

Product line: PL67

SG / SGC Distribution unit for VX-F

The Danfoss stainless steel distribution units are prefabricated solutions for floor heating, which can be installed separately or be implemented with the Danfoss VX-F flat station.

Distribution units allow the installer to save time in the building site by applying easy plug & play solutions.

The manifold is used for heat regulation in floor heating systems. Each circuit in the floor heating system is connected to the manifold, which makes it possible to regulate the heat supply to each room in the building independently.

The manifold shall consist of a flow and return manifold where the flow manifold must be able to close each circuit independently. The return manifold must be equipped with presetting valves, ensuring optimal balancing of the system. Balancing of the floor heating system shall be done on a swivel scale ranging from 1-7 and N so that the value can be read and checked after commissioning. Valves shall be controlled electronically by thermal actuators installed without adapters.

The manifold must be provided in modules of up to 12 outlets with air vent and drain / fill function valve.

The manifold must be made of stainless steel (10 x lower thermal conductivity than brass and more corrosion resistant) and have the following specifications:

- Maximum flow temperature: 60 °C
- Maximum differential pressure: 0.6 bar
- Maximum operating pressure with flow meter: 6 bar
- Max Kv setting of the valve (N): 0,87 m³/h.
- Rubber for brackets – no noise and/or vibrations
- Circuit connection: Euro cone connection (Matching standardized compression fittings) complying with DIN V3838 and the G3/4A external thread should comply with ISO228-1
- 360° swivel drain for filling, flushing and airing.
- Stuffing box and automatic air vent as an accessory
- Flow meter for visual flow indication, accuracy +/- 15% @ 0,1 bar
- Danfoss RA connection for mounting of actuators.
- Opportunity to fully open throttle bush on built in valves for flushing of dirt.

Type SG: Distribution unit for floor heating with flow meters.

Distribution unit type SG must be available with the following heat circuits.

- Distribution Unit SG VX-F 2 heating circuits
- Distribution Unit SG VX-F 3 heating circuits
- Distribution Unit SG VX-F 4 heating circuits
- Distribution Unit SG VX-F 5 heating circuits
- Distribution Unit SG VX-F 6 heating circuits
- Distribution Unit SG VX-F 7 heating circuits
- Distribution Unit SG VX-F 8 heating circuits
- Distribution Unit SG VX-F 9 heating circuits
- Distribution Unit SG VX-F 10 heating circuits
- Distribution Unit SG VX-F 11 heating circuits
- Distribution Unit SG VX-F 12 heating circuits

Type SGC: Distribution unit for floor heating with flow meters and Icon 230V Wiring Center and TWA NC thermo-actuators. Please note that the controller and actuators are pre-wired but delivered in a separate box and mounted in the building site.

The wiring center must have the following specifications:

- Boiler relay to switch of heat source when there is no need for heating.
- Pump relay when there is no need for heating.

Distribution unit type SGC must be available with the following heat circuits.

- Distribution Unit SG VX-F 2 heating circuits + TWA
- Distribution Unit SG VX-F 3 heating circuits + TWA
- Distribution Unit SG VX-F 4 heating circuits + TWA
- Distribution Unit SG VX-F 5 heating circuits + TWA
- Distribution Unit SG VX-F 6 heating circuits + TWA
- Distribution Unit SG VX-F 7 heating circuits + TWA
- Distribution Unit SG VX-F 8 heating circuits + TWA
- Distribution Unit SG VX-F 9 heating circuits + TWA
- Distribution Unit SG VX-F 10 heating circuits + TWA
- Distribution Unit SG VX-F 11 heating circuits + TWA
- Distribution Unit SG VX-F 12 heating circuits + TWA

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