



## **RADIATORS CATALOGUE** 2024

**EN**









Nova Florida is a Fondital brand, Fondital is the first manufacturer of die-cast aluminium radiators worldwide as well as the international leader in heating systems. This is the result of the focus on sustainable innovation in R&D, production renewal related to study of the products, the constant development and training of human resources and the attention to well-being of its employees.

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







## VISION

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



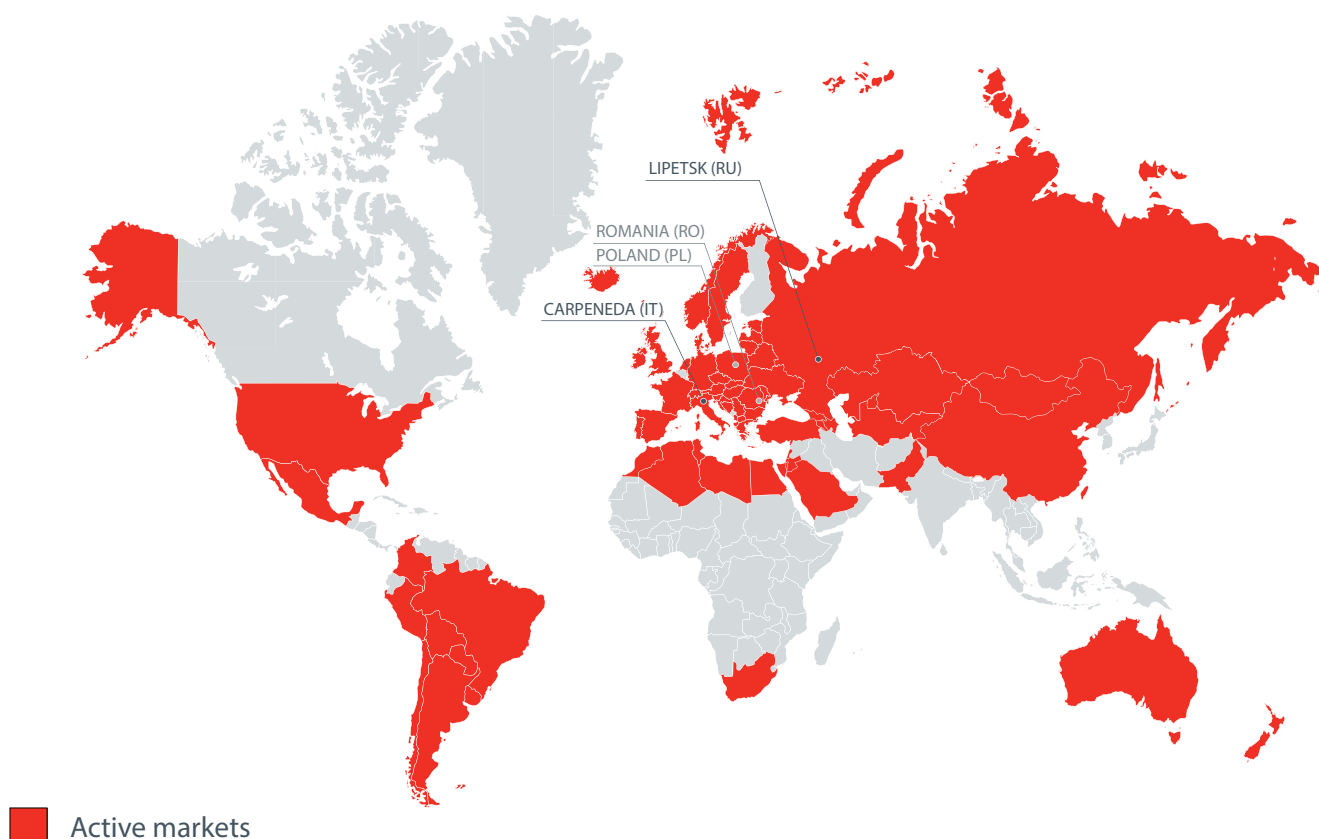
## MISSION

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

## FONDITAL WORLDWIDE

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

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



Active markets

# PRODUCT RANGE

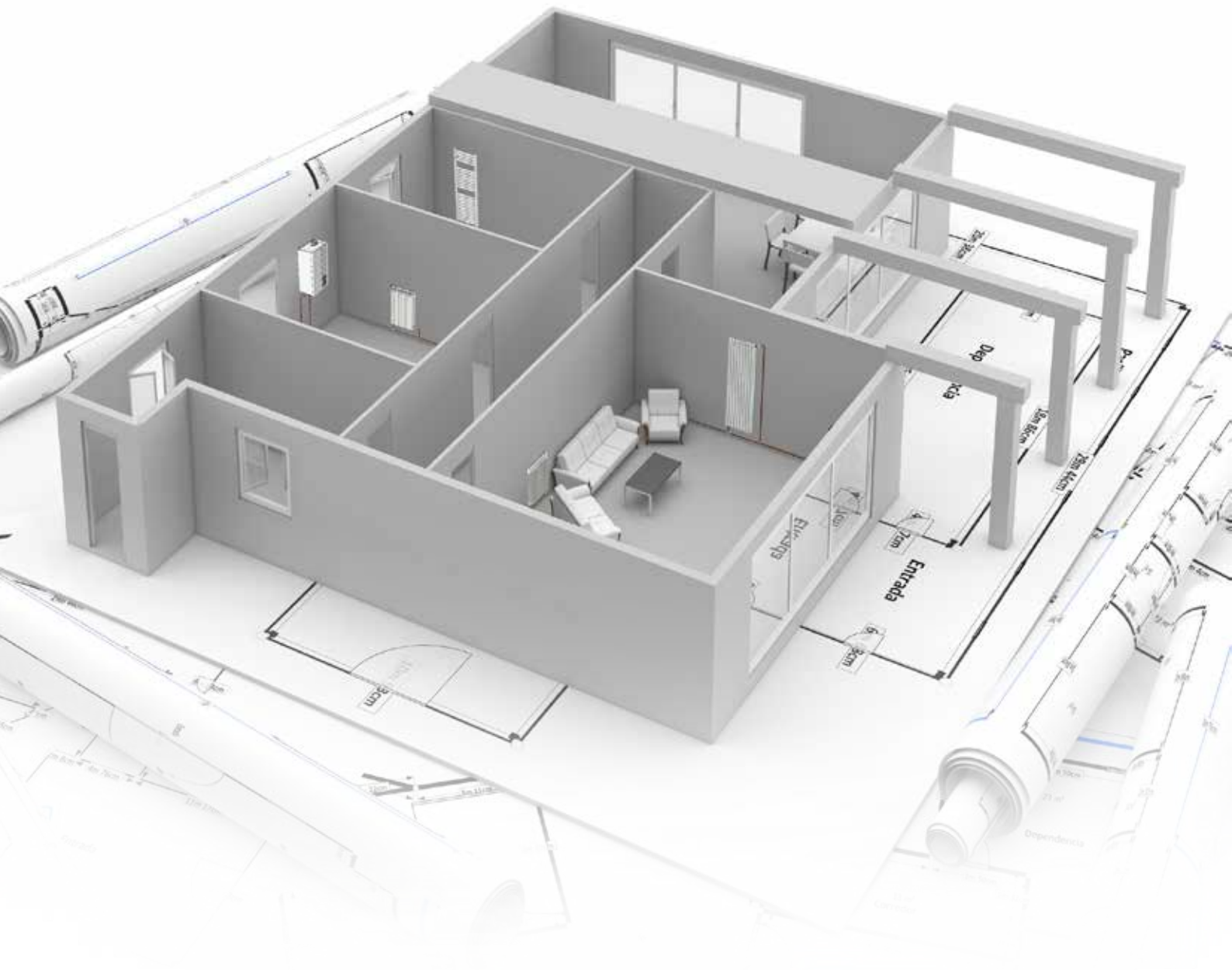




# FONDITAL AND BIM: INNOVATION IN PROJECT DESIGN

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

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



**bimobject**®

Download the Fondital products from [www.bimobject.com/en/fondital](http://www.bimobject.com/en/fondital)



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## SYMBOLS



### LOW THERMAL INERTIA

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



### LOW WATER CONSUMPTION

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



### VERSATILITY

The technical properties of aluminum, make Fondital radiators perfectly compatible with all 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.



### CORROSION RESISTANCE

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



### **100% RECYCLABLE ECO-FRIENDLY PRODUCT**

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



### **DOUBLE PAINTING: ANAPHORESIS + EPOXY POWDERS**

The signature look of Fondital's radiators is made possible by a double painting process that ensures the brightness and integrity of the radiator through time. In detail, applying the first coating of anaphoretic painting ensures a better grip throughout the surface of the radiator, making its quality and color unalterable. The second epoxy powder coating gives the standard white RAL 9010 color, making every single section the same shade and brightness, ensuring a perfect match even when 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 ecofriendly, and the anti-corrosion internal treatment Aleternum, that ensures a perfect functioning in a wider water pH range, compared with the one of untreated aluminum or steel.



### **BOTTOM CONNECTION**

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







# DIE-CAST RADIATORS

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Low thermal inertia



Low water content



Versatility



Maximum working pressure




4 international patents



ALETERNUM TREATMENT

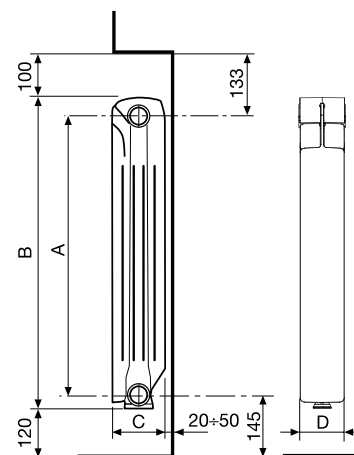


<b>Standard supply</b>	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections
<b>Colours</b>	PURE WHITE RAL 9010
<b>Maximum working pressure</b>	16 bar
<b>Test pressure</b>	24 bar
<b>Aleternum treatment</b>	Supplied as standard
<b>Product supplied under the brand name  <b>fondital</b></b>	

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

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

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









MEASURES EXPRESSED IN MILLIMETRES

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

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

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.

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

For other accessories, see from page 55



**Low thermal inertia**



**Low water content**



**Versatility**



**Easy to stock and install**



**Maximum working pressure**



**3 international patents**

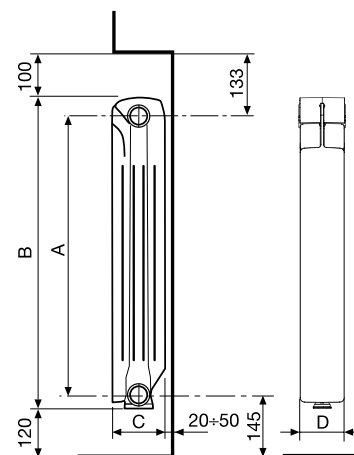


<b>Standard supply</b>	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections <b>"Nova Florida logo"</b> from 6 sections
<b>Colours</b>	PURE WHITE RAL 9010
<b>Maximum working pressure</b>	16 bar
<b>Test pressure</b>	24 bar

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



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









MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
<b>350/100</b>	V685014	97	407	350	80	G1	0,20	1,2598	0,6506
<b>500/100</b>	V685034	97	558	500	80	G1	0,26	1,2890	0,7991
<b>600/100</b>	V685044	97	658	600	80	G1	0,31	1,2981	0,8950
<b>700/100</b>	V685054	97	758	700	80	G1	0,36	1,2998	0,9986
<b>800/100</b>	V685064	97	858	800	80	G1	0,39	1,3085	1,0635

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

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

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

For other accessories, see from page 55



CLASSIC: SILVER



SPECIAL: HAMMERED BLACK



Low thermal inertia



Low water content



Versatility



Easy to stock and install




Maximum working pressure



Available in 9 colours



<b>Standard supply</b>	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections
<b>Colours</b>	see colours table
<b>Maximum working pressure</b>	16 bar
<b>Test pressure</b>	24 bar
<b>Product supplied under the brand name  <b>fondital</b></b>	



Combinable with the models  
**Ledro S/90 coloured**, see p. 34

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

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

Technical drawing of a 100mm x 120mm x 145mm aluminum extrusion profile. The drawing shows a side view with dimensions 100, 120, 145, and 133. It also shows a cross-section view with dimensions A, B, C, and D. The profile has a central slot and a flange on one side.



SPECIAL	
HAMMERED BLACK	PURE METAL
	
Cod. 17	Cod. 18





Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 international patents

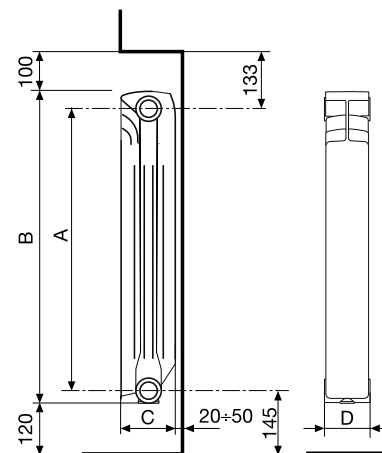


<b>Standard supply</b>	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections "Nova Florida logo" from 6 sections
<b>Colours</b>	PURE WHITE RAL 9010
<b>Maximum working pressure</b>	16 bar
<b>Test pressure</b>	24 bar

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



Model	Heat output					
	$\Delta T$ 20	$\Delta T$ 30	$\Delta T$ 40	$\Delta T$ 50	$\Delta T$ 60	$\Delta T$ 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
<b>350/100</b>	28,0	47,3	68,6	91,5	115,8	141,3
<b>500/100</b>	38,1	64,4	93,4	124,6	157,6	192,3
<b>600/100</b>	44,0	74,3	107,7	143,6	181,7	221,7
<b>700/100</b>	48,8	82,9	120,8	161,7	205,1	250,9
<b>800/100</b>	54,2	91,9	133,6	178,7	226,5	276,9









MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
<b>350/100</b>	V689014	97	407	350	80	G1	0,21	1,2910	0,5865
<b>500/100</b>	V689034	97	557	500	80	G1	0,26	1,2917	0,7957
<b>600/100</b>	V689044	97	657	600	80	G1	0,3	1,2902	0,9230
<b>700/100</b>	V689054	97	757	700	80	G1	0,36	1,3064	0,9752
<b>800/100</b>	V689064	97	857	800	80	G1	0,39	1,3022	1,0956

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

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

For other accessories, see from page 55



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 international patents

CE<sub>15</sub>  
Mod.  
350/700/800

CE<sub>18</sub>  
Mod. 500

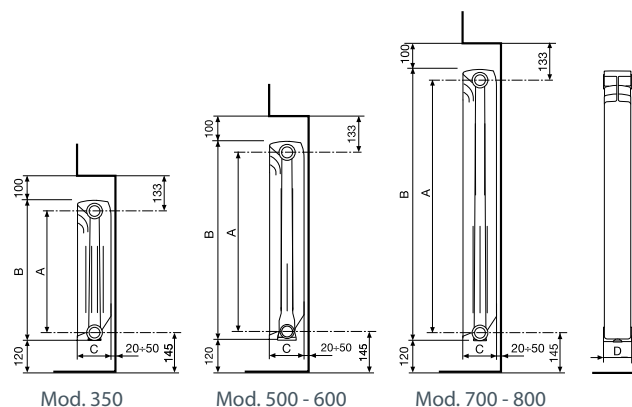
CE<sub>19</sub>  
Mod. 600



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

All models **Desideryo** 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					
	$\Delta T$ 20	$\Delta T$ 30	$\Delta T$ 40	$\Delta T$ 50	$\Delta T$ 60	$\Delta T$ 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
<b>350/100</b>	28,0	47,3	68,6	91,5	115,8	141,3
<b>500/100</b>	35,4	59,5	86,0	114,5	144,6	176,2
<b>600/100</b>	40,7	68,9	100,0	133,5	169,1	206,4
<b>700/100</b>	45,6	77,1	112,0	149,5	189,4	231,3
<b>800/100</b>	50,1	85,2	124,0	166,0	210,7	257,7









MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
<b>350/100</b>	V682014	97	407	350	80	G1	0,21	1,2910	0,5865
<b>500/100</b>	V711034	97	556	500	80	G1	0,26	1,2823	0,7588
<b>600/100</b>	V711044	97	657	600	80	G1	0,29	1,2953	0,8410
<b>700/100</b>	V664054	97	757	700	80	G1	0,39	1,2970	0,9358
<b>800/100</b>	V664064	97	857	800	80	G1	0,43	1,3070	0,9992

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

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

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.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 55

# RADIATOR WITH BOTTOM CONNECTION



**Low thermal inertia**



**Low water content**



**Bottom connection**



**Easy to stock and install**



**Maximum working pressure**



**Exclusive patent**



**Radiator with bottom connection is made of:**

- standard composition **(A)**
- single section with right **(B)** or left **(C)** bottom connection
- valve **(D)**


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

For the codes, see the following page.




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


**KIT COMPOSITION:**




**B**




RH KIT




**C**




LH KIT



520215M



520216P



520205DS

**RADIATOR WITH A RIGHT BOTTOM CONNECTION**




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

---

**RADIATOR WITH A LEFT BOTTOM CONNECTION**

ELEMENT:  
RADIATOR MODEL WITH ACCESSORY KIT LEFT BOTTOM CONNECTION INCLUDED (**C**)  
VALVE KIT (**D**) (TO BE ORDERED SEPARATELY)

**UPPER VALVE**

### CODE OBTAINING EXAMPLE

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

1 radiator Seven Super B4 600/100 with **9** sections: **V68504409** (see page 15)

1 section with right bottom connection: **V685044DX** (see the following tables)

1 bottom connection valve kit with bypass: **520205DS** (see the table at the end of the page)

Model Seven Super B4	Code
350/100 DX	V686014DX
350/100 SX	V686014SX
500/100 DX	V685034DX
500/100 SX	V685034SX
600/100 DX	V685044DX
600/100 SX	V685044SX
700/100 DX	V685054DX
700/100 SX	V685054SX
800/100 DX	V685064DX
800/100 SX	V685064SX

For the heat output values see corresponding model on page 15

Model Extrathermserir Super B4	Code
350/100 DX	V680014DX
350/100 SX	V680014SX
500/100 DX	V689034DX
500/100 SX	V689034SX
600/100 DX	V689044DX
600/100 SX	V689044SX
700/100 DX	V689054DX
700/100 SX	V689054SX
800/100 DX	V689064DX
800/100 SX	V689064SX




For the heat output values see corresponding model on page 19

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

For the heat output values see corresponding model on page 21

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

For the heat output values see corresponding model on page 23

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





**Low thermal inertia**



**Low water content**



**Versatility**



**Easy to stock and install**



**Maximum working pressure**



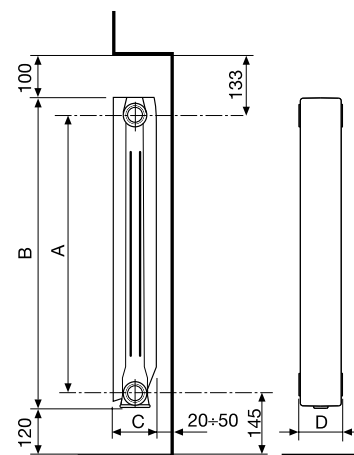
**3 international patents**



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

All models **Simun80 B2** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	$\Delta T$ 20	$\Delta T$ 30	$\Delta T$ 40	$\Delta T$ 50	$\Delta T$ 60	$\Delta T$ 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
<b>500/80</b>	30,5	51,3	74,2	98,8	124,8	152,2
<b>600/80</b>	34,7	58,6	85,1	113,5	143,7	175,5
<b>700/80</b>	39,7	67,2	97,6	130,4	165,3	201,9
<b>800/80</b>	44,0	74,5	108,2	144,7	183,3	224,0









MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
<b>500/80</b>	V616134	77	557	500	80	G1	0,25	1,2833	0,6524
<b>600/80</b>	V616144	77	657	600	80	G1	0,28	1,2935	0,7203
<b>700/80</b>	V616154	77	757	700	80	G1	0,39	1,2993	0,8088
<b>800/80</b>	V616164	77	857	800	80	G1	0,44	1,2995	0,8966

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

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.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 55



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 international patents



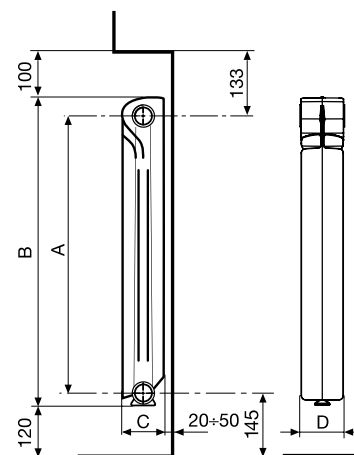
Mod. 600/700/800



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

All models **Extratherm80 B2** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	$\Delta T$ 20	$\Delta T$ 30	$\Delta T$ 40	$\Delta T$ 50	$\Delta T$ 60	$\Delta T$ 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
<b>600/80</b>	35,7	59,8	86,4	114,9	145,1	176,6
<b>800/80</b>	44,6	75,6	109,9	147,1	186,5	228,0









MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
<b>600/80</b>	V623144	77	658	600	80	G1	0,28	1,2774	0,7765
<b>800/80</b>	V623164	77	858	800	80	G1	0,42	1,3031	0,8984

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

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.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 55



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Maximum working pressure



3 international patents

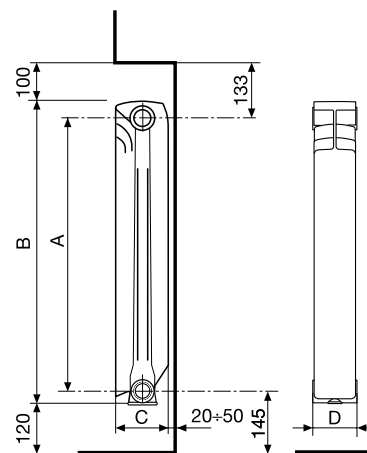


<b>Standard supply</b>	600/500: from 3 to 14 sections "Nova Florida logo" from 6 sections
<b>Colours</b>	PURE WHITE RAL 9010
<b>Maximum working pressure</b>	16 bar
<b>Test pressure</b>	24 bar

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



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









MEASURES EXPRESSED IN MILLIMETRES

Model	Code	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	V640030	97	556	500	80	G1	0,26	1,2835	0,7240
600/100	V640040	97	656	600	80	G1	0,29	1,2851	0,8361

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

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.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 55

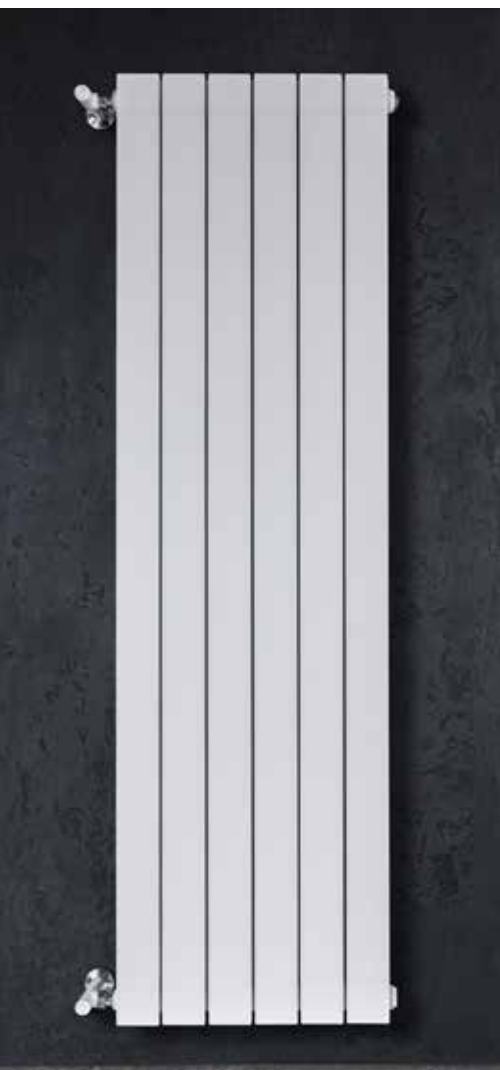




# EXTRUDED RADIATORS

Ledro S/90 - Coloured	page 32
Ledro Dual 80	page 34
Maior S/90 Aleternum	page 36





CLASSIC: NEUTRAL WHITE



CLASSIC: GRAPHITE



CLASSIC: BLACK COFFEE



Low thermal inertia



Low water content



Versatility



Easy to stock and install



16 bar Maximum working pressure



Available in 8 colours



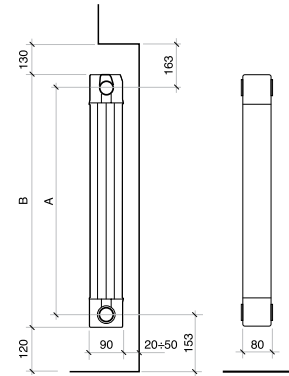
Standard supply	3, 4, 5, 6 sections
Colours	see colours table
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)

Combinable with the models  
**Blitz Super B4 coloured**, see p. 16

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

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

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



MEASURES EXPRESSED IN MILLIMETRES

Model with CLASSIC color	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
<b>900</b>	81ALExx4	90	966	900	80	G1	0,43	1,3605	0,8886
<b>1000</b>	81BLExx4	90	1066	1000	80	G1	0,47	1,3630	0,9426
<b>1200</b>	81CLExx4	90	1266	1200	80	G1	0,55	1,3610	1,0864
<b>1400</b>	81DLExx4	90	1466	1400	80	G1	0,62	1,3600	1,2227
<b>1600</b>	81ELExx4	90	1666	1600	80	G1	0,70	1,3843	1,2260
<b>1800</b>	81FLExx4	90	1866	1800	80	G1	0,78	1,3570	1,4846
<b>2000</b>	81GLExx4	90	2066	2000	80	G1	0,86	1,3905	1,4083








Model for colour SPECIAL	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
<b>900</b>	81ALExx4	90	966	900	80	G1	0,43	1,3605	0,8886
<b>1000</b>	81BLExx4	90	1066	1000	80	G1	0,47	1,3630	0,9426
<b>1200</b>	81CLExx4	90	1266	1200	80	G1	0,55	1,3610	1,0864
<b>1400</b>	81DLExx4	90	1466	1400	80	G1	0,62	1,3600	1,2227
<b>1600</b>	81ELExx4	90	1666	1600	80	G1	0,70	1,3843	1,2260
<b>1800</b>	81FLExx4	90	1866	1800	80	G1	0,78	1,3570	1,4846
<b>2000</b>	81GLExx4	90	2066	2000	80	G1	0,86	1,3905	1,4083





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

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

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

For example, to request the **Ledro S/90 (81ALExx4) model 900 Silver colour of 4 el.**, the code would be **81ALE + 07 + 404**

CLASSIC						SPECIAL
NEUTRAL WHITE	SILVER	GRAPHITE	SLATE GREY	BLACK COFFEE	BRONZE	HAMMERED BLACK
						
Cod. 06	Cod. 07	Cod. 3R	Cod. 04	Cod. 05	Cod. 08	Cod. 17

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

For other accessories, see from page 55





**Low thermal inertia**



**Low water content**



**Versatility**



**Easy to stock and install**



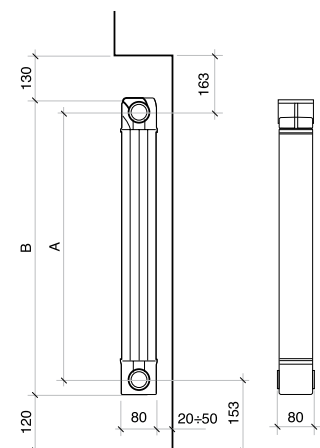
**Maximum working pressure**



<b>Standard supply</b>	3, 4, 5, 6 sections
<b>Colours</b>	PURE WHITE RAL 9010
<b>Maximum working pressure</b>	16 bar
<b>Test pressure</b>	24 bar
<b>Included in the package</b>	Water diaphragm (retainer cap)
<b>Aleternum treatment</b>	Available on request (a surcharge on the price will be applied)

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

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



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
<b>900</b>	86F014	80	966	900	80	G1	0,47	1,3695	0,8217
<b>1000</b>	86G014	80	1066	1000	80	G1	0,52	1,3908	0,8198
<b>1200</b>	86H014	80	1266	1200	80	G1	0,60	1,3889	0,9391
<b>1400</b>	86I014	80	1466	1400	80	G1	0,70	1,3875	1,0585
<b>1600</b>	86L014	80	1666	1600	80	G1	0,79	1,3980	1,1213
<b>1800</b>	86M014	80	1866	1800	80	G1	0,88	1,3832	1,2864
<b>2000</b>	86N014	80	2066	2000	80	G1	0,96	1,3902	1,3473

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

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

Item		Description	Code
	A 72	1/2" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve 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	550118
	A 73	3/4" Plug/Adapters/Brackets 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	550119
	A 30/1	Rubber lockshield plug (water diaphragm)	521011
	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 55



**Low thermal inertia**



**Low water content**



**Versatility**



**Easy to stock and install**



**Maximum working pressure**



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

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

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

Technical drawing of the 1000 Series door handle. The drawing includes two views: a front view (left) and a side view (right). Dimensions are provided in millimeters (mm).

**Front View Dimensions:**

- Overall height: 130 mm
- Height of the upper section: 163 mm
- Height of the lower section: 120 mm
- Width of the handle body: 90 mm
- Width of the mounting plate: 20+50 mm
- Overall width: 153 mm
- Dimension A: Indicated by a vertical line with arrows, representing the distance from the top of the handle to the center of the mounting plate.
- Dimension B: Indicated by a vertical line with arrows, representing the distance from the top of the handle to the center of the mounting plate.

**Side View Dimensions:**

- Width of the handle body: 80 mm









# Cool Aleternum®



STYLE: DUSTY ROSE



SPECIAL: HAMMERED BLACK



Low thermal inertia



Low water content



Versatility



Available in 18 colors




Double painting: anaphoresis + epoxy powders

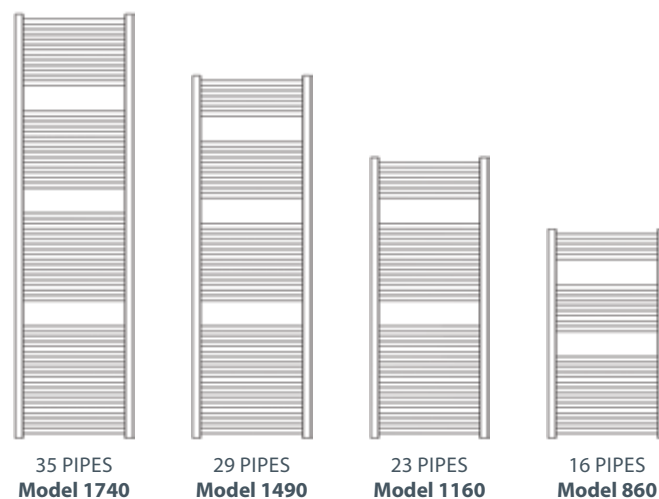
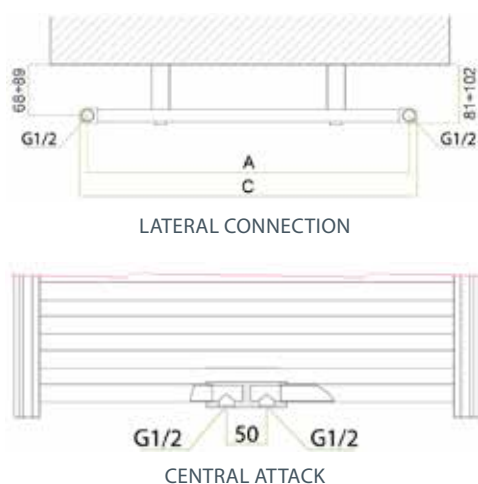


Corrosion resistance



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

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



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

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

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

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

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

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.

## CODE OBTAINING EXAMPLE

Cool radiator 860/400, PURE WHITE RAL 9010 colour

Ex: **EA42E0 04**

Cool radiator 1160/500, GRAPHITE colour







Ex: **EA52G0 3R**

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





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

## COLOURS

See table on the following page

Item	Description		Code
	A 77	Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: White (supplied as standard with Pure White RAL 9010 radiators colour code 04)	550124
	A 79	Installation kit for Cool 3 points central connection with bleed valve and 3 plugs - Colour: White (supplied as standard with Pure White RAL 9010 radiators colour code 04)	550126
	A 78	Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Chrome (supplied as standard with the coloured radiators, excluding Pure White RAL 9010 colour code 04)	550125
	A 89	Installation kit for Cool 3 points central connection with bleed valve and 3 plugs - Colour: Chrome (supplied as standard with the coloured radiators, excluding Pure White RAL 9010 colour code 04)	550127
	-	White supports for Cool - n° 2	570135
	-	Chrome supports for Cool - n° 2	570135C
	-	Towel rail Cool 450/500/550 - Colour: White	570133
	-	Towel rail COOL 600 - Colour: White	570134
	-	Towel rail Cool 450/500/550 - Colour: Chrome	570133C
	-	Towel rail COOL 600 - Colour: Chrome	570134C

## TONDERA series for central connection

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

For other accessories, see from page 55

Valves viewed from the back (wall side).

## CLASSIC



**PURE WHITE RAL 9010**  
Cod.04



**NEUTRAL WHITE**  
Cod.06



**SILVER**  
Cod.07



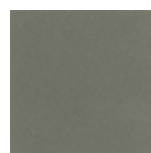
**GRAPHITE**  
Cod.3R



**SLATE GREY**  
Cod.3B



**BLACK COFFEE**  
Cod.3V



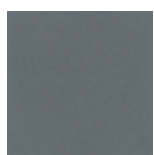
**BRONZE**  
Cod.08

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

## STYLE



**LIGHT SHELL**  
Cod.09



**LIGHT GREY**  
Cod.10



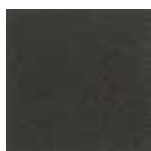
**MIDNIGHT GREEN**  
Cod.12



**MIDNIGHT BLUE**  
Cod.11



**BLACK RAVEN**  
Cod.3L



**CHOCOLATE**  
Cod.13



**CINNAMON**  
Cod.14



**FOREST GREEN**  
Cod.16

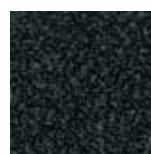


**DUSTY ROSE**  
Cod.15

## SPECIAL



**THE FONDITAL RED**  
Cod.2A



**HAMMERED BLACK**  
Cod.17

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

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







# DESIGN RADIATORS

Mood	page 46
Tribeca	page 50



# Mood Aleternum®



STYLE: MIDNIGHT BLUE



STYLE: LIGHT SHELL



Low thermal inertia



Low water content



Versatility



Maximum working pressure



Available in 17 colours

CE<sub>14</sub>




## Radiator Mood: with decoration

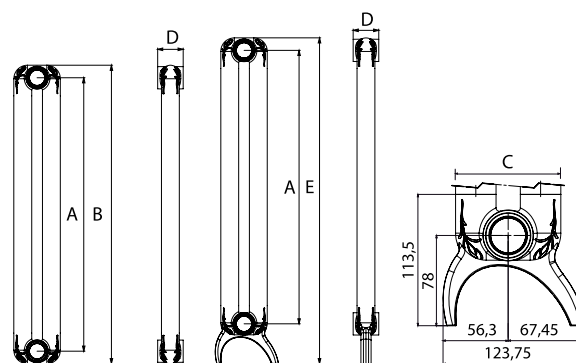
The Mood model with supporting feet is supplied with centre distances from 1000 to 2000 mm. The supporting feet for this model only have an aesthetic function. The radiator must be secured to the wall with brackets.



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

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

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



MEASURES EXPRESSED IN MILLIMETRES

With supporting foot E = B + 54 mm

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

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

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

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

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

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

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.

## CODE OBTAINING EXAMPLE

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

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

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


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







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

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

## COLOURS

See table on the following page

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

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

For other accessories, see from page 55



## CLASSIC



**PURE WHITE RAL 9010**  
Cod.04



**NEUTRAL WHITE**  
Cod.06



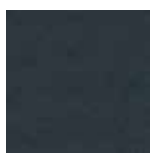
**SILVER**  
Cod.07



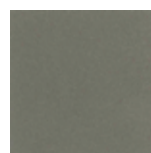
**GRAPHITE**  
Cod.3R



**SLATE GREY**  
Cod.3B



**BLACK COFFEE**  
Cod.3V



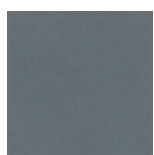
**BRONZE**  
Cod.08

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

## STYLE



**LIGHT SHELL**  
Cod.09



**LIGHT GREY**  
Cod.10



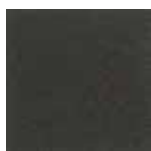
**MIDNIGHT GREEN**  
Cod.12



**MIDNIGHT BLUE**  
Cod.11



**BLACK RAVEN**  
Cod.3L



**CHOCOLATE**  
Cod.13



**CINNAMON**  
Cod.14



**FOREST GREEN**  
Cod.16



**DUSTY ROSE**  
Cod.15

## SPECIAL



**THE FONDITAL RED**  
Cod.2A

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

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

# Tribeca Aleternum®



STYLE: FOREST GREEN



SPECIAL: HAMMERED BLACK



Low thermal inertia



Low water content



Versatility



Maximum working pressure



Available in 18 colors




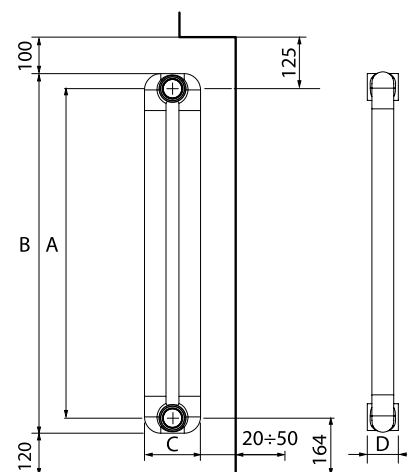
Tribeca radiator: without decoration.



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

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

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



MEASURES EXPRESSED IN MILLIMETRES

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

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

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

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

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.

## CODE OBTAINING EXAMPLE

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

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

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


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





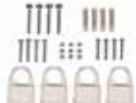

Model	Code
<b>700</b>	EA20D0 xx xx
<b>800</b>	EA20E0 xx xx
<b>835</b>	EA21F0 xx xx
<b>900</b>	EA20F0 xx xx
<b>935</b>	EA21G0 xx xx
<b>1000</b>	EA20G0 xx xx
<b>1135</b>	EA21H0 xx xx
<b>1200</b>	EA20H0 xx xx

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

## COLOURS

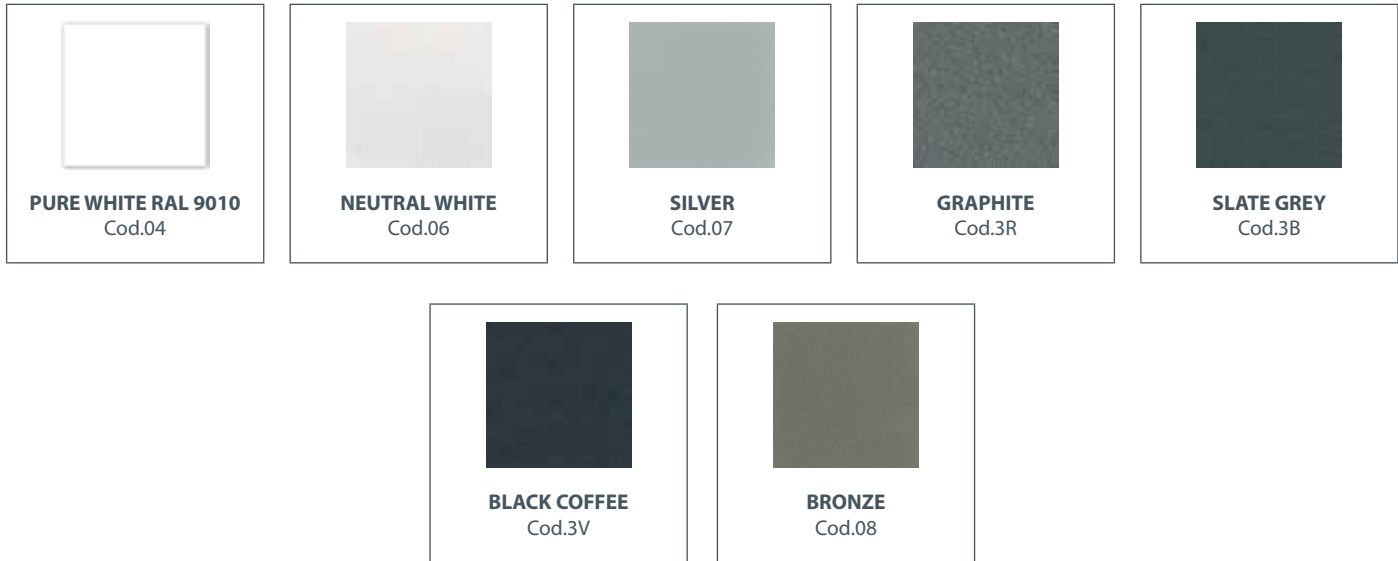
See table on the following page

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

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

For other accessories, see from page 55

## CLASSIC

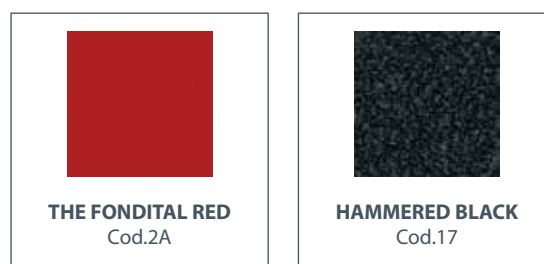


Coloured versions: price increase 35% of a PURE WHITE RAL 9010 for CLASSIC colours

## STYLE



## SPECIAL



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

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






















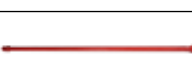






# RADIATOR ACCESSORIES

Accessories on request	page 56
Fittings for copper pipes	page 60
Fittings for multilayer pipes	page 61
Fittings for polyethylene pipes	page 63
Thermostatic head	page 63



# ACCESSORIES ON REQUEST

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

Accessories for all radiators except Cool model.

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

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

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



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

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

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



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

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



**MINIMAL** series valves ½" connection (Valves supplied without fitting)

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



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



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

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

\* An adapter is required for copper multilayer pipes

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

\* 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



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

# FITTINGS FOR COPPER PIPES

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

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

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



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

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

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



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

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

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



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

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

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

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



\* Can be used with valves and lockshield valves in chrome and white

# FITTINGS FOR MULTILAYER PIPES

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

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



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

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



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

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



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

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

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

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



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

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

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



# FITTINGS FOR POLYETHYLENE PIPES

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

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



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

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



## THERMOSTATIC HEAD

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

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









# ELECTRIC RADIATORS

eBlitz Wi-Fi	page 66
Resia	page 68
eCool ED	page 69
eGarda	page 70

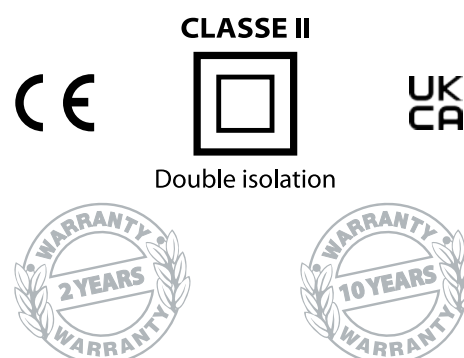


# eBlitz Wi-Fi

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



- **Radiator manageable remotely via Android and Apple smartphones by downloading the Domus One App**
- **Compatible with Google Home and Alexa**
- **Aluminium body:**
  - Quickly reaches the desired temperature
- **Backlight LCD interface incorporated**
- **NTC temperature probe and electronic temperature regulation**
- **In order to optimise consumption, the radiator provides:**
  - Daily and weekly programming with Adaptive Start Control
  - Open window detection function
  - Consumption display
- **Safety:**
  - Keyboard lock
  - Built-in ON / OFF switch
  - Power reserve >2h
- **Fixing system included**



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



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



Power wire:  
- Phase  
- Neutral  
- Pilot wire

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

# DISCOVER THE DOMUS ONE APP!

Download the App from Google Play or the App Store. You will be able to control the operation of your heaters remotely, optimizing consumption and achieving maximum comfort.



## MODE

- Temporary (Boost)
- Manual (Simple)
- Program

## SECURITY LOCK

Lock and unlock the radiators remotely to prevent tampering and assure children's safety

## TEMPERATURES MONITORING

Monitor the room temperature trend thanks to real-time charts

## GROUPS OF DEVICES

Arrange the radiators into groups and control multiple heaters at the same time

## OPEN WINDOW DETECTION

By identifying an open window in the room, the radiator turns off automatically, avoiding energy wastage

## ADAPTIVE START CONTROL

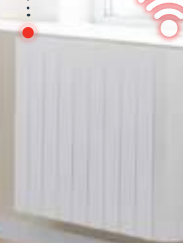
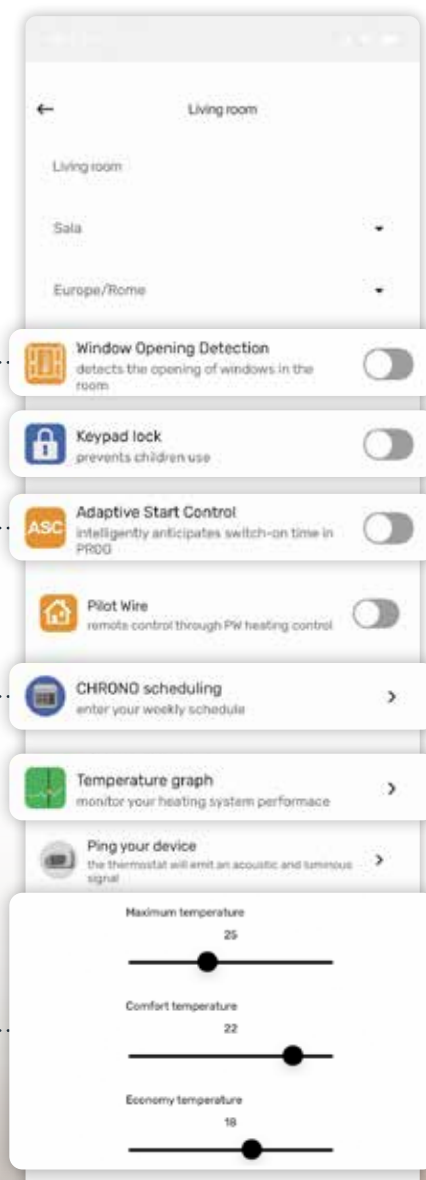
When in Program mode, this smart function will start the radiator at the perfect time based on the current room temperature

## PROGRAM

Easily set a 24/7 heating schedule for your radiators

## TEMPERATURES SET-UP

Customise the Max, Comfort and Eco temperatures



# Resia

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



- **Best quality / price ratio**
- **Aluminium body:**
  - Quickly reaches the desired temperature
- **Light and easy to install**
- **Modern design and electronics with weekly programming**
- **Energy saving:**
  - Open window detection function
  - Automatic Start Control (ASC)
- **Fixing system included**



CLASSE II



Double isolation



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



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



Power wire:  
- Phase  
- Neutral  
- Pilot wire

Model	Code for Pilot Wire	Power	Sections	Voltage	Frequency	Length	Height	Depth
		W	num.	V	Hz	mm	mm	mm
<b>700 W</b>	FRA0M1ED74	700	4	230	50/60	396	577	83
<b>1000 W</b>	FRA0M1EDA5	1000	5	230	50/60	476	577	83
<b>1500 W</b>	FRA0M1EDF8	1500	8	230	50/60	716	577	83
<b>1800 W</b>	FRA0M1EDIA	1800	10	230	50/60	876	577	83

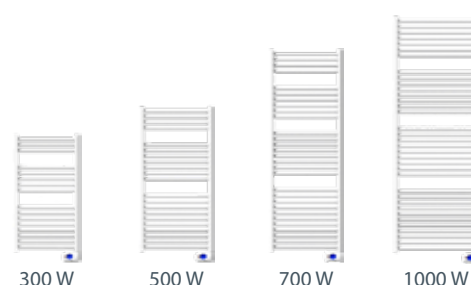


# eCool ED

ELECTRIC TOWEL RADIATOR WITH DIGITAL CONTROL



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



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

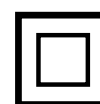
Product supplied under the brand name  
**fondital**



UK or Schuko plug available




CLASSE II



Double isolation



Model	Code for Schuko Plug	Code for UK Plug	Power	Voltage	Frequency	Length	Height	Depth
			W	V	Hz	mm	mm	mm
<b>300</b>	-	-	300	230	50/60	478	933	45
<b>500</b>	-	-	500	230	50/60	528	1143	45
<b>700</b>	-	-	700	230	50/60	528	1563	45
<b>1000</b>	-	-	1000	230	50/60	628	1815	45

Item	Description	Code
	Infrared remote control with wall support (Batteries not included) Features: Comfort, Night, Antifreeze and Stand-by	OZTELINF01

# eGarda

FLUID FILLED ELECTRIC RADIATORS

**PRODUCT AVAILABLE WHILE STOCKS LAST**



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



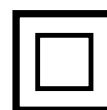
All models **eGarda** are guaranteed **2 years** for electrical components, **5 years** on the aluminium body from the date of installation against manufacturing defects.



Power wire:  
- Phase  
- Neutral  
- Pilot wire



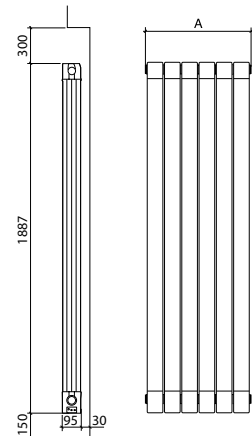
**CLASSE II**



Double isolation



Product supplied under the brand name  **fondital**





MEASURES EXPRESSED IN MILLIMETRES

Model	Code for Pilot Wire	Power	Voltage	Frequency	Interface	Colour	Consumption in Standby Mode
		W	V	Hz			
<b>1500 W</b>	-	1500	230	50	Remote control	White	< 0,5 W
<b>2000 W</b>	-	2000	230	50	Remote control	White	< 0,5 W
<b>N 1500 W</b>	-	1500	230	50	Remote control	Antracite	< 0,5 W
<b>N 2000 W</b>	-	2000	230	50	Remote control	Antracite	< 0,5 W

Model	Sections	Length	Height	Depth	Net weight	Gross weight
	num.	mm	mm	mm	kg	kg
<b>1500 W</b>	4	340	1887	95	17,5	20
<b>2000 W</b>	6	500	1887	95	25,5	29
<b>N 1500 W</b>	4	340	1887	95	17,5	20
<b>N 2000 W</b>	6	500	1887	95	25,5	29

## INCLUDED IN THE PACKAGE

Item	Description
	Fixing system
	Remote control with batteries included

# Aleternum<sup>®</sup>

Anti-corrosion treatment for radiators



**Aleternum<sup>®</sup> 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<sup>®</sup>, an exclusive resin-based internal coating to protect the radiator water chamber.

Aleternum<sup>®</sup> 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 pressure up to 60 bar - ideal for multi-storey buildings

## > Will not become obstructed - no cold spots

## > Light and easy to install

## > May be installed in mixed heating systems

## > Extended warranty up to 20 years.

## > Better euro/watt ratio than steel and bimetal radiators

## > Patented system

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



# THERMOELECTRICALLY-WELDED CAP

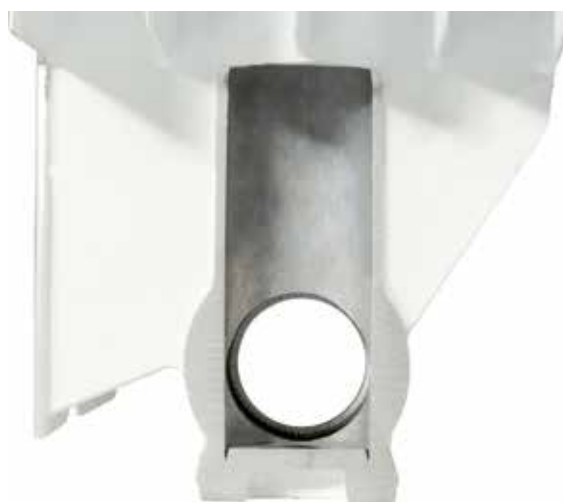
Thermoelectric process, a PATENT PENDING technology, ensures a stable joint between the aluminium die-cast section and its base. Metal in the joint area is absolutely uniform and the two components are perfectly integrated into each other. Thermoelectric joining

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

## TRADITIONAL CAP



## THERMOELECTRICALLY-WELDED CAP



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

# PAINTING AND FINISHING PHASES

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

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



# RADIATOR SIZING AND INSTALLATION

To correctly determine the heat output of the radiators to be installed, you must comply with the rules in force..

To determine the number of sections required for each radiator, you must remember that their nominal heat output is associated with a  $\Delta T$  (difference between the average water temperature and ambient temperature) of 50 K or of 30 K.

It is therefore advisable to ensure a  $\Delta T$  of less than 50 K by decreasing the water outlet temperature (for example, a  $\Delta T$  of 40 to 30 K). This will ensure energy savings as well as increase the degree of comfort.

The radiator heat output for different  $\Delta T$  values is calculated using the formula:  $\Phi = K_m \times \Delta T^n$

The radiator heat output for different  $\Delta T$  values is calculated using the formula:

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

When using the radiator, remember:

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



The manufacturer reserves the right to implement modifications without notice.

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**FONDITAL S.p.A. Società a unico socio**

Via Cerreto, 40

25079 VOBARNO (Brescia) Italia

Tel.: +39 0365 878.31 - Fax: +39 0365 878.304

E-mail: [info@fondital.it](mailto:info@fondital.it) - Web: [www.novaflorida.com](http://www.novaflorida.com)



9 P C E N 0 4 P 3 0 7

COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001 • ISO 14001  
ISO 45001 • ISO 50001