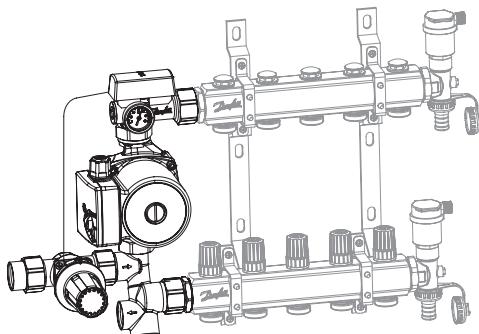


Data Sheet

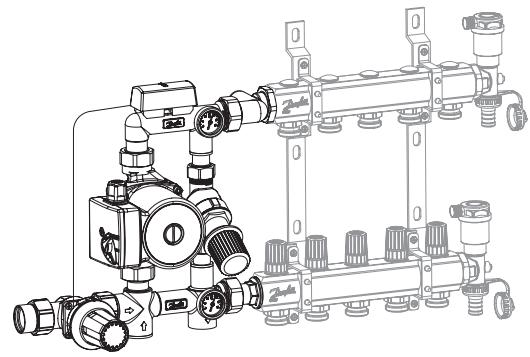
FHM-CN_x series

Pre-assembled Mixing Shunts

Application



FHM-CN1 (without bypass)



FHM-CN2 (with bypass)

The Danfoss FHM-CN_x series pre-assembled mixing shunts are used for regulation of flow and supply temperature in hydronic floor heating systems with individual gas boiler (household). The compact, flexible design allows mounting the mixing shunts directly to the manifold on right side, with the primary connection from the side or below by bends (088U0821) which can be ordered separately.

A self-acting proportional regulator (type FTC + RA-C control valve) is used to regulate the supply

temperature. The regulator ensures that the desired supply temperature to the underfloor heating system always remains constant.

The FHM-CN mixing shunt can be mounted directly to the Danfoss manifold system without the use of special equipment.

By using Danfoss floor heating controls all expectations of a professional floor heating system are fulfilled.

Ordering

Product	Pump type	Bypass control valve	Temperature setting range	Code no.
FHM-CN1	Grundfos UPSO 15-60	-	35 - 70° C	088U0681
FHM-CN2 ¹⁾	Grundfos UPSO 15-60	AVDO DN15 ²⁾	35 - 70° C	088U0682

¹⁾ Recommended for use without wiring center.

²⁾ Setting range (0.05~0.5 bar).

Accessories

Product	Type	Code no.
 Bend 3/4", 1x	FHM-CB	088U0821
 Safety thermostat	FH-ST55	088U0301

Technical specifications

Primary connection	3/4" internal thread
Max. differential pressure	0.6 bar
Max. working pressure	PN10
Max. flow temperature (primary side)	90 °C

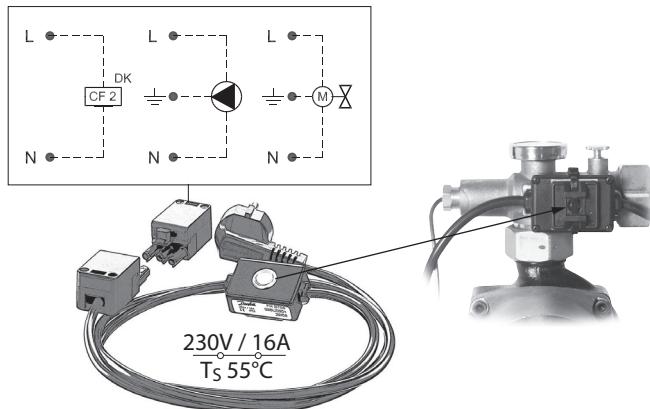
Materials

Body, unions and other metal parts	Brass
O-rings	EPDM

Capacity

Heat capacity [kW]	T _{supply} / T _{return} at primary side [°C]	T _{supply} / T _{return} at secondary side [°C]	ΔP at RA-C DN20* [kPa]
24	70/40	50/40	12.6
28	80/40	50/40	9.6

* based on k_V ($X_p = 4K$) with FTC

FH-ST55
Safety Thermostat

Electrical connection

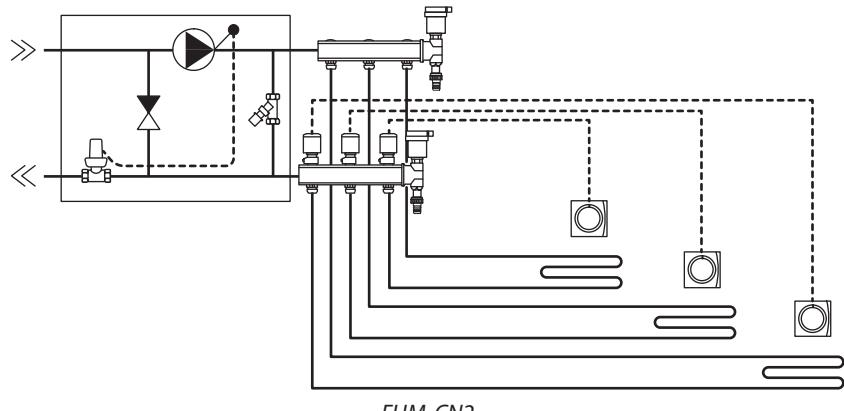
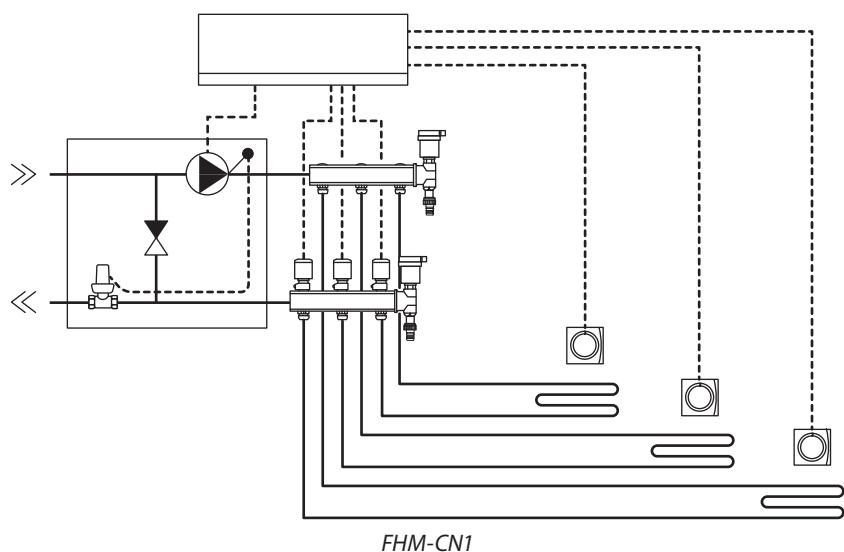
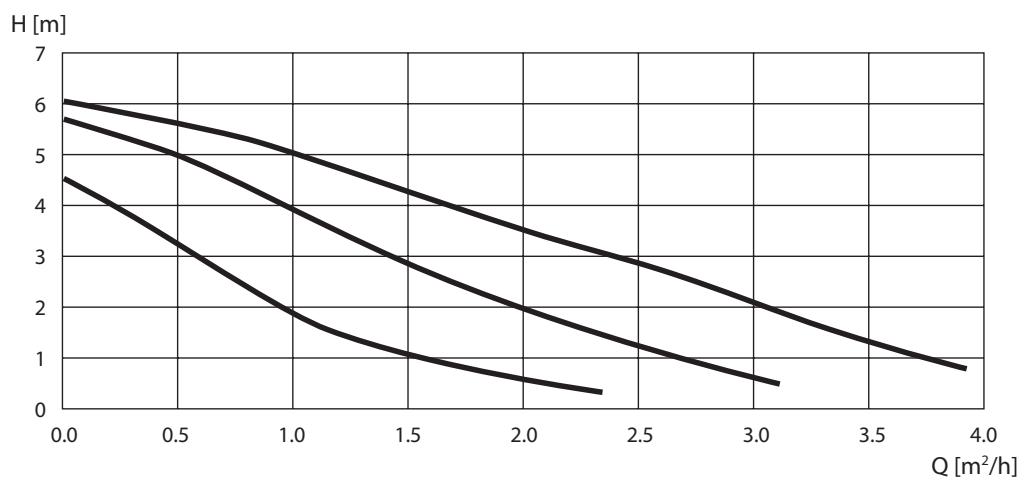
The FH-ST safety thermostat is fixed on the supply pipe and protects floor and system against too high temperatures, especially important for wooden floors. The FH-ST thermostat switches off the power supply of the floor heating base unit, when the temperature reaches 55° C. By switching off the power supply of the floor heating base unit, the actuators (NC) will close

automatically and the floor heating system is protected.

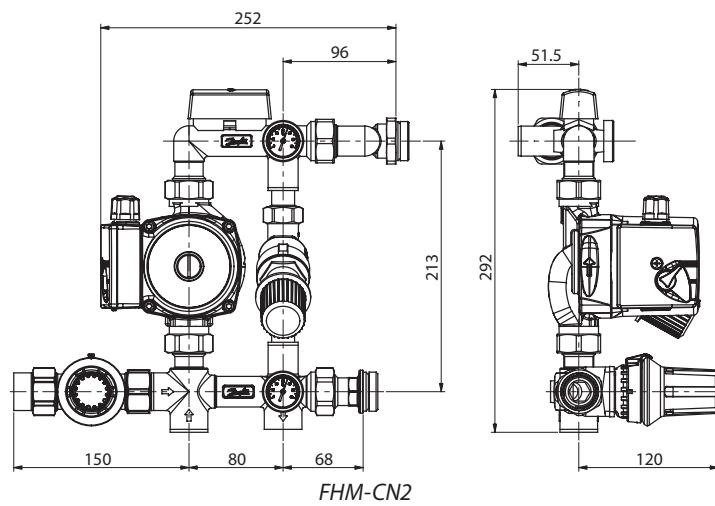
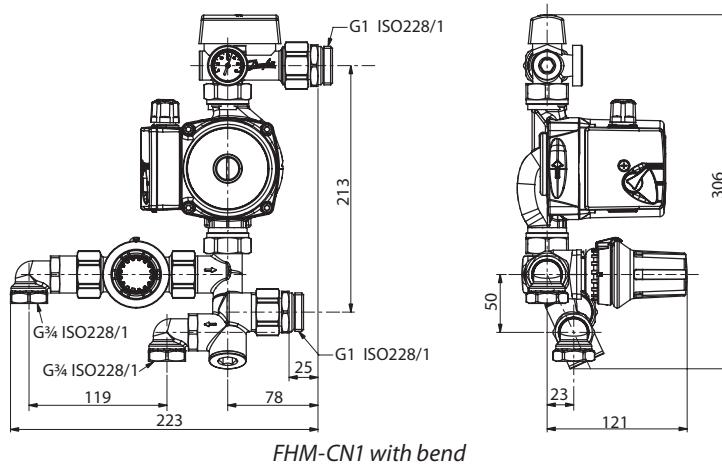
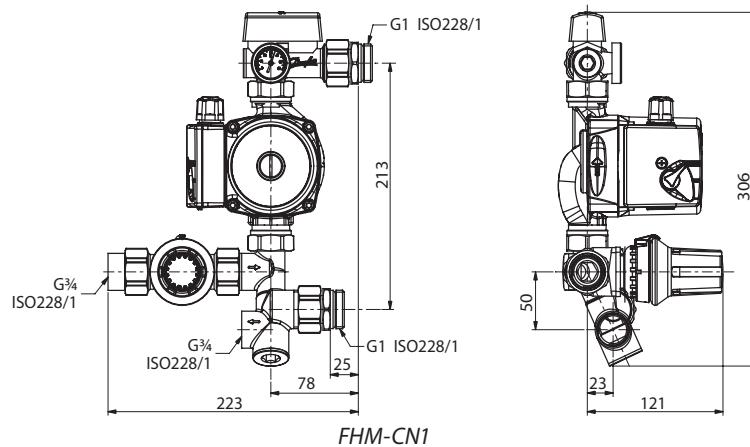
The FH-ST55 can also be connected to a pump or a zone valve.

Note! The electrical installation must be carried out by an authorized installer only (230 V DC).

Code no.	088U0301
Shut-off temperature	55° C
Switch difference	4 K
Classification	IP 40 (mounted)

System

Pump curve


Dimensions



Danfoss A/S

Floor Heating Hydraulics • Ulvehavevej 61 • DK-7100 Vejle • Denmark
 Phone: +45 7488 8500 • Fax: +45 7488 8501
heating@danfoss.com • www.floorheating.danfoss.com

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