ø int Ø ext.)		Code	Code
9,5/10-14	24 - 19	849383210	849383310
11,5/12-16	24 - 19	8493832115	8493833115





Fittings for multilayer pipes for **GAMMA** and **TONDERA** series valves

Pipe size	Connection	Colour Chrome
(Ø int Ø ext.)		Code
7,5/8-12	24 - 19	84948320812
9,5/10-14	24 - 19	849483210
9,5/10-15	24 - 19	84948321015
10,5/11-15	24 - 19	84948321115
10,5/11-16	24 - 19	84948321116
11,5/12-16	24 - 19	8494832115

Pipe size	Connection	Colour Chrome
(Ø int Ø ext.)		Code
11,5/12-17	24 - 19	84948321217
12,5/13-17	24 - 19	84948321317
12,5/13-18	24 - 19	84948321318
13,5/14-18	24 - 19	84948321418
14,5/15-20	24 - 19	84948321520
15/15,5-20	24 - 19	849483215520
15,5/16-20	24 - 19	84948321620



Fittings for multilayer pipes for **LIBERTY** series valves

Pipe size	Connection	Colour Gold *	Colour Bronze
(Ø int Ø ext.)		Code	Code
7,5/8-12	24 - 19	84938330812	84938350812
9,5/10-14	24 - 19	849383310	84938351014
9,5/10-15	24 - 19	84938331015	84938351015
10,5/11-15	24 - 19	84938331115	84938351115
10,5/11-16	24 - 19	84938331116	84938351116
11,5/12-16	24 - 19	8493833115	84938351216
11,5/12-17	24 - 19	84938331217	84938351217
12,5/13-17	24 - 19	84938331317	84938351317
12,5/13-18	24 - 19	84938331318	84938351318
13,5/14-18	24 - 19	84938331418	84938351418
14,5/15-20	24 - 19	84938331520	84938351520
15/15,5-20	24 - 19	849383315520	849383515520
15,5/16-20	24 - 19	84938331620	84938351620





^{*} Can be used with valves and lockshield valves in white, RAL 1036 and cast iron

Fittings for multilayer pipes for **MINIMAL** series valves

Pipe size	Connection	Colour Chrome
(Ø int Ø ext.)		Code
7,5/8-12	24 - 19	84938320812
9,5/10-14	24 - 19	849383210
9,5/10-15	24 - 19	84938321015
10,5/11-15	24 - 19	84938321115
10,5/11-16	24 - 19	84938321116
11,5/12-16	24 - 19	8493832115

Pipe size	Connection	Colour Chrome
(Ø int Ø ext.)		Code
11,5/12-17	24 - 19	84938321217
12,5/13-17	24 - 19	84938321317
12,5/13-18	24 - 19	84938321318
13,5/14-18	24 - 19	84938321418
14,5/15-20	24 - 19	84938321520
15/15,5-20	24 - 19	849383215520
15,5/16-20	24 - 19	84938321620



Fittings for multilayer pipes for **OLD STYLE** series valves

Pipe size	Connection	Colour Bronze
(Ø int Ø ext.)		Code
7,5/8-12	24 - 19	84948350812
9,5/10-14	24 - 19	84948351014
9,5/10-15	24 - 19	84948351015
10,5/11-15	24 - 19	84948351115
10,5/11-16	24 - 19	84948351116
11,5/12-16	24 - 19	84948351216
11,5/12-17	24 - 19	84948351217
12,5/13-17	24 - 19	84948351317
12,5/13-18	24 - 19	84948351318
13,5/14-18	24 - 19	84948351418
14,5/15-20	24 - 19	84948351520
15/15,5-20	24 - 19	849483515520
15,5/16-20	24 - 19	84948351620

Pipe size	Connection	Colour Chrome
(Ø int Ø ext.)		Code
7,5/8-12	24 - 19	84948320812
9,5/10-14	24 - 19	849483210
9,5/10-15	24 - 19	84948321015
10,5/11-15	24 - 19	84948321115
10,5/11-16	24 - 19	84948321116
11,5/12-16	24 - 19	8494832115
11,5/12-17	24 - 19	84948321217
12,5/13-17	24 - 19	84948321317
12,5/13-18	24 - 19	84948321318
13,5/14-18	24 - 19	84948321418
14,5/15-20	24 - 19	84948321520
15/15,5-20	24 - 19	849483215520
15,5/16-20	24 - 19	84948321620



FITTINGS FOR POLYETHYLENE PIPES

Fittings for polyethylene pipes for **ALFA** and **BETA** series valves

Pipe size	Colour Chrome
(Ø int Ø ext.)	Code
12 - 16	849382212
13 - 18	849382213
14 - 18	849382214

Pipe size	Colour Gold
(Ø int Ø ext.)	Code
12 - 16	849382312
13 - 18	849382313
14 - 18	849382314



Fittings for polyethylene pipes for **GAMMA** series valves

Pipe size	Colour Chrome
(Ø int Ø ext.)	Code
12 - 16	849482212
13 - 18	849482213
14 - 18	849482214



THERMOSTATIC HEAD

Thermostatic head for BETA, GAMMA, TONDERA and MINIMAL series valves

Description	Colour White - Chrome
	Code
Thermostatic head for BETA, GAMMA, TONDERA and MINIMAL with liquid sensor	8480931







ELECTRIC RADIATORS

eBlitz Wi-Fi	page 76
eBlitz Core	page 78
eCool ED	page 79
eGarda	page 80





eBlitz Wi-Fi

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



- Radiator manageable remotely via Android and Apple smartphones by downloading the Domus One App
- **▶** Compatible with Google Home and Alexa
- Aluminium body:
 - Quickly reaches the desired temperature
- **▶** Backlight LCD interface incorporated
- NTC temperature probe and electronic temperature regulation
- In order to optimise consumption, the radiator provides:
 - Daily and weekly programming with Adaptive Start Control
 - Open window detection function
 - Consumption display

Safety:

- Keyboard lock
- Built-in ON / OFF switch
- Power reserve >2h
- Fixing system included





UK CA

Double isolation





All models **eBlitz Wi-Fi** are guaranteed **2 years** for electrical components, **5 years** on the aluminium body from the date of installation against manufacturing defects.



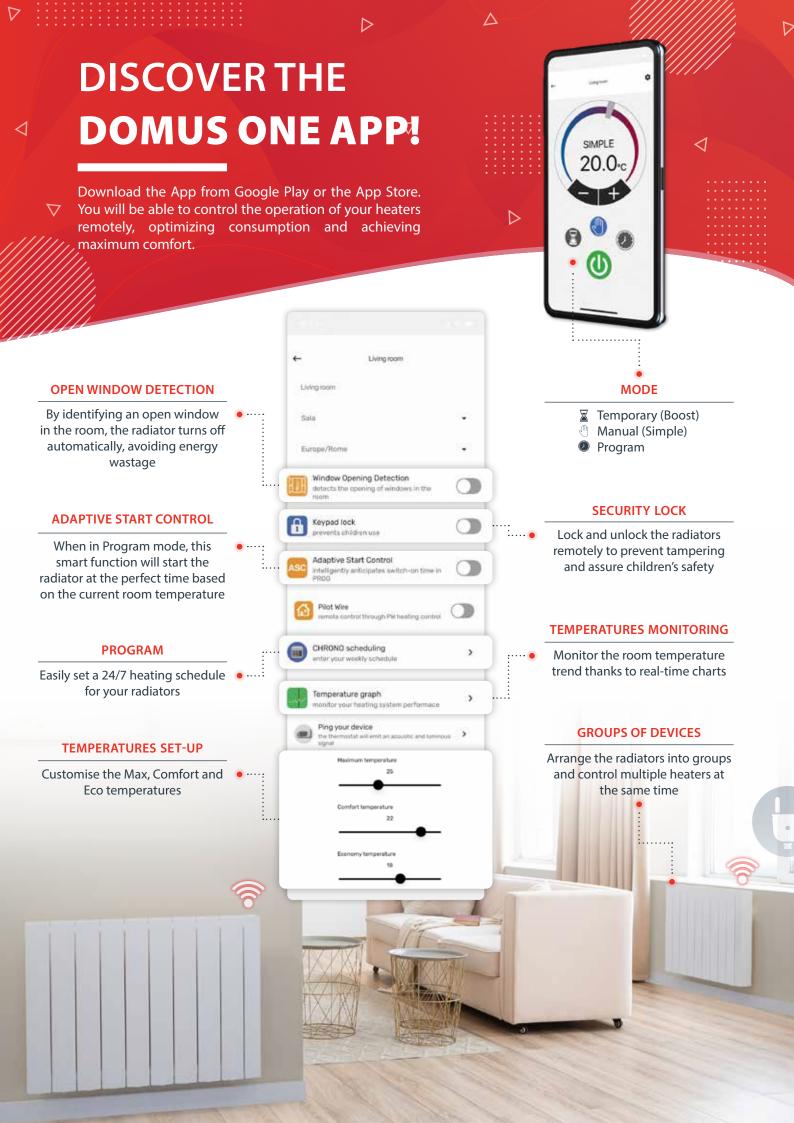
The right side houses the new backlight adjustment and control system with digital display and easy-toreach buttons regardless of installation type.



Power wire:

- Phase
- Neutral
- Pilot wire

Madal	Code for Pilot	Power	Sections	Voltage	Frequency	Length	Height	Depth
Model	Wire	W	nu.	V	Hz	mm	mm	mm
750	FBG0M1XR84	750	4	230	50/60	390	583	80
1000	FBG0M1XRA5	1000	5	230	50/60	470	583	80
1250	FBG0M1XRD7	1250	7	230	50/60	630	583	80
1500	FBG0M1XRF9	1500	9	230	50/60	790	583	80
1800	FBG0M1XRIB	1800	11	230	50/60	950	583	80



eBlitz Core

CERAMIC CORE ELECTRIC RADIATOR



Aluminium body:

- Quickly reaches the desired temperature
- **▶** Backlight LCD interface incorporated
- NTC temperature probe and electronic temperature regulation
- In order to optimise consumption, the radiator provides:
 - Daily and weekly programming with Adaptive Start Control
 - Open window detection function
 - Consumption display

Safety:

- Keyboard lock
- Power reserve >2h
- Fixing system included







Double isolation





All models **eBlitz Core** are guaranteed **2 years** for electrical components, **5 years** on the aluminium body from the date of installation against manufacturing defects..



The right side houses the new backlight adjustment and control system with digital display and easy-toreach buttons regardless of installation type.



Power wire:

- Phase
- Neutral
- Pilot wire

Model	Code for Pilot	Power	Sections	Voltage	Frequency	Length	Height	Depth
wodei	Wire	W	num.	V	Hz	mm	mm	mm
1000	FBZ0M7FDA5	1000	5	230	50/60	473	577	97
1500	FBZ0M7FDF7	1500	7	230	50/60	628	577	97
2000	FBZ0M7FDK9	2000	9	230	50/60	788	577	97

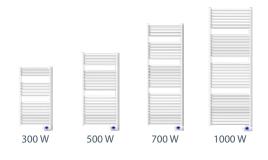
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eCool ED

ELECTRIC TOWEL RADIATOR WITH DIGITAL CONTROL



- Aluminium alloy body: with low thermal inertia
- **▶** LCD backlight interface
- Daily and weekly programming options
- Open window detection function
- Child safety lock
- Fixing system included
- Schuko plug
- Anticorrosion internal treatment Astarnum provided







All models **eCool ED** are guaranteed **2 years** for electrical components, **5 years** on the aluminium body from the date of installation against manufacturing defects.



UK or Schuko plug available

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UK CA

Double isolation

Model	Code for	Code for UK	Power	Voltage	Frequency	Length	Height	Depth
	Schuko Plug	Plug	W	V	Hz	mm	mm	mm
300	FCA0M1YD30	FCAI21YD30	300	230	50/60	478	933	45
500	FCA0M1YD50	FCAI21YD50	500	230	50/60	528	1143	45
700	FCA0M1YD70	FCAI21YD70	700	230	50/60	528	1563	45
1000	FCA0M1YDA0	FCAI21YDA0	1000	230	50/60	628	1815	45

Item	Description	Code
	Infrared remote control with wall support (Batteries not included) Features: Comfort, Night, Antifreeze and Stand-by	0ZTELINF01



eGarda FLUID FILLED ELECTRIC RADIATORS

PRODUCT AVAILABLE WHILE STOCKS LAST



- Aluminium body:
 - Quickly reaches the desired temperature
- **▶** Colours: White RAL 9010 and Anthracite grey
- **▶** Interface with touch radio control
- NTC temperature probe and electronic temperature regulation
- In order to optimise consumption, the radiator provides:
 - Daily and weekly programming options
 - Open window detection function
 - Consumption display
- **Safety:**
 - Remote control lock





All models **eGarda** are guaranteed **2 years** for electrical components, **5 years** on the aluminium body from the date of installation against manufacturing defects.



Power wire:

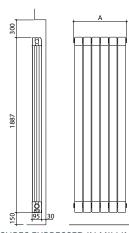
- Phase
- Neutral
- Pilot wire

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Double isolation



MEASURES EXPRESSED IN MILLIMETRES

Model	Code for Pilot Wire	Power	Voltage	Frequency	Interfere	Calauri	Consumption in
	Code for Pilot Wire	W	V	Hz	Interface	Colour	Standby Mode
1500 W	FGA0M1ERF4	1500	230	50	Remote control	White	< 0,5 W
2000 W	FGA0M1ERK6	2000	230	50	Remote control	White	< 0,5 W
N 1500 W	FGB0M1ERF4	1500	230	50	Remote control	Antracite	< 0,5 W
N 2000 W	FGB0M1ERK6	2000	230	50	Remote control	Antracite	< 0,5 W

Model	Sections	Length	Height	Depth	Net weight	Gross weight
Model	num.	mm	mm	mm	kg	kg
1500 W	4	340	1887	95	17.5	20
2000 W	6	500	1887	95	25.5	29
N 1500 W	4	340	1887	95	17.5	20
N 2000 W	6	500	1887	95	25.5	29

INCLUDED IN THE PACKAGE

Item	Description
x2	Fixing system
20 II	Remote control with batteries included





S CONVECTIVE GAS STOVES

Gazelle Evo page 84





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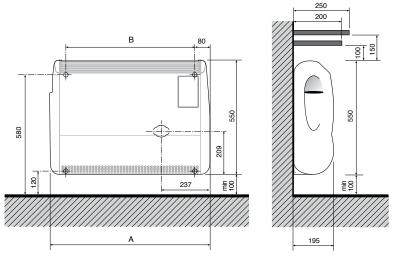


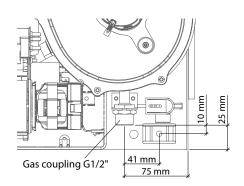
- Seasonal energy efficiency class A
- ▶ Heat exchanger body made of die-cast aluminium with heat reducer
- User interface with encoder, four buttons, large and backlit LC display
- **▶** Premix burner with electronic ignition
- **▶** Fans with brushless motor and high efficiency
- **Maximum power consumption ≤ 30W**
- Possibility to connect a remote controller (optional)
- **▶** Temperature probe complementary (optional)





Available in the following models: 3000 - 5000 - 7000





MEASURES EXPRESSED IN MILLIMETRES

Model	Gas type	Code		
3000	NATURAL GAS	GEXX301PR2		
	PROPANE	GEXX361PR2		
5000	NATURAL GAS	GEXX501PR2		
5000	PROPANE	GEXX561PR2		
7000	NATURAL GAS	GEXX701PR2		
7000	PROPANE	GEXX761PR2		

Technical data	um	3000	5000	7000
Туре	-	C13, C53	C13, C53	C13, C53
Gas type	-	NATURAL GAS PROPANE	NATURAL GAS PROPANE	NATURAL GAS PROPANE
Size (L x H x D)	-	547x550x195	667x550x195	772x550x195
Gross weight	kg	20,0	24,0	28,0
Seasonal space heating energy efficiency class	-	Α	A	A
Seasonal energy efficiency of ambient heating (ηs)	%	89	88	88
Rated heat output (Prated)	kW	2,7	4,5	5,9
Minimum heat output (Pmin)	kW	1,9	2,8	4,2
Efficiency at rated heat output (ηth,nom)	%	93,7	92,2	91,8
Efficiency at reduced heat output (ηth,min)	%	94,5	94,9	94,0
Rated heat input	W	2900	4900	6400
Reduced heat input	W	2000	3000	4500
Rated heat output	W	2720	4520	5880
Reduced heat input	W	1890	2850	4230
Efficiency at rated heat output (Nat. Gas)	%	93,7	92,2	91,8
Efficiency at rated heat output (Propane)	%	93,5	92,3	91,7
Efficiency at reduced heat output (Nat. Gas)	%	94,5	94,9	94,0
Efficiency at reduced heat output (Propane)	%	94,7	95,1	93,8
NOx emission class	-	5	5	5
Power supply voltage/frequency	V/Hz	230 - 50	230 - 50	230 - 50
Maximum absorbed power ERP	W	24	24	30
Electric protection rating	IP	20	20	20
Outside diameter of straight outlet pipes (C13)	mm	2 x 55/2 **	2 x 55/2 **	2 x 55/2 **
Outside diameter of split pipes (C53)	mm	35 or 60	35 or 60	35 or 60
Gas coupling diameter	inches	G 1/2 M	G 1/2 M	G 1/2 M
Standard consumption (Nat. Gas)	-	0,31 m³/h	0,52 m³/h	0,68 m³/h
Standard consumption (Propane)	-	0,23 kg/h	0,38 kg/h	0,50 kg/h

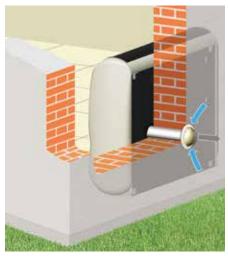
^{** 2} x 55/2 refers to 2 tubes together (one for air intake and one for flue gas outlet) both the shape of a semicircle with a 55 mm diameter.

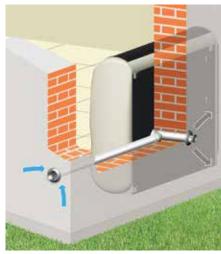
For the gas categories of the products contact Fondital S.p.A.





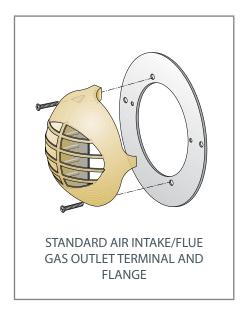
EXAMPLES OF PIPING APPLICATION FOR AIR INTAKE AND FLUE GAS OUTLET

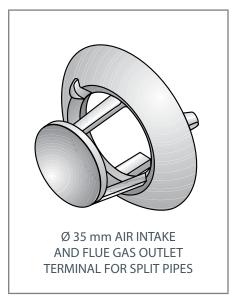


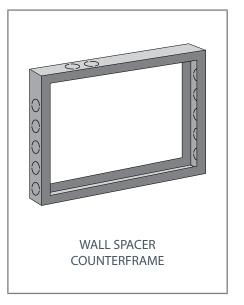




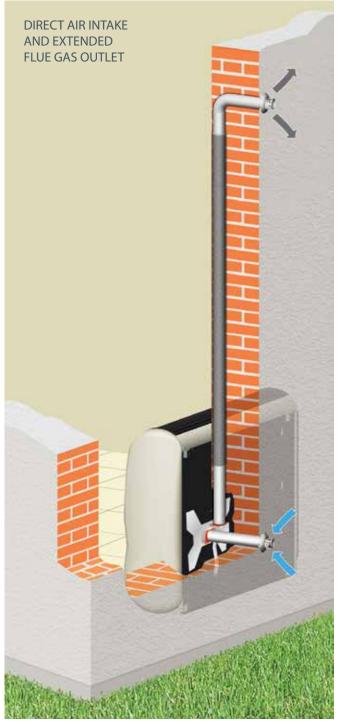
TYPE C 13 TYPE C 53 TYPE C 53







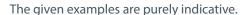
WALL FIXING SYSTEM WITH BRACKET FOR AIR INTAKE AND FLUE GAS OUTLET (SOME EXAMPLES)



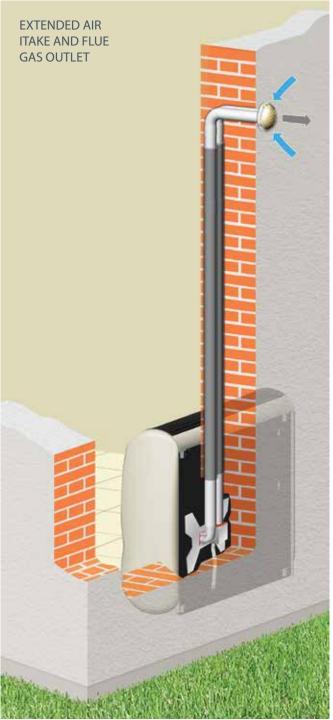
TYPE C 53







Note: Properly insulate the flue gas outlets and install a condensate drain where needed.



TYPE C 53

Length of the pipes for air intake and flue gas outlet

The maximum permissible length of the pipes depends of the load loss of the individual parts of the system installed to create the air intake and flue gas outlet of the machine.

The sum of the load loss of each part, based on the figures indicated in table 2 and 3, must not exceed the value of the "Maximum length permitted". The sum must include both the air intake as the flue gas outlet pipes and changes according the diameter of the pipes used (35 mm or 60 mm).

Gazelle Evo	TYPE (***)		3000	5000	7000
Lunghezza massima ammessa (*)	C13		2 (**)	2 (**)	2 (**)
	C53 - Ø 35 mm		13	7	6
	C53 - Ø 35 mm + Ø 60 mm		100	100	70

Tab. 1

(*) air intake + flue gas outlet

(**) Use of the pipes supplied by the producer: one for air and one for flue gas, both same semicircle shaped with a 55 mm diameter. Pipes of 1 meter length are available as accessories.

(***) see page 86 and 87.

ATTENTION:

When the pipes used are ENTIRELY of diameter 35 mm, refer to the load loss indicators in table 2. When the pipes used are of diameter 35 mm and 60 mm, refer to the load loss indicators in table 3.

Load loss through pipes of exclusively diameter 35 mm

		30	00	50	00	7000	
Description	Code	А	F	А	F	А	F
		m	m	m	m	m	m
Wall safety grid for terminal	6Y41309000	0	0	0	0	0	0
Single wall terminal for Ø 35 mm	6YTERSDO00	0	0,5	0	0,5	0	0,5
Adapter for split flue gas outlet (semicircle / Ø 35 mm)	6YRIDSDO00	0	0	0	0	0	0
Starting elbow for split flue gas outlet Ø 35 mm	6YCURSDO00	0,5	1	0,5	1	0,5	1
Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White	6YTUBSDO13	0,5	0,5	0,5	0,5	0,5	0,5
Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White	6YTUBSDO00	0,5	1	0,5	1	0,5	1
90° elbow for Ø 35 mm tube. M/F - Colour: White	6YCURSDO05	0	0	0	0,5	0	0,5
\emptyset 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White	6YSCACON00	0	0	0	0	0	0
Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White	6YTUBSDO02	0,5	1	0,5	1	0,5	1
\emptyset 35 mm F/F condensate drain for horizontal installation (complete with seals)	6YSCACON05	0	0	0	0	0	0
Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals)	6YMANSCA00	0	0	0	0	0	0
90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals)	6YSCACON06	0,5	1	0,5	1	0,5	1

Tab. 2

A = air intake

F = flue gas outlet

Load loss through pipes of mixed diameter 35 mm and 60 mm

		3000		5000		7000	
Description	Code	Α	F	Α	F	Α	F
		m	m	m	m	m	m
Adapter for split flue gas outlet (semicircle / Ø 35 mm)	6YRIDSDO00	0	0,5	0,5	0,5	0	0,5
Starting elbow for split flue gas outlet Ø 35 mm	6YCURSDO00	8	13,5	11,5	21	7,5	14
\varnothing 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White	6YTUBSDO13	4	7,5	5	10	3	6,5
Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White	6YTUBSDO00	8,5	15	10	20,5	6,5	12,5
90° elbow for Ø 35 mm tube. M/F - Colour: White	6YCURSDO05	2	3,5	3	5	2	3,5
\emptyset 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White	6YSCACON00	1,5	3	2	4	1,5	2,5
Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White	6YTUBSDO02	9,5	16,5	12	23,5	7,5	15
Ø 60 mm ÷ Ø 35 mm F/M adapter - Colour: White	6YRIDSDO03	0	5,5	0	8,5	0	5,5
Ø 60 mm ÷ Ø 35 mm F/F adapter - Colour: White	6YRIDSDO01	0	5,5	0	8,5	0	5,5
Ø 35 mm F/F condensate drain for horizontal installation (complete with seals)	6YSCACON05	0,5	1	0,5	1,5	0,5	1
Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals)	6YMANSCA00	0	0,5	0,5	0,5	0	0,5
90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals)	6YSCACON06	8	13,5	11,5	21	7,5	14
Ø 60 mm pipe length 0.50 m M/F - Colour: White	6YTUBSDO07	0	0,5	0,5	0,5	0,5	0,5
Ø 60 mm pipe length 1.00 m M/F - Colour: White	6YTUBSDO09	0,5	1	1	1	0,5	1
Ø 60 mm pipe length 2.00 m M/F - Colour: White	6YTUBSDO11	1	2	1,5	2	1	2
Ø 60 mm, 90° elbow for pipe M/F - Colour: White	6YCURSDO01	0,5	1	1	2	0,5	1,5
Ø 60 mm, 45° elbow for pipe M/F - Colour: White	6YCURSDO03	0,5	1	1	1,5	0,5	1
Ø 60 mm condensate flue gas outlet M/F - Colour: White	6YSCACON02	0	0	0	0	0	0
Ø 60 mm air intake or flue gas outlet brace terminal, F (aluminium)	6YTERCON00	2,5	2,5	3,5	4	2,5	2,5
Ø 60 mm upright flue gas terminal, F (aluminium)	6YTERSCA00	-	2	-	3	-	2
Single wall terminal for Ø 35 mm	6YTERSDO00	0	7	0	11	0	7,5

Tab. 3

A = air intake

F = flue gas outlet

CALCULATION EXAMPLE

With pipe diameter of 35 mm e 60 mm (apply the load loss indicated in table 3)

Gazelle EVO 5000

Split air intake and flue gas outlet pipes Ø 35 mm and Ø 60 mm Direct air intake behind the appliance Roof flue gas outlet with pipe length 3 meters Maximum length allowed: 100 meters

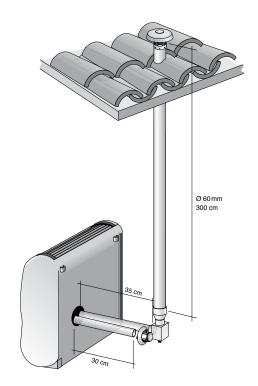
Air intake load loss

Adapter for split flue gas outlet (semicircle / Ø 35 mm): 0,5 m Ø 35 mm double pipe length 30 cm: $10 \times 0,30 \text{ m} = 3,0 \text{ m}$ Single wall terminal for Ø 35 mm: 0,0 m Total air intake load loss: 3,5 m

Flue gas outlet load loss

Adapter for split flue gas outlet (semicircle / Ø 35 mm): 0,5 m Ø 35 mm double pipe length 35 cm: 20,5 x 0,35 m = 7,2 m Ø 35 mm, 90° F/F condensate drain for vertical pipes: 21,0 m Ø 60 mm \div Ø 35 mm F/M adapter: 8,5 m Ø 60 mm pipe length 1 m M/F x 3 : 3 x 1 m = 3,0 m Ø 60 mm upright flue gas terminal, F : 3,0 m Total flue gas outlet loss: 43,2 m

Total (air intake + outlet): 3.5 m + 43.2 m = 46.7 m $46.7 \text{ m} < 100 \text{ m} \rightarrow \text{ALLOWED SOLUTION}$







ACCESSORIES

Item	Description	Pack	Code
66	Standard pipe, length 1 m	2 pc.	6YTUBOAL01
	Wall safety grid for terminal	1 pc.	6Y41309000
	Single wall terminal for Ø 35 mm	2 pc.	6YTERSDO00
6	Adapter for split flue gas outlet (semicircle / Ø 35 mm)	2 pc.	6YRIDSDO00
6	Starting elbow for split flue gas outlet Ø 35 mm	2 pc.	6YCURSDO00
D	Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White	6 pc.	6YTUBSDO13
	Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White	1 pc.	6YTUBSDO93
	Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White	6 pc.	6YTUBSDO00
	Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White	1 pc.	6YTUBSDO90
118 mm	90° elbow for Ø 35 mm tube. M/F - Colour: White	3 pc.	6YCURSDO05
\$\$ 7.75 G	90° elbow for Ø 35 mm tube. M/F - Colour: White	1 pc.	6YCURSDO95
118 mm	Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White	6 pc.	6YTUBSDO02
	Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White	1 pc.	6YTUBSDO92
	Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White	2 pc.	6YSCACON00
	Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White	1 pc.	6YSCACON90
	Ø 60 mm ÷ Ø 35 mm F/M adapter - Colour: White	2 pc.	6YRIDSDO03
	Ø 60 mm \div Ø 35 mm F/F adapter - Colour: White	2 pc.	6YRIDSDO01

Item	Description	Pack	Code
A	Ø 35 mm appliance/adapter seal for pipe	10 pc.	6YGUASDO00
B 🕡	Ø 35 mm external seal for connecting pipes	10 pc.	6YGUASDO02
C	Ø 35 mm adapter/elbow seal	10 pc.	6YGUASDO04
x2 x2 x2 x1 x1 x2 x2	Ø 35 mm split pipe kit with supporting bracket for in-wall pipes The kit includes: N° 1 supporting bracket N° 2 starting elbows for split flue gas outlet N° 2 2 adapters for split flue gas outlet N° 2 35 mm flue gas terminals N° 1 air shutter - N° 2 A-type seals N° 2 B-type seals - N° 2 C-type seals N° 8 3,9 x 9,5 screws N° 2 3,9 x 9,5 screws for terminal fixing N° 4 dowels	1 pc.	6YKITSDO01
	Ø 35 mm F/F condensate drain for horizontal installation (complete with seals)	1 pc.	6YSCACON05
	90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals)	1 pc.	6YSCACON06
	Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals)	2 pc.	6YMANSCA00
SES.	Supporting bracket (with screws and dowels)	1 pc.	6YPIAMUR00
x2 - x2 x2 x2	split pipe kit Ø 35 mm The kit includes: N° 2 adapters - N° 2 starting elbows N° 1 air diaphragm N° 2 B-type seals for connecting pipes N° 2 Ø 35 mm single flue gas terminals N° 6 screws - N° 2 fixing brackets	1 pc.	6YKITSDO00
93 mm 43 mm	Counterframe for split outlet (mod. 3000)	1 pc.	6YTELAIO03
	Counterframe for split outlet (mod. 5000)	1 pc.	6YTELAIO04
SI,	Counterframe for split outlet (mod. 7000)	1 pc.	6YTELAIO05





ltem	Description	Pack	Code
•	Ø 60 mm pipe length 0.50 m M/F - Colour: White	6 pc.	6YTUBSDO07
	Ø 60 mm pipe length 1.00 m M/F - Colour: White	6 pc.	6YTUBSDO09
	Ø 60 mm pipe length 1.00 m M/F - Colour: White	1 pc.	6YTUBSDO99
	Ø 60 mm pipe length 2.00 m M/F - Colour: White	6 pc.	6YTUBSDO11
	Ø 60 mm, 90° elbow for pipe M/F - Colour: White	4 pc.	6YCURSDO01
	Ø 60 mm, 90° elbow for pipe M/F - Colour: White	1 pc.	6YCURSDO91
	Ø 60 mm, 45° elbow for pipe M/F - Colour: White	4 pc.	6YCURSDO03
	Ø 60 mm, 45° elbow for pipe M/F - Colour: White	1 pc.	6YCURSDO93
	Ø 60 mm condensate flue gas outlet M/F - Colour: White	2 pc.	6YSCACON02
	Ø 60 mm air intake or flue gas outlet brace terminal, F (aluminium)	2 pc.	6YTERCON00
	Ø 60 mm upright flue gas terminal, F (aluminium)	2 pc.	6YTERSCA00
	Ø 60 mm pipe clip - Colour: White	10 pc.	6YCOLSCA00
P.C.	Remote control, ErP V class (118x85x32 mm)	1 pc.	0CREMOTO04
10	Ambient temperature probe	1 pc.	0KITSAMB00

INCLUDED ACCESSORIES

ltem	Description	Pack	Code
	Air intake/flue gas outlet terminal flange	1 pc.	6YLAMTER01
	Standard pipe, length 59 cm	2 pc.	6YTUBOAL00
	Plastic terminal	1 pc.	6YTERMIN02
50	Installation kit	1 pc.	6YKITIST37





Anti-corrosion treatment for radiators © Company of the control o



Aleternum® internal coating by Fondital

Corrosion is the primary cause of malfunctions in heating systems. Not only does it deteriorate the components of the system, but over the years corrosion significantly reduces efficiency, increasing consumption and, as a result, operating costs.

For example, corrosion in a heating system containing cast iron or steel radiators produces a sludge that accumulates at the bottom of the radiators, obstructing the radiators themselves and the pipes, resulting in a partial or total loss in thermal performance and uneven heat distribution.

In conventional aluminium radiators, corrosion produces gas pockets which prevent the radiator from heating evenly and may limit thermal performance.

To stop corrosion even before it starts, Fondital has developed Aleternum®, an exclusive resin-based internal coating to protect the radiator water chamber.

Aleternum® by Fondital brings the heating system into a new era, in which total* protection is a guarantee of safety and high efficiency. Your heating system will always be as good as new!

WHAT IS CORROSION?



It is the chemical and physical interaction between a metal and a water-based medium, which causes changes in the properties of the metal and which often leads to a loss in the functionality of the metal itself, of the medium or of the system consisting of these two elements.

Metal + Water + Oxidant = Corrosion

Depending on the part of the metal affected, corrosion is classified as follows:

- diffused corrosion (or generalised corrosion): if the entire surface of the metal is affected by corrosion;
- uniform corrosion: if the entire surface of the metal is affected by corrosion and the effects of corrosion are equal over the entire surface;
- localised corrosion: where only certain areas of the metal are affected by corrosion. There are numerous different patterns of localised corrosion, among which: ulcers, craters, cavities, pin holes and cracks.

plan view			profile view
	Uniform Corrosion – g		
	Uniform Corrosion –		
•••	Localised Co		
	Pitting	craters	
• • • •		pin holes	
		cavities	282.
	Stress corrosion cracking	Simple cracks] } [
	(SCC)	Ramified cracks	1 4 4
2 • • •	Corrosion - e		

- The complete anti-corrosion treatment*
- > Ideal for a broad ph spectrum

Conventional aluminium radiators require pH levels between 7 and 8. The new coating eliminates this limitation, allowing aluminium radiators with the Aleternum coating to operate at a wider pH range than both untreated aluminium and steel (which is subject to corrosive attack at pH levels below 8). Aleternum® radiators by Fondital may be used in heating systems with high or potentially high pH levels.



- No gas pocket formation (no gas)
- > 100% Aluminium 100% recyclable
- ➤ Burst pression up to 60 bar ideal for multi-storey buildings
- > Will not become obstructed no cold spots
- > Light and easy to install
- May be installed in mixed heating systems
- > Extended warranty up to 20 years.
- > Better euro/watt ratio than steel and bimetal radiators
- > Patented system

^{*} Anticorrosive characteristics are ensured if the product is installed in a closed-circuit heating installation, in which all the cleaning and water treatment operations have to be made according to installation standards specific for closed circuit heating installations.



THERMOELECTRICALLY-WELDED CAP

Thermoelectric process, a PATENT PENDING technology, ensures a stable joint between the aluminium die-cast section and its base. Metal in the joint area is absolutely uniform and the two components are perfectly integrated into each other. Thermoelectric joining

technology is carried out at controlled temperatures that prevent spatter and porosity. The result is a radiator that is as solid as a 100% single piece in aluminium, even more sturdy and reliable than ever.

TRADITIONAL CAP



THERMOELECTRICALLY-WELDED CAP





- ✓ NO DIRT ACCUMULATIONS
- ✓ NO WELDING RESIDUES
- ✓ EVEN BETTER AESTHETICS
- ✓ NO GASKETS
- ✓ ENTIRELY IN ALUMINIUM
- ✓ INTERNATIONAL PATENT
- ✓ 100% ALUMINIUM

PAINTING AND FINISHING PHASES

The painting process of Fondital radiators was developed in detail with the aim of ensuring an exemplary final result in terms of both aesthetic look and metal protection. Painting is crucial to protect the metal from the corrosion that could be triggered by particles in the air of the room where the radiator is installed.

With the aim to obtain flawless results, Fondital relies on a process including two coating phases: the first one is an anaphoretic coating dip and is essential for metal protection, while the second one is carried out by spraying and increases the protection degree, lending the product the desired finish and look.



RADIATOR SIZING AND INSTALLATION

To correctly determine the heat output of the radiators to be installed, you must comply with the rules in force.. To determine the number of sections required for each radiator, you must remember that their nominal heat output is associated with a ΔT (difference between the average water temperature and ambient temperature) of 50 K or of 30 K. It is therefore advisable to ensure a ΔT of less than 50 K by decreasing the water outlet temperature (for example, a ΔT of 40 to 30 K). This will ensure energy savings as well as increase the degree of comfort.

The radiator heat output for different ΔT values is calculated using the formula: $\Phi = Km \times \Delta Tn$

The radiator heat output for different ΔT values is calculated using the formula:

Calidor Super B4 500/100 radiator with water temperature: inlet 60 ° C, outlet 44 ° C and ambient temperature of 20 °C. ΔT = (inlet water temperature + outlet water temperature) / 2 - ambient temperature = (60 + 44) / 2 - 20= 32 K. Φ (32K) = Km x ΔT n = 0,7991 x (32)1,2890 = 69,62 W

When determining the number of sections, remember that in the case of installations with water inlet and outlet at the base or installations with one-way or two-way valve, heat output may decrease by up to $10 \div 12\%$ and 20% respectively, due to the particular water distribution in the radiators.

If the radiator is installed under shelves, in niches or - worse - in the event of radiator covers, heat output may decrease by around 10-12 %.

RADIATOR INSTALLATION, USE AND MAINTENANCE

The heating systems must be designed, installed, operated and maintained according to the rules in force. In particular, remember the following during installation:

- The radiators may be used with water and steam systems (max temperature of 120°C);
- the maximum working pressure for die-cast radiators is 16 bar (1600 kPa);
- The radiators must be installed according to the minimum permitted distances: 12 cm above the floor, 2÷5 cm from the wall behind, 10 cm from any niches or shelves;
- If the wall at the back is not sufficiently insulated, fit any additional insulation to minimize dispersion of heat out through the wall;
- Each radiator must be fitted with a vent valve, preferably an automatic one (especially if the radiator has to be isolated from the system);
- The water must have a pH of 7 or 8 (between 5 and 10 only for the model Aleternum) and must not have any properties that can corrode metal in general;
- to tighten the nipples apply a tightening torque between 50 and 80 Nm. Do not exceed 80 Nm.

When using the radiator, remember:

- Never use abrasive products to clean the surfaces;
- Do not use humidifiers in porous materials such as terracotta;
- · Avoid fully closing the valve and thereby isolating the radiator from the system;
- If the radiator requires excessive purging, this means there is a fault with the heating system. Contact a qualified technician or call the manufacturer's technical office directly.

Notes			





The manufacturer reserves the right to implement modifications without notice.

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