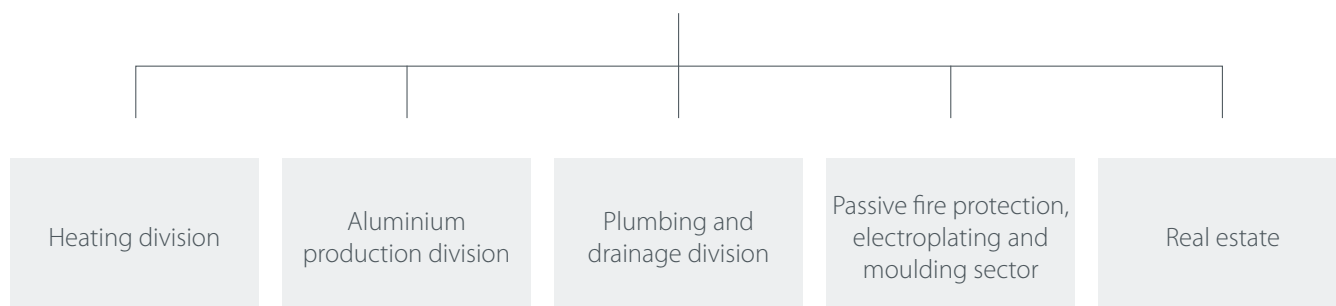




GENERAL CATALOGUE 2018









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

Our vision is to be innovative in the development of efficient and environmentally sustainable products, by listening to our customers' needs and creating new opportunities for our commercial partners in the various markets.

MISSION

Our mission is to strive for excellence and to be innovative in creating heating systems, satisfying our customer's needs. Fondital, being closely linked to its territory, operates with respect to the environment and promotes sustainable development.

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.



● Active markets

FONDITAL PRODUCTS



DIE-CAST RADIATORS



HOME-FURNISHING RADIATORS



BATHROOM RADIATORS AND
TOWEL RAILS



DESIGN RADIATORS



ELECTRIC RADIATORS



CONDENSING BOILERS



NON-CONDENSING BOILERS



THERMAL SOLAR



WATER HEATERS

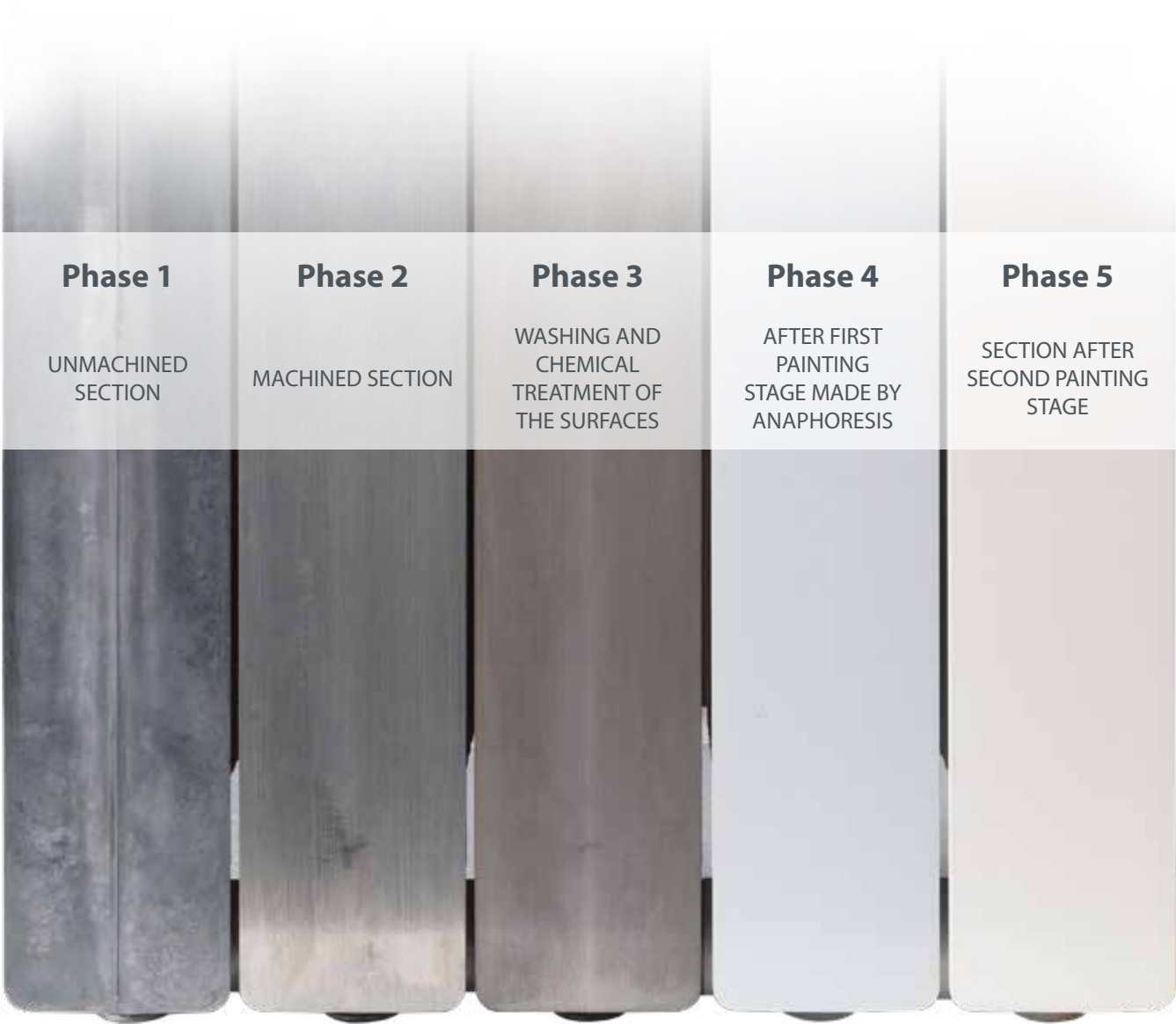


SYSTEM COMPONENTS

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.



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ADVANTAGES OF FONDITAL'S ALUMINUM RADIATORS



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 recent technologies in heating production, as condensing boilers and heat pumps, proving 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. The Aluminum used to manufacture home-furnishing radiators and design radiators is divided in two types: bottom and top heads are made with the mentioned alloys through a die-casting process, while the body is made of 98% pure aluminum through an extrusion process.



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 assembling sections from 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 eco-friendly, 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.





DIE-CAST RADIATORS

Fondital offers an exhaustive range of aluminium die-cast radiators that are perfect for home renovation and low temperature applications.

Fondital radiators are manufactured in Italy from secondary aluminium within environment-friendly facilities and ensure a lower heat inertia thereby allowing energy saving features. In order to best meet any system requirements, die-cast radiators are available in several models, depths and centre distances. Fondital die-cast radiators are protected by a number of international patents and are manufactured to obtain high mechanical performance and energy efficiency.



Aleternum® B4



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



4 international patents



TREATMENT
ALETERNUM



STANDARD SUPPLY:

350 mm = 6, 8, 10, 12, 14 sections

500 mm = 6, 8, 10, 12, 14 sections

600 mm = 6, 8, 10, 12, 14 sections

700 mm = 6, 8, 10, 12 sections

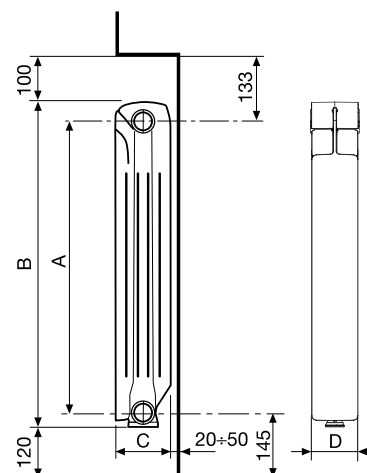
800 mm = 6, 8, 10 sections

COLOUR: Ral 9010 White

Internal anti-corrosive treatment Aleternum® included in the price on all models.

Fondital guarantees **ALETENUM B4** for **20 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

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



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

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article	Code	Description
	A 80	550103 Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81	550104 Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1	510011 1"G joining nipple
	A 10/1	530105 Nipple gasket (asbestos-free)
	A 11/1	530108 Gasket for plugs (asbestos-free)
	A 20	550037 Installation kit with two adjustable, coated brackets

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



3 international patents

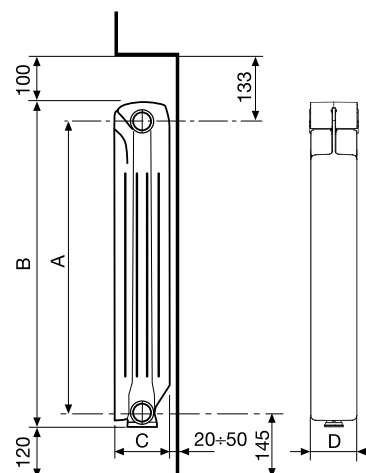


STANDARD SUPPLY: Available from 3 to 10 sections for centre distance 800 – from 3 to 12 sections for centre distance 700 - from 3 to 14 sections for centre distance 350-500-600.

COLOUR: Ral 9010 White

Fondital guarantees **CALIDOR SUPER B4** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

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



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

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article	Code	Description
	A 80 550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81 550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1 510011	1"G joining nipple
	A 10/1 530105	Nipple gasket (asbestos-free)
	A 11/1 530108	Gasket for plugs (asbestos-free)
	A 20 550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



3 international patents

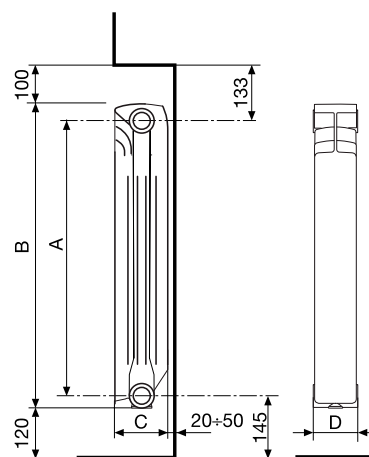


STANDARD SUPPLY: Available from 3 to 10 sections for centre distance 800 – from 3 to 12 sections for centre distance 700 - from 3 to 14 sections for centre distance 350-500-600.

COLOUR: Ral 9010 White

Fondital guarantees **SOLAR SUPER B4** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	47,3	68,6	91,5	115,8	141,3
500/100	64,4	93,4	124,6	157,6	192,3
600/100	74,3	107,7	143,6	181,7	221,7
700/100	82,9	120,8	161,7	205,1	250,9
800/100	91,9	133,6	178,7	226,5	276,9



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	V688014	97	407	350	80	G1	0,21	1,2910	0,5865
500/100	V688034	97	557	500	80	G1	0,26	1,2917	0,7957
600/100	V688044	97	657	600	80	G1	0,3	1,2902	0,9230
700/100	V688054	97	757	700	80	G1	0,36	1,3064	0,9752
800/100	V688064	97	857	800	80	G1	0,39	1,3022	1,0956

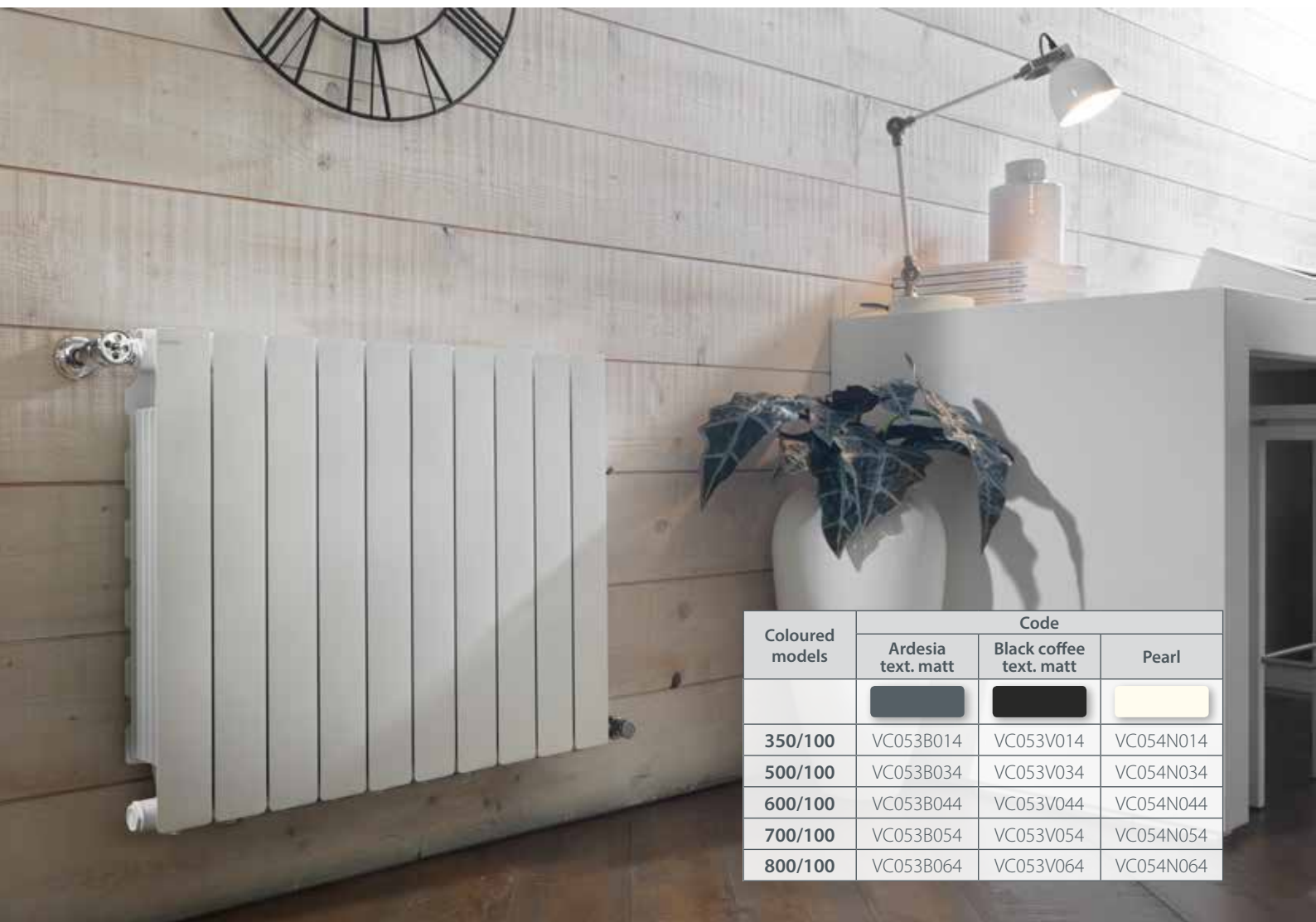
Maximum working pressure: 1600 kPa (16 bar)

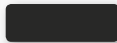
Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article	Code	Description
	A 80 550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81 550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1 510011	1"G joining nipple
	A 10/1 530105	Nipple gasket (asbestos-free)
	A 11/1 530108	Gasket for plugs (asbestos-free)
	A 20 550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75



Coloured models	Code		
	Ardesia text. matt	Black coffee text. matt	Pearl
			
350/100	VC053B014	VC053V014	VC054N014
500/100	VC053B034	VC053V034	VC054N034
600/100	VC053B044	VC053V044	VC054N044
700/100	VC053B054	VC053V054	VC054N054
800/100	VC053B064	VC053V064	VC054N064



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



16
bar

Working pressure



3 international patents



Available in 3 colors



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

CE¹⁷



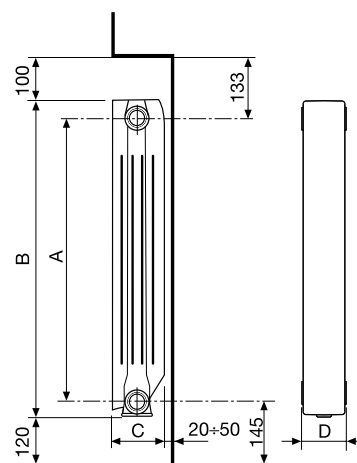
STANDARD SUPPLY: Available from 3 to 10 sections for centre distance 800 – from 3 to 12 sections for centre distance 700 - from 3 to 14 sections for centre distance 350-500-600.

COLOUR: Ral 9010 White

Coloured versions: 45% price increase on the price of a gloss White RAL 9010.

Fondital guarantees **BLITZ SUPER B4** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	48,0	69,4	92,4	116,8	142,3
500/100	63,7	92,7	124,0	157,2	192,1
600/100	73,8	107,3	143,5	181,9	222,3
700/100	82,6	120,9	162,5	206,8	253,6
800/100	90,3	133,8	178,2	229,4	281,6







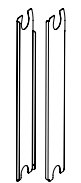




Model	Code (COLOUR: Ral 9010 White)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V693014	97	407	350	80	G1	0,24	1,2818	0,6139
500/100	V693034	97	557	500	80	G1	0,27	1,3027	0,7587
600/100	V693044	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	0,9896

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article	Code	Description
	A 80 550103	Mounting kit for radiators each containing: 2 zinc-plated. paint-coated reducers 1/2"G. Rh; 2 zinc-plated. paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81 550104	Mounting kit for radiators each containing: 2 zinc-plated. paint-coated reducers 1/2"G. Rh; 2 zinc-plated. paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1 510011	1"G joining nipple
	A 10/1 530105	Nipple gasket (asbestos-free)
	A 11/1 530108	Gasket for plugs (asbestos-free)
	A 20 550037	Installation kit with two adjustable, coated brackets
	550360	Installation kit with two brackets, centre distance 350 mm
	550361	Installation kit with two brackets, centre distance 500 mm
	550362	Installation kit with two brackets, centre distance 600 mm
	550363	Installation kit with two brackets, centre distance 700 mm
	550364	Installation kit with two brackets, centre distance 800 mm
	550129V	1/2 " mounting and plugs kit - Colour: BLACK COFFEE
	550129E	1/2 " mounting and plugs kit - Colour: ARDESIA TEXTURED MATT
	550129NP	1/2 " mounting and plugs kit - Colour: PEARL
	550130V	3/4 " mounting and plugs kit - Colour: BLACK COFFEE
	550130E	3/4 " mounting and plugs kit - Colour: ARDESIA TEXTURED MATT
	550130NP	3/4 " mounting and plugs kit - Colour: PEARL

Colour: **RAL 9010 WHITE**

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



3 international patents

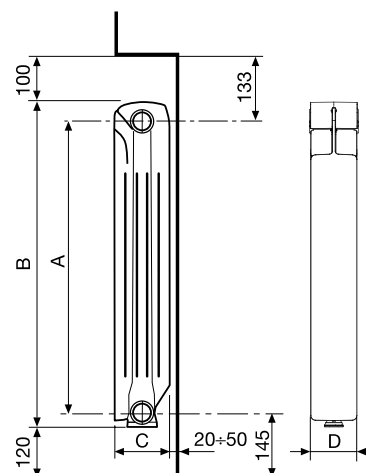


STANDARD SUPPLY: Available from 3 to 10 sections for centre distance 800 – from 3 to 12 sections for centre distance 700 - from 3 to 14 sections for centre distance 350-500-600.

COLOUR: Ral 9010 White

Fondital guarantees **MASTER** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	47,2	67,9	89,9	113,1	137,3
500/100	59,9	86,4	114,9	145,0	176,6
600/100	68,9	99,4	132,2	166,8	203,1
700/100	77,7	112,3	149,5	188,9	230,2
800/100	85,1	123,6	165,0	209,0	255,3









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
B4 350/100	V686014	97	407	350	80	G1	0,20	1,2598	0,6506
B3 500/100	V662034	97	557	500	80	G1	0,24	1,2768	0,7783
B3 600/100	V662044	97	657	600	80	G1	0,27	1,2763	0,8973
B3 700/100	V662054	97	757	700	80	G1	0,39	1,2819	0,9928
B3 800/100	V662064	97	857	800	80	G1	0,42	1,2962	1,0360

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article	Code	Description
	A 80 550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81 550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1 510011	1"G joining nipple
	A 10/1 530105	Nipple gasket (asbestos-free)
	A 11/1 530108	Gasket for plugs (asbestos-free)
	A 20 550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



3 international patents



Mod. 700 - 800

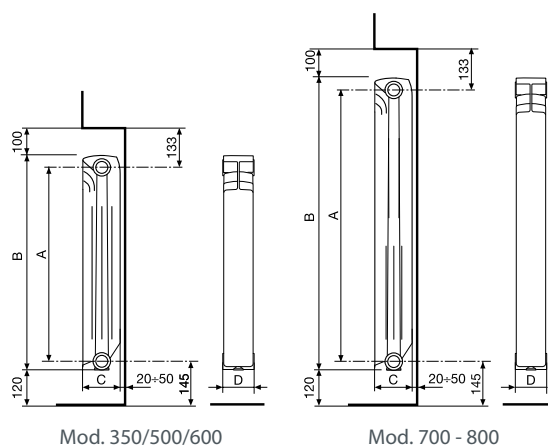


STANDARD SUPPLY: Available from 3 to 10 sections for centre distance 800 – from 3 to 12 sections for centre distance 700 - from 3 to 14 sections for centre distance 350-500-600.

COLOUR: Ral 9010 White

Fondital guarantees **EXCLUSIVO B3** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	47,3	68,6	91,5	115,8	141,3
500/100	59,6	86,4	115,2	145,8	177,8
600/100	68,5	99,7	133,4	169,2	206,8
700/100	77,1	112,0	149,5	189,4	231,3
800/100	85,2	124,0	166,0	210,7	257,7



Mod. 350/500/600

Mod. 700 - 800

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
B4 350/100	V680014	97	407	350	80	G1	0,21	1,2910	0,5865
B3 500/100	V666034	97	557	500	80	G1	0,25	1,2896	0,7422
B3 600/100	V666044	97	657	600	80	G1	0,28	1,3046	0,8101
B3 700/100	V666054	97	757	700	80	G1	0,39	1,2970	0,9358
B3 800/100	V666064	97	857	800	80	G1	0,43	1,3070	0,9992

Maximum working pressure: 1600 kPa (16 bar)Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article	Code	Description
	A 80 550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81 550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1 510011	1"G joining nipple
	A 10/1 530105	Nipple gasket (asbestos-free)
	A 11/1 530108	Gasket for plugs (asbestos-free)
	A 20 550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



3 international patents



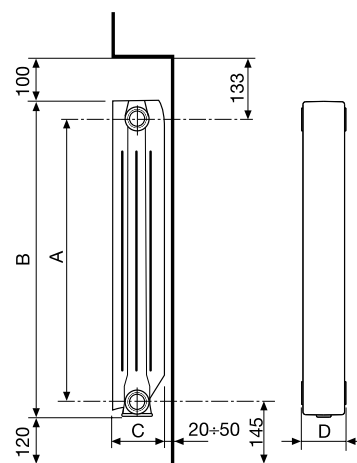
STANDARD SUPPLY:

Available from 3 to 14 sections for centre distance 500 and 600.

COLOUR: Ral 9010 White

Fondital guarantees **BLITZ B3** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/100	62,3	89,9	119,5	150,8	183,6
600/100	69,6	101,0	134,9	170,9	208,7







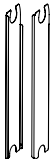


Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/100	V659034	97	557	500	80	G1	0,26	1,2767	0,8097
600/100	V659044	97	657	600	80	G1	0,29	1,2968	0,8449

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article		Code	Description	
	A 80	550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket	
	A 81	550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall	
	A 2/1	510011	1"G joining nipple	
	A 10/1	530105	Nipple gasket (asbestos-free)	
	A 11/1	530108	Gasket for plugs (asbestos-free)	
	A 20	550037	Installation kit with two adjustable, coated brackets	
	550361		Installation kit with two brackets, centre distance 500 mm	Colour: RAL 9010 WHITE
	550362		Installation kit with two brackets, centre distance 600 mm	

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



3 international patents



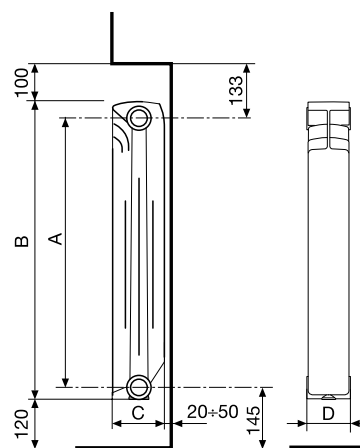
STANDARD SUPPLY:

Available from 3 to 14 sections for centre distance 500 and 600.

COLOUR: Ral 9010 White

Fondital guarantees **EXPERTO A3** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/100	51,6	74,4	98,8	124,5	151,5
600/100	59,7	85,9	114,0	143,6	174,6



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	V633034	97	557	500	80	G1	0,25	1,2718	0,6820
600/100	V633044	97	657	600	80	G1	0,27	1,2670	0,8024

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article		Code	Description
	A 80	550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81	550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1	510011	1"G joining nipple
	A 10/1	530105	Nipple gasket (asbestos-free)
	A 11/1	530108	Gasket for plugs (asbestos-free)
	A 20	550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



3 international patents



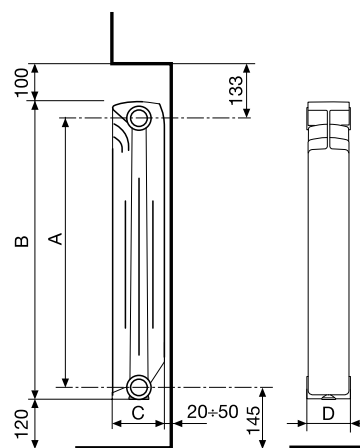
STANDARD SUPPLY:

Available from 3 to 14 sections for centre distance 500.

COLOUR: Ral 9010 White

Fondital guarantees **MYTICO A3** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/100	50,6	73,1	97,3	122,7	149,5



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	V632034	97	557	500	80	G1	0,24	1,2778	0,6560

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article		Code	Description
	A 80	550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81	550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1	510011	1"G joining nipple
	A 10/1	530105	Nipple gasket (asbestos-free)
	A 11/1	530108	Gasket for plugs (asbestos-free)
	A 20	550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75

Blitz80



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



**16
bar**

Working pressure



3 international patents

CE₁₇

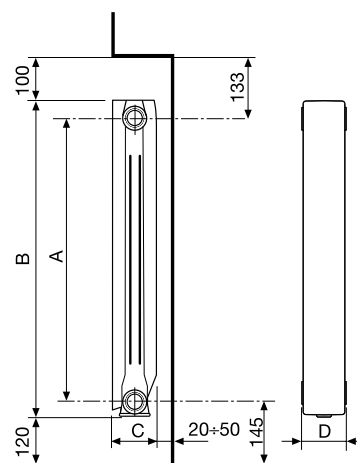


STANDARD SUPPLY: Available from 3 to 10 sections for centre distance 800 – from 3 to 12 sections for centre distance 700 - from 3 to 14 sections for centre distance 500-600.

COLOUR: Ral 9010 White

Fondital guarantees **BLITZ80 B2** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/80	51,3	74,2	98,8	124,8	152,2
600/80	58,6	85,1	113,5	143,7	175,5
700/80	67,2	97,6	130,4	165,3	201,9
800/80	74,5	108,2	144,7	183,3	224,0



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

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article		Code	Description
	A 80	550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81	550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1	510011	1"G joining nipple
	A 10/1	530105	Nipple gasket (asbestos-free)
	A 11/1	530108	Gasket for plugs (asbestos-free)
	A 20	550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75

Calidor 80



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



3 international patents

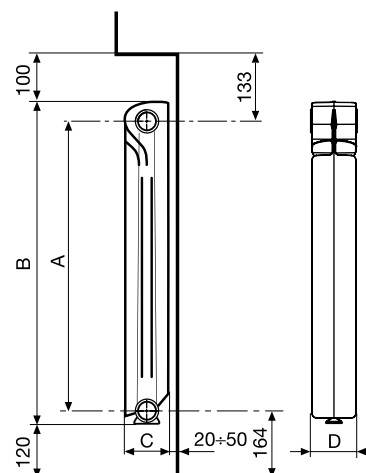


STANDARD SUPPLY: Available from 3 to 10 sections for centre distance 800 – from 3 to 12 sections for centre distance 700 - from 3 to 14 sections for centre distance 500-600.

COLOUR: Ral 9010 White

Fondital guarantees **CALIDOR80 B2** for **10 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

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



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

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

Article		Code	Description
	A 80	550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81	550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1	510011	1"G joining nipple
	A 10/1	530105	Nipple gasket (asbestos-free)
	A 11/1	530108	Gasket for plugs (asbestos-free)
	A 20	550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75



ADVANTAGES OF ALUMINIUM

- lightness of radiator
- modern and attractive design
- 100% recyclable
- excellent thermal conductivity

ADVANTAGES OF STEEL

- High resistance to corrosion
- Maximum working pressure: 40 bar
- Bursting pressure: 120 bar
- Radiator maximum lifetime: 30 years
- Possible use of different vector fluids as water, oil, antifreeze liquid and steam



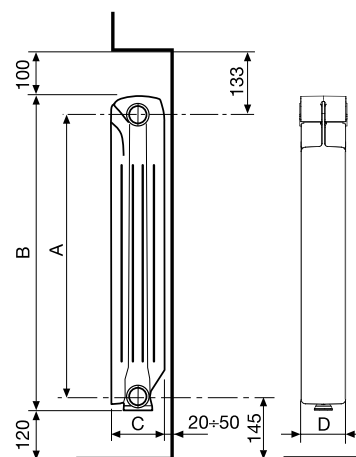
STANDARD SUPPLY:

500 mm = 6, 8, 10, 12 sections

COLOUR: Ral 9010 White

Fondital guarantees **ALUSTAL** for **20 years** from the date of installation against all production defects provided that the heating system conforms with regulations, in compliance with the standards in force and provided that instructions on installation, use and correct maintenance supplied with the product have been observed.

Model	Heat output		
	ΔT 30	ΔT 50	ΔT 70
	W/sect.	W/sect.	W/sect.
500/100	63,5	123,3	191,0



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	V901034	97	559	500	80	G1	0,19	1,3248	0,6557

Maximum working pressure: 4000 Kpa (40 bar)

Characteristic equation of the model $\Phi = Km \Delta T^n$.

The thermal efficiency values shown comply with the European Standard EN 442.

Article		Code	Description
	A 80	550103	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket
	A 81	550104	Mounting kit for radiators each containing: 2 zinc-plated, paint-coated reducers 1/2"G. Rh; 2 zinc-plated, paint-coated reducers 1/2"G. Lh; 4 retaining gaskets; 1 manual air-purging valve 1/2"G with gasket; 1 (1/2"G) plug with gasket; 3 brackets to be screwed on to the wall
	A 2/1	510011	1"G joining nipple
	A 10/1	530105	Nipple gasket (asbestos-free)
	A 11/1	530108	Gasket for plugs (asbestos-free)
	A 20	550037	Installation kit with two adjustable, coated brackets

For other accessories see page 75





HOME-FURNISHING RADIATORS

A complete range of aluminium radiators for the home designed to satisfy the most varied system and design needs, without compromising on performance. Fondital radiators furnish and heat.





Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



STANDARD SUPPLY:

Blocks of 3, 4, 5, 6 sections.

The water diaphragm is included.

COLOUR: Ral 9010 White

Also available with **Alutarnum** anticorrosion treatment

ATTENTION: The minimum order for the radiator Garda S/90 must be at least a blocks of 3 sections.

All **GARDA S/90** 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.

Technical drawing of the 1000 Series Aluminum Extrusion. The drawing includes a front view and a side view. The front view shows a rectangular extrusion with a total height of 130 and a total width of 163. The height is divided into a top section of 120 and a bottom section of 10. The width is divided into a central section of 120+50 and two side sections of 20 each. The side view shows a rectangular extrusion with a total height of 163 and a total width of 80. The height is divided into a top section of 153 and a bottom section of 10. The width is divided into a central section of 20+50 and two side sections of 20 each.



Characteristic equation of the model $\Phi = Km \Delta T^n$.

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



STANDARD SUPPLY:

Blocks of 3, 4, 5, 6 sections.
The water diaphragm is included.

COLOUR: Ral 9010 White

ATTENTION: The minimum order for the radiator Garda S/90 AC must be at least a blocks of 3 sections.

All **GARDA S/90 AC** 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.

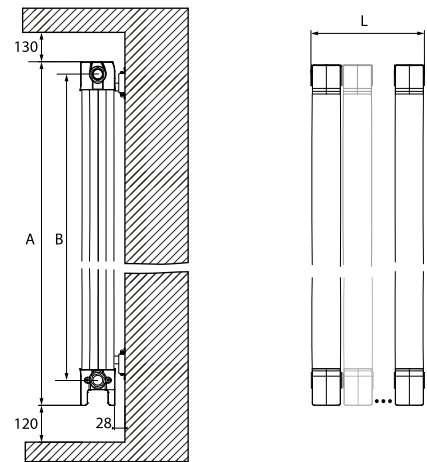


BOTTOM CENTRE
CONNECTION



BOTTOM SIDE
CONNECTION

PLEASE NOTE: To connect the radiator with a valve at the bottom on one side, you will need to join two Garda S90 AC radiators using dedicated accessories **Art. 550111E + Art. 520118**.



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

Model	Heat output				
	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
1600/3	408	607	827	1064	1318
1600/5	680	1012	1378	1774	2196
1600/7	951	1417	1930	2484	3074
1600/9	1223	1822	2481	3193	3953
1800/3	450	665	900	1153	1421
1800/5	750	1108	1500	1921	2368
1800/7	1050	1551	2100	2689	3315
1800/9	1350	1995	2700	3458	4262



Model	Code	Depth	Height	Centre distance	Length*	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(A) mm	(B) mm	(L) mm	inches	litres	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	11,0340
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

Maximum operating pressure: 1600 kPa (16 bar).



Characteristic equation: $\Phi = K_m \cdot \Delta T^n$, reference EN 442-1:2014.

* including two blanking plugs.




Valve with water inlet centre distance 50 mm with by-pass - **Finish: nickel-plated**

Article	Code	Description	Size	Connection
	847V81210Q	Angled valve suitable for thermostatic operation	1/2"	3/4" EK
	847V81610Q	Straight valve suitable for thermostatic operation	1/2"	3/4" EK





Valve with water inlet centre distance 50 mm with by-pass - **Finish: white**

Article	Code	Description	Size	Connection
	847V81210E	Angle valve suitable for thermostatic operation	1/2"	3/4" EK
	847V81610E	Straight valve suitable for thermostatic operation	1/2"	3/4" EK





Additional accessories

Article	Code	Description	Connection
	550140	Extension kit with o-ring	1/2" x 1/2"
	847A40300A	Liquid filled thermostatic head white/chrome finish	M30x1,5
	847M02610A	Angled connector for thermostatic head	M30x1,5

Components **SUPPLIED AS STANDARD** with radiators

Article	Code	Description
	550057	Diaphragm for probe, 11 mm diameter
	550128	Mounting system and plug kit
	525013	Blanking plug with groove, right hand thread 1"
	525113	Blanking plug with groove, left hand thread 1"
	526241	Reducer with groove, right hand thread 1" ÷ 1/2
	526341	Reducer with groove, left hand thread 1" ÷ 1/2

Components **SUPPLIED AS STANDARD** with valves

Article	Code	Description
	847NV81109A	Plastic probe diameter 11 mm length 110 mm
	847A31301A	Flow diverter
	847A34450B	Nut and chrome-plated connection for valve
	847A15029A	O-Ring for 1/2" pipe connection

Fittings for COPPER pipes

Pipe diameter	Connection	Nickel-plated	Chrome-plated
		Code	Code
10 mm	¾" EK	847A43301Q	847A33501B
12 mm	¾" EK	847A43302Q	847A33502B
14 mm	¾" EK	847A43303Q	847A33503B
15 mm	¾" EK	847A43304Q	847A33504B
16 mm	¾" EK	847A43305Q	847A33505B
18 mm	¾" EK	-	847A33506B



Fittings for MULTILAYER pipes

Pipe diameter x Wall	Connection	Nickel-plated	Chrome-plated
		Code	Code
14x2 mm	¾" EK	847A39301Q	847A58701B
16x2 mm	¾" EK	847A39302Q	847A58702B
17x2 mm	¾" EK	847A39304Q	847A58704B
18x2 mm	¾" EK	847A39306Q	847A58706B
20x2 mm	¾" EK	847A39308Q	847A58708B
16x2,25 mm	¾" EK	847A39303Q	847A58703B
20x2,25 mm	¾" EK	847A39309Q	847A58709B
20x2,5 mm	¾" EK	847A39307Q	847A58707B
16x2,6 mm	¾" EK	847A39315Q	-
20x2,9 mm	¾" EK	847A39316Q	-








Fittings for PEX pipes

Pipe diameter x Wall	Connection	Nickel-plated	Chrome-plated
		Code	Code
12X1 mm	¾" EK	847A39420Q	847A58810B
16 X 1,5 mm	¾" EK	847A39405Q	847A58811B
12X2 mm	¾" EK	847A39401Q	847A58800B
14X2 mm	¾" EK	847A39402Q	847A58801B
16X2 mm	¾" EK	847A39406Q	847A58803B
17X2 mm	¾" EK	847A39408Q	847A58805B
18X2 mm	¾" EK	847A39410Q	847A58806B
20X2 mm	¾" EK	847A39413Q	847A58808B
16X2,2 mm	¾" EK	847A39407Q	847A58804B
15X2,5 mm	¾" EK	847A39404Q	847A58802B
18X2,5 mm	¾" EK	847A39411Q	847A58807B
20X2,5 mm	¾" EK	847A39415Q	847A58809B



Components for radiators with SIDE CONNECTIONS

Article	Code	Description
	550111E	Kit with two nipples and two gaskets to join sections
	520118	½" plug to close central section
	560257	Plastic wrench for plugs and G1" + G ¾" reducers
	550092	Wrench kit for joining nipples and plastic wrench for plugs
	550090	Joining tool for G 1" nipples - cm. 80



Low thermal inertia



Low water consumption



Versatility



Easy to stock and install



Working pressure



STANDARD SUPPLY:

Blocks of 3, 4, 5, 6 sections.

The water diaphragm is included.

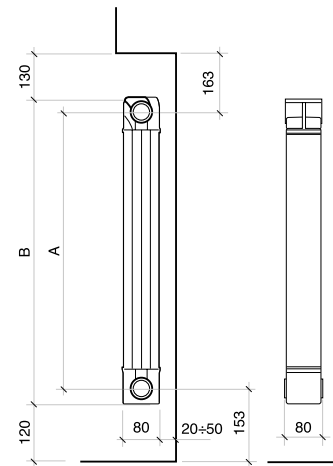
COLOUR: Ral 9010 White

Also available with **Alutarnum** anticorrosion treatment

ATTENTION: The minimum order for the radiator Garda Dual 80 must be at least a blocks of 3 sections.

All **GARDA DUAL 80** 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.

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

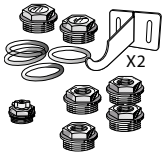
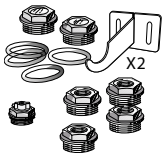








Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	82F014	80	966	900	80	G1	0,47	1,3695	0,8217
1000	82G014	80	1066	1000	80	G1	0,52	1,3908	0,8198
1200	82H014	80	1266	1200	80	G1	0,60	1,3889	0,9391
1400	82I014	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 $\Phi = K_m \Delta T^n$.

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the CETIAT, notified body N°1623.

Article		Code	Description
	A 72	550118	Plug and 1/2" adapters kit, colour white Rough brackets, not painted 1 Bleed valve 1/2" 1 Rh blanking plug 1 Lh blanking plug 2 Rh adapters 1/2" 2 Lh adapters 1/2" 4 O-ring seals 2 Supporting brackets
	A 73	550119	Plug and 3/4" adapters kit, colour white Rough brackets, not painted 1 Bleed valve 3/4" 1 Rh blanking plug 1 Lh blanking plug 2 Rh adapters 3/4" 2 Lh adapters 3/4" 4 O-ring seals 2 Supporting brackets
	A 30/1	521011	Retainer rubber cap (water diaphragm)
	A 32/1	530102	O-ring gasket for nipples, plugs and adapters for Garda radiators
	A 33/1	521012	1"G special nipple for extruded radiators
	A 36/4	570014	Towel rack for Garda Dual 80 radiators, 4 sections, white 9010
	A 36/5	570024	Towel rack for Garda Dual 80 radiators, 5 sections, white 9010
	A 36/6	570124	Towel rack for Garda Dual 80 radiators, 6 sections, white 9010

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Working pressure

CE₀₅

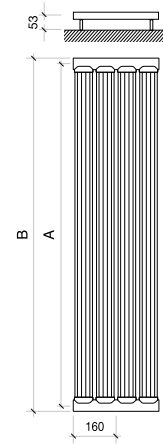


STANDARD SUPPLY: Blocks of 2, 3 sections.

The water diaphragm (retaining holder plug) is included in the fixing system (accessory A71 - to be ordered separately).

COLOUR: Ral 9010 White

All **CALENS DUAL R** 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.



**Each element, 160 mm wide,
comprises two columns.**


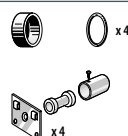
Model	Heat output				
	$\Delta T\ 30$	$\Delta T\ 40$	$\Delta T\ 50$	$\Delta T\ 60$	$\Delta T\ 70$
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
900	89,9	129,9	172,9	218,4	266,1
1000	98,2	142,8	190,9	242,0	295,8
1200	117,1	169,8	226,4	286,5	349,5
1400	134,1	194,7	260,0	329,3	402,1
1600	153,2	221,8	295,4	373,4	455,2
1800	168,5	244,4	326,0	412,6	503,5
2000	181,8	266,4	358,4	456,6	560,4

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	EA81A014	40	940	900	160	G1	0,94	1,2807	1,1534
1000	EA81B014	40	1040	1000	160	G1	1,02	1,3009	1,1767
1200	EA81C014	40	1240	1200	160	G1	1,23	1,2905	1,4533
1400	EA81D014	40	1440	1400	160	G1	1,42	1,2963	1,6315
1600	EA81E014	40	1640	1600	160	G1	1,60	1,2850	1,9377
1800	EA81F014	40	1840	1800	160	G1	1,82	1,2917	2,0829
2000	EA81G014	40	2040	2000	160	G1	1,93	1,3288	1,9803

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = Km \Delta T^n$.

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the CETIAT, notified body N°1623.

Article	Code	Description
	A 31	530122 O-ring gasket for nipples, plugs and adapters
	A 71	590053 Blister pack of wall fixings containing: - 4 fixing units - adapters - seals - valve plug

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Working pressure



STANDARD SUPPLY:

Blocks of 3, 4, 5 sections (350 ÷ 800)

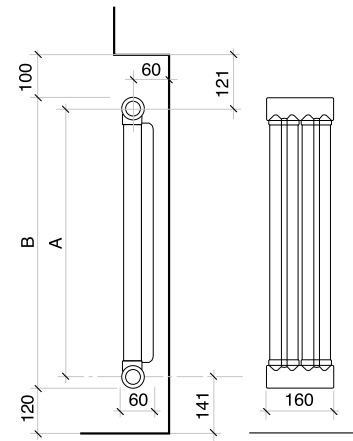
Blocks of 2, 3 sections (900 ÷ 2000)

The water diaphragm (retaining holder plug) is included in the fixing system (accessory A70 - to be ordered separately).

COLOUR: Ral 9010 White

All **DECUS R** 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.

Model	Heat output				
	$\Delta T\ 30$	$\Delta T\ 40$	$\Delta T\ 50$	$\Delta T\ 60$	$\Delta T\ 70$
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350	60,0	87,4	117	148,5	181,7
500	77,8	113,5	152	193,0	236,2
600	89,5	130,6	175	222,3	272,1
700	100,7	146,9	197	250,3	306,5
800	111,8	163,3	219	278,4	340,9
900	123,0	179,6	241	306,4	375,4
1000	133,6	195,2	262	333,2	408,4
1200	155,2	227,0	305	388,2	476,0
1400	176,8	258,9	348	443,2	543,7
1600	197,7	289,9	390	497,0	610,0
1800	218,7	320,9	432	550,9	676,5
2000	240,0	352,5	475	606,1	744,7




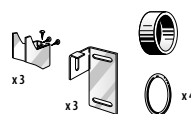
Each element, 160 mm wide, comprises two columns.

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
350	EA80A014	60	390	350	160	G1	0,480	1,3078	0,7019
500	EA80B014	60	540	500	160	G1	0,590	1,3104	0,9026
600	EA80C014	60	640	600	160	G1	0,678	1,3121	1,0323
700	EA80D014	60	740	700	160	G1	0,765	1,3139	1,1541
800	EA80E014	60	840	800	160	G1	0,850	1,3156	1,2741
900	EA80F014	60	940	900	160	G1	0,960	1,3174	1,3928
1000	EA80G014	60	1040	1000	160	G1	1,040	1,3191	1,5036
1200	EA80H014	60	1240	1200	160	G1	1,200	1,3226	1,7267
1400	EA80I014	60	1440	1400	160	G1	1,380	1,3261	1,9436
1600	EA80L014	60	1640	1600	160	G1	1,575	1,3296	2,1488
1800	EA80M014	60	1840	1800	160	G1	1,750	1,3331	2,3478
2000	EA80N014	60	2040	2000	160	G1	1,950	1,3365	2,5466

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the CETIAT, notified body N°1623.

Article		Code	Description
	A 31	530122	O-ring gasket for nipples, plugs and adapters
	A 70	590055	Blister pack for wall fixings including: - 3 fixing units - 1 rubber plug (water diaphragm) - 4 special O-ring seals

For other accessories see page 75





BATHROOM RADIATORS AND TOWEL RAILS

Fondital manufactures a wide range of towel rails in extruded aluminium. 100% made in Italy using secondary aluminium in environmentally-friendly facilities, they ensure a lower heat inertia and energy saving.

In order to meet any system requirements, Fondital towel rails are available in several models, depths and centre distances and some items feature special colours and finishings. All Fondital towel rails guarantee extremely long service life and are protected by a number of international patents.



Cool Aleternum®



Low thermal inertia



Low water consumption



Versatility



Working pressure



Available in 24 colors

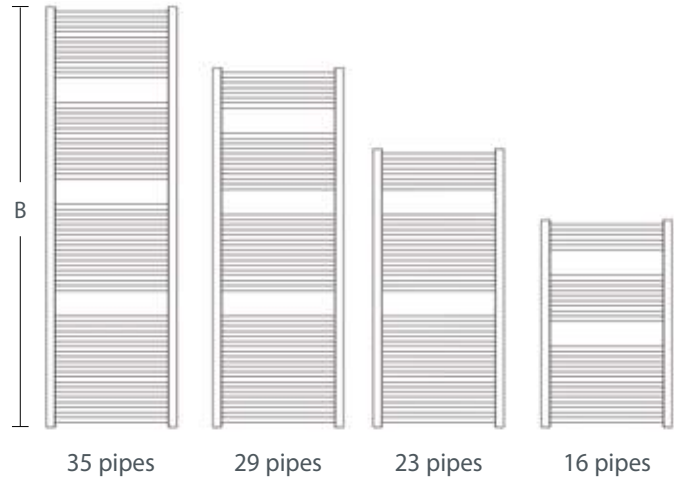
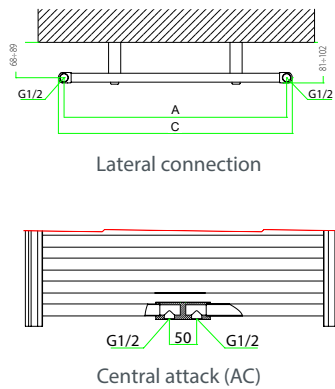
CE₁₄



CENTRE DISTANCE	HEIGHT (B)
400 - 450 - 500 550 - 600	858 - 1152 1488 - 1740

Anticorrosion internal treatment Aleternum® provided.

All **COOL** models 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.



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

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

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

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = Km \Delta T^n$.

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 N°1695.

EXAMPLE EXTRAPOLATION CODE:

COOL radiator 860/400, gloss White colour.

Es: EA42E0 04

COOL radiator 1160/500, gloss Ardesia colour.

Es: EA52G0 2B

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

Model	COOL lateral connection	COOL central connection	Model	COOL lateral connection		COOL central connection	
	WHITE CODE			COLOURED CODE	FINISHING/ COLOUR	COLOURED CODE	FINISHING/ COLOUR
860/400	EA42E0 04	EA62E0 04	860/400	EA52E0	XX*	EA62E0	XX*
860/450	EA42A0 04	EA62A0 04	860/450	EA52A0		EA62A0	
860/500	EA42B0 04	EA62B0 04	860/500	EA52B0		EA62B0	
860/550	EA42C0 04	EA62C0 04	860/550	EA52C0		EA62C0	
860/600	EA42D0 04	EA62D0 04	860/600	EA52D0		EA62D0	
1160/400	EA42L0 04	EA62L0 04	1160/400	EA52L0		EA62L0	
1160/450	EA42F0 04	EA62F0 04	1160/450	EA52F0		EA62F0	
1160/500	EA42G0 04	EA62G0 04	1160/500	EA52G0		EA62G0	
1160/550	EA42H0 04	EA62H0 04	1160/550	EA52H0		EA62H0	
1160/600	EA42I0 04	EA62I0 04	1160/600	EA52I0		EA62I0	
1490/400	EA42Q0 04	EA62Q0 04	1490/400	EA52Q0		EA62Q0	
1490/450	EA42M0 04	EA62M0 04	1490/450	EA52M0		EA62M0	
1490/500	EA42N0 04	EA62N0 04	1490/500	EA52N0		EA62N0	
1490/550	EA42O0 04	EA62O0 04	1490/550	EA52O0		EA62O0	
1490/600	EA42P0 04	EA62P0 04	1490/600	EA52P0		EA62P0	
1740/400	EA42V0 04	EA62V0 04	1740/400	EA52V0		EA62V0	
1740/450	EA42R0 04	EA62R0 04	1740/450	EA52R0		EA62R0	
1740/500	EA42S0 04	EA62S0 04	1740/500	EA52S0		EA62S0	
1740/550	EA42T0 04	EA62T0 04	1740/550	EA52T0		EA62T0	
1740/600	EA42U0 04	EA62U0 04	1740/600	EA52U0		EA62U0	

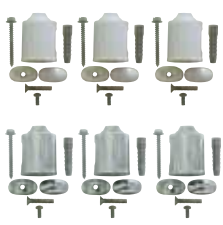


*The two final numbers change according to chosen finishing/ colour.

COLOURS

All colours are available in four finishes:

- GLOSS
- MATT
- TEXTURED MATT
- PEARL

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



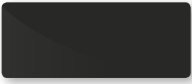
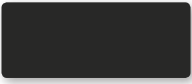


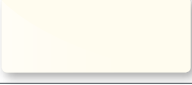
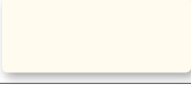
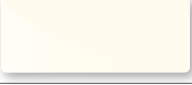
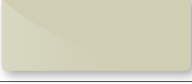
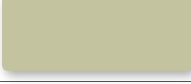
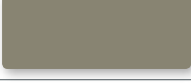
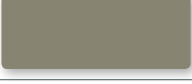











Article	Code	Description
	A 77	550124 Installation kit for Cool 3 points - white - with bleed valve and 1 plug
	A 78	550125 Installation kit for Cool 3 points - chrome - with bleed valve and 1 plug (colored)
	A 79	550126 Installation kit for Cool 3 points - white - central connection with bleed valve and 3 plugs
	A 89	550127 Installation kit for Cool 3 points - chrome - central connection with bleed valve and 3 plugs (colored)
	570135	White supports for Cool - n° 2
	570135C	Chrome supports for Cool - n° 2 (colored)
	570133	Towel rail COOL 450-500-550 - White
	570134	Towel rail COOL 600 - White
	570133C	Towel rail COOL 450-500-550 - Chrome (colored)
	570134C	Towel rail COOL 600 - Chrome (colored)

Serie TONDERA Attacco Centrale per COOL

Description	Colour Ral 9010 White	Colour Chrome
	Code	Code
50 mm angle lockshield valve and valve with thermostat option assembly, interchangeable copper and multilayer pipe connection, non-drip end. RH.	8496811	8496812
50 mm angle lockshield valve and thermostat valve assembly, interchangeable copper and multilayer pipe connection, non-drip end. RH.	8496841	8496842
Description	Code	
Reversible screw for TONDERA from RH to LH	8490471	



For other accessories see page 75

	GLOSS	MATT	TEXTURED MATT	PEARL
WHITE				
	Code: 04			Code: 4M
CORVINO				
	Code: 2L		Code: 3L	
METROPOLITAN				
			Code: 3T	
BLACK COFFEE				
			Code: 3V	
PEARL				
	Code: 2N	Code: 5N		Code: 4N
ORGANZA				
	Code: 2D	Code: 5D		
TURTLE				
		Code: 5P	Code: 3P	
COPPER				
	Code: 2C		Code: 3C	
TERRA BRUCIATA				
	Code: 2S			
SILVER				
	Code: 2F		Code: 3F	
GRAFITE				
			Code: 3R	
ARDESIA				
	Code: 2B		Code: 3B	
RUBINO				
	Code: 2A			
HELOISE				
			Code: 3H	
TURQUOISE BEACH				
	Code: 2I			

Coloured versions: 45% price increase on the price of a gloss White RAL 9010.



Low thermal inertia



Low water consumption



Versatility



Working pressure

CE₀₅

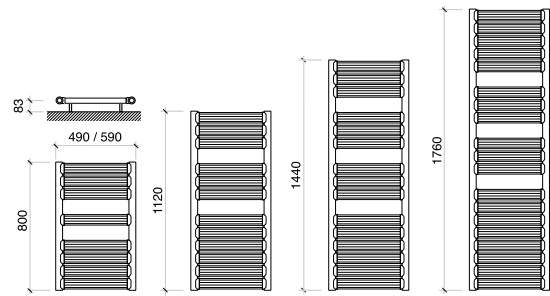


Each package contains the following fittings (included in the price):

- 1 blister pack for wall fixings (4 fixing unites)
- 1 Chromed air vent G½ - 2 reducers G1 and G½ Rh
- 1 plug G1 Lh - 1 reducer for the air vent G1 and G½" Lh
- 1 retaining rubber plug
- 4 special seals (O-RINGS) for plugs and reducers

All **CALENS R** 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.

Model	Heat output				
	$\Delta T\ 30$	$\Delta T\ 40$	$\Delta T\ 50$	$\Delta T\ 60$	$\Delta T\ 70$
	W	W	W	W	W
8/450	193,6	275,5	362,0	453,1	547,4
8/550	226,4	322,1	423,0	529,3	639,4
12/450	270,2	386,1	509,0	638,7	773,4
12/550	319,5	456,6	602,0	755,3	914,6
15/450	361,6	498,7	640,0	784,5	932,0
15/550	395,5	566,1	748,0	938,5	1137,3
19/450	416,5	597,7	791,0	994,4	1206,7
19/550	495,2	707,2	932,0	1168,7	1414,5



Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	mm	mm	mm	inches	litres/sect.	n	Km
8/450	EA84O014	40	800	450	490	G1	2,50	1,2266	2,9861
8/550	EA84V014	40	800	550	590	G1	2,80	1,2252	3,5087
12/450	EA84P014	40	1120	450	490	G1	3,60	1,2412	3,9652
12/550	EA84Z014	40	1120	550	590	G1	4,10	1,2413	4,6872
15/450	EA84Q014	40	1440	450	490	G1	4,60	1,1175	8,0822
15/550	EA840014	40	1440	550	590	G1	5,20	1,2467	5,6963
19/450	EA84R014	40	1760	450	490	G1	5,70	1,2553	5,8268
19/550	EA841014	40	1760	550	590	G1	6,60	1,2387	7,3298

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = Km \Delta T^n$.

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the CETIAT, notified body N°1623.

Article	Code		Description
	A 51	530122	Blister pack of wall fixings containing: - 4 fixing units; - adapters - seals; - valve plug INCLUDED IN THE SUPPLY
	A 31	590051	O-ring gasket for nipples, plugs and adapters
	A 52	520203	1/2" G air valve, chromed INCLUDED IN THE SUPPLY
	A 53	528010	350 W electric resistance for mixed version
	A 54	528011	500 W electric resistance for mixed version
	A 55	528012	850 W electric resistance for mixed version

For other accessories see page 75



Low thermal inertia



Low water consumption



Versatility



Working pressure

CE₀₅

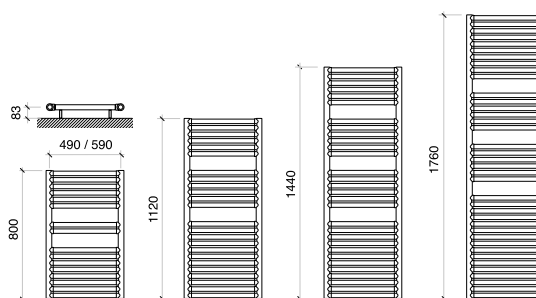


Each package contains the following fittings (included in the price):

- 1 blister pack for wall fixings (4 fixing unites)
- 1 Chromed air vent G½ - 2 reducers G1 and G½ Rh
- 1 plug G1 Lh - 1 reducer for the air vent G1 and G½" Lh
- 1 retaining rubber plug
- 4 special seals (O-RINGS) for plugs and reducers

All **DECUS R** 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.

Model	Heat output				
	$\Delta T\ 30$	$\Delta T\ 40$	$\Delta T\ 50$	$\Delta T\ 60$	$\Delta T\ 70$
	W	W	W	W	W
8/450	194,5	276,4	362,9	453,4	547,2
8/550	225,9	321,8	423,4	529,8	640,4
12/450	267,6	383,1	505,9	635,1	769,7
12/550	320,7	459,2	606,6	761,5	923,0
15/450	339,6	486,4	642,7	807,2	978,6
15/550	404,8	578,3	762,6	956,0	1157,3
19/450	421,3	602,9	796,2	999,4	1211,0
19/550	492,7	705,7	932,7	1171,3	1420,0



Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	mm	mm	mm	inches	litres/sect.	n	Km
8/450	EA84A014	40	800	450	490	G1	2,5	1,2207	3,0609
8/550	EA84H014	40	800	550	590	G1	2,9	1,2297	3,4475
12/450	EA84B014	40	1120	450	490	G1	3,8	1,2469	3,8517
12/550	EA84I014	40	1120	550	590	G1	4,2	1,2475	4,6073
15/450	EA84C014	40	1440	450	490	G1	4,6	1,2492	4,8494
15/550	EA84L014	40	1440	550	590	G1	5,3	1,2397	5,9716
19/450	EA84D014	40	1760	450	490	G1	5,8	1,2462	6,0784
19/550	EA84M014	40	1760	550	590	G1	6,7	1,2494	7,0312

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = Km \Delta T^n$.

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the CETIAT, notified body N°1623.

Article	Code		Description
	A 51	530122	Blister pack of wall fixings containing: - 4 fixing units; - adapters - seals; - valve plug INCLUDED IN THE SUPPLY
	A 31	590051	O-ring gasket for nipples, plugs and adapters
	A 52	520203	1/2"G air valve, chromed INCLUDED IN THE SUPPLY
	A 53	528010	350 W electric resistance for mixed version
	A 54	528011	500 W electric resistance for mixed version
	A 55	528012	850 W electric resistance for mixed version

For other accessories see page 75





DESIGN RADIATORS

Fondital manufactures a wide range of decorative radiators in extruded aluminium. 100% made in Italy using secondary aluminium in environmentally-friendly facilities, they ensure a lower heat inertia and energy saving. In order to meet any system requirements, Fondital decorative radiators are available in several designs, depths and centre distances and some models feature special colours and finishings.

With a vertical or horizontal development, for low or high temperature systems, Fondital range of decorative radiators is protected by a number of international patents.



Mood Aleternum®



Low thermal inertia



Low water consumption



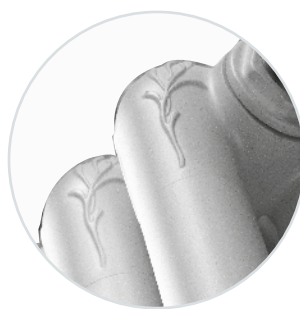
Versatility



Working pressure



Available in 24 colors



Radiator Mood: with decoration.

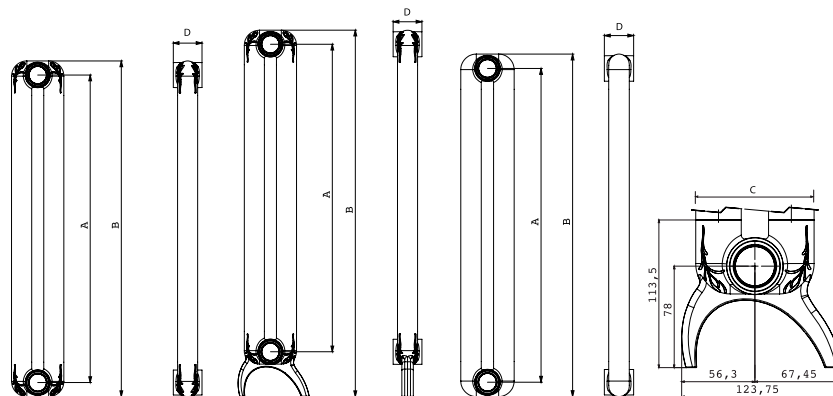
The **Mood** model with supporting feet is supplied with centre distances from 1000 to 2000 mm.

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

Anticorrosion internal treatment Aleternum® provided.

All **MOOD** models 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.

CENTRE DISTANCES:	RADIATOR TYPE:
235 - 335 - 350 - 435 500 - 535 - 600	Radiator made of 4 to 20 sections
685 - 700 - 800 - 835	Radiator made of 4 to 16 sections
900 - 935 - 1000 1135 - 1200 - 1400	Radiator made of 4 to 9 sections
1435 - 1600 - 1735 1800 - 1935 - 2000	Radiator made of 4 to 9 sections



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

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

Model	Depth	Height *	Centre distance	Length mm/elem	Connection diameters	Water content	Exponent	Coefficient
	(C) mm	(B) mm	(A) mm	(D) mm	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	0,6809
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

* The height of the MOOD radiator with supporting feet is 54 mm higher than that indicated in the table.

Maximum working pressure: 1600 kPa (16 bar)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

EXAMPLE EXTRAPOLATION CODE:

MOOD radiator 600 from 10 sections gloss White colour.

Es: EA10C0 + 04 + 10

MOOD radiator 600 from 12 sections gloss Ardesia colour.

Es: EA10C0 + 2B + 12

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

Model	MOOD	
	Code	Finishing/Colour
235	EA11A0	XX XX*
335	EA11B0	
350	EA10A0	
435	EA11C0	
500	EA10B0	
535	EA11D0	
600	EA10C0	
685	EA11E0	
700	EA10D0	
800	EA10E0	
835	EA11F0	
900	EA10F0	

Model	MOOD	
	Code	Finishing/Colour
935	EA11G0	XX XX*
1000	EA10G0	
1135	EA11H0	
1200	EA10H0	
1400	EA10I0	
1435	EA11I0	
1600	EA10L0	
1735	EA11L0	
1800	EA10M0	
1935	EA11M0	
2000	EA10N0	

Model	MOOD with support	
	Code	Finishing/Colour
1000	EA30G0	XX XX*
1135	EA31H0	
1200	EA30H0	
1400	EA30I0	
1435	EA31I0	
1600	EA30L0	
1735	EA31L0	
1800	EA30M0	
1935	EA31M0	
2000	EA30N0	


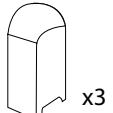
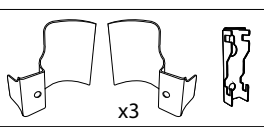
*The two final numbers change according to chosen finishing/colour.

COLOURS






All colours are available in four finishes:

- GLOSS
- MATT
- TEXTURED MATT
- PEARL



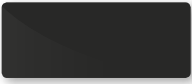
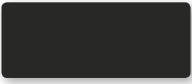


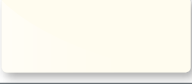
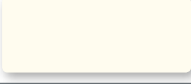
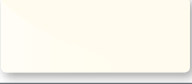
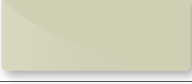
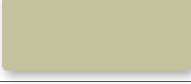
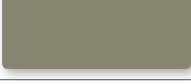
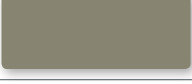











The colours shown are merely indicative and not binding, as they may slightly differ, due to the printing process.

Article	Description	Code	Colour
  	Special fixing kit with white pincers + plugs and adapters: 1 Flat 1/2 bleed valve 2 White plastic cover 1 Flat 1/2 plug 2 White 1/2 rh adapter 2 White 1/2 lh adapter 1 Bag with 3 metal sheet brackets 1 Bag with 3 white plastic covers 3 White rh pincers 3 White lh pincers 4 O-ring seals 1" 1 Rubber retaining plug	550122	Withe
		550122MP	Withe - Pearl
		550122L	Corvino textured matt
		550122LL	Corvino glossy
		550122NP	Pearl glossy
		550122NL	Pearl glossy
		550122NO	Pearl matt
		550122DL	Organza glossy
		550122DO	Organza matt
		550122PO	Turtle matt
		550122P	Turtle textured matt
		550122CL	Copper glossy
		550122C	Copper textured matt
		550122FL	Silver glossy
		550122F	Silver textured matt
		550122EL	Ardesia glossy
		550122E	Ardesia textured matt
		550122BL	Rubino glossy
		550122H	Helois textured matt
		550122IL	Turquoise beach glossy
		550122R	Grafite textured matt
		550122SL	Terra bruciato glossy
		550122V	Black coffee textured matt
		550122T	Metropolitan textured matt

Coloured versions:
45% price increase
on the price of
a gloss White
RAL 9010.

Article	Code	Description
	570125	Towel rack kit, with decoration, mm 237
	570126	Towel rack kit, with decoration, mm 337
	570127	Towel rack kit, with decoration, mm 437
	570128	Towel rack kit, with decoration, mm 537
	A 30/2 521011M	Rubber lockshield plug Mood-Tribeca (water diaphragm)
	A 32/1 530102	O-ring seal for nipples, plugs and adapters
	A74 550120	Fixing kit for horizontal installation, colour white (4 pieces package)
	A75 550121	Fixing kit for horizontal installation, colour chrome (4 pieces package)

For other accessories see page 75

	GLOSS	MATT	TEXTURED MATT	PEARL
WHITE				
	Code: 04			Code: 4M
CORVINO				
	Code: 2L		Code: 3L	
METROPOLITAN				
			Code: 3T	
BLACK COFFEE				
			Code: 3V	
PEARL				
	Code: 2N	Code: 5N		Code: 4N
ORGANZA				
	Code: 2D	Code: 5D		
TURTLE				
		Code: 5P	Code: 3P	
COPPER				
	Code: 2C		Code: 3C	
TERRA BRUCIATA				
	Code: 2S			
SILVER				
	Code: 2F		Code: 3F	
GRAFITE				
			Code: 3R	
ARDESIA				
	Code: 2B		Code: 3B	
RUBINO				
	Code: 2A			
HELOISE				
			Code: 3H	
TURQUOISE BEACH				
	Code: 2I			

Coloured versions: 45% price increase on the price of a gloss White RAL 9010.

Tribeca *Alaternum*



Low thermal inertia



Low water consumption



Versatility



Working pressure



Available in 24 colors

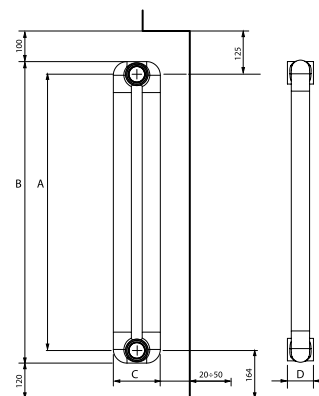


Radiator Tribeca: without decoration

Anticorrosion internal treatment *Alaternum* provided.

All **TRIBECA** models 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.

CENTRE DISTANCES:	RADIATOR TYPE:
235 - 335 - 350 - 435 500 - 535 - 600	Radiator made of 4 to 20 sections
685 - 700 - 800 - 835	Radiator made of 4 to 16 sections
900 - 935 - 1000 1135 - 1200 - 1400	Radiator made of 4 to 9 sections
1435 - 1600 - 1735 1800 - 1935 - 2000	Radiator made of 4 to 9 sections



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

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

Model	Depth	Height	Centre distance	Length mm/elem	Connection diameters	Water content	Exponent	Coefficient
	(C) mm	(B) mm	(A) mm	(D) mm	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	0,6809
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)

Characteristic equation of the model $\Phi = K_m \Delta T^n$.

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 N°1695.

EXAMPLE EXTRAPOLATION CODE:

TRIBECA radiator 600 from 10 sections gloss White colour.

Es: EA20C0 + 04 + 10

TRIBECA radiator 600 from 12 sections gloss Ardesia colour.

Es: EA20C0 + 2B + 12

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

Model	TRIBECA	
	Code	Finishing/Colour
235	EA21A0	XX XX*
335	EA21B0	
350	EA20A0	
435	EA21C0	
500	EA20B0	
535	EA21D0	
600	EA20C0	
685	EA21E0	

Model	TRIBECA	
	Code	Finishing/Colour
700	EA20D0	XX XX*
800	EA20E0	
835	EA21F0	
900	EA20F0	
935	EA21G0	
1000	EA20G0	
1135	EA21H0	
1200	EA20H0	

Model	TRIBECA	
	Code	Finishing/Colour
1400	EA20I0	XX XX*
1435	EA21I0	
1600	EA20L0	
1735	EA21L0	
1800	EA20M0	
1935	EA21M0	
2000	EA20N0	


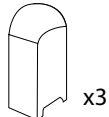
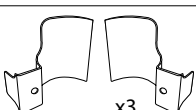

COLOURS






All colours are available in four finishes:

- GLOSS
- MATT
- TEXTURED MATT
- PEARL



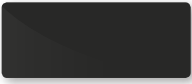
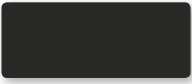


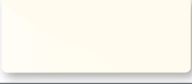
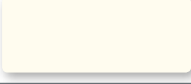
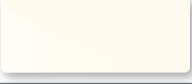
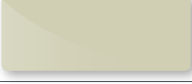
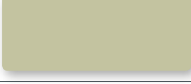
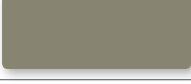
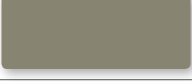











The colours shown are merely indicative and not binding, as they may slightly differ, due to the printing process.

*The two final numbers change according to chosen finishing/colour.

Article	Description	Code	Colour
   	Special fixing kit with white pincers + plugs and adapters: 1 Flat ½ bleed valve 2 White plastic cover 1 Flat ½ plug 2 White ½ rh adapter 2 White ½ lh adapter 1 Bag with 3 metal sheet brackets 1 Bag with 3 white plastic covers 3 White rh pincers 3 White lh pincers 4 O-ring seals 1" 1 Rubber retaining plug	550122	Withe
		550122MP	Withe - Pearl
		550122L	Corvino textured matt
		550122LL	Corvino glossy
		550122NP	Pearl glossy
		550122NL	Pearl glossy
		550122NO	Pearl matt
		550122DL	Organza glossy
		550122DO	Organza matt
		550122PO	Turtle matt
		550122P	Turtle textured matt
		550122CL	Copper glossy
		550122C	Copper textured matt
		550122FL	Silver glossy
		550122F	Silver textured matt
		550122EL	Ardesia glossy
		550122E	Ardesia textured matt
		550122BL	Rubino glossy
		550122H	Helois textured matt
		550122IL	Turquoise beach glossy
		550122R	Grafite textured matt
		550122SL	Terra bruciato glossy
		550122V	Black coffee textured matt
		550122T	Metropolitan textured matt

Article	Code	Description
	570125	Towel rack kit, with decoration, mm 237
	570126	Towel rack kit, with decoration, mm 337
	570127	Towel rack kit, with decoration, mm 437
	570128	Towel rack kit, with decoration, mm 537
	A 30/2 521011M	Rubber lockshield plug Mood-Tribeca (water diaphragm)
	A 32/1 530102	O-ring seal for nipples, plugs and adapters
	A74 550120	Fixing kit for horizontal installation, colour white (4 pieces package)
	A75 550121	Fixing kit for horizontal installation, colour chrome (4 pieces package)

For other accessories see page 75

	GLOSS	MATT	TEXTURED MATT	PEARL
WHITE				
	Code: 04			Code: 4M
CORVINO				
	Code: 2L		Code: 3L	
METROPOLITAN				
			Code: 3T	
BLACK COFFEE				
			Code: 3V	
PEARL				
	Code: 2N	Code: 5N		Code: 4N
ORGANZA				
	Code: 2D	Code: 5D		
TURTLE				
		Code: 5P	Code: 3P	
COPPER				
	Code: 2C		Code: 3C	
TERRA BRUCIATA				
	Code: 2S			
SILVER				
	Code: 2F		Code: 3F	
GRAFITE				
			Code: 3R	
ARDESIA				
	Code: 2B		Code: 3B	
RUBINO				
	Code: 2A			
HELOISE				
			Code: 3H	
TURQUOISE BEACH				
	Code: 2I			

Coloured versions: 45% price increase on the price of a gloss White RAL 9010.






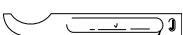


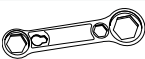






ACCESSORIES



ACCESSORIES ON REQUEST

Article		Code		Description
	A 1/1	520201	RH	1"G automatic air-purging valve. Chromed (always to be installed with the vent in upward position)
		520202	LH	
	A 4/1	525014	RH	1"G zinc-plated paint-coated plug
		525114	LH	
	A 6/1	526014	RH	Reducer 3/8 white
		526214	RH	Reducer 1/2 white
		526414	RH	Reducer 3/4 white
		526114	LH	Reducer 3/8 white
		526314	LH	Reducer 1/2 white
		526514	LH	Reducer 3/4 white
	A 8/1	525214	RH	Valve plug 1/4 white
		525414	RH	Valve plug 1/8 white
		525314	LH	Valve plug 1/4 white
		525514	LH	Valve plug 1/8 white
	A 13	540024		Touch-up spray paint (White RAL 9010) cc 400
	A 16	550020		Bracket to be embedded in the wall mm 175
	A 18	550035	DX	Bracket to be screwed on to the wall
		550036	SX	
	A 26/1	550090		Nipple wrench 1"G
	A 40/2	560257		Plastic key
	A 52	520203		1/2"G air valve, chromed (included in the supply)
		525602		1/2" plug

ALFA series valves 1/2" 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 valve, iron pipe connection	8493041	8493042	8493043
Angle valve, copper/PE/multilayer pipe connection	8493151	8493152	8493153
Straight valve, copper/PE/multilayer pipe connection	8493161	8493162	8493163
Angle lockshield valve, copper/PE/multilayer pipe connection	8493131	8493132	8493133
Straight lockshield valve, copper/PE/multilayer pipe connection	8493141	8493142	8493143



BETA series valves 1/2" 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 valve, iron pipe connection	8493541	8493542
Angle valve, copper/PE/multilayer pipe connection	8483451	8483452
Straight valve, copper/PE/multilayer pipe connection	8483461	8483462
Angle lockshield valve, copper/PE/multilayer pipe connection	8493631	8493632
Straight lockshield valve, copper/PE/multilayer pipe connection	8493641	8493642



GAMMA series valves 1/2" 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 valve, iron pipe connection	8494541	8494542
Angle valve, copper/PE/multilayer pipe connection	8484451	8484452
Straight valve, copper/PE/multilayer pipe connection	8484461	8484462
Angle lockshield valve, copper/PE/multilayer pipe connection	8494631	8494632
Straight lockshield valve, copper/PE/multilayer pipe connection	8494641	8494642



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

Description	Colour White	Colour Chrome
	Code	Code
Thermostatically-controlled angle valve, copper/multilayer pipe connection, non-drip end	8496131	8496132
Thermostatic angle valve, copper/multilayer pipe connection, non-drip end	8496331	8496332
Hand-operated angle valve, copper/multilayer pipe connection, non-drip end	8496231	8496232
Angle lockshield valve, copper/multilayer pipe connection, non-drip end	8496731	8496732
Thermostatically-controlled straight valve, copper/multilayer pipe connection, non-drip end	8496151	8496152
Thermostatic straight valve, copper/multilayer pipe connection, non-drip end	8496351	8496352
Hand-operated straight valve, copper/multilayer pipe connection, non-drip end	8496251	8496252
Straight lockshield valve copper/multilayer pipe connection, non-drip end	8496751	8496752



MINIMAL series valve 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 valve, interchangeable copper and multilayer pipe connection, non-drip end	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, non-drip end.	8493531	8493532



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

Description	Colour White	Colour RAL 1036	Colour Ghisa	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

* An adapter is required for copper multilayer pipes



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

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

OLD STYLE series valve 1/2" 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



FITTINGS FOR COPPER PIPE

ALFA, BETA and MINIMAL fittings for copper pipes

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

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



GAMMA and TONDERA fittings for copper pipes

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

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



LIBERTY fittings for copper pipes

Pipe size (Ø mm)	Colour Gold*	Colour Bronze
	Code	Code
10 x 24/19	849381310	849381510
12 x 24/19	849381312	849381512
14 x 24/19	849381314	849381514

Pipe size (Ø mm)	Colour Gold*	Colour Bronze
	Code	Code
15 x 24/19	849381315	849381515
16 x 24/19	849381316	849381516
18 x 24/19	849381318	849381518



* Combinable to valves and white holders, RAL 1036 and cast iron

OLD STYLE fittings for copper pipes

Pipe size (Ø mm)	Colour Chrome *	Colour Bronze
	Code	Code
10 x 24/19	849481210	849481510
12 x 24/19	849481212	849481512
14 x 24/19	849481214	849481514

Pipe size (Ø mm)	Colour Chrome *	Colour Bronze
	Code	Code
15 x 24/19	849481215	849481515
16 x 24/19	849481216	849481516
18 x 24/19	849481218	849481518



* Combinable to valves and chromed and white holders



FITTINGS FOR MULTILAYER PIPES

ALFA and BETA fittings for multilayer pipes

Pipe size (int. Ø - ext. Ø)	Colour Chrome	Colour Gold
	Code	Code
10 - 14	849383210	849383310
12 - 16	8493832115	8493833115



GAMMA and TONDERA fittings for multilayer pipes

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



LIBERTY fittings for multilayer pipes

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



* Combinable to valves and white holders, RAL 1036 and cast iron

MINIMAL fittings for multilayer pipes

Pipe size (int. Ø - ext. Ø)	Colour Chrome	Pipe size (int. Ø - ext. Ø)	Colour Chrome
	Code		Code
7,5/8-12 x 24/19	84938320812	11,5/12-17 x 24/19	84938321217
9,5/10-14 x 24/19	849383210	12,5/13-17 x 24/19	84938321317
9,5/10-15 x 24/19	84938321015	12,5/13-18 x 24/19	84938321318
10,5/11-15 x 24/19	84938321115	13,5/14-18 x 24/19	84938321418
10,5/11-16 x 24/19	84938321116	14,5/15-20 x 24/19	84938321520
11,5/12-16 x 24/19	8493832115	15/15,5-20 x 24/19	849383215520
		15,5/16-20 x 24/19	84938321620



OLD STYLE fittings for multilayer pipes

Pipe size (int. Ø - ext. Ø)	Colour Bronze	Colour Chrome
	Code	Code
7,5/8-12 x 24/19	84948350812	84948320812
9,5/10-14 x 24/19	84948351014	849483210
9,5/10-15 x 24/19	84948351015	84948321015
10,5/11-15 x 24/19	84948351115	84948321115
10,5/11-16 x 24/19	84948351116	84948321116
11,5/12-16 x 24/19	84948351216	8494832115
11,5/12-17 x 24/19	84948351217	84948321217
12,5/13-17 x 24/19	84948351317	84948321317
12,5/13-18 x 24/19	84948351318	84948321318
13,5/14-18 x 24/19	84948351418	84948321418
14,5/15-20 x 24/19	84948351520	84948321520
15/15,5-20 x 24/19	849483515520	849483215520
15,5/16-20 x 24/19	84948351620	84948321620



FITTINGS FOR POLYETHYLENE PIPES

ALFA and BETA fittings for polyethylene pipes

Pipe size (int. Ø - ext. Ø)	Colour Chrome	Colour Gold
	Code	Code
12-16	849382212	849382312
13-18	849382213	849382313
14-18	849382214	849382314



GAMMA fittings for polyethylene pipes

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



THERMOSTATIC HEAD

Thermostatic head for BETA, GAMMA, TONDERA and MINIMAL valves

Type	Colour White/Chrome
	Code
With liquid sensor	8480931







ELECTRIC RADIATORS

Fondital manufactures electrical radiators in wet and dry versions using high-quality components, with aluminium die-cast body featuring a high heat exchange efficiency, and high-precision electronic ambient temperature control, thereby ensuring energy savings. Available with different heat outputs, electrical radiators are equipped with on-board as well as remote controls to set and adjust required temperature. Fondital electrical radiators make use of renewable energy sources, such as photovoltaic (solar) panels and wind power, helping to achieve energy savings and reduce pollution.



eCool ED Aleternum®

ELECTRIC TOWEL RADIATOR WITH DIGITAL CONTROL



Aluminium alloy body
with low thermal inertia

LCD backlight interface

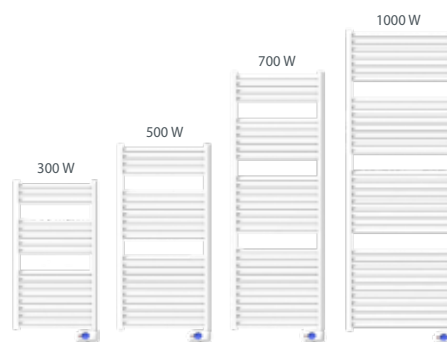
Daily and weekly programming options

Open window detection function

Child safety lock

Fixing system included

Anticorrosion internal treatment
Aleternum® provided




CLASSE II

Double isolation



Model	Code	Output	Width	Height	Depth
		W	mm	mm	mm
eCool ED 300	FCA0M1YD30	300	478	933	45
eCool ED 500	FCA0M1YD50	500	528	1143	45
eCool ED 700	FCA0M1YD70	700	528	1563	45
eCool ED 1000	FCA0M1YDA0	1000	628	1815	45

Article	Code	Description
	OZTELINF00	Infrared remote control with wall support (Batteries not included) Features: Comfort, Night, Antifreeze and Stand-by

The aluminium alloy body is guaranteed against manufacturing defects for **5 years** from date of purchase. Electric and electronic components are guaranteed **2 years** from the date of purchase of the radiator.

Maniva

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



Excellent weight/power ratio

Aluminium alloy body:

- low thermal inertia

Light and easy to install

Modern design and state-of-the-art electronics with hourly and weekly programmable time frame

Energy saving:

- open window detection function
- displayed consumption

Child safety lock



Model	Code	Output	Sections	Width	Height	Depth
		W	n°	mm	mm	mm
Maniva 3110	FMD0M1EDA7	1000	7	605	427	97
Maniva 3115	FMD0M1EDFC	1500	12	1005	427	97
Maniva 3118	FMD0M1EDID	1800	13	1085	427	97
Maniva 5807	FME0M1ED74	700	4	365	578	80
Maniva 5810	FME0M1EDA6	1000	6	525	578	80
Maniva 5812	FME0M1EDC9	1200	9	765	578	80
Maniva 5815	FME0M1EDFA	1500	10	845	578	80
Maniva 5818	FME0M1EDIC	1800	12	1120	578	80
Maniva 5820	FME0M1EDKE	2000	14	1280	578	80

The aluminium alloy body is guaranteed against manufacturing defects for **5 years** from date of purchase. Electric and electronic components are guaranteed **2 years** from the date of purchase of the radiator.

eBlitz GD

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



Aluminium alloy body:

quickly reaches the desired temperature

Unalterable over time thanks to aluminum sides

Interfaccia LCD retroilluminata incorporata

NTC temperature probe and electronic temperature regulation

In order to optimise consumption, the radiator provides:

- Daily and weekly programming with start up adapting control
- Consumption display
- Open window detection function
- Behavioural indicator

Keyboard lock

Power and surface temperature reduction



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



A detachable humidifier is conveniently fitted in the left side of the appliance.

Model	Code	Output	Sections	Width	Height	Depth
		W	n°	mm	mm	mm
eBlitz GD 5806	FBE0M1FD65	600	5	560	578	80
eBlitz GD 5810	FBE0M1FDA6	1000	6	640	578	80
eBlitz GD 5812	FBE0M1FDC9	1200	9	880	578	80
eBlitz GD 5815	FBE0M1FDFA	1500	10	960	578	80
eBlitz GD 5818	FBE0M1FDIC	1800	12	1120	578	80

The aluminium alloy body is guaranteed against manufacturing defects for **5 years** from date of purchase. Electric and electronic components are guaranteed **2 years** from the date of purchase of the radiator.

Al-advance

NATURAL STONE DRY RADIATOR

ELECTRIC RADIATORS



Aluminium alloy body with low thermal inertia

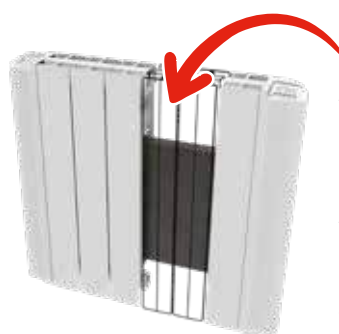
Built-in humidifier

Window opening function

LCD backlight interface

NTC temperature probe and electronic temperature regulation

Daily and weekly programming options



Soapstone is a natural stone traditionally known for its heat storage capability, which makes it ideal for electric radiator manufacture. Thanks to its properties, its use is especially recommended in countries with particularly cold winter temperatures.



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



A detachable humidifier is conveniently fitted in the left side of the appliance.



Pilot wire, no plug

Model	Code	Output	Sections	Width	Height	Depth
		W	n°	mm	mm	mm
Al-advance GDSM08	FAE0M3FD85	800	5	560	578	97
Al-advance GDSM10	FAE0M3FDA6	1000	6	640	578	97
Al-advance GDSM15	FAE0M3FD9F	1500	9	880	578	97
Al-advance GDSM20	FAE0M3FDKB	2000	11	1040	578	97

The aluminium alloy body is guaranteed against manufacturing defects for **5 years** from date of purchase. Electric and electronic components are guaranteed **2 years** from the date of purchase of the radiator.

OUR COMPANY'S GROWTH IS DRIVEN FROM A SPECIAL ENERGY: NEW IDEAS



A ONE-OF-A-KIND RESEARCH & DEVELOPMENT LABORATORY. PATENTS, PROJECTS AND PARTNERSHIPS WITH MAJOR UNIVERSITIES WORLDWIDE ARE THE SIGNATURE STRENGTHS OF THE FONDITAL R&D DEPARTMENT.

Seven test ramps and a wide range of tests, simulations and prototypes guarantee the quality and reliability of the production processes.

The test laboratory for testing finished products and components is the fruit of a partnership with one of Europe's most reputed technological universities, and is capable of ensuring maximum system reliability. Working in synergy with the Milan Polytechnic's Department of Energy Engineering, FONDITAL has been expanding its R&D efforts since 2009 by introducing new equipment and broadening the company's know-how, all with the goal of increasing system performance, enhancing product reliability, improving safety beyond the market standards, and developing increasingly eco-compatible processes.

In keeping with FONDITAL's goal to emerge as a qualified global supplier in the energy industry, the laboratory has been designed to test heat generation and distribution systems, as well as terminal units of the latest-generation.

The four areas of activity: the heat generation sector includes seven ramps and a test cell for low temperature testing; the test for the terminal heating

units, on the other hand, comprises a thermostatic chamber and experimental equipment for performing hydraulic tests; the design and simulation area features a high-performance computing station for creating designs and executing simulations in the field of fluid dynamics; and finally there's the prototype workshop, which is comprised of a fully-equipped. The sector's future development also foresees the enhancement of the thermo-fluid dynamic simulation unit, and the expansion of the tests to be carried out upon generators using renewable energy sources, thus sustaining the planning, execution and control activities for the processes that govern the company's production and services. The test laboratory, which currently spearheads the FONDITAL R&D department, reaffirms the company's operational line, which has always been dedicated to ensuring the highest standards in terms of quality and technological innovation. Considering the current environmental protection requirements and fuel costs on a global scale, the company has deemed



it necessary to develop its heating systems in greater depth.

The thermostatic test chamber, which represents the world's only testing installation, allows the various terminal units to be classified based on a comparison of the energy supplied to the environment and the relative thermal comfort levels. In addition to ensuring accurate measurements compliant with EU standard 442, the system also provides for the assessments required in order to determine more realistic indices for the various terminal heating units. This research project, which has given rise to countless exclusive patents, is aimed at improving the performance of the previous series of radiators, thus allowing for the development of products that reduce the use of raw materials and boost the potential of the heating terminals, all while providing equal yield and mechanical performance.

ALETERNUM IS AN EXAMPLE OF AN EXCLUSIVE FONDITAL PATENT

This treatment is designed to prevent the onset of corrosion by protecting the radiator's water chamber. The Aleternum radiator is ideal for renovation projects, as it is capable of satisfying every requirement in terms of quality, heat output and efficiency. Highly efficient and guaranteed for 20 years, it resists any type of water and can be used in any type of system. Furthermore, in addition to requiring no maintenance whatsoever, it even has a better €/watt ratio with respect to radiant panel systems.

Aleternum®: anti-corrosion treatment for radiators

> Introduction



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 – generalised attack		
	Uniform Corrosion – uniform attack		
	Localised Corrosion		
	Pitting	craters	
		pin holes	
		cavities	
	Stress corrosion cracking (SCC)	Simple cracks	
		Ramified cracks	
	Corrosion - erosion		

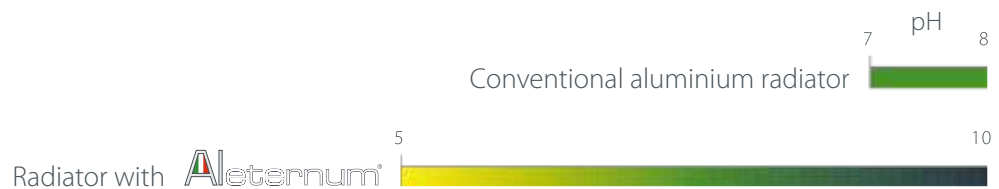
➤ The complete anti-corrosion treatment*

➤ 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

RADIATOR SIZING AND INSTALLATION

RADIATOR SIZING

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.

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: $\Phi = K_m \times \Delta T^n$

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.

$\Delta T = (\text{inlet water temperature} + \text{outlet water temperature}) / 2 - \text{ambient temperature} = (60 + 44) / 2 - 20 = 32 \text{ K}$.

$\Phi (32K) = K_m \times \Delta T^n = 0,7991 \times (32)^{1,2890} = 69,62 \text{ W}$

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÷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 max operating pressure is 6 bar (600 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 and must not have any properties that can corrode metal in general;
- As regards treating water in domestic heating systems, it is advisable to use specific products that are suitable for multimetal plants, in order to optimize performance and safety, preserve these conditions over time, ensure regular operation of auxiliary equipment as well, and minimize energy consumption, in compliance with the applicable laws and standards. Compliance with this standard is a legal requirement. Use specific products suitable for multi-metal systems such as, for example, CILLIT HS 23 Combi, SENTINEL X 100 or FERNOX F1.

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.

LOCATION:

TEMPINI 1921

Borgo P. Wührer, 127 – 25123 Brescia
www.tempini1921.it

CUCINE LUBE

Via Giuseppe Giacosa 2, angolo
Viale Santa Eufemia - 25135 Brescia
www.cucinelube.it

TUTTO GALVAN

Via Del Lupo, 9 - 37050 Oppeano, VR
www.tuttogalvan.it

The manufacturer reserves the right to implement modifications without notice.

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COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

MADE IN ITALY

