

Aluminium radiator installation guide

5-YEAR WARRANTY

EN 442-2 COMPLIANT

The steps to follow for the safe installation, correct connection and long-lasting, efficient operation of your aluminium radiators.

! WARNING

Aluminium radiators must be connected to heating systems by authorised personnel.

VALVE CONNECTION

G 1/2"

Use chrome- or nickel-plated radiator valves.

INLET WATER PRESSURE

Above 10 bar

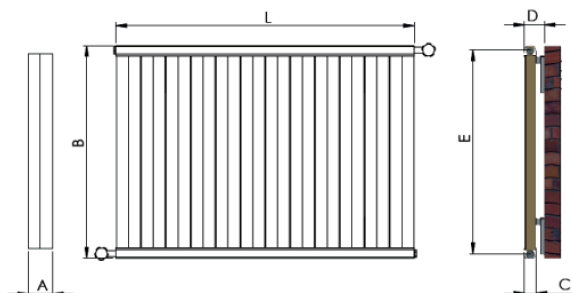
A pressure reducer is required.

SYSTEM WATER

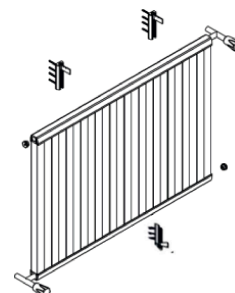
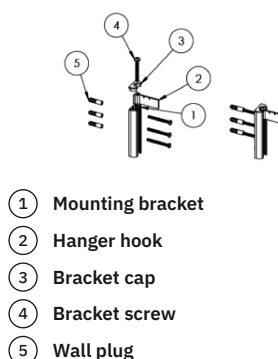
pH 7-8

Hardness max. 25 °fH; never use well water.

DIMENSIONS AND WALL BRACKET INSTALLATION



ALL PARTS REQUIRED FOR INSTALLATION ARE IN THE PACKAGE



1 Before installation

- Aluminium radiators must be installed and commissioned by qualified persons experienced with aluminium radiators, in accordance with the standards governing heating installations and the instructions in this guide.
- Before connecting the radiators, check and clean the entire installation, including the boiler, or have it checked and cleaned, to make sure it is free of construction debris and chemicals. Debris or chemicals in the boiler or pipework can block or damage the radiator's water channels.
- If thermostatic valves are used and your circulation pump has no built-in bypass, one radiator must be connected with a standard valve. When the thermostatic valves of all radiators close, the system bypasses through this radiator.
- A pressure reducer is required in installations where the inlet water pressure exceeds 10 bar.
- The system must be earthed against electrical leakage.
- Check that the hot-water inlet and outlet connections to the radiator are correct. Connections that do not follow installation rules will prevent your radiator from working.
- Install your radiator without removing its plastic packaging. Remove the protective film before use, once all renovation and

painting work is finished. (The first commissioning run may be carried out with the protective film in place.)

- Radiators are easily mounted on the wall with brackets. Radiator valve connections are G 1/2". The radiator valves used must be chrome- or nickel-plated.
- Mark and drill the holes for the brackets according to the hole centre dimensions.
- Insert the plastic wall plugs, then fix the brackets to the wall with the screws.

2 During installation

- Place the radiators on the brackets using the hanging elements on their back.
- After placing the radiator on the brackets, make sure it is level. If the radiator is tilted, some sections will not heat up and the radiator will not work at full efficiency.
- A special valve connection with bottom inlet and outlet is available for aluminium radiators if the connection side is specified with the order. For this connection the flow diverter is fitted during manufacture. Hot water must enter on the outer side and cold water must leave on the inner side; otherwise the radiator will not work efficiently.
- Another connection type that uses a flow diverter is the bottom opposite-end connection. The section gaps where the flow diverter is fitted are shown in the connection types overleaf.

3 Commissioning

- Never use well water in your system, not even for testing the heating system. Do not use water harder than 25 °fH or with a pH outside the 7-8 range (acidic or alkaline).
- After installation, fill the system for the first time, let the water circulate for 5 minutes, then drain it completely to make sure all construction and installation debris has been flushed out.
- Fill the system and heat the radiators; bleed the air from each radiator using the air vent on its corner. Repeat bleeding during the next few heating cycles. If you hear a sound like running water in the radiator, air is still trapped inside; bleed it again.
- Do not add any chemical (inhibitors, antifreeze, pH regulators, scale and bacteria inhibitors, chemicals claimed to increase radiator efficiency, etc.) to the system unless the manufacturer has approved it in writing.

Connection types

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→ Inlet (hot water)

→ Outlet (return)

⊖ Air vent (bleed valve)

▬ Flow diverter

Diagrams are drawn with a representative number of sections.

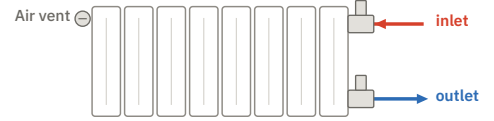
A

Same-side connection

Inlet and outlet on the same side of the radiator.



01 Top-left inlet – bottom-left outlet

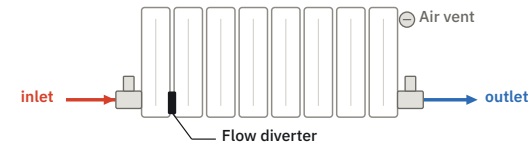


02 Top-right inlet – bottom-right outlet

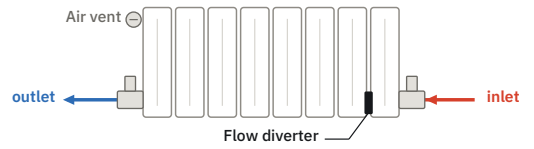
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Bottom opposite-end connection

Inlet and outlet at the bottom, at opposite ends; with a flow diverter.



03 Bottom-left inlet – bottom-right outlet

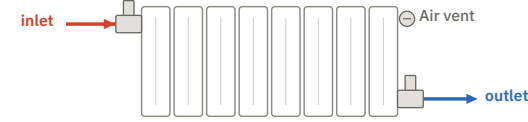


04 Bottom-right inlet – bottom-left outlet

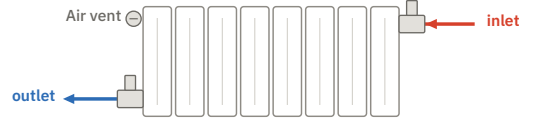
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Diagonal connection

Inlet at the top, outlet at the bottom on the opposite side.



05 Top-left inlet – bottom-right outlet

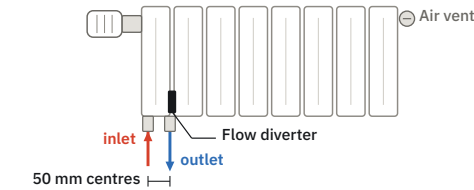


06 Top-right inlet – bottom-left outlet

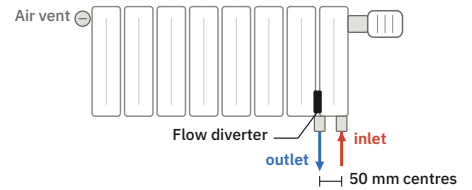
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Compact connection with thermostatic valve

Bottom inlet/outlet, 50 mm centres; inlet on the outer side, outlet on the inner side.



07 Compact connection, left inlet/outlet

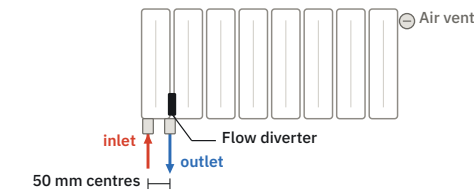


08 Compact connection, right inlet/outlet

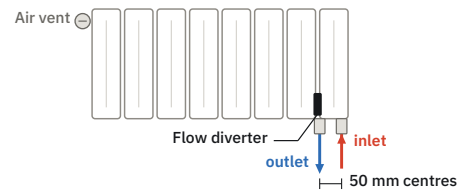
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Compact connection

With mini ball valve or H-valve; 50 mm centres, inlet on the outer side, outlet on the inner side.



09 Compact connection, left inlet/outlet



10 Compact connection, right inlet/outlet

4 Use and care

- Do not drain the system water unless absolutely necessary.
- Check the system (or boiler) filter at regular intervals and clean it if it is clogged. A clogged filter restricts water circulation in the radiators and lowers their efficiency.
- Take the necessary precautions to prevent the system water from freezing; freezing damages the radiator.
- Do not clean your radiator with harsh or abrasive cleaning agents; do not use bleach, hydrochloric acid or similar chemicals. Clean it with a soft, damp cloth. Chemical and abrasive agents damage the paint and anodised layer.

5 Warranty

NOTARAD aluminium radiators carry a 5-year warranty and comply with EN 442-2.

For warranty-covered defects arising in the first 6 months, the company provides labour, courier and technician support. After 6 months, for the rest of the warranty period, the company supplies only parts or, if necessary, a new product; all other labour, service and courier costs are borne by the user.

Not covered by the warranty

- Damage from construction debris or chemicals in the installation
- No pressure reducer (above 10 bar) or no earthing
- Well water, hardness above 25 °fH or pH outside 7–8
- Unapproved chemicals, freezing or abrasive cleaning

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