





# NORDIK RADIANT

Comfort with every step.

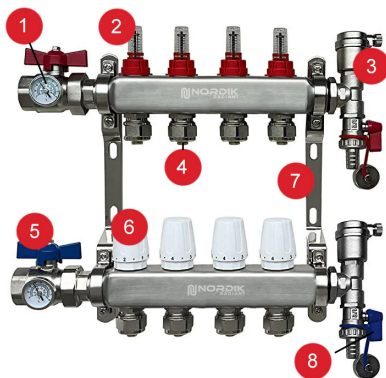
## MANIFOLDS

Thank you for your trust in our products for hydronic radiant floor systems.

			
<p><b>Durability, performance and ease of control</b></p> <p>Manufactured in stainless steel with all the necessary components for perfect flow control. Equipped with multiple indicators, they facilitate troubleshooting in case of issues.</p>	<p><b>For professionals</b></p> <p>Our manifolds have been used by professionals since 2003 for commercial and residential installations. You can count on them!</p>	<p><b>Expertise in the field</b></p> <p>Thanks to our expertise in the field, we have developed a whole range of products and accessories for hydronic radiant floors. We only sell products that we have tested ourselves on the construction sites.</p>	<p><b>Comfort for a lifetime</b></p> <p>Add our hydronic radiant floor control components with confidence and enjoy the incomparable comfort of an Ecosolaris hydronic radiant floor heating system. Thanks to their adjustment possibilities, they will allow you to control the temperature of each of your rooms with precision.</p>



## Components identification



1. Thermometers (supply and return side)
2. Flowmeters on every circuit
3. Air vent (supply and return)
4. 1/2" PEX fittings included (can be optionally replaced with 3/8", "5/8", or 3/4" PEX fittings)
5. Isolation ball valves (supply and return side)
6. Balancing valve on each circuit (replaceable by actuators)
7. Wall mounting bracket
8. Drain valves (supply and return side)

**Note :** The connections at the inlet and outlet of the manifold are made in 1" FNPT

### Roles of the components

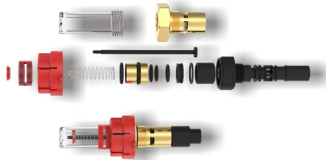
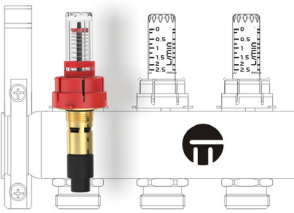
#### 1 - Thermometers

Our manifolds are equipped with 2 thermometers, positioned at the inlet and outlet. They allow for measuring the temperature of the liquid (water/glycol) at the supply side of the manifold before it circulates through the different circuits in the floor, and comparing it with the temperature of the liquid returning to the manifold. The temperature difference between the supply and return (the delta T) indicates the proper functioning of the system. The temperature is displayed in degrees Celsius and Fahrenheit.

## 2 - Flowmeters

The flow meters are located on the supply side of the manifold. They allow for measuring the flow rate of the liquid (water/glycol) circulating through the manifold's circuits. Flow meters are used to balance the flow in different circuits. The visible part of the flow meters consists of a graduated cylinder found on each circuit. Inside the cylinder, a red float indicates the flow rate in the specific circuit. The flow rate is measured in gallons per minute (GPM) and liters per minute (L/min). While not essential, manifolds without flow meters make it very difficult to balance the flow in different circuits of the system and diagnose heating issues in specific zones. Flow meters ensure that there is circulation in all circuits.

**Note:** Please ensure to unscrew each of the flow meters from your manifold during system startup to allow for liquid circulation.



### Notes on Disassembly of Flow Meters



### **3 – Air vent**

Air vent are used to eliminate air that accumulates inside the circuits. This component is essential for radiant heating manifolds. The air vent automatically release air as it accumulates. For improved air evacuation, our manifolds are equipped with 2 air vent (one on the supply and one on the return), which should always be installed with the head upwards. This way, air will accumulate by gravity in the manifold and can be purged.

### **4 – 1/2" PEX fittings**

The included fittings allow you to connect your 1/2" PEX pipes to the manifold without needing to use crimp rings. Optional fittings for 3/8", 5/8", or 3/4" PEX pipes are available. Note: Please ensure to tighten the fittings properly to allow the ring to be adequately compressed around the pipe, thereby preventing any leaks.

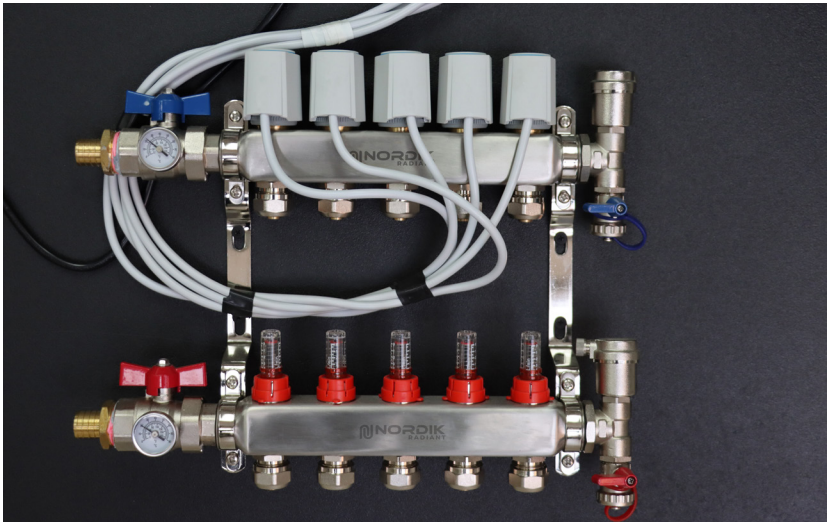
### **5 – Isolation ball valves**

Isolation valves (ball valves) are used during the radiant heating system's filling process and to facilitate maintenance and repairs. These valves allow you to isolate the manifold from other components of the heating system.

## 6 – Balancing valves

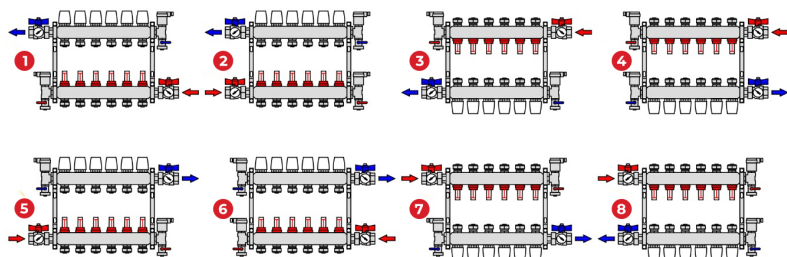
These valves allow for manual regulation of the flow of the liquid (water / glycol) inside the manifold. Each outlet of the manifold has its own valve, enabling the adjustment of flow through the circuit. These adjustments are made to control the flow of hot liquid in the individual circuits, which impacts the temperature of that specific area. These adjustments allow for the reduction and increase of individually distributed heat flux in each zone of the building.

These valves can be removed and replaced with actuators (motorized valves) if you desire different set temperatures controlled by thermostats located in various rooms of your building.



## 7 – Wall mount bracket

The wall bracket allows you to securely mount your manifold to the wall in 8 different positions.



## 8 – Drain valves

Drain valves are used to purge the radiant heating system during maintenance or repairs. These valves also enable easier system filling. When combined with balancing valves, these drain valves allow for circuit-by-circuit system filling during its commissioning, effectively venting air from the piping.

### Tip :

For an effective system filling, it is highly recommended to fill one circuit at a time. This will prevent the formation of air pockets that can hinder the circulation of the liquid in your circuits.

### Warranty :

Nordik Radiant guarantees that its manifolds are free from manufacturing defects for a period of 3 years from the date of purchase. In case of defectiveness, Nordik Radiant's liability is limited to the replacement of the defective part. Nordik Radiant cannot be held responsible for removal, installation, transportation, or any other expenses related to this warranty claim.

Nordik Radiant cannot be held responsible for damages or wear of its products caused by misuse, improper maintenance, accidents, abuse, unauthorized modification, or repair.

Nordik Radiant cannot be held responsible for damages that may occur due to the failure of its products.

Before returning your product, please contact us so we can provide you with a return merchandise authorization number.

For more information:



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