lazzarini

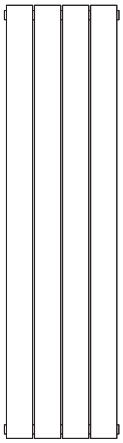
Livorno

Technical sheet

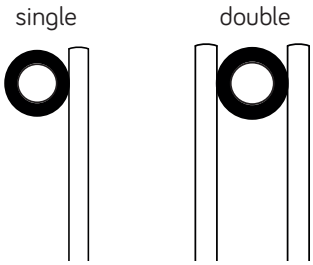
EN EURONORM 442 CE

LIVORNO | lazzarini

h: from 670mm to 2000mm

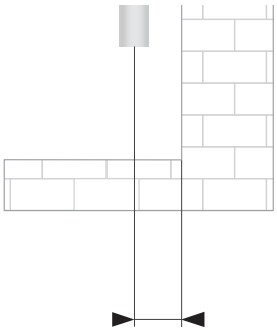


WIDTH: from 309mm to 1059mm
ELEMENTS: from 4 to 14



Description	Single and double
Material	Carbon steel
Pipes - mm	70x11x1,5
Collectors - Ø	35x1,5
Connections	4x1/2' (air bleeding valve connection, included)
Wall fixings	4
Max operating pressure	4 bar
Max operating temperature	90 °C
Paint	Epoxypolyester powder
Standard equipment	1 kit wall fixing brackets - 1 air bleeding valve - 1 blind plug

Connection



single

Vert.	Hor.
55	40

double

Vert.	Hor.
55	81

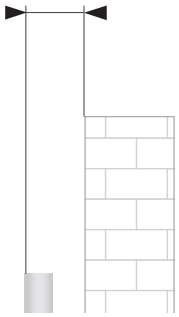
ALSO PERSONALIZED CONNECTIONS (NOT AVAILABLE FOR CHROME). ONLY FOR VERTICAL INSTALLATION

ALSO 50 MM CONNECTIONS (NOT AVAILABLE FOR CHROME). ONLY FOR VERTICAL INSTALLATION

VERTICAL AND HORIZONTAL INSTALLATION*

* In case of horizontal installation, please specify in the order

Wall distance



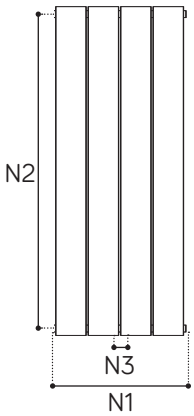
single

Vert.	Hor.
85	65

double

Vert.	Hor.
85	107

Pipe centres

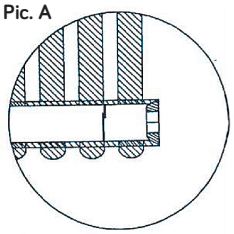


N1 = Please add the pipe centre distance of the valves to N1. (Lazzarini = + 90 mm)
N3 = 50 mm

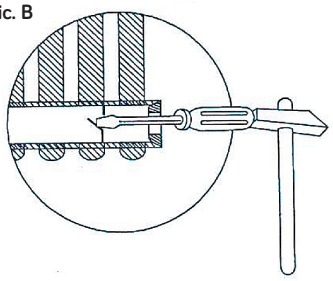
Possible configurations Livorno vertical installation (front view)

1. Each radiator has a closed diverter **(Pic. A)** and it is arranged for configuration 1V.
2. For configurations 3V, 4V, 5V and 6V, the diverter has to be opened using a screwdriver and a hammer **(Pic. B)**.
3. Configuration 2V is available only on demand;
4. Drawings are merely representative.

Pic. A

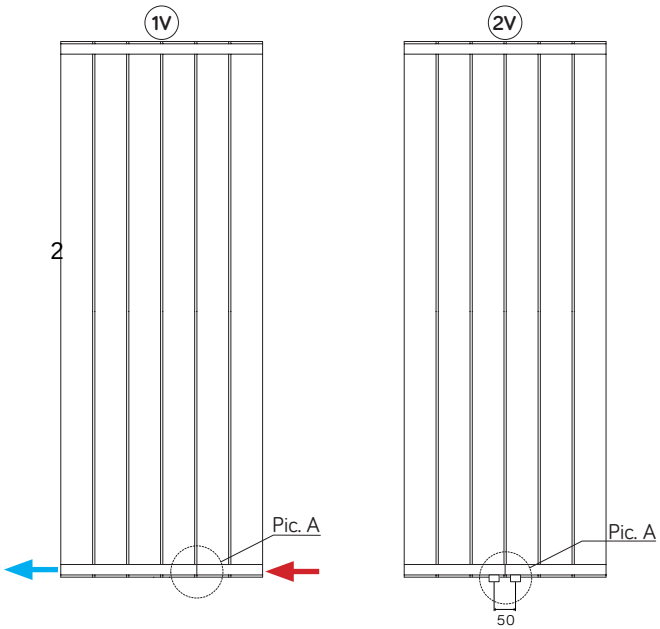


Pic. B

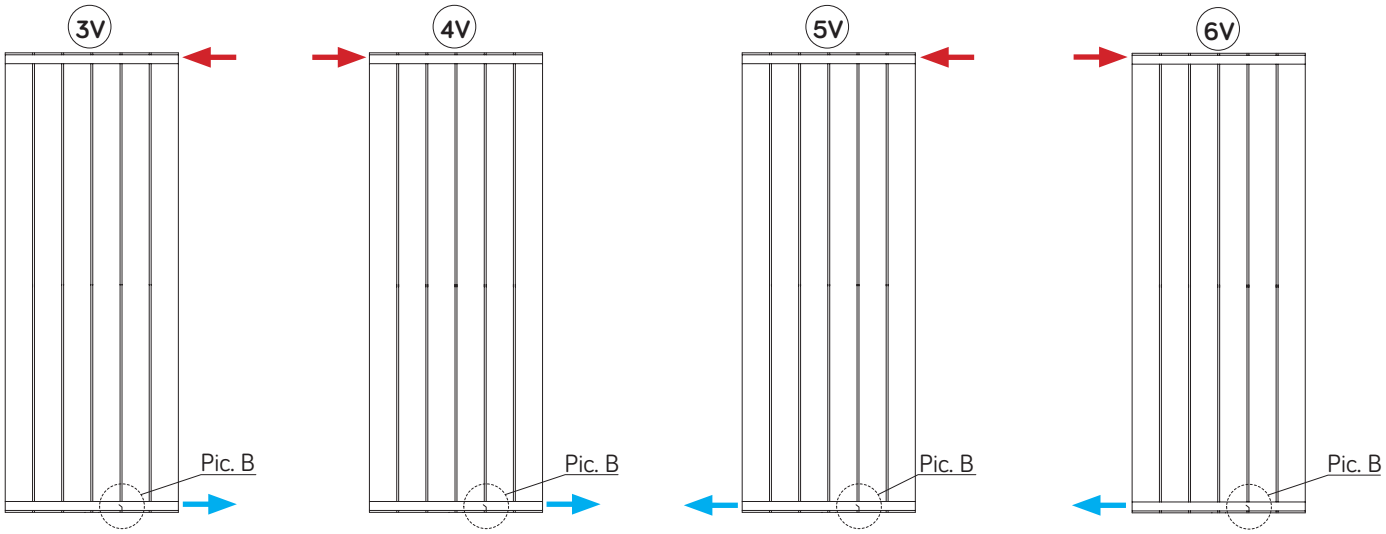


Closed diverter

IN
OUT

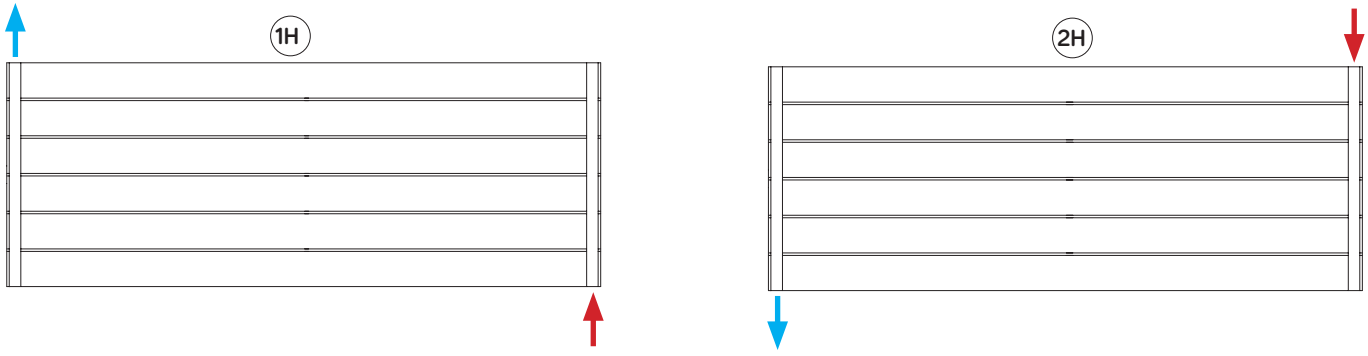


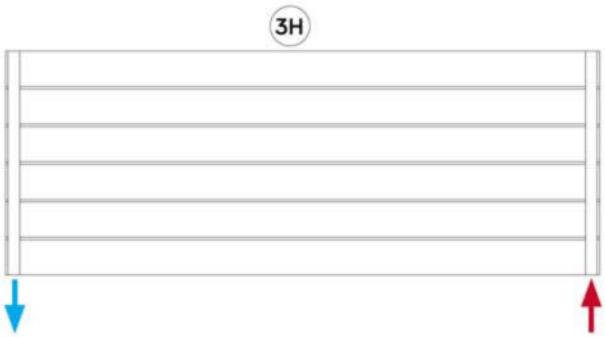
Open diverter

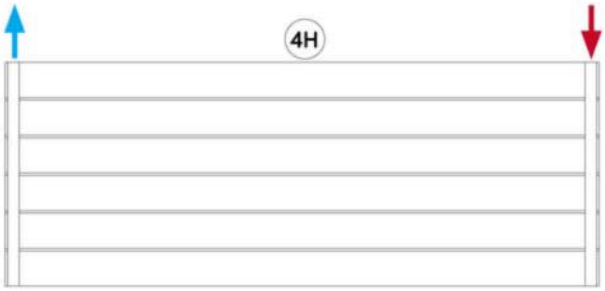


Possible configurations Livorno horizontal installation (front view)

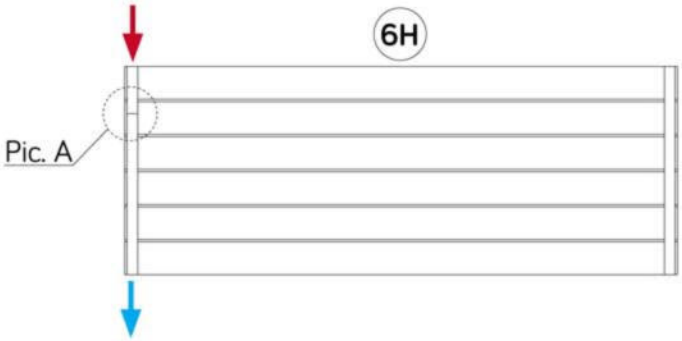
For configurations 1H, 2H, 3H and 4H, there is no need of a diverter inside.







For configurations 5H and 6H a closed diverter is needed (Pic. A).



Chrome - single

Code	Height mm	Width mm	Pipe centre N1 mm	Pipe centre N2 mm	Elements	Weight kg	Water lt	ΔT50 °C Watt	ΔT30 °C Watt	ΔT42,5 °C Watt	ΔT60 °C Watt	Exponent n
386777	1800	309	309	1750	4	132	4,2	354	180	286	451	1,32824

Our radiators are tested in qualified laboratories according to EN-442 regulations which determine the ouput value by fixing the At at 50 °C. At is the difference between the average temperature of the water inside the radiator and the room temperature. The formula is: (((T1+T2)/2)-T3).
Ex.: ((75+65/2)-20)= 50 °C. For output values with a different At use the following formula: ⟨|)x = (|)&T50*(ATx/50)n.
See calculation example of the output at At 60 °C of article 386777: 354*(60/50)l32824= 451.
Output values in kcal/h = watt x 0,85984.
Output values in btu = watt x 3,412.

KEY

T, = supply temperature - T2= return temperature - T3= room temperature.
0x = output to be calculated - ⟨|)At50 = output at At 50 °C (table) - Atx = At value to be calculated - n= exponent "n" (table).