



Quick Handy Flexible

Danfoss Compact Mixing Shunts



The same high quality – now **ultra compact** and **energy saving**

We have upgraded our mixing shunt program to create a compact and highly energy efficient product. With the addition of enhanced functions that make it much easier to mount also in tight spots, the Danfoss Compact Mixing Shunt is a clear improvement in the market.

Easy mounting and installation

Mounting the mixing shunt is extremely easy, as it is very compact from only 168 mm in installation dimension. The mixing shunt is mounted directly on the manifold on either the left or right-hand side, it can also be angle mounted with angle fittings as accessories.

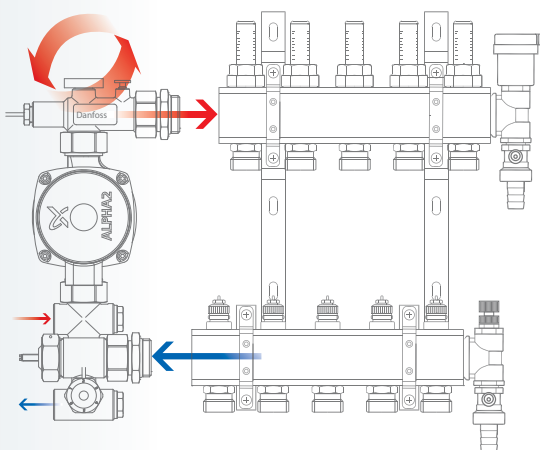
- » Ultra compact size from only 168 mm in mounting dimension
- » Prefabricated for quick and easy mounting
- » Flexible – mount the mixing shunt directly on the manifold from either the left or right, evenly or at an angle
- » Self-acting flow temperature thermostat with a stainless steel immersion sensor for adjusting the supply temperature in the floor heating system
- » Optional internal manual flow-limiter, which ensures an optimal water balance
- » Optional safety thermostat, which protects the floor heating system against too high flow temperatures

The self-acting flow temperature thermostat with a stainless steel immersion sensor - this ensures quick temperature control and always the right flow temperature in the floor heating system. The mixing shunt is equipped with either an Alpha2 speed-controlled low energy pump or a standard UPS 3-speed pump.

Energy saving

Choosing a compact mixing shunt with a Alpha2 pump ensures that you can match your customers increasing demand for energy saving products. Your customer can save up to 60% energy compared to a normal mixing shunt.

A unique solution for the professional heating installer



FHM-C5 088U0084

- » 3-speed **UPS 15-40 pump**
- » Internal non-return valve
- » FHD-T thermometer
- » FH-TC self-acting thermostatic controller
- » FH-ST55 safety thermostat prewired to pump

Grundfos Alpha2 is a speed-controlled low energy pump that ensures proper circulation in the floor heating system

FHD-T thermometer for easy reading of the flow temperature

Ball valve with possibility of integrated thermometer provides an option for positive shut-off between the mixing shunt and manifold circuits

Ultra Compact

The FH-TC is a self-acting thermostatic controller for constant supply temperature regulation. The FH-TC is equipped with a stainless steel immersion sensor that measures the flow temperature of the supply water. If the temperature rises, the FH-TC valve closes



FHM-C6 088U0085

- » 3-speed **UPS-15-60 pump**
- » Internal non-return valve
- » FHD-T thermometer
- » FH-TC self-acting thermostatic controller



FHM-C7 088U0086

- » Speed-controlled **Alpha2 15-60 pump**
- » Internal non-return valve
- » FHD-T thermometer
- » FH-TC self-acting thermostatic controller
- » FH-ST55 safety thermostat
- » FHM-FL manual flow-limiter
- » FHM-MS measurement set

The integrated Danfoss flow indicators provide visible and secure water flow – circuit for circuit

Possible to shut-off each circuit individually via flow indicator nut

End section with automatic airvent and purge valve for filling and draining the system



End section with manual airvent and purge valve for filling and draining the system



RA-N built in valve ensures easy and precise presetting of the individual floor heating circuit



FHM-C8 088U0087

- » Speed-controlled **Alpha2 15-60 pump**
- » Internal non-return valve
- » FHD-T thermometer
- » FH-TC self-acting thermostatic controller



FHM-C9 088U0088

- » Speed-controlled **Alpha2 15-40 pump**
- » Internal non-return valve
- » FHD-T thermometer
- » FH-TC self-acting thermostatic controller



Save more

– automatically reduce supply temperature

Outdoor sensor



ECL weather compensator



It is now possible easy to upgrade all FHM-C mixing shunts with an ECL weather compensator.

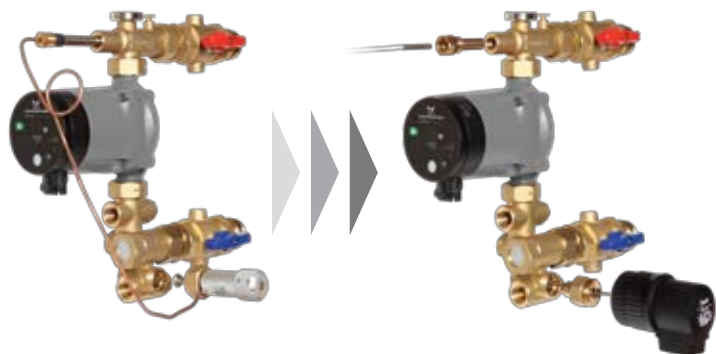
Let a weather compensator control your supply temperature for hydronic floor heating and save energy. ECL combined with a ABV thermal actuator automatically ensure that your supply temperature is kept at a minimum all year – and thereby energy is automatically saved!

ABV thermal actuator



Upgrade in few steps

- » Demount the FH-TC including sensor
- » Mount ABV thermal actuator via adapter
- » Mount sensor house
- » Put ESMT sensor in the house
- » Mount ECL
- » Sensor and ABV is electronically connected to the ECL



Order the upgrade set for FHM-Cx to ECL, it includes all the products you need to get further energy savings

FLOOR HEATING MANIFOLD

(including RA-N presetting control valves, but excluding fittings for the floor pipes)

Type	Code No.	Description
FHF-2	088U0502	Manifold set 2+2
FHF-3	088U0503	Manifold set 3+3
FHF-4	088U0504	Manifold set 4+4
FHF-5	088U0505	Manifold set 5+5
FHF-6	088U0506	Manifold set 6+6
FHF-7	088U0507	Manifold set 7+7
FHF-8	088U0508	Manifold set 8+8
FHF-9	088U0509	Manifold set 9+9
FHF-10	088U0510	Manifold set 10+10
FHF-11	088U0511	Manifold set 11+11
FHF-12	088U0512	Manifold set 12+12

FLOOR HEATING MANIFOLD WITH FLOWMETER ON EACH CIRCUIT

(including RA-N presetting control valves, but excluding fittings for the floor pipes)

Type	Code No.	Description
FHF-2F	088U0522	Manifold set 2+2 with flowmeters
FHF-3F	088U0523	Manifold set 3+3 with flowmeters
FHF-4F	088U0524	Manifold set 4+4 with flowmeters
FHF-5F	088U0525	Manifold set 5+5 with flowmeters
FHF-6F	088U0526	Manifold set 6+6 with flowmeters
FHF-7F	088U0527	Manifold set 7+7 with flowmeters
FHF-8F	088U0528	Manifold set 8+8 with flowmeters
FHF-9F	088U0529	Manifold set 9+9 with flowmeters
FHF-10F	088U0530	Manifold set 10+10 with flowmeters
FHF-11F	088U0531	Manifold set 11+11 with flowmeters
FHF-12F	088U0532	Manifold set 12+12 with flowmeters

ACCESSORIES, FLOOR HEATING MANIFOLD AND MIXING SHUNT

Type	Code No.	Description
FHF-EA	088U0580	End section - automatic airvent
FHF-EM	088U0581	End section - manual airvent
FHF-E	088U0582	End caps - set
FHF-C	088U0583	Connection pieces - set
FHF-R	088U0584	Reduction bushes/pieces 1" - 3/4" - set
FHF-MB	088U0585	Mounting brackets - set
FHF-BV	088U0586	Ball valves - set
FHD-T	088U0029	Thermometer 0-60°C Ø35mm for flow temperature measurement
TWA-A	088H3110	Thermal actuator 24V NC
FHM-AB	088U0090	ABV conversion set includes: ECL comfort 110, EMST sensor, ESMB 12, Sensor house, ABV adapter and ABV thermal actuator

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