

**ferroli**



**Tal**

Extruded aluminium radiators



# TAL: HIGH-PERFORMANCE ELEGANT DESIGN



Extruded aluminium radiators with high radiating power, plain and linear design, high thermal emissions and low inertia (which allows the system to reach its full capacity quickly).

They consist of heads in die-cast aluminium and bars in extruded aluminium with special alloys, which ensure high corrosion-resistance while at the same time reducing the radiators weight, thus making installation extremely easy.

The heads undergo a special washing cycle and surface treatment before being painted through anaphoresis. The heads are joined with the bars cut to measure using a specific, high-pressure semiautomatic machine, and are then sealed with a special glue.

**TAL** radiators are assembled in factory exclusively as 2-element - **TAL 2** - or 3-element - **TAL 3** - indivisible modules, each of which is available in 6 different heights, with centre distances ranging from 1000 to 2000 mm. Using nipples and OR components, the modules can be assembled in groups tailored to the needs of the specific system. The modules are tested one by one with a pressure of 13 bar and allow for a maximum working pressure of 10 bar. Each module is painted in white RAL 9010 using epoxy-polyester powders and is then heated in a furnace at a controlled temperature.

**TAL** radiators are reversible upside down (but not front/rear) and may be used both in traditional systems and in single-pipe systems. They are packaged in a plastic bag and then fitted in a cardboard box.

## INSTALLATION AND MAINTENANCE STANDARDS

As a general rule, radiators are connected to the system by installing the water inlet on top and the water outlet at the bottom. If both the water inlet and the water outlet are installed at the bottom on opposite sides, in order to avoid circulation problems and to maximize thermal efficiency we recommend inserting the plastic diaphragm (available as an accessory) between the first and the second element. If single-pipe valves are used, the centre of the diaphragm must be removed in order to insert the probe (see instructions with figures). To ensure maximum thermal performance, make sure that there is a gap of at least ca. 30 mm from the wall, and of at least ca. 120 from the floor. In case of installation in a wall recess, leave at least 100 mm of empty space above the installation.

## ACCESSORIES

- Shelf kit for wall installation
- Nipples and diaphragm kit: one pack includes 2 nipples for connecting 2 groups and the diaphragm needed for installations with single-pipe valves or with water inlet and outlet mounted using bottom fittings

**NOTE:** In order to improve stability, for TAL radiators we recommend using the shelves both on top and at the bottom.





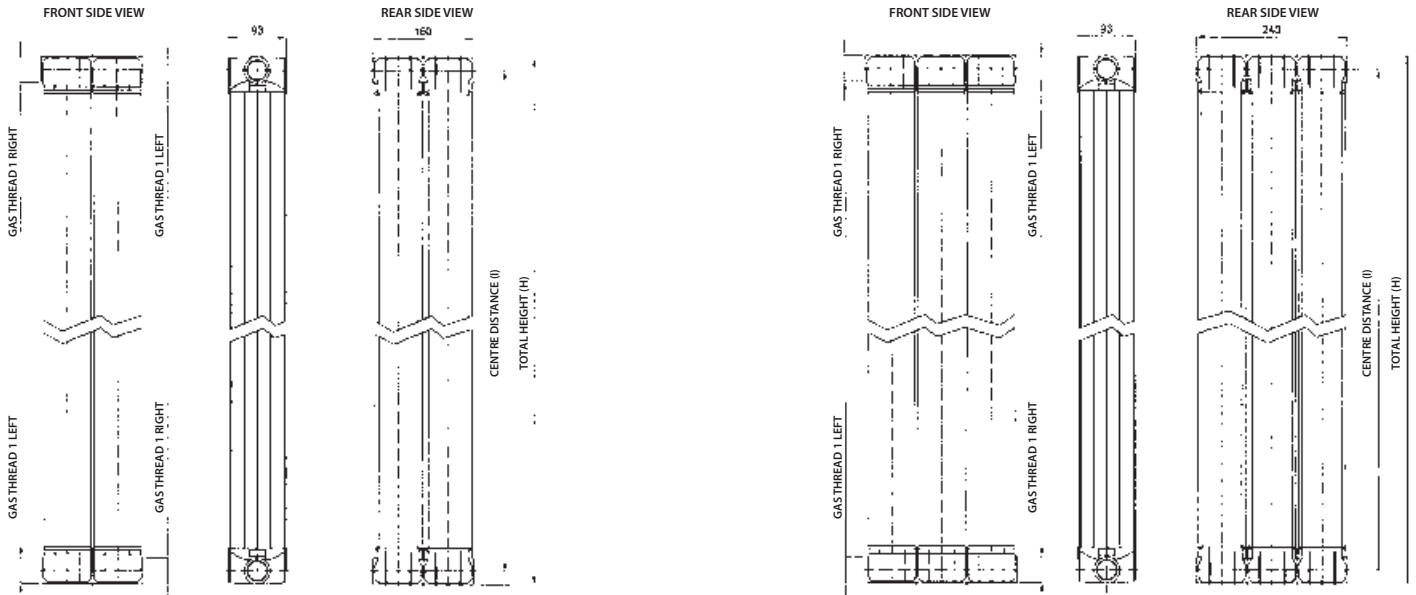
# TECHNICAL DATA

## Dimensions / Summary tables



TAL 2 (2-element module)

TAL 3 (3-element module)



### TECHNICAL DATA

| TAL                                     |                | 1000    | 1200    | 1400    | 1600    | 1800    | 2000    |
|---|----------------|---------|---------|---------|---------|---------|---------|
| Depth                                   | mm             | 93.3    | 93.3    | 93.3    | 93.3    | 93.3    | 93.3    |
| Height H                                | mm             | 1043    | 1243    | 1443    | 1643    | 1843    | 2043    |
| Distance between fittings l             | mm             | 1000    | 1200    | 1400    | 1600    | 1800    | 2000    |
| Width                                   | mm             | 80      | 80      | 80      | 80      | 80      | 80      |
| Water content                           | litri          | 0.48    | 0.55    | 0.64    | 0.71    | 0.79    | 0.87    |
| Weight                                  | kg             | 1.73    | 1.93    | 2.30    | 2.46    | 2.72    | 2.99    |
| Exponent                                | n              | 1.35402 | 1.35582 | 1.35761 | 1.35691 | 1.35621 | 1.35551 |
| Constant                                | K <sub>m</sub> | 0.95279 | 1.08633 | 1.21104 | 1.34110 | 1.46639 | 1.58789 |
| Heat output Δt=50°C according to EN 442 | Watt/element   | 190.3   | 218.5   | 245.3   | 270.9   | 295.4   | 319.0   |

### THERMAL POWER DATA PER GROUP

| THERMAL POWER PER TAL 2 RADIATOR |      | 2-1000 | 2-1200 | 2-1400 | 2-1600 | 2-1800 | 2-2000 |
|----------------------------------|------|--------|--------|--------|--------|--------|--------|
| ΔT=30°C                          | Watt | 190.6  | 218.6  | 245.2  | 271    | 295.6  | 319.2  |
| ΔT=40°C                          | Watt | 281.4  | 323    | 362.4  | 400.2  | 436.6  | 471.4  |
| ΔT=50°C                          | Watt | 380.6  | 437    | 490.6  | 541.8  | 590.8  | 638    |
| THERMAL POWER PER TAL 3 RADIATOR |      | 3-1000 | 3-1200 | 3-1400 | 3-1600 | 3-1800 | 3-2000 |
| ΔT=30°C                          | Watt | 285.9  | 327.9  | 367.8  | 406.5  | 443.4  | 478.8  |
| ΔT=40°C                          | Watt | 422.1  | 484.5  | 543.6  | 600.3  | 654.9  | 707.1  |
| ΔT=50°C                          | Watt | 570.9  | 655.5  | 735.9  | 812.7  | 866.2  | 957    |

Thermal emissions in WATT (according to the EN standards 442 with ΔT=50°C) -  $\phi = K_m \times (\Delta T)^n$

**NOTE:** TAL radiators are covered by a 10-year warranty starting from the date of manufacture stamped on the product.

**The warranty covers:** material or manufacturing defects.

**The warranty does not cover:** flaws or operations on the products performed by installation companies or other personnel who may handle the materials; changes to or tampering with the products by buyers or third parties; maintenance flaws, improper user or failure to observe the installation and maintenance standards specified in the technical and commercial documentation; improper installation and failure to comply with the applicable technical standards.

The aforementioned warranty covers the replacement of faulty components but not labour costs.



**NOTICE FOR SALES AGENTS:**

In view to constantly improve its production range and customer satisfaction levels, the Company hereby specifies that aesthetic and/or dimensional features, specifications and accessories may be subject to changes.

Please place the utmost care to ensure all technical and/or sales documents (lists, catalogues, brochures, etc.) provided to the final Customer are updated according to the latest edition.

**Ferrolì spa**

37047 San Bonifacio (VR) Italy - Via Ritonda 78/A

tel. +39.045.6139411

fax +39.045.6100233

[www.ferrolì.com](http://www.ferrolì.com)

[export@ferrolì.com](mailto:export@ferrolì.com)