



RADIATORS CATALOGUE
2020

EN







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

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





VISION

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

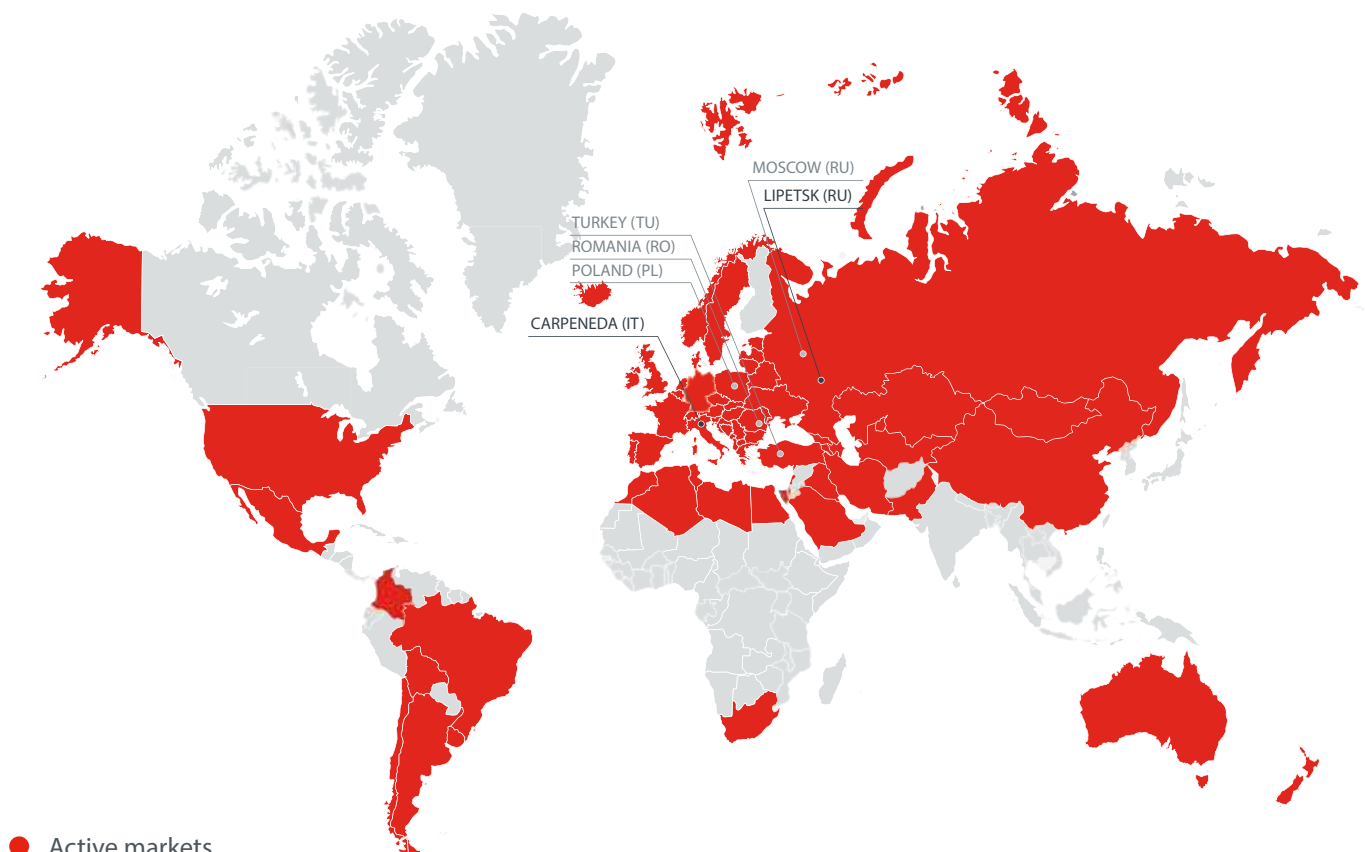
MISSION

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

FONDITAL WORLDWIDE

Fondital is market leader internationally. Multilingual staff and representation offices assure a constant presence on the global market, as evidence of its customer oriented vision.

Fondital is constantly growing, thanks to its ability to interpret customer needs and changes, and to the ability to constantly adapt its supply to the new end market needs with process and product innovations.



FONDITAL PRODUCTS



DIE-CAST RADIATORS



CONDENSING BOILERS



EXTRUDED RADIATORS



NON-CONDENSING BOILERS



DESIGN RADIATORS



WATER HEATERS



ELECTRIC RADIATORS



THERMAL SOLAR



CONVECTIVE GAS STOVES



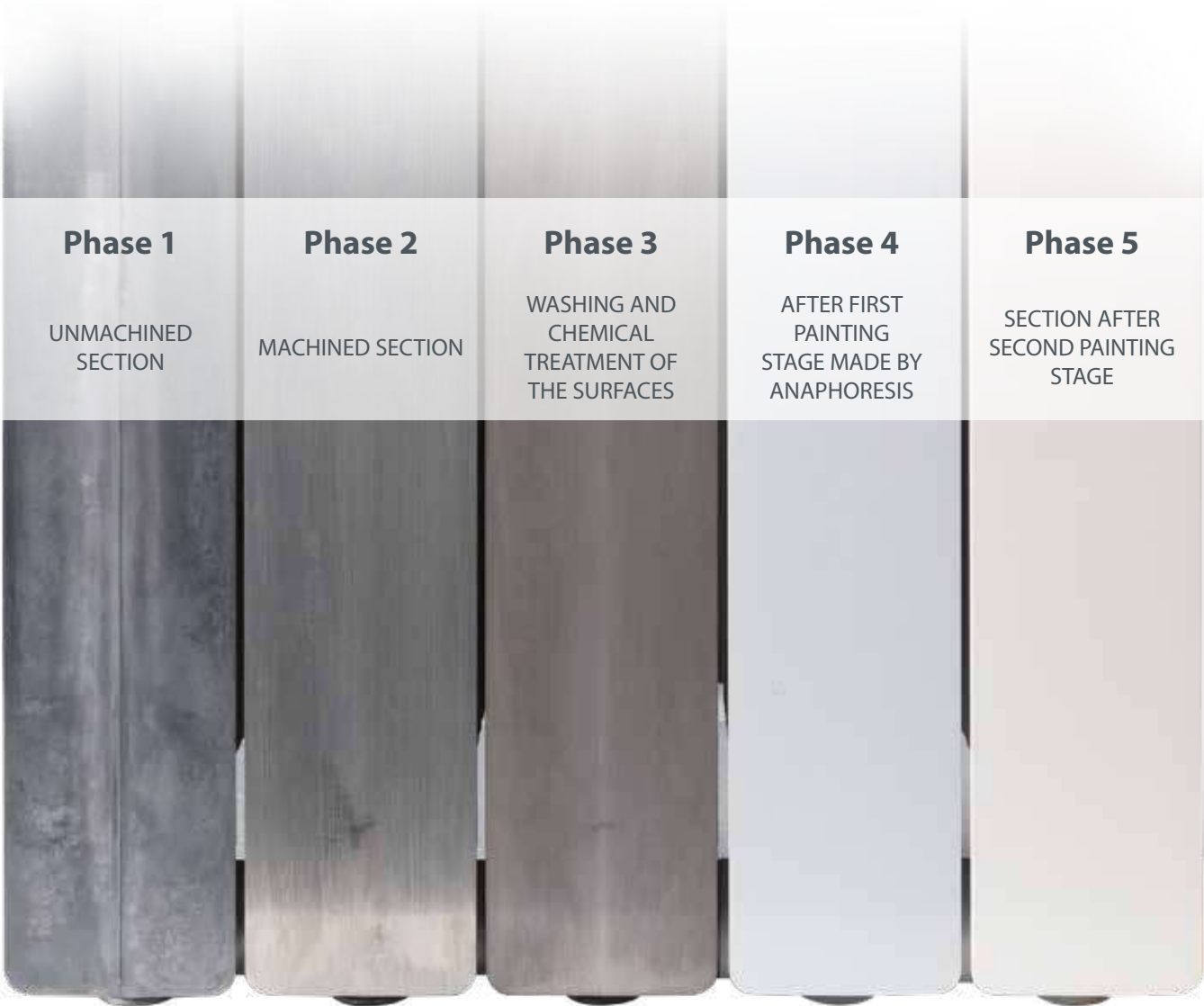
SYSTEM COMPONENTS

PAINTING AND FINISHING PHASES








The painting process of Fondital radiators was developed in detail with the aim of ensuring an exemplary final result in terms of both aesthetic look and metal protection.

Painting is crucial to protect the metal from the corrosion that could be triggered by particles in the air of the room where the radiator is installed.

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



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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.



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.



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 form different batteries.



WORKING PRESSURE

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



WARRANTY

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



PATENTS

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





DIE-CAST RADIATORS

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| Blitz B3 | page 18 |
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Aleternum® B4



Low thermal inertia



Low water content



Versatility



Working pressure



4 international patents

Non-disassemblable product.



ALETERNUM TREATMENT



STANDARD SUPPLY

Model 800: 6, 8 e 10 sections

Model 700: 6, 8, 10 e 12 sections

Model 600/500/350: 6, 8, 10, 12 e 14 sections

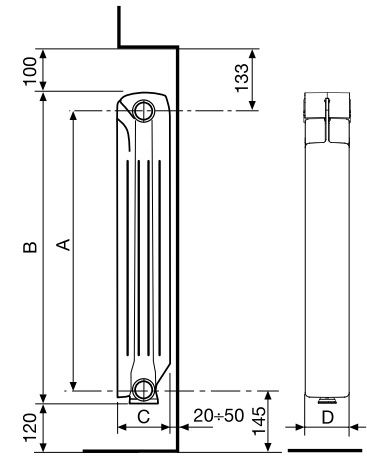
COLOURS

RAL 9010 White

Internal anticorrosion treatment Aleternum® provided as standard

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



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 $\Phi=Km \Delta T^n$

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 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 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



3 international patents



STANDARD SUPPLY

Model 800: from 3 to 10 sections

Model 700: from 3 to 12 sections

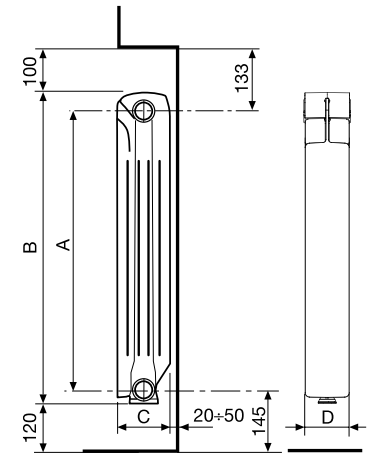
Model 600/500/350: from 3 to 14 sections

COLOURS

RAL 9010 White

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

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



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 | V690014 | 97 | 407 | 350 | 80 | G1 | 0,20 | 1,2598 | 0,6506 |
| 500/100 | V690034 | 97 | 558 | 500 | 80 | G1 | 0,26 | 1,2890 | 0,7991 |
| 600/100 | V690044 | 97 | 658 | 600 | 80 | G1 | 0,31 | 1,2981 | 0,8950 |
| 700/100 | V690054 | 97 | 758 | 700 | 80 | G1 | 0,36 | 1,2998 | 0,9986 |
| 800/100 | V690064 | 97 | 858 | 800 | 80 | G1 | 0,39 | 1,3085 | 1,0635 |

Maximum working pressure: 1600 kpa (16 bar) 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 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 69



| Model | Code Ardesia Text. Matt | Code Black Coffee Text. Matt | Code Pearl pearl |
|---------|-------------------------|------------------------------|------------------|
| 350/100 | VC053B014 | VC053V014 | VC054N014 |
| 500/100 | VC053B034 | VC053V034 | VC054N034 |
| 600/100 | VC053B044 | VC053V044 | VC054N044 |
| 700/100 | VC053B054 | VC053V054 | VC054N054 |
| 800/100 | VC053B064 | VC053V064 | VC054N064 |



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



3 international patents



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



STANDARD SUPPLY

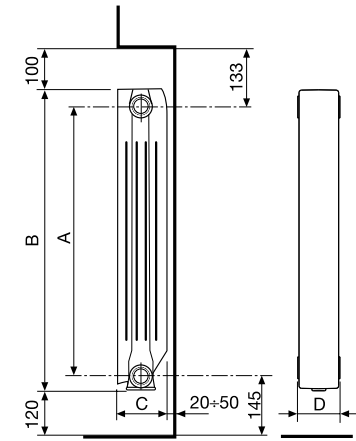
Model 800: from 3 to 10 sections
 Model 700: from 3 to 12 sections
 Model 600/500/350: from 3 to 14 sections

COLOURS

RAL 9010 White
 Ardesia textured matt
 Black coffee textured matt
 Pearl pearl

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.

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











MEASURES EXPRESSED IN MILLIMETRES

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

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 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 |
|  | - Side kit 350 mm - Colour: White RAL 9010 | 550360 |
| | - Side kit 500 mm - Colour: White RAL 9010 | 550361 |
| | - Side kit 600 mm - Colour: White RAL 9010 | 550362 |
| | - Side kit 700 mm - Colour: White RAL 9010 | 550363 |
| | - Side kit 800 mm - Colour: White RAL 9010 | 550364 |
|  | - Plug and 1/2" adapters kit - Colour: BLACK COFFEE TEXTURED MATT | 550129V |
| | - Plug and 1/2" adapters kit - Colour: ARDESIA TEXTURED MATT | 550129E |
| | - Plug and 1/2" adapters kit - Colour: PEARL PEARL | 550129NP |

For other accessories, see from page 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



3 international patents



STANDARD SUPPLY

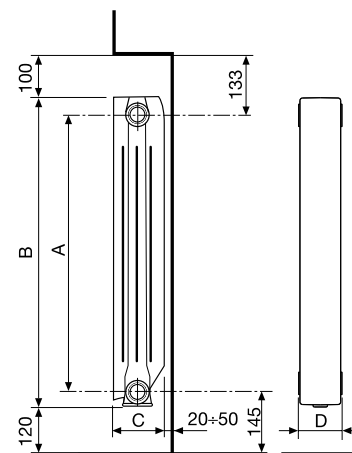
Model 500: from 3 to 14 sections

COLOURS

RAL 9010 White

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

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










MEASURES EXPRESSED IN MILLIMETRES

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

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 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 |
|  | - Side kit 500 mm - Colour: White RAL 9010 | 550361 |

For other accessories, see from page 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



3 international patents



Mod. 350/700/800



Mod. 500



Mod. 600



STANDARD SUPPLY

Model 800: from 3 to 10 sections

Model 700: from 3 to 12 sections

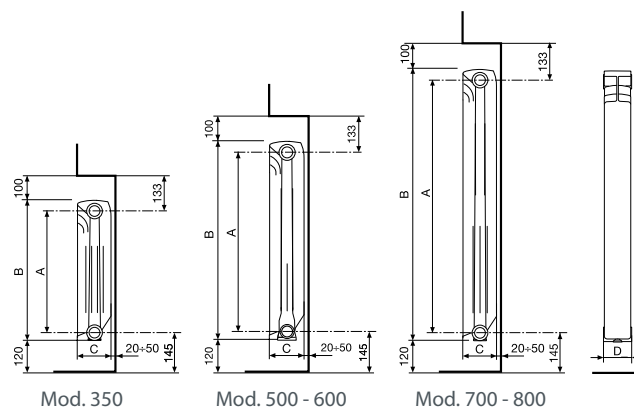
Model 600/500/350: from 3 to 14 sections

COLOURS

RAL 9010 White

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

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



MEASURES EXPRESSED IN MILLIMETRES

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

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

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

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 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 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



3 international patents



Mod. 350/700/800



Mod. 500/600



STANDARD SUPPLY

Model 800: from 3 to 10 sections

Model 700: from 3 to 12 sections

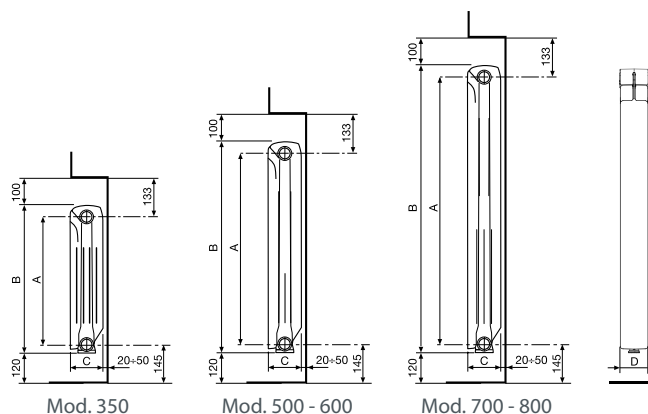
Model 600/500/350: from 3 to 14 sections

COLOURS

RAL 9010 White

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

| Model | Heat output | | | | |
|----------------|---------------|---------------|---------------|---------------|---------------|
| | ΔT 30 | ΔT 40 | ΔT 50 | ΔT 60 | ΔT 70 |
| | W/sect. | W/sect. | W/sect. | W/sect. | W/sect. |
| 350/100 | 47,2 | 67,9 | 89,9 | 113,1 | 137,3 |
| 500/100 | 59,5 | 86,0 | 114,4 | 144,5 | 176,1 |
| 600/100 | 67,8 | 98,5 | 131,5 | 166,5 | 203,3 |
| 700/100 | 77,7 | 112,3 | 149,5 | 188,9 | 230,2 |
| 800/100 | 85,1 | 123,6 | 165,0 | 209,0 | 255,3 |



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 | V686014 | 97 | 407 | 350 | 80 | G1 | 0,20 | 1,2598 | 0,6506 |
| 500/100 | V715034 | 97 | 557 | 500 | 80 | G1 | 0,25 | 1,2813 | 0,7613 |
| 600/100 | V715044 | 97 | 657 | 600 | 80 | G1 | 0,29 | 1,2957 | 0,8270 |
| 700/100 | V662054 | 97 | 757 | 700 | 80 | G1 | 0,39 | 1,2819 | 0,9928 |
| 800/100 | V662064 | 97 | 857 | 800 | 80 | G1 | 0,42 | 1,2962 | 1,0360 |

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 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 69

BOTTOM CONNECTION



Low thermal inertia



Low water content



Bottom connection



Easy to stock and install



16 bar Working pressure



Exclusive patent



CODE OBTAINING EXAMPLE

Radiator Calidor Super B4 600/100 with 9 elements:

V69004409


RIGHT ELEMENT: **V690044DX**


Valve: **520205DS**

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:


A






RH KIT


B






LH KIT


C



520215M



520216P



520205DS

RADIATOR WITH A RIGHT BOTTOM CONNECTION

ELEMENT:
RADIATOR MODEL WITH ACCESSORY KIT INCLUDED RH BOTTOM FITTING **(A)**




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

RADIATOR WITH A LEFT BOTTOM CONNECTION

ELEMENT:
RADIATOR MODEL WITH ACCESSORY KIT INCLUDED LH BOTTOM FITTING **(B)**

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

UPPER VALVE

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

For the heat output values see corresponding model on page 17

| Model Exclusivo | Code |
|-----------------|-----------|
| 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 Calidor Super B4 | Code |
|------------------------|-----------|
| 500/100 DX | V690034DX |
| 500/100 SX | V690034SX |
| 600/100 DX | V690044DX |
| 600/100 SX | V690044SX |
| 700/100 DX | V690054DX |
| 700/100 SX | V690054SX |
| 800/100 DX | V690064DX |
| 800/100 SX | V690064SX |

For the heat output values see corresponding model on page 15

| Model Master | Code |
|--------------|-----------|
| 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 |
|---|--|----------|
|  | <p>RH-LH VALVE BOTTOM TO WALL FITTING KIT</p> <ul style="list-style-type: none"> - 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 |
|  | <p>RH-LH VALVE BOTTOM TO FLOOR FITTING KIT</p> <ul style="list-style-type: none"> - 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 |
|  | <p>RH-LH VALVE BOTTOM FITTING KIT WITH BYPASS</p> <ul style="list-style-type: none"> - 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 |

Blitz80



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



3 international patents

CE₁₇



STANDARD SUPPLY

Model 800: from 3 to 10 sections

Model 700: from 3 to 12 sections

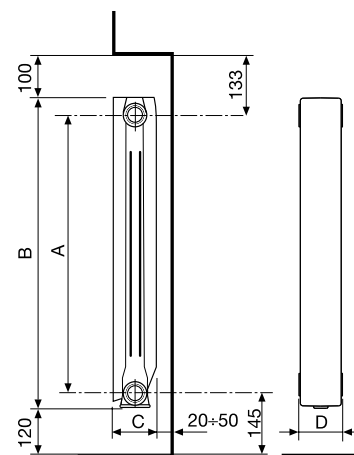
Model 600/500: from 3 to 14 sections

COLOURS

RAL 9010 White

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

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









MEASURES EXPRESSED IN MILLIMETRES

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

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 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 69

Calidor80



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



3 international patents



Mod. 500



Mod. 600/700/800



STANDARD SUPPLY

Model 800: from 3 to 10 sections

Model 700: from 3 to 12 sections

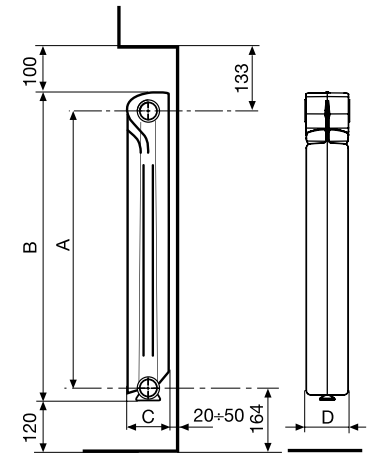
Model 600/500: from 3 to 14 sections

COLOURS

RAL 9010 White

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

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



MEASURES EXPRESSED IN MILLIMETRES

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

Maximum working pressure: 1600 kpa (16 bar) 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 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 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



3 international patents



STANDARD SUPPLY

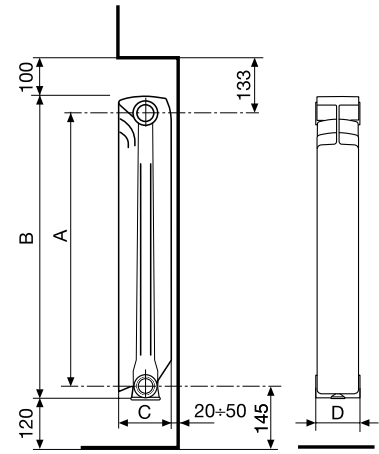
Model 600/500: from 3 to 14 sections

COLOURS

RAL 9010 White

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

| Model | Heat output | | | | |
|---------|---------------|---------------|---------------|---------------|---------------|
| | ΔT 30 | ΔT 40 | ΔT 50 | ΔT 60 | ΔT 70 |
| | W/sect. | W/sect. | W/sect. | W/sect. | W/sect. |
| 500/100 | 57,0 | 82,4 | 109,8 | 138,7 | 169,0 |
| 600/100 | 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 | V639034 | 97 | 556 | 500 | 80 | G1 | 0,26 | 1,2835 | 0,7240 |
| 600/100 | V639044 | 97 | 656 | 600 | 80 | G1 | 0,29 | 1,2851 | 0,8361 |

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 69



Advantages of aluminium

- Lightweight radiator
- Modern and appealing design
- 100% recyclable
- Great thermal conductor

Advantages of steel

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



RADIATOR SECTION



STANDARD SUPPLY

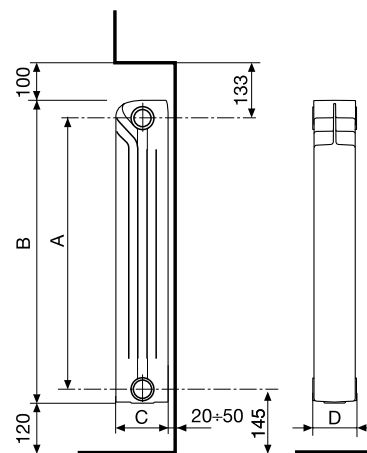
Model 500: 6, 8, 10, 12 sections

COLOURS

RAL 9010 White

All models **Alustal** 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 | | |
|----------------|---------------|---------------|---------------|
| | ΔT 30 | ΔT 50 | ΔT 70 |
| | W/sect. | W/sect. | W/sect. |
| 500/100 | 59,4 | 116,8 | 182,0 |









MEASURES EXPRESSED IN MILLIMETRES

| Model | Code | Depth | Height | Centre distance | Length | Connection diameters | Water capacity | Exponent | Coefficient |
|----------------|---------|--------|--------|-----------------|--------|----------------------|----------------|----------|-------------|
| | | (C) mm | (B) mm | (A) mm | (D) mm | inches | litres/sect. | n | Km |
| 500/100 | V901034 | 97 | 559 | 500 | 80 | G1 | 0,18 | 1,3248 | 0,6557 |

Maximum working pressure: 4000 kpa (40 bar)Characteristic equation of the model $\Phi = Km \Delta T^n$

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

| 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 69





EXTRUDED RADIATORS

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





Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



STANDARD SUPPLY

3, 4, 5, 6-element

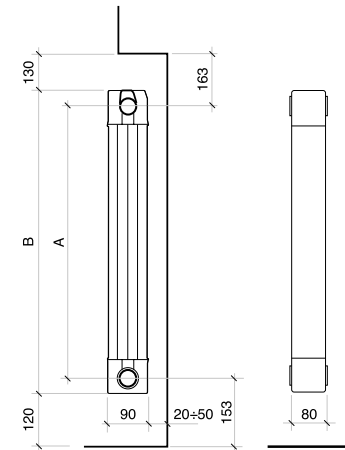
The water diaphragm (retainer cap) is included in the package.

COLOURS

RAL 9010 White

All models **Garda 5/90** 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 | | | | |
|-------|---------------|---------------|---------------|---------------|---------------|
| | ΔT 30 | ΔT 40 | ΔT 50 | ΔT 60 | ΔT 70 |
| | W/sect. | W/sect. | W/sect. | W/sect. | W/sect. |
| 900 | 90,9 | 134,4 | 182,0 | 233,3 | 287,7 |
| 1000 | 97,2 | 143,9 | 195,0 | 250,0 | 308,5 |
| 1200 | 111,3 | 164,6 | 223,0 | 285,8 | 352,5 |
| 1400 | 124,8 | 184,6 | 250,0 | 320,3 | 395,1 |
| 1600 | 135,9 | 202,4 | 275,0 | 354,8 | 439,2 |
| 1800 | 150,0 | 221,6 | 300,0 | 384,2 | 473,6 |
| 2000 | 159,5 | 237,9 | 324,0 | 418,0 | 518,0 |



MEASURES EXPRESSED IN MILLIMETRES

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

Maximum working pressure: 1600 kpa (16 bar)

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

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 Garda | 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 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



16
bar

Working pressure



STANDARD SUPPLY

3, 4, 5, 6-element

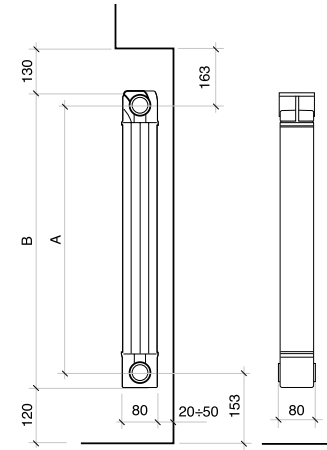
The water diaphragm (retainer cap) is included in the package.

COLOURS

RAL 9010 White

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

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



MEASURES EXPRESSED IN MILLIMETRES

| Model | Code | Depth | Height | Centre distance | Length | Connection diameters | Water capacity | Exponent | Coefficient |
|-------|--------|-------|--------|-----------------|--------|----------------------|----------------|----------|-------------|
| | | mm | (B) mm | (A) mm | mm | inches | litres/sect. | n | Km |
| 900 | 82F014 | 80 | 966 | 900 | 80 | G1 | 0,47 | 1,3695 | 0,8217 |
| 1000 | 82G014 | 80 | 1066 | 1000 | 80 | G1 | 0,52 | 1,3908 | 0,8198 |
| 1200 | 82H014 | 80 | 1266 | 1200 | 80 | G1 | 0,60 | 1,3889 | 0,9391 |
| 1400 | 82I014 | 80 | 1466 | 1400 | 80 | G1 | 0,70 | 1,3875 | 1,0585 |
| 1600 | 82L014 | 80 | 1666 | 1600 | 80 | G1 | 0,79 | 1,3980 | 1,1213 |
| 1800 | 82M014 | 80 | 1866 | 1800 | 80 | G1 | 0,88 | 1,3832 | 1,2864 |
| 2000 | 82N014 | 80 | 2066 | 2000 | 80 | G1 | 0,96 | 1,3902 | 1,3473 |

Maximum working pressure: 1600 kpa (16 bar)

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

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 Garda | 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 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



16 bar
Working pressure



STANDARD SUPPLY

3, 4, 5, 6-element

The water diaphragm (retainer cap) is included in the package.

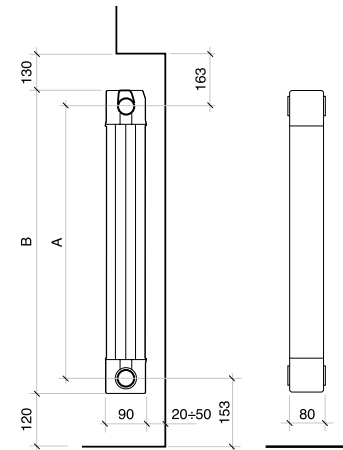
COLOURS

RAL 9010 White

Internal anticorrosion treatment **Aleternum provided as standard**

All models **Garda 5/90 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.

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



MEASURES EXPRESSED IN MILLIMETRES

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

Maximum working pressure: 1600 kpa (16 bar)

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

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 Garda | 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 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



STANDARD SUPPLY

3, 4, 5, 6-element

The water diaphragm (retainer cap) is included in the package.

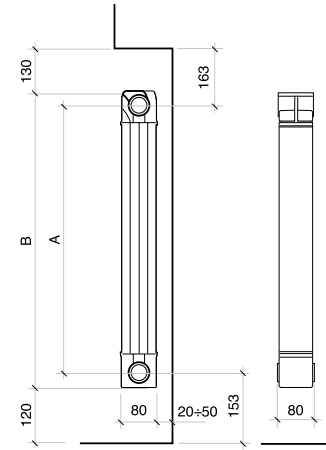
COLOURS

RAL 9010 White

Internal anticorrosion treatment **Aleternum provided as standard**

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

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



MEASURES EXPRESSED IN MILLIMETRES

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

Maximum working pressure: 1600 kpa (16 bar)

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

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 Garda | 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 69



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



STANDARD SUPPLY

3, 5, 7, 9 sections

The water diaphragm (retainer cap) is included in the package.

COLOURS

RAL 9010 White

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

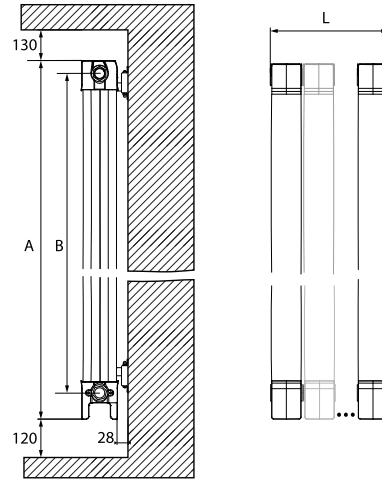


BOTTOM CENTRE CONNECTION



BOTTOM SIDE CONNECTION

To connect the radiator with a valve at the bottom on one side, you will need to join two Garda S/90 AC radiators using dedicated accessories
Art. 550111E + Art. 520118.



MEASURES EXPRESSED IN MILLIMETRES

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

| Model | Heat output | | | | |
|--------|---------------|---------------|---------------|---------------|---------------|
| | ΔT 30 | ΔT 40 | ΔT 50 | ΔT 60 | ΔT 70 |
| | W/sect. | W/sect. | W/sect. | W/sect. | W/sect. |
| 1600/3 | 408 | 607 | 827 | 1064 | 1318 |
| 1600/5 | 680 | 1012 | 1378 | 1774 | 2196 |
| 1600/7 | 951 | 1417 | 1930 | 2484 | 3074 |
| 1600/9 | 1223 | 1822 | 2481 | 3193 | 3953 |
| 1800/3 | 450 | 665 | 900 | 1153 | 1421 |
| 1800/5 | 750 | 1108 | 1500 | 1921 | 2368 |
| 1800/7 | 1050 | 1551 | 2100 | 2698 | 3315 |
| 1800/9 | 1350 | 1995 | 2700 | 3458 | 4262 |



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

* The measure includes the overall dimensions of the side caps.



Maximum working pressure: 1600 kpa (16 bar)

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




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

| Item | Description | Code |
|---|---------------------------------------|------------|
|  | Angle valve with thermostat option | 847V81210Q |
|  | Straight valve with thermostat option | 847V81610Q |




50 mm centre distance valves with by-pass - **white finish**

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





Complementary accessories

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





Components supplied with the **radiator**

| Item | Description | Code |
|---|---|--------|
|  | Fixing system kit and plugs | 550128 |
|  | Blind plug with groove, 1" ÷ ½ right thread | 525013 |
| | Blind plug with groove, 1" ÷ ½ left thread | 525113 |
|  | Reduction with groove, 1" ÷ ½ right thread | 526241 |
| | Reduction with groove, 1" ÷ ½ left thread | 526341 |

Components supplied with the **valve**

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

Components for battery composition with **side connections**

| Item | Description | Code |
|---|---|--------|
|  | ½" Plug to close central element | 520118 |
|  | Plastic wrench | 560257 |
|  | Nipple wrench and plug plastic wrench kit | 550092 |
|  | Nipple wrench 1"G | 550090 |

Copper pipe adapters

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

**Multilayer pipe adapters**

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

**PEX pipe adapters**

| Pipe size | Connection | Nickel | Chrome |
|-----------|------------|------------|------------|
| (Ø mm) | | Code | Code |
| 12 x 1 | ¾" EK | 847A39420Q | 847A58810B |
| 16 x 1.5 | ¾" EK | 847A39405Q | 847A58811B |
| 12 x 2 | ¾" EK | 847A39401Q | 847A58800B |
| 14 x 2 | ¾" EK | 847A39402Q | 847A58801B |
| 16 x 2 | ¾" EK | 847A39406Q | 847A58803B |
| 17 x 2 | ¾" EK | 847A39408Q | 847A58805B |
| 18 x 2 | ¾" EK | 847A39410Q | 847A58806B |
| 20 x 2 | ¾" EK | 847A39413Q | 847A58808B |
| 16 x 2.2 | ¾" EK | 847A39407Q | 847A58804B |
| 15 x 2.5 | ¾" EK | 847A39404Q | 847A58802B |
| 18 x 2.5 | ¾" EK | 847A39411Q | 847A58807B |
| 20 x 2.5 | ¾" EK | 847A39415Q | 847A58809B |







TOWEL RAILS

Cool

page 50



Cool Aleternum®



Low thermal inertia



Low water content



Versatility



Working pressure



Available in 24 colours



The installation kit is included in the package.

Available centre-to-centre distances

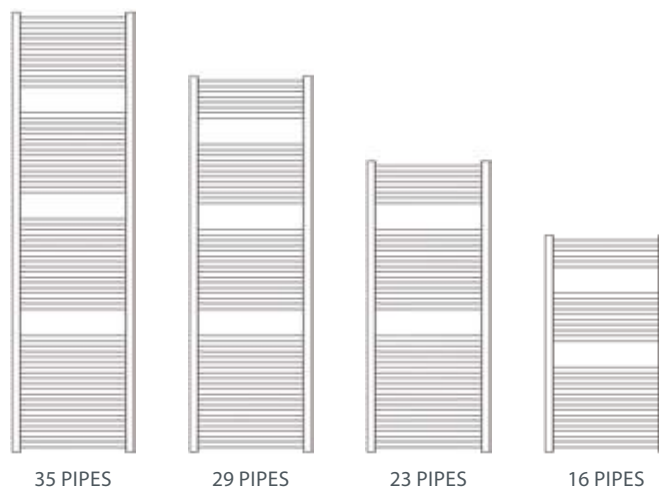
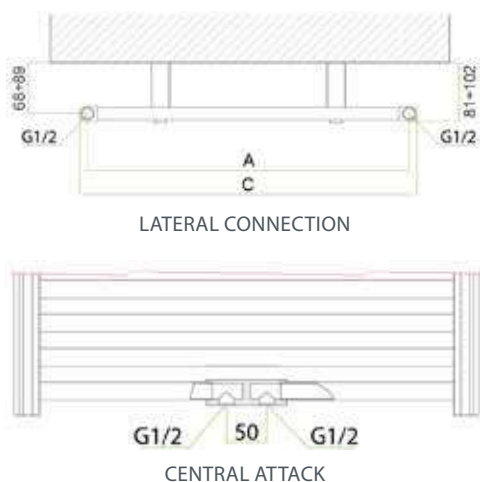
400 mm
450 mm
500 mm
550 mm
600 mm

Available heights

858 mm
1152 mm
1488 mm
1740 mm

Internal anticorrosion treatment Aleternum® provided as standard

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



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

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

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

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

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

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, gloss White colour
Ex: **EA42E0 04**

Cool radiator 1160/500, gloss Ardesia colour
Ex: **EA52G0 2B**

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

| Model | Side connection version | | Central connection version | |
|-----------------|-------------------------|-----------|----------------------------|-----------|
| | RAL 9010 White | Colours | RAL 9010 White | 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







FINISHES

GLOSS

MATT

TEXTURED MATT

PEARL

| Item | Description | Code | |
|---|-------------|---|---------|
|  | A 77 | Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: White (standard supply) | 550124 |
| | A 79 | Installation kit for Cool 3 points central connection with bleed valve and 3 plugs - Colour: White (standard supply) | 550126 |
|  | A 78 | Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Chrome (standard supply) | 550125 |
| | A 89 | Installation kit for Cool 3 points central connection with bleed valve and 3 plugs - Colour: Chrome (standard supply) | 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 |











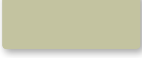













TONDERA series for central connection

| Description | Colour White RAL 9010 | Colour Chrome |
|--|--------------------------|---------------|
| | Code | Code |
| 50 mm angle lockshield valve and thermostatic valve assembly, interchangeable copper and multilayer pipe connection, non-drip end. RIGHT | 8496811 | 8496812 |
| 50 mm angle lockshield valve and thermostat valve assembly, interchangeable copper and multilayer pipe connection, non-drip end. RIGHT | 8496841 | 8496842 |



| Description | Colour Gold |
|--|-------------|
| | Code |
| Reversible screw for TONDERA from RH to LH | 8490471 |

For other accessories, see from page 69

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

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 gloss White (RAL 9010)





DESIGN RADIATORS

| | |
|--|---------|
| Mood | page 56 |
| Tribeca | page 60 |
| Pop - Home and bathroom furnishing configuration | page 64 |
| Pop - Standard configuration | page 66 |



Mood



Low thermal inertia



Low water content



Versatility



16 bar

Working pressure



Available in 24 colours



Radiator Mood: with decoration

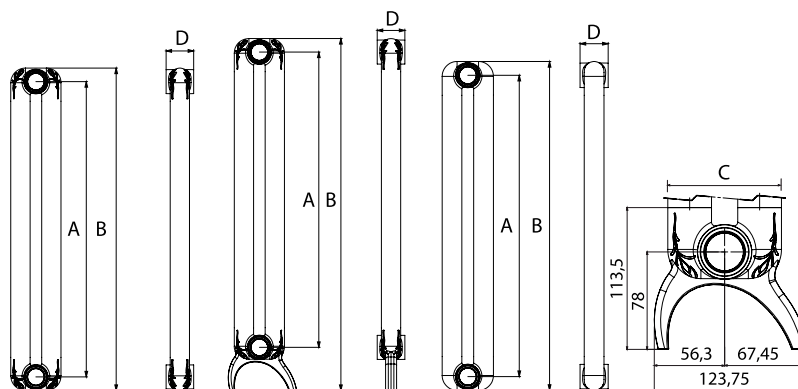
The Mood model with supporting feet is supplied with centre distances from 1000 to 2000 mm.

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

Internal anticorrosion treatment  provided as standard

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.

| CENTRE DISTANCE: | BATTERY COMPOSITION: |
|---|---------------------------------|
| 235 - 335 - 350 - 435 - 500 - 535 - 600 | Batteries from 4 to 20 elements |
| 685 - 700 - 800 - 835 | Batteries from 4 to 16 elements |
| 900 - 935 - 1000 - 1135 - 1200 - 1400 - 1435 - 1600 - 1735 - 1800 - 1935 - 2000 | Batteries from 4 to 9 elements |



MEASURES EXPRESSED IN MILLIMETRES

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

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

| Model | Depth | Height * | Centre distance | Length | 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 | 0,6809 |
| 1400 | 90 | 1449 | 1400 | 50 | G1 | 2,28 | 1,3213 | 0,7583 |
| 1435 | 90 | 1484 | 1435 | 50 | G1 | 2,36 | 1,3210 | 0,7771 |
| 1600 | 90 | 1649 | 1600 | 50 | G1 | 2,60 | 1,3192 | 0,8673 |
| 1735 | 90 | 1784 | 1735 | 50 | G1 | 2,85 | 1,3178 | 0,9430 |
| 1800 | 90 | 1849 | 1800 | 50 | G1 | 2,95 | 1,3171 | 0,9801 |
| 1935 | 90 | 1984 | 1935 | 50 | G1 | 3,10 | 1,3156 | 1,0585 |
| 2000 | 90 | 2049 | 2000 | 50 | G1 | 3,22 | 1,3150 | 1,0970 |

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

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

Mood radiator 600 from 10 sections gloss White colour
Ex: **EA10C0 + 04 + 10**

Mood radiator 600 from 12 sections gloss Ardesia colour.
Ex: **EA10C0 + 2B + 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

FINISHES











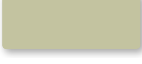













GLOSS
MATT
TEXTURED MATT
PEARL

| 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 Plastic covers 3 White Rh pincers 3 White Lh pincers 4 1" O-ring seals 1 Retainer rubber cap | White | 550122 |
| | | White - Pearl | 550122MP |
| | | Corvino textured matt | 550122L |
| | | Corvino glossy | 550122LL |
| | | Pearl pearl | 550122NP |
| | | Pearl glossy | 550122NL |
| | | Pearl matt | 550122NO |
| | | Organza glossy | 550122DL |
| | | Organza matt | 550122DO |
| | | Turtle matt | 550122PO |
| | | Turtle textured matt | 550122P |
| | | Copper glossy | 550122CL |
| | | Copper textured matt | 550122C |
| | | Silver glossy | 550122FL |
| | | Silver textured matt | 550122F |
| | | Ardesia glossy | 550122EL |
| | | Ardesia textured matt | 550122E |
| | | Ruby red glossy | 550122BL |
| | | Helois textured matt | 550122H |
| | | Turquoise beach gloss | 550122IL |
| Graphite textured matt | 550122R | | |
| Terra dark-coloured glossy | 550122SL | | |
| Black coffee textured matt | 550122V | | |
| Metropolitan textured matt | 550122T | | |

Coloured versions: apply a surcharge of 45% on the pure white gloss (RAL 9010) coating

| 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 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 69

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

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 gloss White (RAL 9010)

Tribeca Aleternum®



Low thermal inertia



Low water content



Versatility



Working pressure



Available in 24 colours



CE₁₄

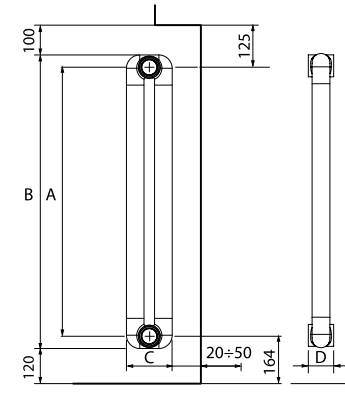


Tribeca radiator: without decoration.

Internal anticorrosion treatment **Aleternum®** provided as standard

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.

| CENTRE DISTANCE: | BATTERY COMPOSITION: |
|--|---------------------------------|
| 235 - 335 - 350 - 435 - 500 - 535 - 600 | Batteries from 4 to 20 elements |
| 685 - 700 - 800 - 835 | Batteries from 4 to 16 elements |
| 900 - 935 - 1000 - 1135 - 1200 - 1400 1435 - 1600 - 1735 - 1935 | Batteries from 4 to 9 elements |
| 1800 - 2000 | Batteries from 4 to 12 elements |



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

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

| Model | Depth | Height | Centre distance | Length | 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 | 0,6809 |
| 1400 | 90 | 1449 | 1400 | 50 | G1 | 2,28 | 1,3213 | 0,7583 |
| 1435 | 90 | 1484 | 1435 | 50 | G1 | 2,36 | 1,3210 | 0,7771 |
| 1600 | 90 | 1649 | 1600 | 50 | G1 | 2,60 | 1,3192 | 0,8673 |
| 1735 | 90 | 1784 | 1735 | 50 | G1 | 2,85 | 1,3178 | 0,9430 |
| 1800 | 90 | 1849 | 1800 | 50 | G1 | 2,95 | 1,3171 | 0,9801 |
| 1935 | 90 | 1984 | 1935 | 50 | G1 | 3,10 | 1,3156 | 1,0585 |
| 2000 | 90 | 2049 | 2000 | 50 | G1 | 3,22 | 1,3150 | 1,0970 |

Maximum working pressure: 1600 kpa (16 bar) 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 gloss White colour
Ex: **EA20C0 + 04 + 10**

Tribeca radiator 600 from 12 sections gloss Ardesia colour
Ex: **EA20C0 + 2B + 12**

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

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

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

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

COLOURS

See table on the following page


FINISHES

GLOSS






MATT

TEXTURED MATT











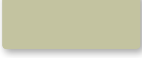













PEARL

| 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 Plastic covers 3 White Rh pincers 3 White Lh pincers 4 1" O-ring seals 1 Retainer rubber cap | White | 550122 |
| | | White - Pearl | 550122MP |
| | | Corvino textured matt | 550122L |
| | | Corvino glossy | 550122LL |
| | | Pearl pearl | 550122NP |
| | | Pearl glossy | 550122NL |
| | | Pearl matt | 550122NO |
| | | Organza glossy | 550122DL |
| | | Organza matt | 550122DO |
| | | Turtle matt | 550122PO |
| | | Turtle textured matt | 550122P |
| | | Copper glossy | 550122CL |
| | | Copper textured matt | 550122C |
| | | Silver glossy | 550122FL |
| | | Silver textured matt | 550122F |
| | | Ardesia glossy | 550122EL |
| | | Ardesia textured matt | 550122E |
| | | Ruby red glossy | 550122BL |
| | | Helois textured matt | 550122H |
| | | Turquoise beach gloss | 550122IL |
| Graphite textured matt | 550122R | | |
| Terra dark-coloured glossy | 550122SL | | |
| Black coffee textured matt | 550122V | | |
| Metropolitan textured matt | 550122T | | |

Coloured versions: apply a surcharge of 45% on the pure white gloss (RAL 9010) coating

| 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 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 69

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

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 gloss White (RAL 9010)



Patented technology



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure



TOWEL RACK KIT AVAILABLE AS OPTIONAL ACCESSORY

STANDARD SUPPLY

Model 500: blocks of 5, 6, 8, 10, 12, 14, 16, 18, 20 and 22 sections

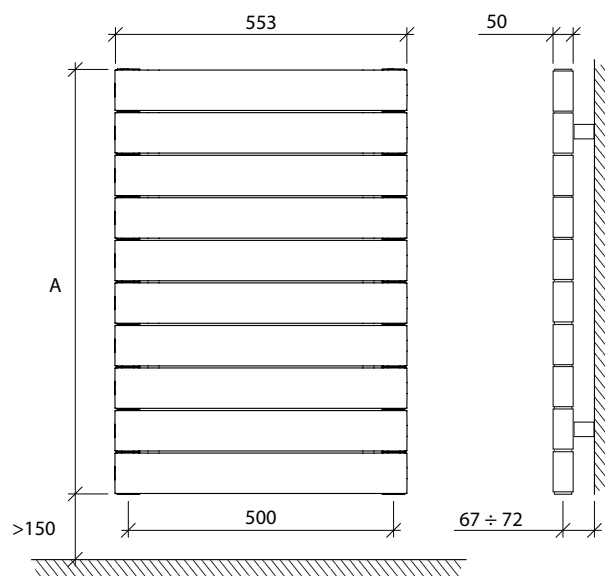
Towel rack

It is possible to purchase as many as you need and they can be installed in the most convenient and desired position. The handle position can be changed even after installation.



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

| Model | Heat output | | | | |
|-------------|---------------|---------------|---------------|---------------|---------------|
| | ΔT 30 | ΔT 40 | ΔT 50 | ΔT 60 | ΔT 70 |
| | W | W | W | W | W |
| 500/50 - 5 | 119,0 | 169,5 | 223,0 | 279,5 | 338,0 |
| 500/50 - 6 | 142,8 | 203,4 | 267,6 | 335,4 | 405,6 |
| 500/50 - 8 | 190,4 | 271,2 | 356,8 | 447,2 | 540,8 |
| 500/50 - 10 | 238,0 | 339,0 | 446,0 | 559,0 | 676,0 |
| 500/50 - 12 | 285,6 | 406,8 | 535,2 | 670,8 | 811,2 |
| 500/50 - 14 | 333,2 | 474,6 | 624,4 | 782,6 | 946,4 |
| 500/50 - 16 | 380,8 | 542,4 | 713,6 | 894,4 | 1081,6 |
| 500/50 - 18 | 428,4 | 610,2 | 802,8 | 1006,2 | 1216,8 |
| 500/50 - 20 | 476,0 | 678,0 | 892,0 | 1118,0 | 1352,0 |
| 500/50 - 22 | 523,6 | 745,8 | 981,2 | 1229,8 | 1487,2 |



MEASURES EXPRESSED IN MILLIMETRES

| Model | Code | Depth | Height | Centre distance | Length | Connection diameters | Water capacity | Exponent | Coefficient |
|-------------|-----------|-------|--------|-----------------|--------|----------------------|----------------|----------|-------------|
| | | mm | mm | mm | (A)mm | inches | litres | n | Km |
| 500/50 - 5 | V33103405 | 50 | 400 | 500 | 553 | G1 | 1,75 | 1,2332 | 1,7930 |
| 500/50 - 6 | V33103406 | 50 | 480 | 500 | 553 | G1 | 2,10 | 1,2332 | 2,1516 |
| 500/50 - 8 | V33103408 | 50 | 640 | 500 | 553 | G1 | 2,80 | 1,2332 | 2,8688 |
| 500/50 - 10 | V33103410 | 50 | 800 | 500 | 553 | G1 | 3,50 | 1,2332 | 3,5860 |
| 500/50 - 12 | V33103412 | 50 | 960 | 500 | 553 | G1 | 4,20 | 1,2332 | 4,3032 |
| 500/50 - 14 | V33103414 | 50 | 1120 | 500 | 553 | G1 | 4,90 | 1,2332 | 5,0204 |
| 500/50 - 16 | V33103416 | 50 | 1280 | 500 | 553 | G1 | 5,60 | 1,2332 | 5,7376 |
| 500/50 - 18 | V33103418 | 50 | 1440 | 500 | 553 | G1 | 6,30 | 1,2332 | 6,4548 |
| 500/50 - 20 | V33103420 | 50 | 1600 | 500 | 553 | G1 | 7,00 | 1,2332 | 7,1720 |
| 500/50 - 22 | V33103422 | 50 | 1760 | 500 | 553 | G1 | 7,70 | 1,2332 | 7,8892 |

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 |
|------|--|--------|
| | - Mounting kit - Home and bathroom furnishing configuration | 550143 |
| | - Towel rack kit | 550145 |
| | 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 |



Patented technology



Low thermal inertia



Low water content



Versatility



Easy to stock and install



Working pressure

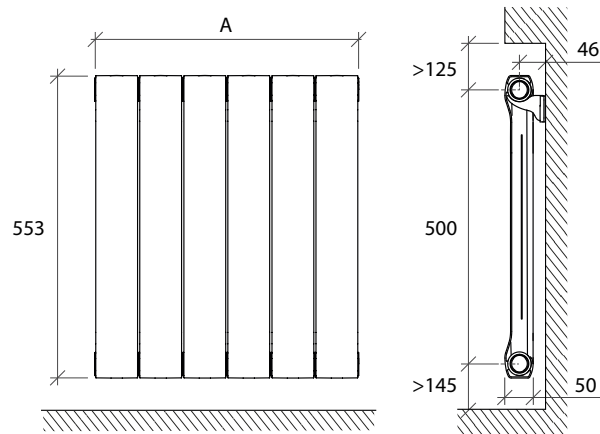


STANDARD SUPPLY

Model 500: blocks of 5, 6, 8, 10, 12, 14, 16, 18, 20 and 22 sections

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

| Model | Heat output | | | | |
|-------------|---------------|---------------|---------------|---------------|---------------|
| | ΔT 30 | ΔT 40 | ΔT 50 | ΔT 60 | ΔT 70 |
| | W | W | W | W | W |
| 500/50 - 5 | 181,5 | 262,5 | 349,5 | 441,5 | 538,0 |
| 500/50 - 6 | 217,8 | 315,0 | 419,4 | 529,8 | 645,6 |
| 500/50 - 8 | 290,4 | 420,0 | 559,2 | 706,4 | 860,8 |
| 500/50 - 10 | 363,0 | 525,0 | 699,0 | 883,0 | 1076,0 |
| 500/50 - 12 | 435,6 | 630,0 | 838,8 | 1059,6 | 1291,2 |
| 500/50 - 14 | 508,2 | 735,0 | 978,6 | 1236,2 | 1506,4 |
| 500/50 - 16 | 580,8 | 840,0 | 1118,4 | 1412,8 | 1721,6 |
| 500/50 - 18 | 653,4 | 945,0 | 1258,2 | 1589,4 | 1936,8 |
| 500/50 - 20 | 726,0 | 1050,0 | 1398,0 | 1766,0 | 2152,0 |
| 500/50 - 22 | 798,6 | 1155,0 | 1537,8 | 1942,6 | 2367,2 |





MEASURES EXPRESSED IN MILLIMETRES

| Model | Code | Depth | Height | Centre distance | Length | Connection diameters | Water capacity | Exponent | Coefficient |
|-------------|-----------|-------|--------|-----------------|--------|----------------------|----------------|----------|-------------|
| | | mm | mm | mm | (A)mm | inches | litres | n | Km |
| 500/50 - 5 | V33103405 | 50 | 553 | 500 | 400 | G1 | 1,75 | 1,2839 | 2,3010 |
| 500/50 - 6 | V33103406 | 50 | 553 | 500 | 480 | G1 | 2,10 | 1,2839 | 2,7612 |
| 500/50 - 8 | V33103408 | 50 | 553 | 500 | 640 | G1 | 2,80 | 1,2839 | 3,6816 |
| 500/50 - 10 | V33103410 | 50 | 553 | 500 | 800 | G1 | 3,50 | 1,2839 | 4,6020 |
| 500/50 - 12 | V33103412 | 50 | 553 | 500 | 960 | G1 | 4,20 | 1,2839 | 5,5224 |
| 500/50 - 14 | V33103414 | 50 | 553 | 500 | 1120 | G1 | 4,90 | 1,2839 | 6,4428 |
| 500/50 - 16 | V33103416 | 50 | 553 | 500 | 1280 | G1 | 5,60 | 1,2839 | 7,3632 |
| 500/50 - 18 | V33103418 | 50 | 553 | 500 | 1440 | G1 | 6,30 | 1,2839 | 8,2836 |
| 500/50 - 20 | V33103420 | 50 | 553 | 500 | 1600 | G1 | 7,00 | 1,2839 | 9,2040 |
| 500/50 - 22 | V33103422 | 50 | 553 | 500 | 1760 | G1 | 7,70 | 1,2839 | 10,1244 |

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 |
|---|---|--------|
|  | - Mounting kit - Standard configuration | 550144 |
|  | 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 |




















RADIATOR ACCESSORIES

| | |
|---------------------------------|---------|
| Accessories on request | page 70 |
| Fittings for copper pipes | page 74 |
| Fittings for multilayer pipes | page 75 |
| Fittings for polyethylene pipes | page 77 |
| Thermostatic head | page 77 |



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 |
|  | A 6/1 | Rh adapter 1/2 - Colour: White | 526214 |
| | | Lh adapter 1/2 - Colour: White | 526314 |
|  | A 6/1 | 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 |
|  | A 8/1 | Rh 1/8 valve plug - Colour: White | 525414 |
| | | Lh 1/8 valve plug - Colour: White | 525514 |
|  | A 13 | Retouch spray 400 ml - Colour: White RAL 9010 | 540024 |
|  | A 16 | 175 mm Wall anchor bracket | 550020 |
|  | A 18 | Rh bracket to be screwed on to the wall | 550035 |
|  | | Lh bracket to be screwed on to the wall | 550036 |
|  | A 26/1 | Nipple wrench 1"G | 550090 |
|  | A 40/2 | Plastic wrench | 560257 |
|  | A 52 | G 3/2" air valve, chromed | 520203 |
|  | - | 1/2" Blind plug | 525602 |

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 |



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

| Description | Colour White - Chrome | Colour Chrome |
|--|-----------------------|---------------|
| | Code | Code |
| Angle valve, iron pipe connection | 8484351 | 8484352 |
| Straight valve, iron pipe connection | 8484361 | 8484362 |
| Angle lockshield valve, iron pipe connection | 8494531 | 8494532 |
| Straight lockshield 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 1/2" connection (Valves supplied without fitting)

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



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

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



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 |



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 |
|-------------------|---------------|
| (Ø int. - Ø ext.) | Code |
| 12 - 16 | 849382212 |
| 13 - 18 | 849382213 |
| 14 - 18 | 849382214 |

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



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

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



THERMOSTATIC HEAD

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

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







ELECTRIC RADIATORS

| | |
|------------|---------|
| eCool ED | page 80 |
| Maniva | page 81 |
| eBlitz GD | page 82 |
| Al-advance | page 83 |
| eGarda | page 84 |



eCool ED

ELECTRIC TOWEL RADIATOR WITH DIGITAL CONTROL



Aluminium alloy body: with low thermal inertia

LCD backlight interface

Daily and weekly programming options

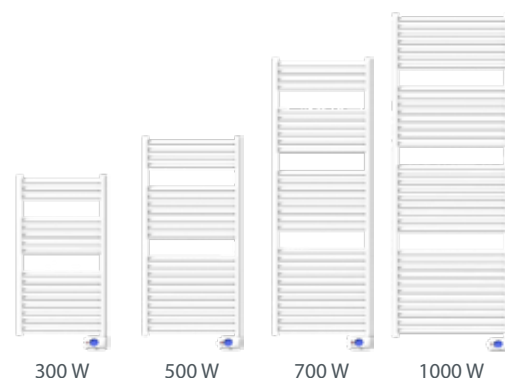
Open window detection function

Child safety lock

Fixing system included

Schuko plug

Anticorrosion internal treatment
Alsternumi provided




CLASSE II



Double isolation



| Model | Code | Power | Voltage | Frequency | Length | Height | Depth |
|-------------|------------|-------|---------|-----------|--------|--------|-------|
| | | W | V | Hz | mm | mm | mm |
| 300 | FCA0M1YD30 | 300 | 230 | 50/60 | 478 | 933 | 45 |
| 500 | FCA0M1YD50 | 500 | 230 | 50/60 | 528 | 1143 | 45 |
| 700 | FCA0M1YD70 | 700 | 230 | 50/60 | 528 | 1563 | 45 |
| 1000 | FCA0M1YDA0 | 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 |

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

Maniva

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



Excellent weight/power ratio

Aluminium alloy body:

- quickly reaches the desired temperature

Light and easy to install

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

Energy saving:

- Open window detection function
- consumption display

Child safety lock



CLASSE II



Double isolation



| Model | Code | Power | Sections | Voltage | Frequency | Length | Height | Depth |
|-------|------------|-------|----------|---------|-----------|--------|--------|-------|
| | | W | no. | V | Hz | mm | mm | mm |
| 3110 | FMD0M1EDA7 | 1000 | 7 | 230 | 50/60 | 605 | 427 | 97 |
| 3115 | FMD0M1EDFC | 1500 | 12 | 230 | 50/60 | 1005 | 427 | 97 |
| 3118 | FMD0M1EDID | 1800 | 13 | 230 | 50/60 | 1085 | 427 | 97 |
| 5807 | FME0M1ED74 | 700 | 4 | 230 | 50/60 | 365 | 578 | 80 |
| 5810 | FME0M1EDA6 | 1000 | 6 | 230 | 50/60 | 525 | 578 | 80 |
| 5812 | FME0M1EDC9 | 1200 | 9 | 230 | 50/60 | 765 | 578 | 80 |
| 5815 | FME0M1EDFA | 1500 | 10 | 230 | 50/60 | 845 | 578 | 80 |
| 5818 | FME0M1EDIC | 1800 | 12 | 230 | 50/60 | 1120 | 578 | 80 |
| 5820 | FME0M1EDKE | 2000 | 14 | 230 | 50/60 | 1280 | 578 | 80 |

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

eBlitz GD

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



Aluminium alloy body:

- quickly reaches the desired temperature

Unalterable over time thanks to aluminum sides

Backlight LCD interface incorporated

NTC temperature probe and electronic temperature regulation

In order to optimise consumption, the radiator provides:

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

Safety:

- Keyboard lock
- Power and surface temperature reduction



CLASSE II



Double isolation



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



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

| Model | Code | Power | Sections | Voltage | Frequency | Length | Height | Depth |
|-------|------------|-------|----------|---------|-----------|--------|--------|-------|
| | | W | no. | V | Hz | mm | mm | mm |
| 5806 | FBE0M1FD65 | 600 | 5 | 230 | 50/60 | 560 | 578 | 80 |
| 5810 | FBE0M1FDA6 | 1000 | 6 | 230 | 50/60 | 640 | 578 | 80 |
| 5812 | FBE0M1FDC9 | 1200 | 9 | 230 | 50/60 | 880 | 578 | 80 |
| 5815 | FBE0M1FDFA | 1500 | 10 | 230 | 50/60 | 960 | 578 | 80 |
| 5818 | FBE0M1FDIC | 1800 | 12 | 230 | 50/60 | 1120 | 578 | 80 |

All models eBlitz GD are guaranteed **2 years** for electrical components, **10 years** on aluminium body from the installation date against manufacturing defects.

Al-advance

DRY INERTIAL ELECTRICAL RADIATOR



Aluminium alloy body:

- quickly reaches the desired temperature

Backlight LCD interface incorporated

Open window detection function

NTC temperature probe and electronic temperature regulation

Daily and weekly programming options

Safety:

- Keyboard lock



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



CLASSE II



Double isolation



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



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



Pilot wire

| Model | Code | Power | Sections | Voltage | Frequency | Length | Height | Depth |
|---------------|------------|-------|----------|---------|-----------|--------|--------|-------|
| | | W | no. | V | Hz | mm | mm | mm |
| GDSM10 | FAE0M3FDA6 | 1000 | 6 | 230 | 50/60 | 640 | 578 | 97 |
| GDSM15 | FAE0M3FDF9 | 1500 | 9 | 230 | 50/60 | 880 | 578 | 97 |
| GDSM20 | FAE0M3FDKB | 2000 | 11 | 230 | 50/60 | 1040 | 578 | 97 |

All models **Al-advance** are guaranteed **2 years** for electrical components, **10 years** on aluminium body from the installation date against manufacturing defects.

eGarda

FLUID FILLED ELECTRIC RADIATORS



Aluminium alloy 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

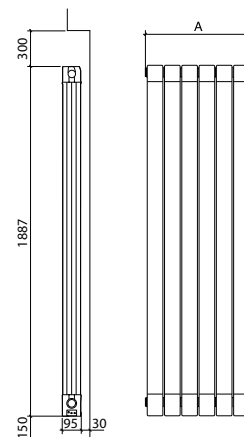


CE



Pilot wire

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





MEASURES EXPRESSED IN MILLIMETRES

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

| Model | Sections | Length | Height | Depth | Net weight | Gross weight |
|-----------------|----------|--------|--------|-------|------------|--------------|
| | no. | mm | mm | mm | kg | kg |
| 1500 W | 4 | 340 | 1887 | 95 | 17.5 | 20 |
| 2000 W | 6 | 500 | 1887 | 95 | 25.5 | 29 |
| N 1500 W | 4 | 340 | 1887 | 95 | 17.5 | 20 |
| N 2000 W | 6 | 500 | 1887 | 95 | 25.5 | 29 |

INCLUDED IN THE PACKAGE

| Item | Description |
|--|--|
|  | Fixing system |
|  | Remote control with batteries included |





CONVECTIVE GAS STOVES

Gazelle Evo

page 88



Gazelle

EVO



Seasonal energy efficiency class A

Heat exchanger body made of die-cast aluminium with heat reducer

User interface with encoder, four buttons, large and backlit LC display

Premix burner with electronic ignition

Fans with brushless motor and high efficiency

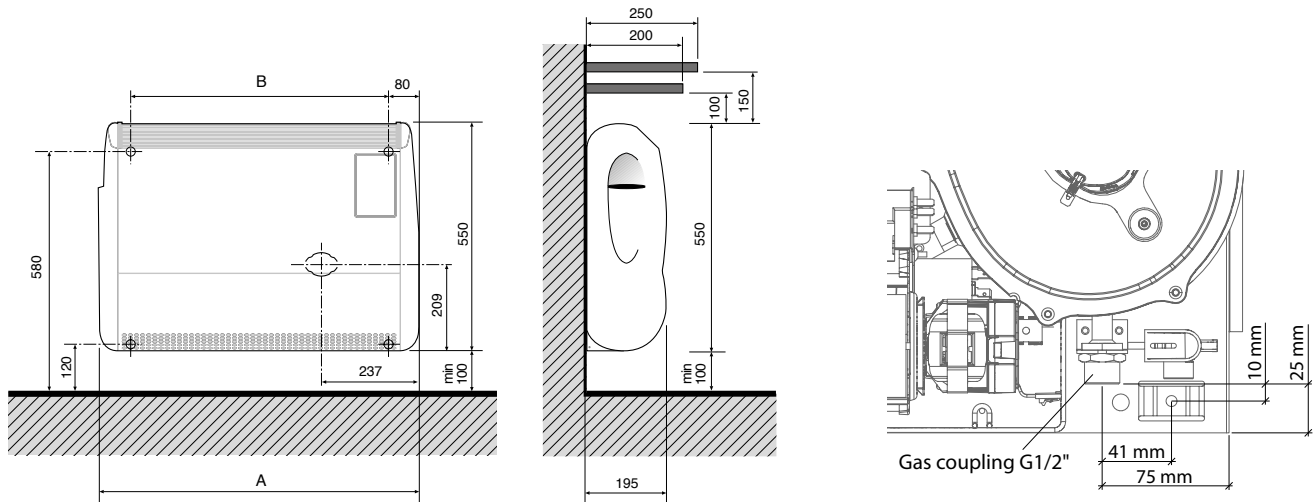
Maximum power consumption $\leq 30W$

Possibility to connect a remote controller (optional)

Temperature probe complementary (optional)



Available in the following models:
3000 - 5000 - 7000



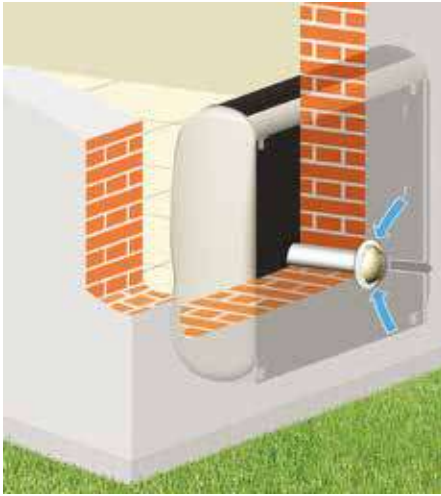
MEASURES EXPRESSED IN MILLIMETRES

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

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

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

EXAMPLES OF PIPING APPLICATION FOR AIR INTAKE AND FLUE GAS OUTLET



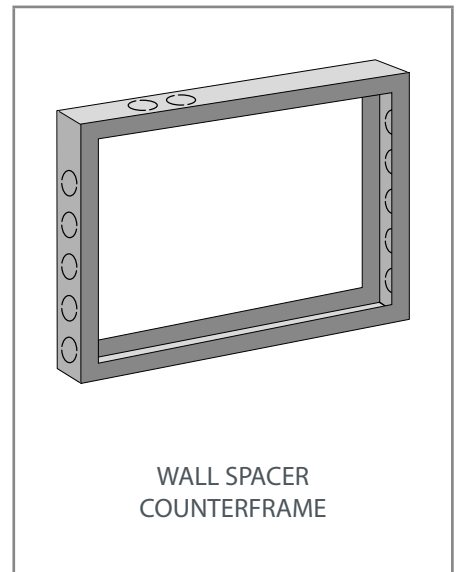
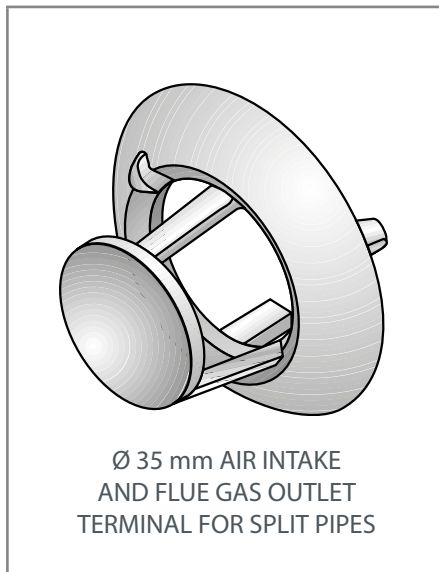
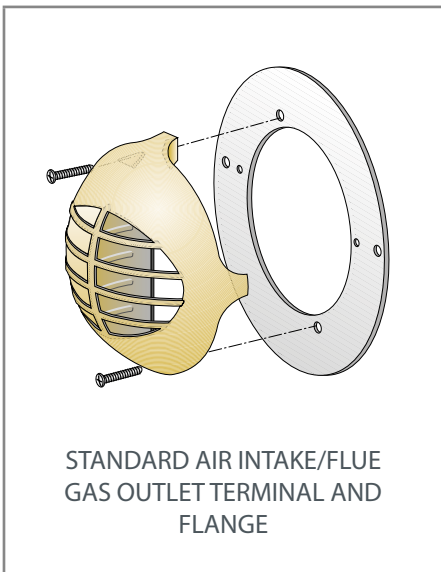
TYPE C 13



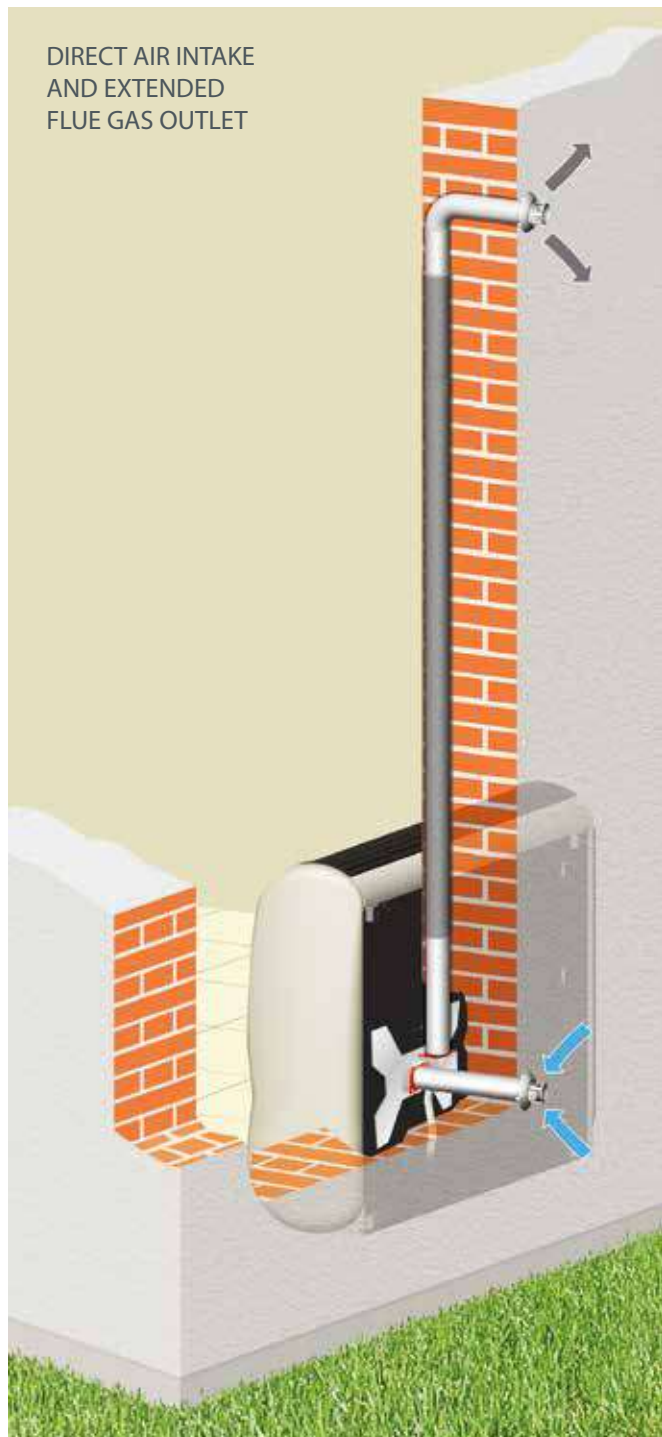
TYPE C 53



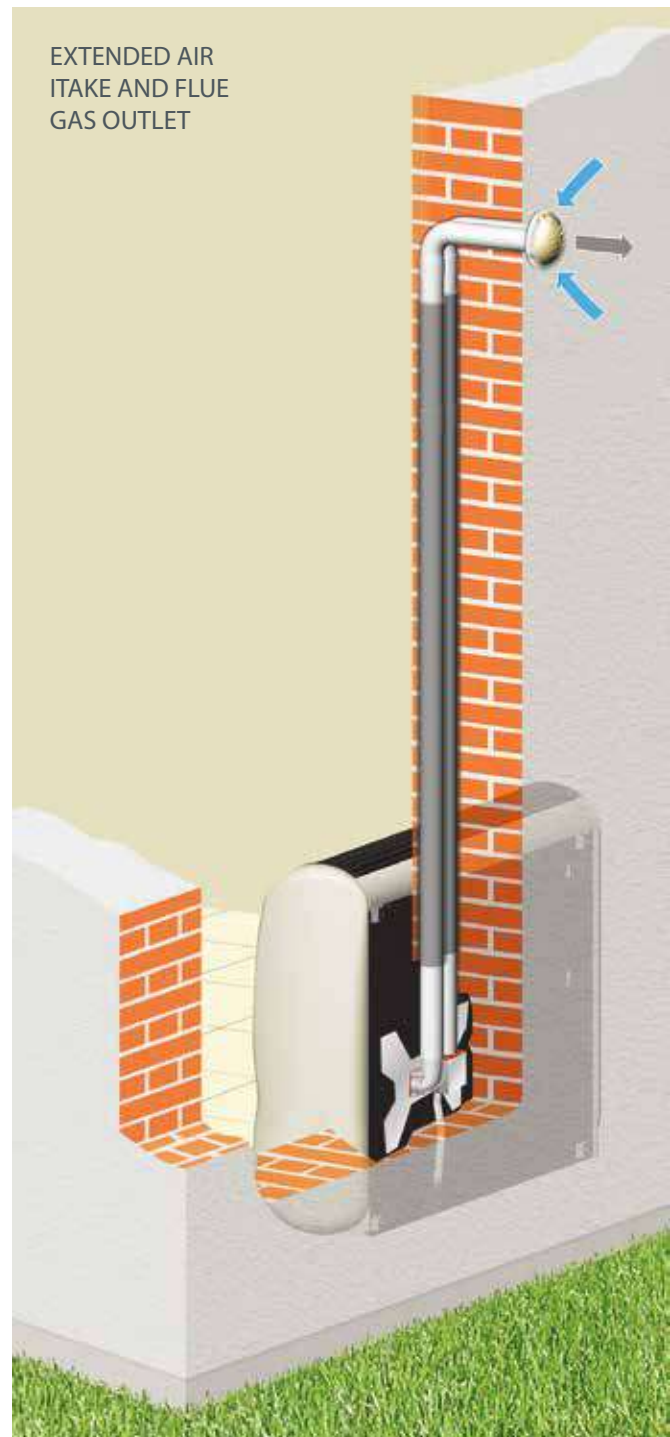
TYPE C 53



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



TYPE C 53



TYPE C 53

The given examples are purely indicative.
Note: Properly insulate the flue gas outlets and install a condensate drain where needed.



Length of the pipes for air intake and flue gas outlet

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

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

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

Tab. 1

(*) air intake + flue gas outlet

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

(***) see page 90 and 91.

ATTENTION:

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

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

Load loss through pipes of exclusively diameter 35 mm

| Description | Code | 3000 | | 5000 | | 7000 | |
|--|------------|------|-----|------|-----|------|-----|
| | | A | F | A | F | A | F |
| | | m | m | m | m | m | m |
| Wall safety grid for terminal | 6Y41309000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Single wall terminal for Ø 35 mm | 6YTERSDO00 | 0 | 0,5 | 0 | 0,5 | 0 | 0,5 |
| Adapter for split flue gas outlet (semicircle / Ø 35 mm) | 6YRIDSDO00 | 0 | 0 | 0 | 0 | 0 | 0 |
| Starting elbow for split flue gas outlet Ø 35 mm | 6YCURSDO00 | 0,5 | 1 | 0,5 | 1 | 0,5 | 1 |
| Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White | 6YTUBSDO13 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |
| Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White | 6YTUBSDO00 | 0,5 | 1 | 0,5 | 1 | 0,5 | 1 |
| 90° elbow for Ø 35 mm tube. M/F - Colour: White | 6YCURSDO05 | 0 | 0 | 0 | 0,5 | 0 | 0,5 |
| Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White | 6YSCACON00 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White | 6YTUBSDO02 | 0,5 | 1 | 0,5 | 1 | 0,5 | 1 |
| Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) | 6YSCACON05 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals) | 6YMANSCA00 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals) | 6YSCACON06 | 0,5 | 1 | 0,5 | 1 | 0,5 | 1 |

Tab. 2

A = air intake

F = flue gas outlet

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

| Description | Code | 3000 | | 5000 | | 7000 | |
|--|------------|------|------|------|------|------|------|
| | | A | F | A | F | A | F |
| | | m | m | m | m | m | m |
| Adapter for split flue gas outlet (semicircle / Ø 35 mm) | 6YRIDSDO00 | 0 | 0,5 | 0,5 | 0,5 | 0 | 0,5 |
| Starting elbow for split flue gas outlet Ø 35 mm | 6YCUSD000 | 8 | 13,5 | 11,5 | 21 | 7,5 | 14 |
| Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White | 6YTUBSDO13 | 4 | 7,5 | 5 | 10 | 3 | 6,5 |
| Ø 35 mm double socket-and-spigot pipe length 1 m M/F - Colour: White | 6YTUBSDO00 | 8,5 | 15 | 10 | 20,5 | 6,5 | 12,5 |
| 90° elbow for Ø 35 mm tube. M/F - Colour: White | 6YCUSD005 | 2 | 3,5 | 3 | 5 | 2 | 3,5 |
| Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White | 6YSCACON00 | 1,5 | 3 | 2 | 4 | 1,5 | 2,5 |
| Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White | 6YTUBSDO02 | 9,5 | 16,5 | 12 | 23,5 | 7,5 | 15 |
| Ø 60 mm ÷ Ø 35 mm F/M adapter - Colour: White | 6YRIDSDO03 | 0 | 5,5 | 0 | 8,5 | 0 | 5,5 |
| Ø 60 mm ÷ Ø 35 mm F/F adapter - Colour: White | 6YRIDSDO01 | 0 | 5,5 | 0 | 8,5 | 0 | 5,5 |
| Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) | 6YSCACON05 | 0,5 | 1 | 0,5 | 1,5 | 0,5 | 1 |
| Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals) | 6YMANSCA00 | 0 | 0,5 | 0,5 | 0,5 | 0 | 0,5 |
| 90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals) | 6YSCACON06 | 8 | 13,5 | 11,5 | 21 | 7,5 | 14 |
| Ø 60 mm pipe length 0.25 m M/F - Colour: White | 6YTUBSDO05 | 0 | 0,5 | 0 | 0,5 | 0 | 0,5 |
| Ø 60 mm pipe length 0.50 m M/F - Colour: White | 6YTUBSDO07 | 0 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |
| Ø 60 mm pipe length 1.00 m M/F - Colour: White | 6YTUBSDO09 | 0,5 | 1 | 1 | 1 | 0,5 | 1 |
| Ø 60 mm pipe length 2.00 m M/F - Colour: White | 6YTUBSDO11 | 1 | 2 | 1,5 | 2 | 1 | 2 |
| Ø 60 mm, 90° elbow for pipe M/F - Colour: White | 6YCUSD001 | 0,5 | 1 | 1 | 2 | 0,5 | 1,5 |
| Ø 60 mm, 45° elbow for pipe M/F - Colour: White | 6YCUSD003 | 0,5 | 1 | 1 | 1,5 | 0,5 | 1 |
| Ø 60 mm condensate flue gas outlet M/F - Colour: White | 6YSCACON02 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ø 60 mm air intake or flue gas outlet brace terminal, F (aluminium) | 6YTERCON00 | 2,5 | 2,5 | 3,5 | 4 | 2,5 | 2,5 |
| Ø 60 mm upright flue gas terminal, F (aluminium) | 6YTERSCA00 | - | 2 | - | 3 | - | 2 |
| Single wall terminal for Ø 35 mm | 6YTERSDO00 | 0 | 7 | 0 | 11 | 0 | 7,5 |

Tab. 3

A = air intake

F = flue gas outlet

CALCULATION EXAMPLE

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

Gazelle EVO 5000

Split air intake and flue gas outlet pipes Ø 35 mm and Ø 60 mm

Direct air intake behind the appliance

Roof flue gas outlet with pipe length 3 meters

Maximum length allowed: 100 meters

Air intake load loss

Adapter for split flue gas outlet (semicircle / Ø 35 mm): 0,5 m

Ø 35 mm double pipe length 30 cm: $10 \times 0,30 \text{ m} = 3,0 \text{ m}$

Single wall terminal for Ø 35 mm: 0,0 m

Total air intake load loss: 3,5 m

Flue gas outlet load loss

Adapter for split flue gas outlet (semicircle / Ø 35 mm): 0,5 m

Ø 35 mm double pipe length 35 cm: $20,5 \times 0,35 \text{ m} = 7,2 \text{ m}$

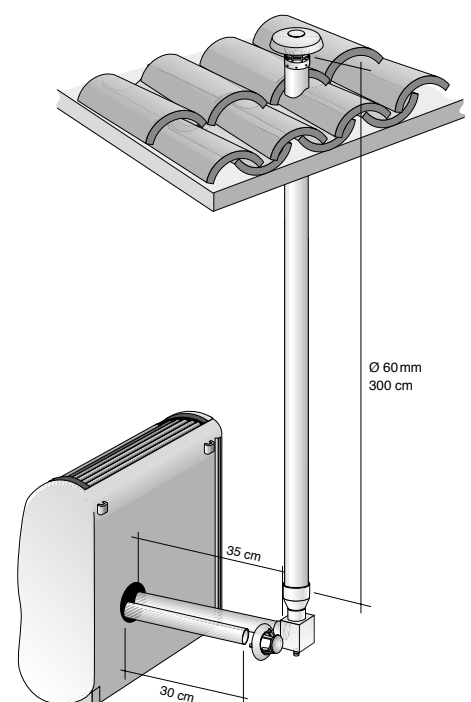
Ø 35 mm, 90° F/F condensate drain for vertical pipes: 21,0 m






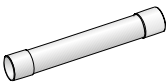

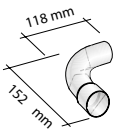
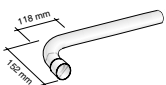



Ø 60 mm ÷ Ø 35 mm F/M adapter: 8,5 m




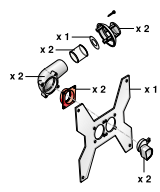




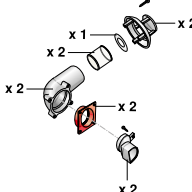
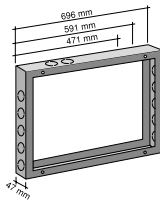
Ø 60 mm pipe length 1 m M/F x 3: $3 \times 1 \text{ m} = 3,0 \text{ m}$










Ø 60 mm upright flue gas terminal, F: 3,0 m

Total flue gas outlet loss: 43,2 m





Total (air intake + outlet): $3,5 \text{ m} + 43,2 \text{ m} = 46,7 \text{ m}$ $46,7 \text{ m} < 100 \text{ m} \rightarrow$ ALLOWED SOLUTION

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

| Item | Description | Pack | Code |
|---|---|--------|------------|
|  A | Ø 35 mm appliance/adaptor seal for pipe | 10 pc. | 6YGUASDO00 |
|  B | Ø 35 mm external seal for connecting pipes | 10 pc. | 6YGUASDO02 |
|  C | Ø 35 mm adapter/elbow seal | 10 pc. | 6YGUASDO04 |
|  | <p>Ø 35 mm split pipe kit with supporting bracket for in-wall pipes</p> <p>The kit includes:</p> <ul style="list-style-type: none"> N° 1 supporting bracket N° 2 starting elbows for split flue gas outlet N° 2 adapters for split flue gas outlet N° 2 single Ø 35 mm flue gas terminals N° 1 air shutter - N° 2 A-type seals N° 2 B-type seals - N° 2 C-type seals N° 8 3,9 x 9,5 screws N° 2 3,9 x 9,5 screws for terminal fixing N° 4 dowels | 1 pc. | 6YKITSDO01 |
|  | Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) | 1 pc. | 6YSCACON05 |
|  | 90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals) | 1 pc. | 6YSCACON06 |
|  | Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals) | 2 pc. | 6YMANSCA00 |
|  | Supporting bracket (with screws and dowels) | 1 pc. | 6YPIAMUR00 |
|  | <p>split pipe kit Ø 35 mm</p> <p>The kit includes:</p> <ul style="list-style-type: none"> N° 2 adapters - N° 2 starting elbows N° 1 air diaphragm N° 2 B-type seals for connecting pipes N° 2 Ø 35 mm single flue gas terminals N° 6 screws - N° 2 fixing brackets | 1 pc. | 6YKITSDO00 |
|  | Counterframe for split outlet (mod. 3000) | 1 pc. | 6YTELAI003 |
| | Counterframe for split outlet (mod. 5000) | 1 pc. | 6YTELAI004 |
| | Counterframe for split outlet (mod. 7000) | 1 pc. | 6YTELAI005 |

| Item | Description | Pack | Code |
|---|---|--------|------------|
|  | Ø 60 mm pipe length 0.25 m M/F - Colour: White | 6 pc. | 6YTUBSDO05 |
| | Ø 60 mm pipe length 0.50 m M/F - Colour: White | 6 pc. | 6YTUBSDO07 |
| | Ø 60 mm pipe length 1.00 m M/F - Colour: White | 6 pc. | 6YTUBSDO09 |
| | Ø 60 mm pipe length 1.00 m M/F - Colour: White | 1 pc. | 6YTUBSDO99 |
| | Ø 60 mm pipe length 2.00 m M/F - Colour: White | 6 pc. | 6YTUBSDO11 |
|  | Ø 60 mm, 90° elbow for pipe M/F - Colour: White | 4 pc. | 6YCURSDO01 |
| | Ø 60 mm, 90° elbow for pipe M/F - Colour: White | 1 pc. | 6YCURSDO91 |
|  | Ø 60 mm, 45° elbow for pipe M/F - Colour: White | 4 pc. | 6YCURSDO03 |
| | Ø 60 mm, 45° elbow for pipe M/F - Colour: White | 1 pc. | 6YCURSDO93 |
|  | Ø 60 mm condensate flue gas outlet M/F - Colour: White | 2 pc. | 6YSCACON02 |
|  | Ø 60 mm air intake or flue gas outlet brace terminal, F (aluminium) | 2 pc. | 6YTERCON00 |
|  | Ø 60 mm upright flue gas terminal, F (aluminium) | 2 pc. | 6YTERSCA00 |
|  | Ø 60 mm pipe clip - Colour: White | 10 pc. | 6YCOLSCA00 |
|  | Remote control, ErP V class (118x85x32 mm) | - | 0CREMOTO04 |
|  | Ambient temperature probe (12x12x20 mm, with 50cm cable) | - | 0KITSAMB00 |

INCLUDED ACCESSORIES

| Item | Description | Pack | Code |
|---|--|-------|------------|
|  | Air intake/flue gas outlet terminal flange | 1 pc. | 6YLAMTER00 |
|  | Standard pipe, length 59 cm | 2 pc. | 6YTUBOAL00 |
|  | Plastic terminal | 1 pc. | 6YTERMIN02 |
|  | Installation kit | 1 pc. | 6YKITIST37 |

Aleternum®: anti-corrosion treatment for radiators

Aleternum®

> Introduction



Aleternum®
internal coating by **Fondital**

Corrosion is the primary cause of malfunctions in heating systems. Not only does it deteriorate the components of the system, but over the years corrosion significantly reduces efficiency, increasing consumption and, as a result, operating costs. For example, corrosion in a heating system containing cast iron or steel radiators produces a sludge that accumulates at the bottom of the radiators, obstructing the radiators themselves and the pipes, resulting in a partial or total loss in thermal performance and uneven heat distribution.

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

To stop corrosion even before it starts, Fondital has developed

Aleternum®, an exclusive resin-based internal coating to protect the radiator water chamber.

Aleternum® by Fondital brings the heating system into a new era, in which total* protection is a guarantee of safety and high efficiency.

Your heating system will always be as good as new!

> What is corrosion?



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

Metal + Water + Oxidant = Corrosion

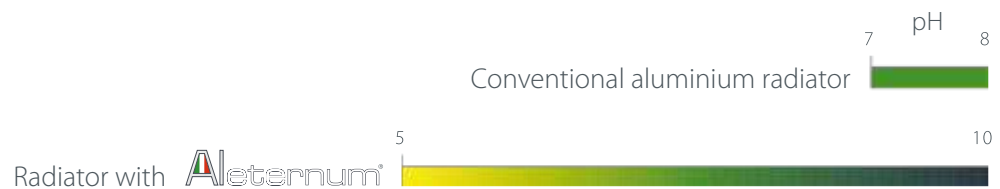
Depending on the part of the metal affected, corrosion is classified as follows:

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

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

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

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



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

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

THERMOELECTRICALLY-WELDED CAP

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

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

TRADITIONAL CAP



THERMOELECTRICALLY-WELDED CAP



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

RADIATOR SIZING AND INSTALLATION

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

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

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

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

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

CALIDOR SUPER B4 500/100 radiator with water temperature: inlet 60 °C, outlet 44 °C and ambient temperature of 20 °C.

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

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

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;
- As regards treating water in domestic heating systems, it is advisable to use specific products that are suitable for multimetal plants, in order to optimize performance and safety, preserve these conditions over time, ensure regular operation of auxiliary equipment as well, and minimize energy consumption, in compliance with the applicable laws and standards. Compliance with this standard is a legal requirement. Use specific products suitable for multi-metal systems such as, for example, CILLIT HS 23 Combi, SENTINEL X 100 or FERNOX F1.
- 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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COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001:2015 =