JK Ecoline & LT Manifold

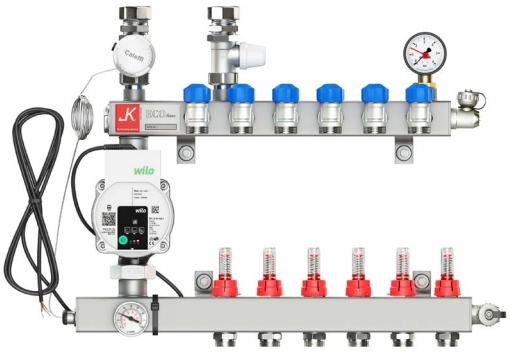
DATASHEET

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JK – Manifold Features and Benefits

- **In-House Design and Manufacturing:** JK floorheating designs and manufactures its own manifolds at its HQ in EDE, Netherlands, ensuring quality control and innovation from start to finish
- **High-Quality Stainless Steel Construction:** Built from durable stainless steel, these manifolds are corrosion-resistant and come with a 25-year warranty for long-term reliability
- **Temperature Gauges:** Integrated temperature gauges allow for precise commissioning and ongoing system monitoring
- **Independent Filling and Draining Points:** Both bars have independent filling and draining points, enabling the system to be filled, tested, and purged separately from the primary system
- **Built-In Pressure Gauge:** A pressure gauge helps monitor system pressure, providing reassurance throughout building projects and maintenance periods
- **Flow Gauges for System Balancing:** Each manifold includes flow gauges, facilitating accurate system balancing during commissioning for optimal performance

JK Ecoline Manifold

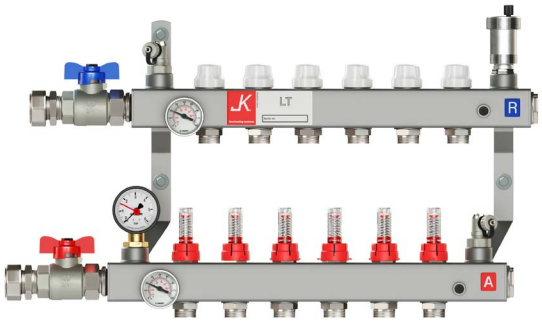


The **JK Ecoline manifold** has a unique, compact design incorporating the pump and blending valve within the manifold body. Suitable for use with high-temperature heat sources such as boilers, where the incoming water temperature is hotter than the design flow temperature of the underfloor heating. The ecoline manifold features;

- A-rated energy-efficient Wilo brand circulation pump
- Caleffi thermostatic head with temperature range from 25-55 degrees suitable for UFH and helps protect sensitive floor finishes
- Overheat sensor to protect the system should the water entering the system become too hot

JK LT (Low Temperature) Manifold

The **JK LT (Low Temperature) manifold** is designed for use with lower temperature heat sources such as heat pumps or modern weather-optimised / compensated boilers; where the incoming water temperature is appropriate for use directly into the floor heating system and therefore has no circulation pump or mixing capability. The LT manifold also features isolation valves and an auto-air vent.



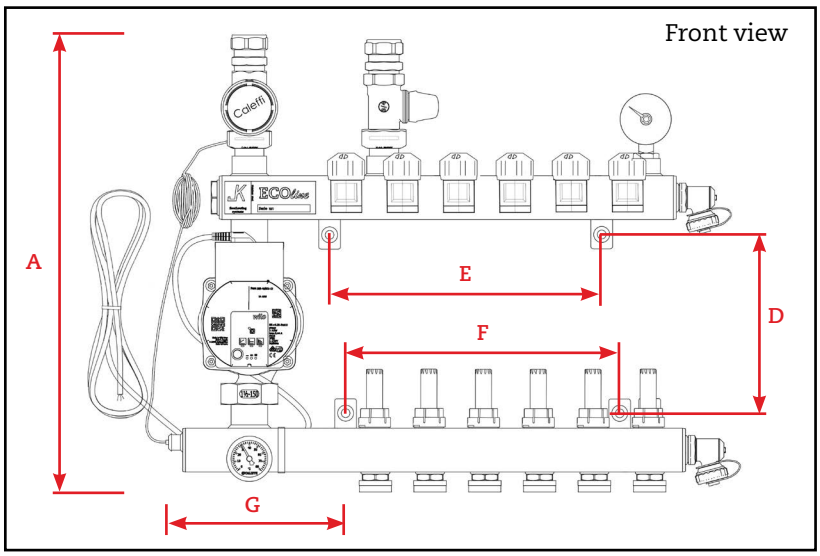
Please see back page for additional notes about your manifold

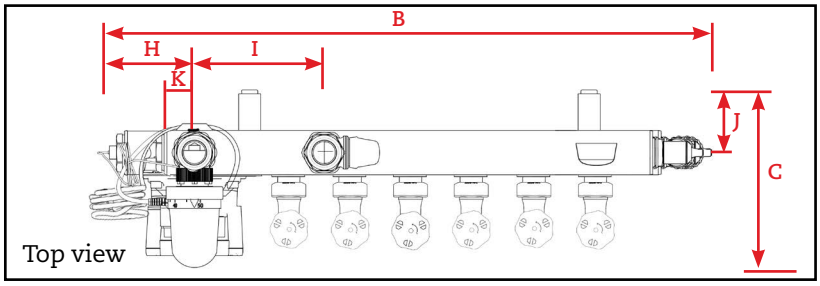
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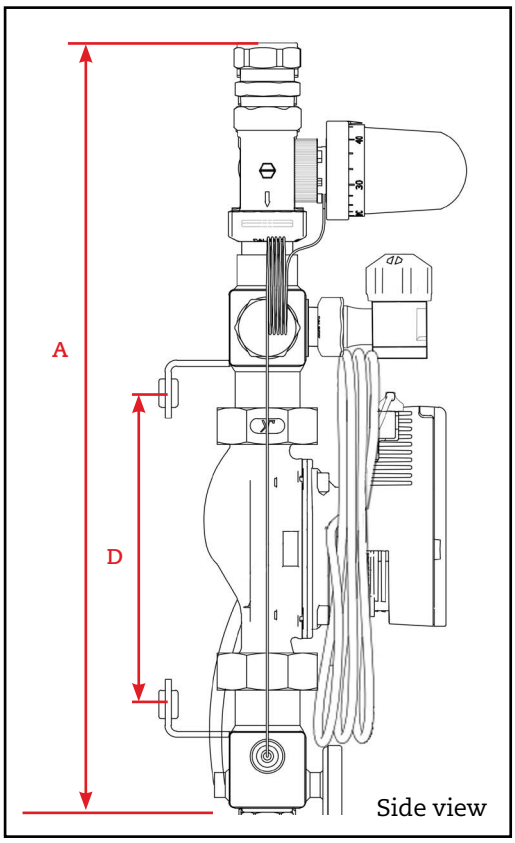
JK Ecoline Manifold Dimensions

Measurement (mm)	Ports										
	2	3	4	5	6	7	8	9	10	11	12
A (Height)	430										
B (Width)	330	350	400	450	500	550	600	650	700	750	800
C (Depth)	140										
D	155										
E	150	150	150	200	250	300	300	400	400	450	500
F	100	100	150	200	250	300	350	400	450	500	500
G	160										
H	90										
I	100										
J	50										
K	35										

- It is advised to allow 150mm to the left of the manifold and 50mm to the right of the manifold for maintenance purposes.





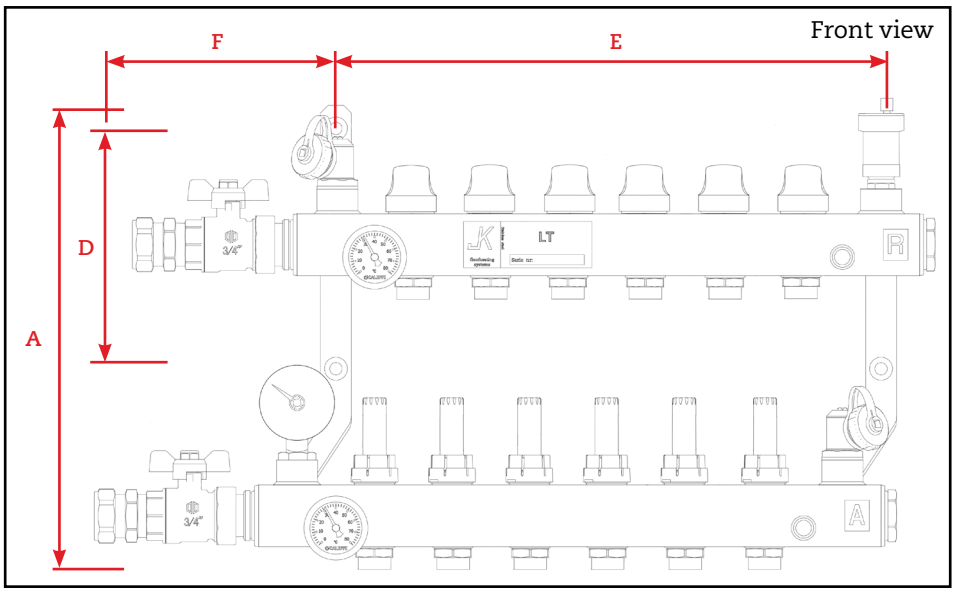


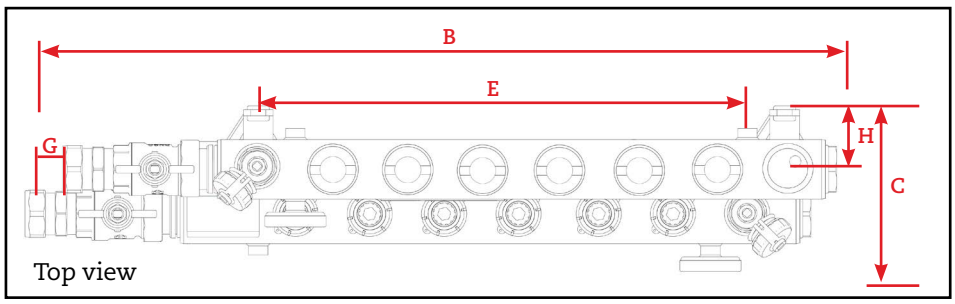
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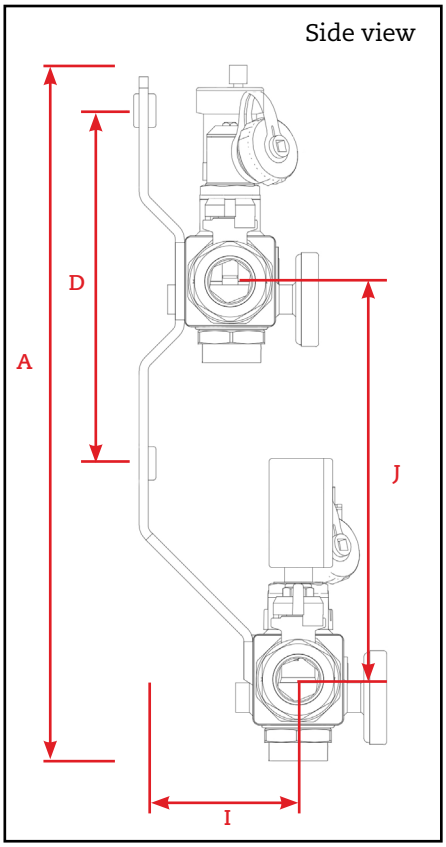
JK LT Manifold Dimensions

Measurement (mm)	Ports										
	2	3	4	5	6	7	8	9	10	11	12
A (Height)	330										
B (Width)	380	430	480	530	580	630	680	730	780	830	880
C (Depth)	110										
D	155										
E	165	200	250	300	350	400	445	500	542.5	595	642
F	130										
G	40										
H	40										
I	70										
J	180										

It is advised to allow 50mm to the right of the manifold for maintenance purposes if the primary connections are installed on the left. The isolation valves can be swapped to the right side on request.







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Manifold Installation information and Terms & Conditions

Manifold Location: This is to be determined in consultation with the company purchasing the system from JK or with JK floorheating Ltd directly. A reasonable location has to be selected from a technical point of view, with due regard for the following conditions:

- **The distance from the underside of the manifold to the floor** must be at least 200mm and there must be at least 150mm of clear space above the manifold.
- The manifold ideally should **not be lower** than the level of the **underfloor heating** loops it serves due to venting*
- The manifold should be installed on the same floor/ storey as the loops it is serving*
- The manifold must be installed **within 2 metres** of the area it is serving
- The **connection from the primary heating system** to the manifold is outside of JK's scope of works and should be;
    - 22mm for an Ecoline manifold
    - 28mm for an LT manifold
- It must be possible to route or drill the floor at the manifold location so that the underfloor heating pipes can be laid directly from the manifold.

**please consult the JK technical team for advice*

Electrical Requirements:

- 230V electrical supply, ideally supplied from the main heat source isolation point to ensure safe isolation when working on the system
- 2-core signal cable from the heat source to the manifold location
- The above can achieved with either a 5 core flex or 2 x twin and earth cables or similar
- Control system to control the JK manifold and floor heating system – outside of JK scope of works and can be purchased separately from the control manufacturer directly - Popular systems include but are not limited to; Danfoss, Genius Hub, Heatmiser, Hive, Nest. You will require;
    - Room thermostat (Per zone)
    - Wiring centre (if more than one zone/thermostat to a single manifold)
    - 2 port motorised valve (22mm) incorporated into the primary connection in an **s-plan configuration**
    - Actuators (230V) with an M30x1.5mm thread

ADDITIONAL NOTES:

ECOLINE MANIFOLD NOTE: The JK Ecoline manifold is an injection-style manifold, designed to be hydraulically neutral to ensure it can be incorporated into all heating systems. The primary system must be designed to provide circulation to the manifold

LT MANIFOLD NOTE: You will need to size your primary pump accordingly to circulate water through the LT manifold from your heat source/buffer vessel.