

jaga

CLIMATE DESIGNERS

MAXI 2020 (ALL MODELS)

**INSTALLATION AND
MAINTENANCE INSTRUCTIONS**
LOW SURFACE TEMPERATURE
RADIATOR FOR HEATING ONLY



Tested in accordance
with EN442

Image: WT model

**UK
CA**

All images and graphics in this document (except where noted) are WT model. WF model has front outlet grille. FT model has front inlet grille. FF model has front inlet and front outlet grille.

CONTENTS

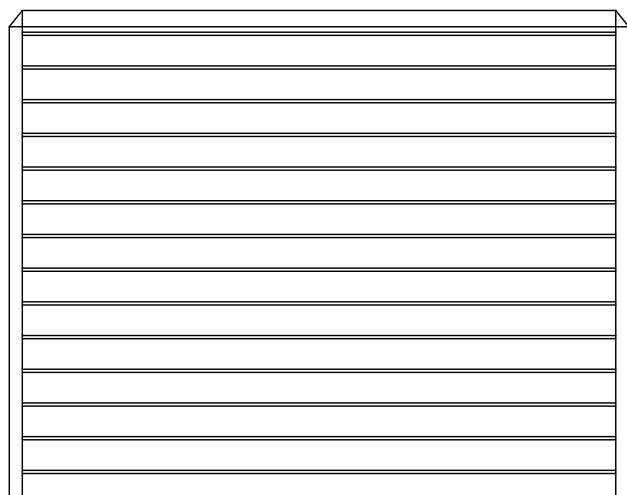
1. INTRODUCTION.....	4
2. COMPONENT PARTS.....	4
3. TOOLS REQUIRED.....	4
4. INSTALLATION.....	5
5. FITTING THE CASING.....	8
6. OPTIONAL EXTRAS	10
7. FURTHER GUIDANCE.....	12
8. FAULT FINDING	13
9. MAINTENANCE	13
10. GUARANTEE	13
11. TERMS & CONDITIONS.....	15

1. INTRODUCTION

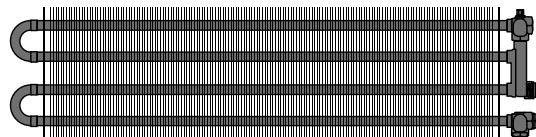
Thank you for choosing our MAXI 2020 low surface temperature radiator. If installed and maintained correctly, it will give you many years of efficient and safe heating.

2. COMPONENT PARTS

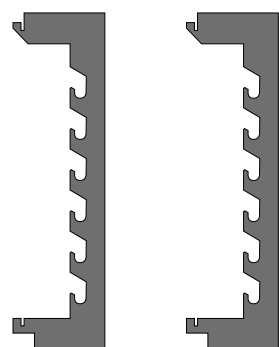
Casing (WT model shown)



Heating Element

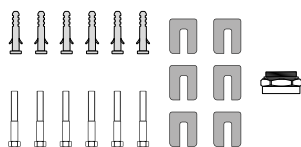


Brackets



For lengths 1430mm and over, a third bracket is supplied

Fixing Pack



Rubber Spacers
(For FT and FF models only)



Extended Air Vent



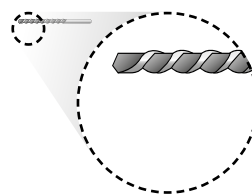
The installation of MAXI 2020 low surface temperature radiators should be in accordance with these installation instructions and the work completed by a competent person.

3. TOOLS REQUIRED

Drill



8mm Masonry Drill Bit



Tape Measure



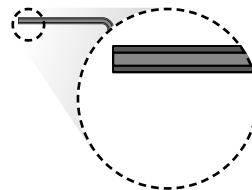
Spanner
(10, 18 and 22mm)



Spirit Level



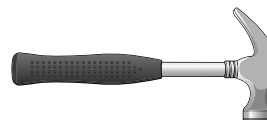
Allen Key (3mm)



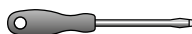
Knife



Hammer



Screwdriver
(flat)



Personal Protection Equipment
(minimum requirement)

Gloves



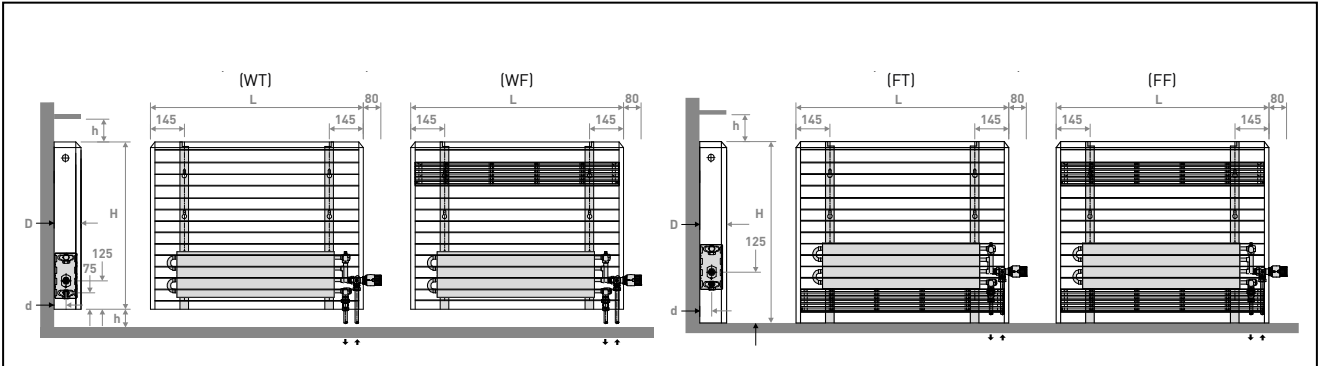
Safety Glasses



4. INSTALLATION

01 Ensure the location facilitates good heat distribution for the room and that the wall and floor is flat and sound.

02



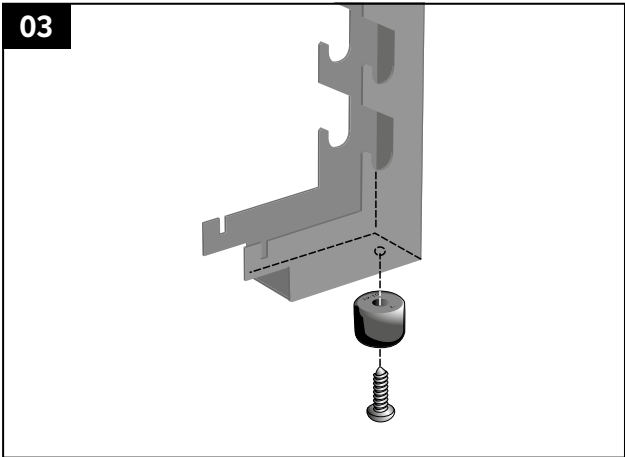
Mark fixing centres on the wall as above.



- Minimum clearance from floor to underside of casing for WT and WF models equals 'h' dimension.
- The supplied fixings are suitable for solid wall construction only. For other wall structures alternative fixings must be used.
- If third bracket is supplied, this is to be fitted centrally between left and right brackets.

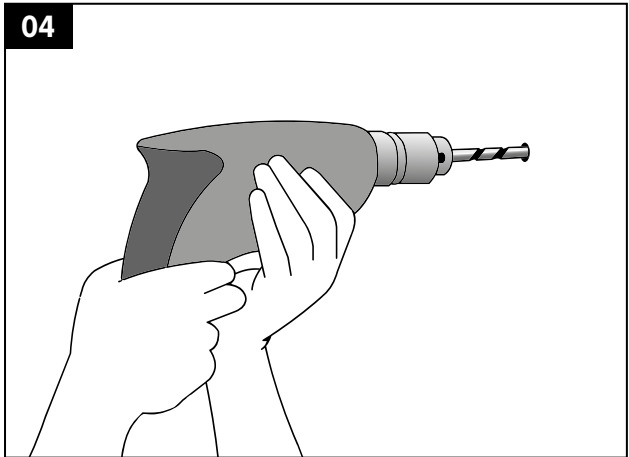
Depth D (mm)	Clearance h (mm)
130	100
180	120
230	150

03



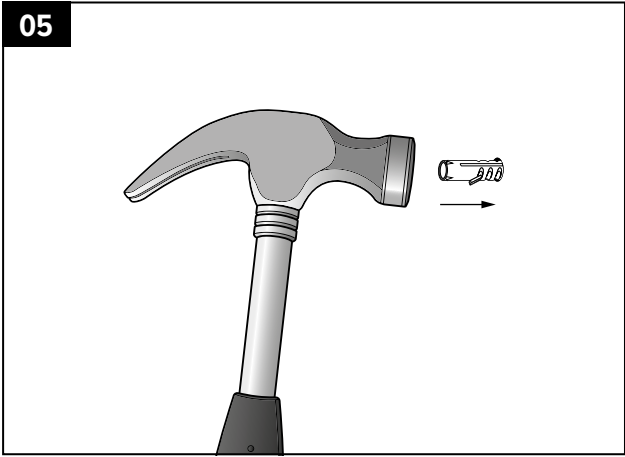
For FT and FF models, fit spacer to bottom of bracket

04



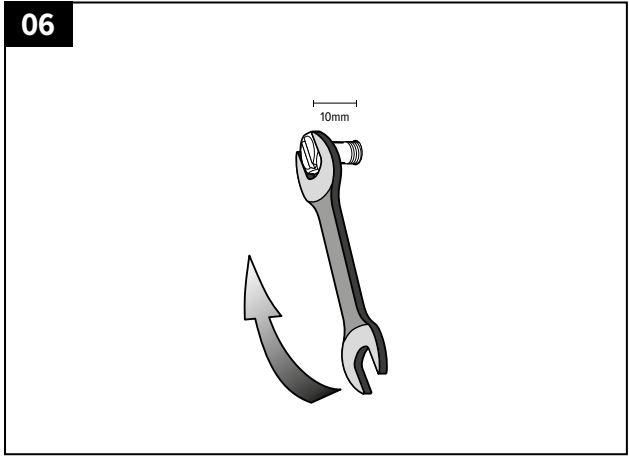
Drill 8mm holes at the marked centres.

05

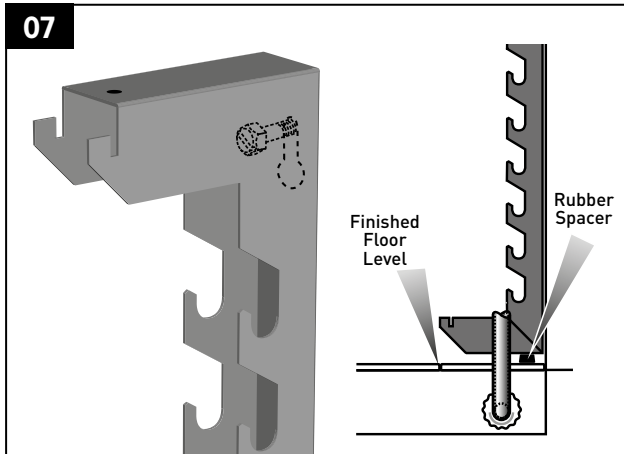


Insert wall plugs into the holes.

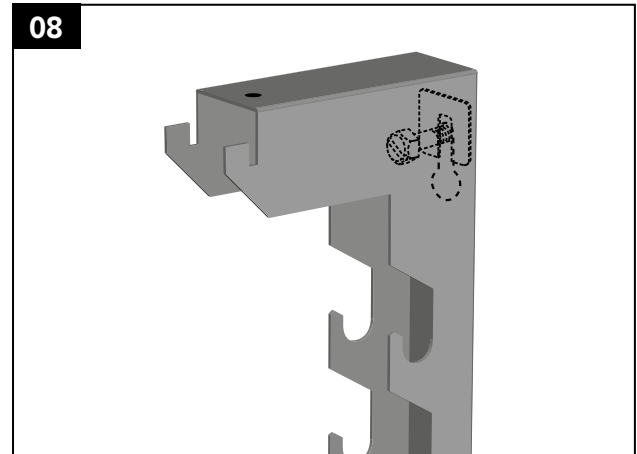
06



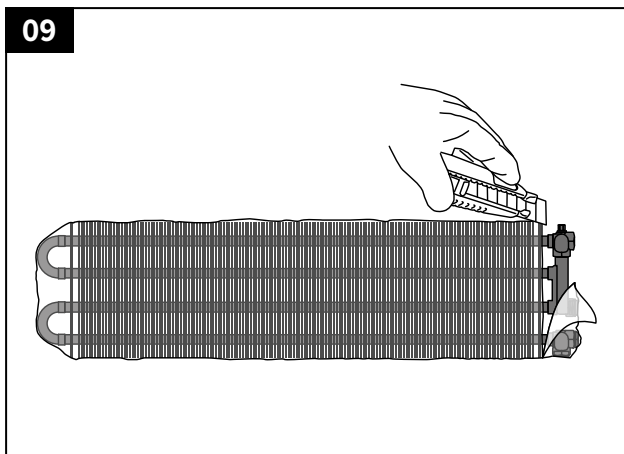
Insert screws and tighten leaving 10mm protruding.



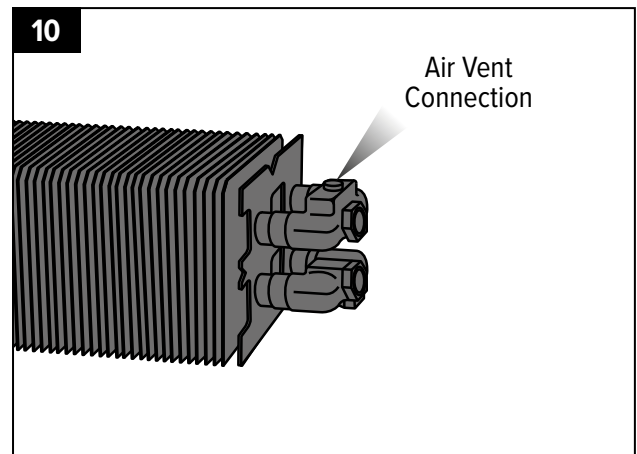
Offer up the brackets to the screws ensuring correct orientation. Make sure the rubber spacer sits on the finished floor for FT and FF models. If the finished floor level is not available on installation, an additional spacer may be required to make up the difference. This does not apply to WT and WF models as the brackets will be mounted above the finished floor level as detailed in 02.



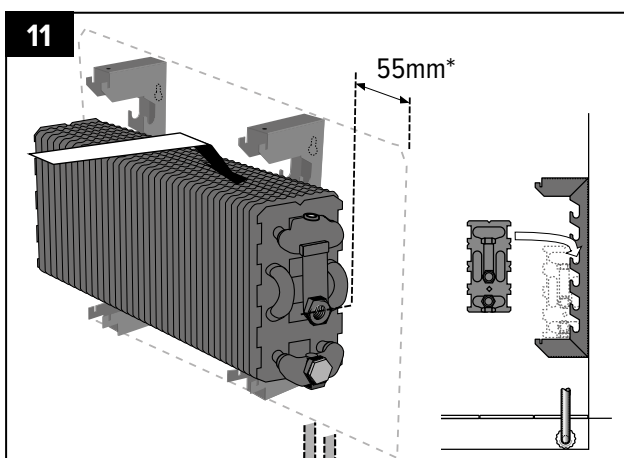
Place the horse shoe washers between the bracket and the screw, then fully tighten using a 10mm spanner.



Take the heating element and remove the protective covering from the connection end only. The rest of the covering can be removed later in the process. Leaving it on at this stage protects the element from building and decoration debris.

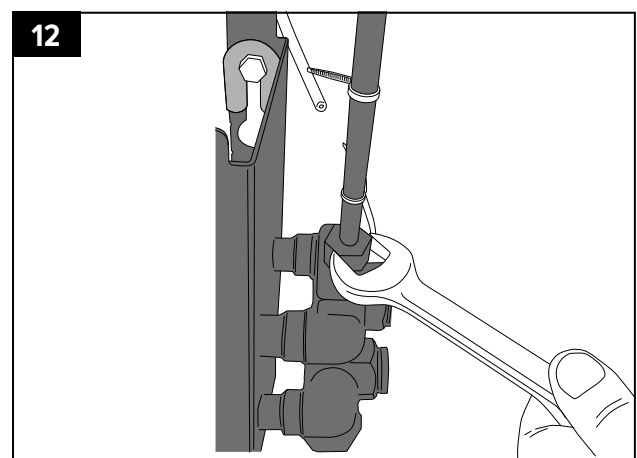


Connection can be either on the left or right hand side, for either option, make sure the 1/8th connection for the air vent is on the top of the heating element.

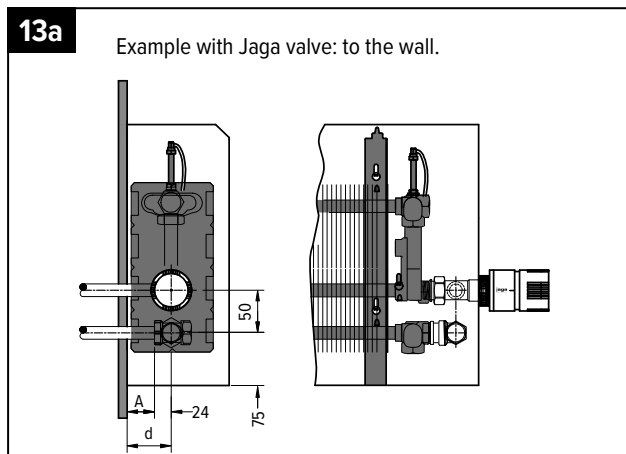


Address the element to the fixing cradle on the bracket. Push the element in and then press firmly down to secure in position. Ensure there is 55mm from the end of element connections to end of casing.

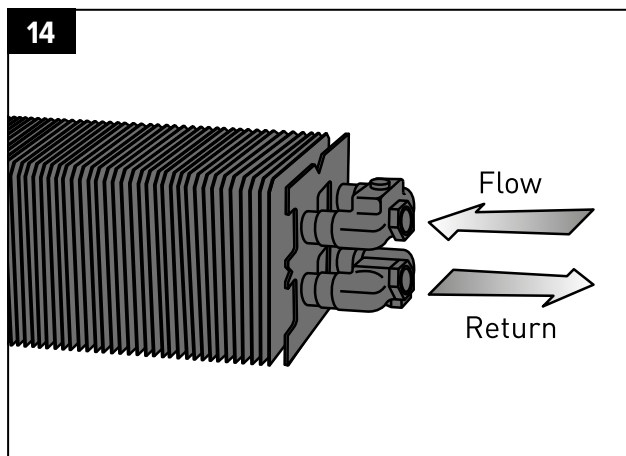
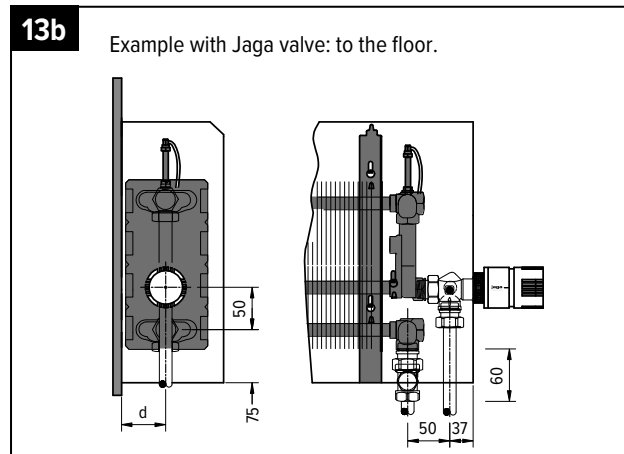
* 55mm is to suit Jaga valves with TRV head at low level. This can be increased to a maximum of 85mm when using alternative valve configurations.



Fit the air vent to the top 1/8th connection and moderately tighten.

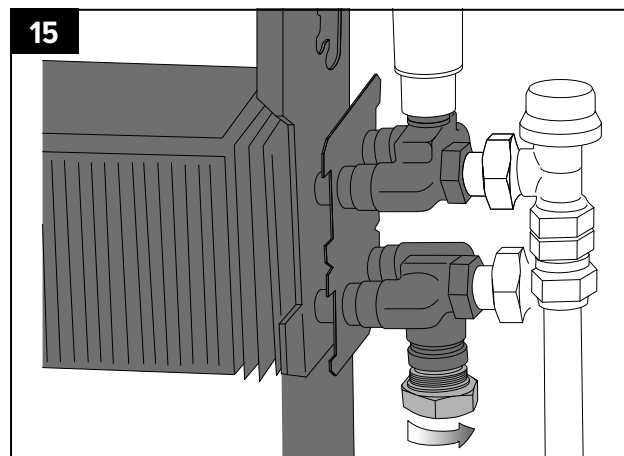


The valves can now be fitted as per the option chosen; as illustrated.



It is important for correct operation that the thermostatic radiator valve is fitted to the flow, into the higher connection of the element. The lockshield valve should be connected to the return, into the lower connection.

! If incorrectly connected, the heating performance will be reduced and the thermostatic radiator valve may vibrate / chatter.



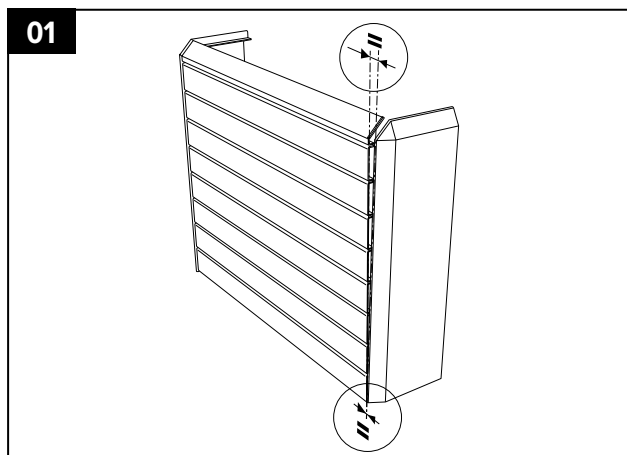
The blanking plug can now be fitted to the unused connection.



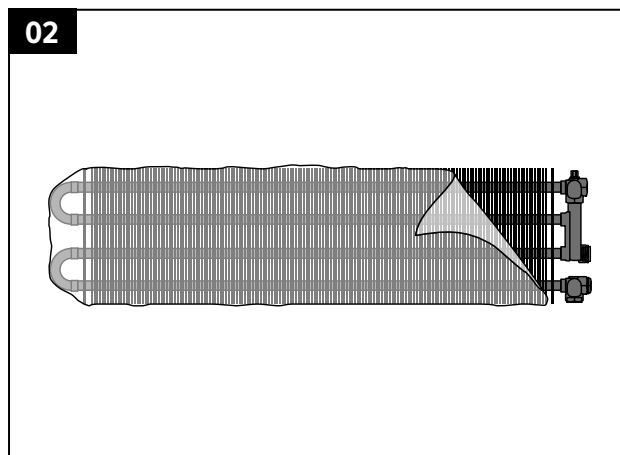
The installation is now complete and can be pressure tested to a maximum 10 bar.

! **Important Note:**
Once the radiator has been fully pressure tested, the system should be cleaned and flushed in accordance with the relevant standard.
The radiator should not be left empty (after the cleaning and flushing) for any prolonged period.

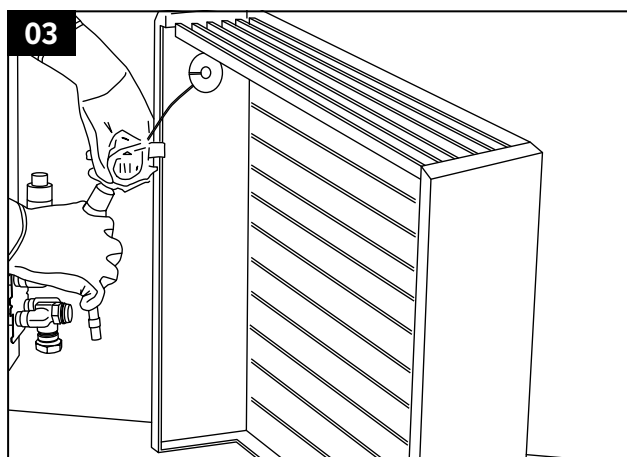
5. FITTING THE CASING



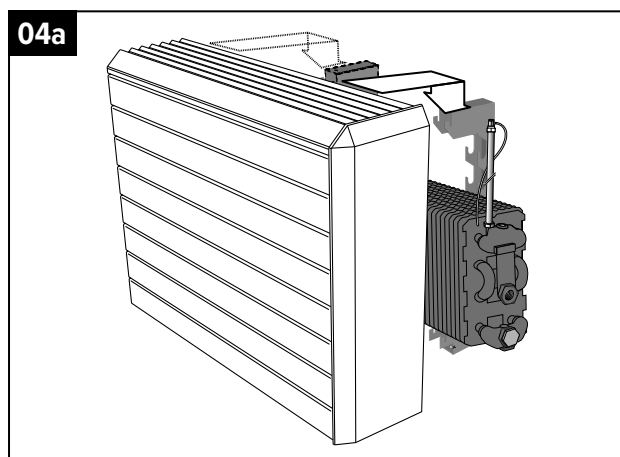
The casing is fully factory assembled. During transit and handling, it is possible that the casing fixings will become loose. Care must be taken to ensure side panels are correctly aligned and fixings are fully tightened.



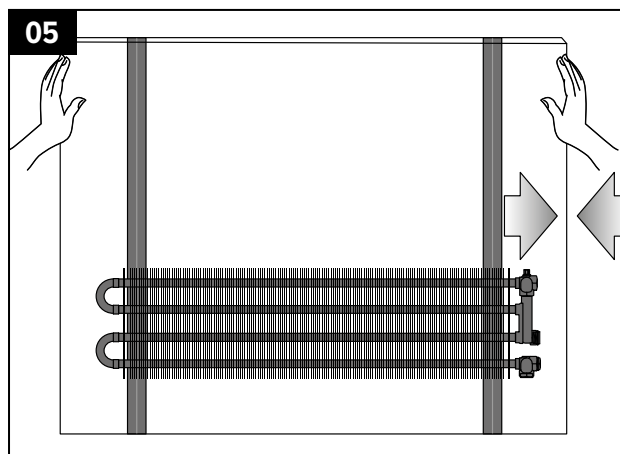
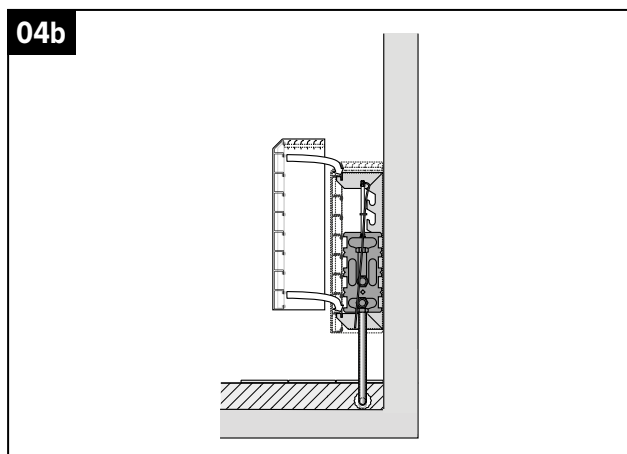
Remove the remaining protective covering from the heating element.



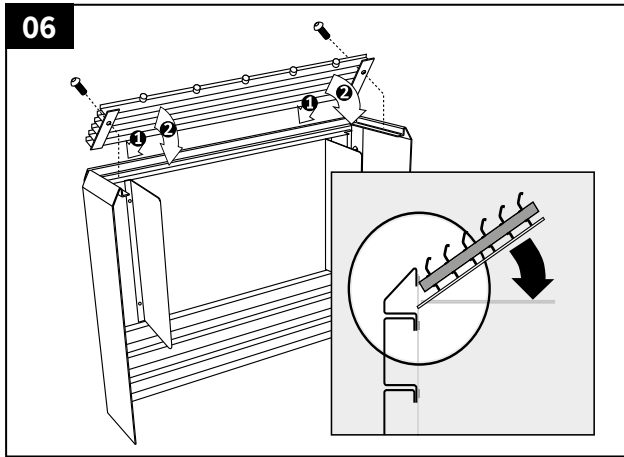
If using a high level valve, assemble the capillary to the casing and fit onto the valve body.



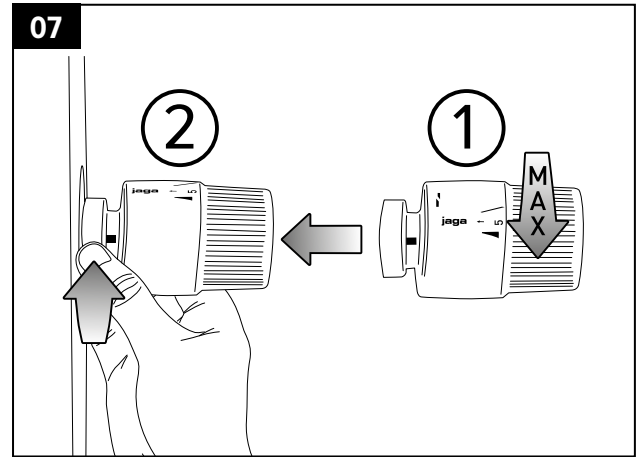
Lift the casing and position onto the brackets. Lower the casing to locate it onto the brackets hooks.



Slide the casing either left or right to correctly align with the valve and the desired final position.



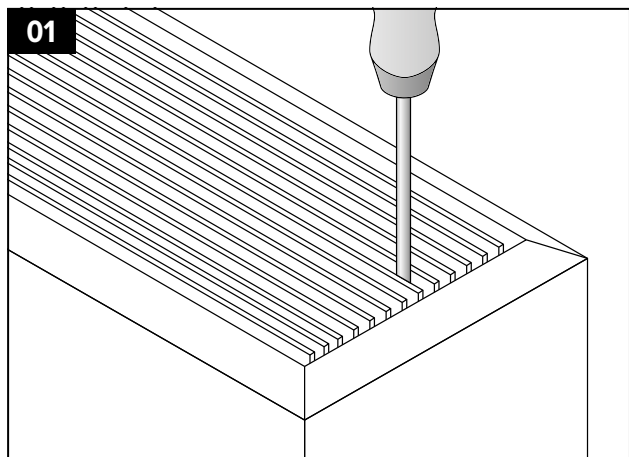
Fit top grille. Locate the tabs into the front panel and fix screws using 3mm allen key.



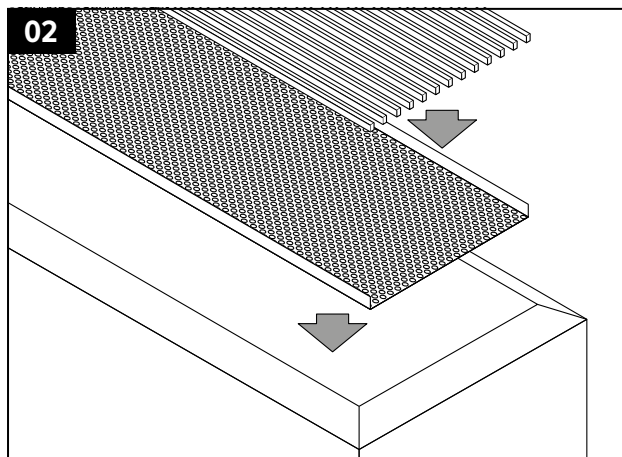
Fit the TRV head, ensuring that it is first turned to its maximum setting. Please follow the TRV head installation instructions for further information.

6. OPTIONAL EXTRAS

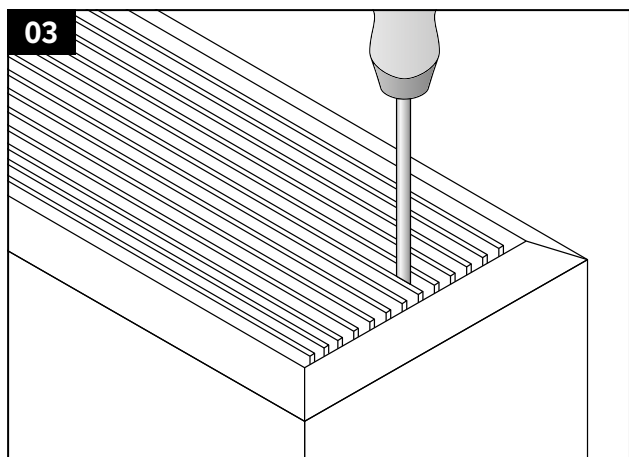
Pencil Proof Grille (only available for WT and FT models)



Remove the top grille by unscrewing the hex head screws.

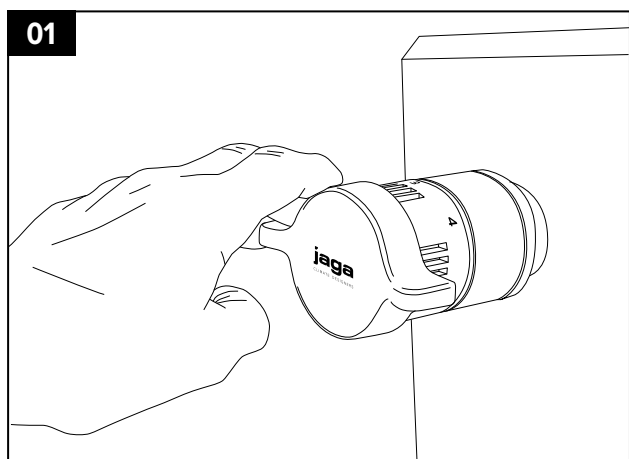


Sit the pencil proof grille on the wall brackets.



Replace top grille and replace screws.

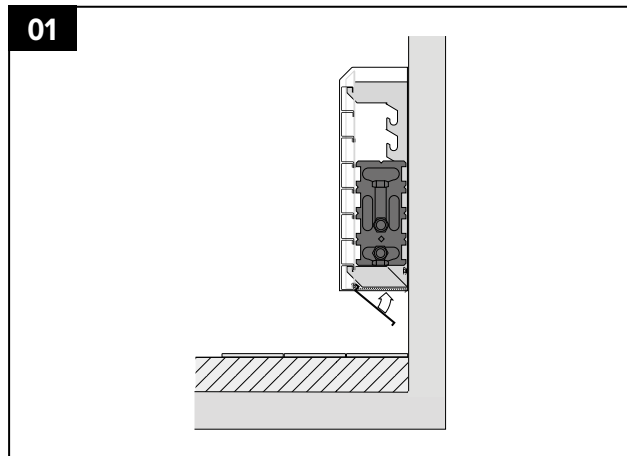
Arthritic Aid



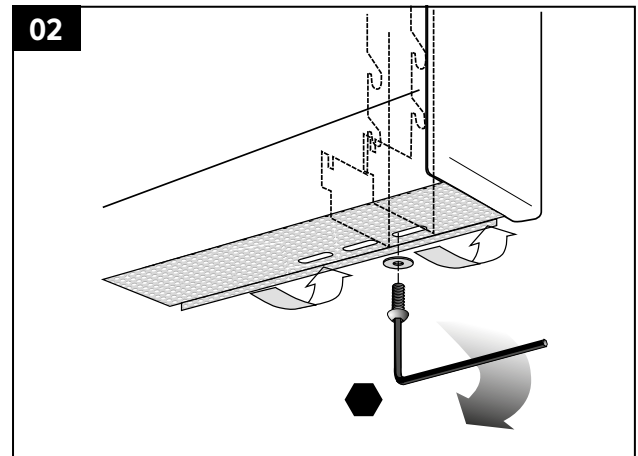
Simply push over the end of TRV.

NOTE: Arthritic aid only suitable for use with Jaga White (JW) TRV head.

Base Grille (only available for WT and WF models)

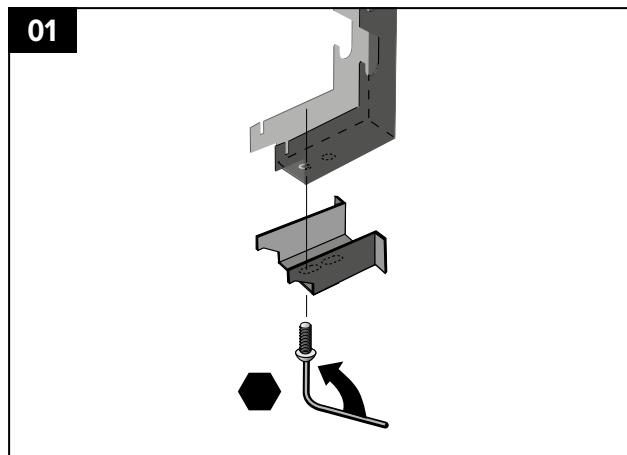


Locate front of grille into front of casing.



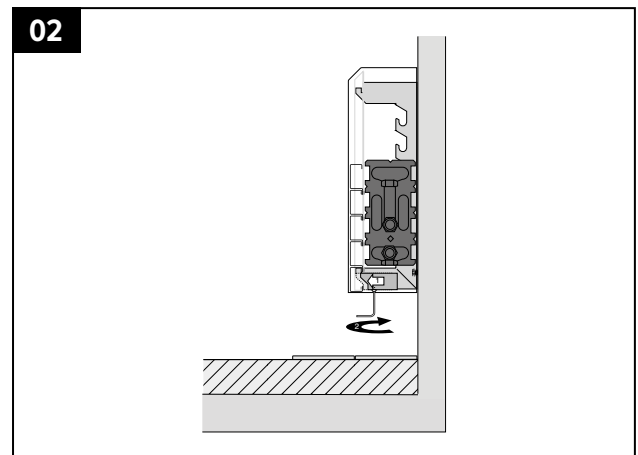
Fix base grille to brackets using hex head screws and washers provided.

Casing Locks



Attach lock to underside of bracket using hex socket screw provided. For ease, it is recommended that the locks are fitted prior to fitting the bracket to the wall.

For WT and WF models, the screw passes through the slot in the lock and tightens into the threaded hole towards the front of the bracket. For FT and FF models, the screw passes through the slot in the bottom of the bracket and tightens into the threaded hole in the lock.



For WT and WF models, the lock is accessible via the underside of the casing. For FT and FF models, the lock is accessible via removal of the front grille.

7. FURTHER GUIDANCE

Water Treatment

It is important that the water in the system is treated to maintain system efficiency and provide longevity for the heating element and associated system components.

Consideration should be given to power flushing (cleaning the system), treatment with inhibitor, system filtration and limescale prevention.

The water should be checked annually.

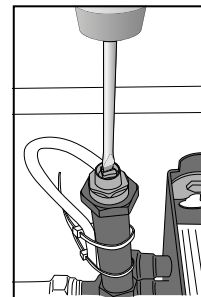
Failure to maintain good water quality will result in the product guarantee being null and void.

Balancing

Please balance the heating system ensuring correct water flow to each radiator and even heat distribution to each room.

Air Vent

Bleed air from radiator using the extended air vent, ensuring that the clear plastic tube is attached to the spigot to allow for easy collection of the water. Bleeding is achieved using a flat blade screw driver.



8. FAULT FINDING

Symptom	Fault	Solution
Radiator is not working	TRV installation fault	Check that the TRV has been installed correctly. Remove, set to maximum and re-engage
	TRV closed	Open TRV and set to a higher setting
	TRV faulty	Replace TRV
	Lockshield closed	Open lockshield
	No hot water to radiator	Check boiler, pump and controls. Check water flow temperature is at design condition
	System not balanced	Balance heating system ensuring adequate flow to each radiator and even heat distribution to each room
	Air in the heating system	Bleed air from radiator using the extended air vent
	Lack of adequate airflow	Ensure minimum free space at the base and top of the radiator
	Protective covering is still on the element	Remove covering
	Radiator is not big enough for the room	Check design, recalculate and reselect radiator
	Perception	The casing should not get hot, unlike panel radiators
Chattering from TRV	Incorrectly installed	The flow must be connected to the higher connection in the element, the return to the lower connection

9. MAINTENANCE

It is recommended that the heat exchanger is checked annually for the accumulation of dust, hair and fibre. Simply remove the TRV and the casing and brush or vacuum the heat exchanger.

10. GUARANTEE

Component	Guarantee
Heating element	30 years
Valves	3 years
Other parts	10 years

11. TERMS & CONDITIONS

1. The guarantee is only valid if the equipment is correctly installed in accordance with the installation instructions and current industry standard practices.
2. The guarantee period starts from the date of the invoice for supply of the goods covered by the guarantee.
3. The guarantee covers components failing due to manufacturing defects only and specifically excludes labour, direct and consequential losses.
4. The Company reserves the right to charge the Buyer for replacement components and associated costs for claims falling outside the guarantee terms.
5. Correct application and maintenance is also essential to validate the guarantee.
6. If the invoice is not available, the date of production will be used based on the product identification number.
7. The Company shall not in any circumstances be liable for any loss (direct or indirect) of profits, business, reputation or goodwill.
8. The Company's total liability to the Buyer in respect of any loss arising under or in connection with the contract shall in no circumstances exceed the price of the goods.

NOTES

1. CHECK OUT INSTALLATION VIDEO ON JAGA'S WEBSITE OR YOUTUBE

2. PLEASE PHONE 01531 631 533 FOR HELP OR ASSISTANCE...



 +44 1531 631 533
 jaga@jaga.co.uk
 www.jaga.co.uk

 **JAGA UK**
Jaga House, Orchard Business Park,
Bromyard Road, Ledbury,
Herefordshire HR8 1LG

MAXI2020INST1222 - JAGA UK