



TF1 Antifreeze Valves

Installation Instructions

Warning: The following instructions must be read and understood before installing and maintaining the product.

Warranty: Fernox covers the product for a warranty period of 5 years as long as it is used in the correct manner and under the terms indicated in the technical specifications listed.

Preparation for installation

Ensure that the pipes are clean. Do not allow debris, tape, or any other solid element to settle in the system.

Installation

Fernox TF1 Antifreeze Valves must only be installed in a horizontal position, with the outlet facing downwards, to allow the drained water to flow out properly and free from obstructions.

Fernox TF1 Antifreeze Valves must be installed externally, in the coldest part of the system, where there is a risk of frost. It is recommended to install a **Fernox TF1 Antifreeze Valve** on both pipes (flow and return **Fig. 3**). They must also be positioned away from heat sources that could affect correct operation.

Keep a distance of at least 15 cm from the ground in order to prevent the formation of an ice column in the area preventing water from escaping from the valve (**Fig. 1**). Maintain a distance of at least 10 cm between

the antifreeze valves so that, in the event of a discharge, the valve positioned above does not discharge onto the valve below (**Fig. 2**).

Inline with regulations, the discharge from the antifreeze valve must be routed into an appropriate collection tray or pipe.

It is advisable to keep the system under pressure at all times, even when draining a **Fernox TF1 Antifreeze Valve**.

In very hard water areas there must be provision for adequate filtration and water treatment of the water before it enters the system, according to technical standards.

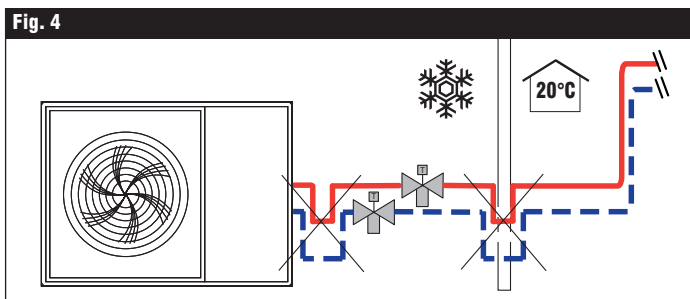
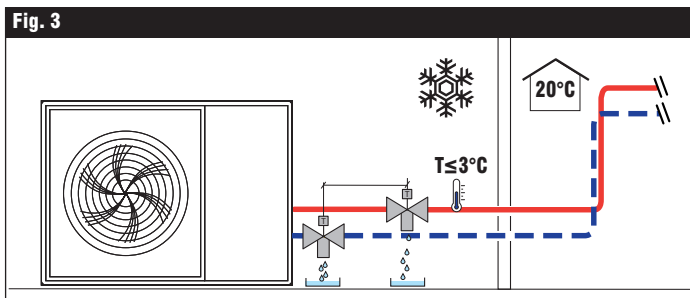
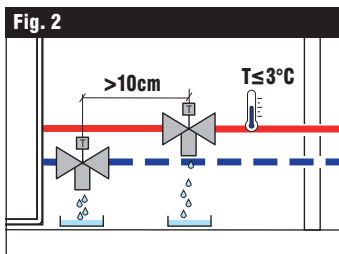
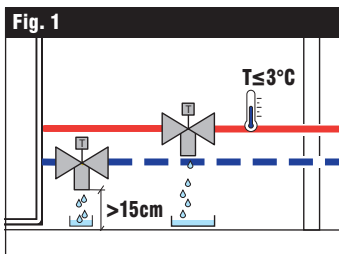
Do not make any trap connections.

If the shape of the connection pipe has the potential to create a trap effect (as shown in **Fig. 4**), drainage is prevented and frost protection will no longer be guaranteed.

Do not use heat above 65°C.

Insulation

Insulation ensures the system is working at optimum efficiency. When using insulation only place it around the body. **DO NOT COVER** the thermostatic sensor. When the valve is installed externally it must be protected from rain, snow and direct sunlight.



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