



UnoFloors

Uno Floor Basic_ Comfort_ Control

Description

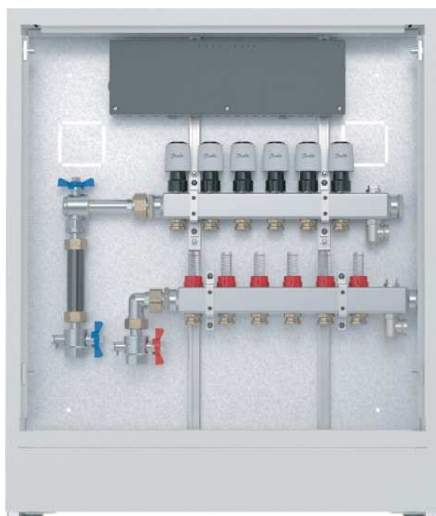
The Danfoss UnoFloor series comprises preassembled stainless steel distribution units designed for installation in cabinets, suitable for both in-wall and on-wall applications. These solutions enable installers to conveniently order a ready-made, plug-and-play assembly for the mounting of distribution pipes within a building section. The units are available as standard configurations with 4 to 12 connections and are equipped with a manual air vent and a drain valve. In addition, they include a flow meter to maintain the designated flow rate. The Comfort and Control version is equipped with the AB-PM set, which ensures optimal hydronic balance. Flow limitation, independent of differential pressure, is thereby ensured.

Features & benefits

- Plug-and-play construction for quick and easy installation
- Durable stainless steel distribution unit for long service life
- Compact design requiring minimal installation space
- In-wall cabinet reduces installation time to a minimum
- Pre-mounted components minimise the risk of installation errors
- Accurate heat distribution, even under partial load conditions
- Reliable hydronic balancing for reduced heating costs (Comfort/Control versions)
- App-based solutions available for both installers and end-users (Control version).

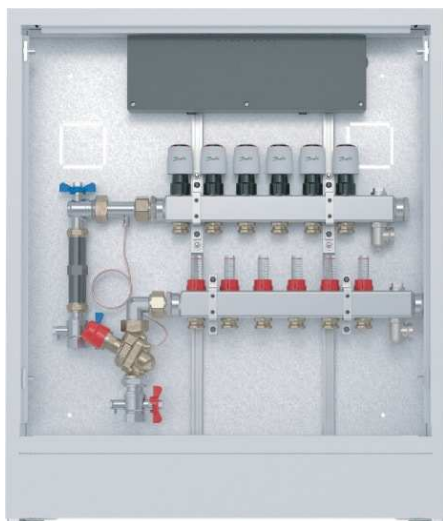
Ordering

Product code numbers



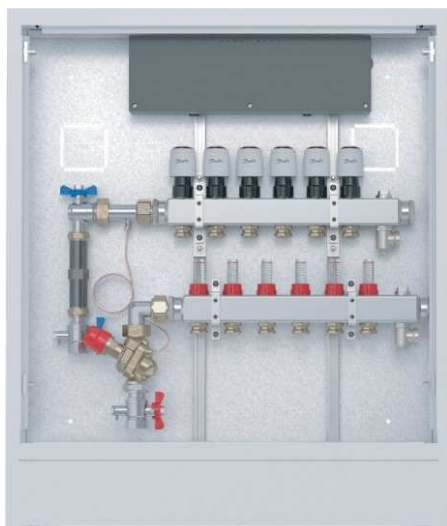
Basic

Is delivered with flow meter and fitted with an Icon™ Wiring Center 230V and thermoactuators TWA NC for control of the floor heating system. Wired room thermostats.



Comfort

Is delivered with flow meter and fitted with an Icon™ Wiring Center 230V and thermoactuators TWA NC for control of the floor heating system. Wired room thermostats. AB-PM set which ensures optimal hydronic balance.



Control

Delivered with a flow meter and fitted with an Icon2™ Advanced Master Controller (230V) and TWA NC thermo-actuators for controlling the floor heating system. Compatible with both wireless and wired room thermostats. Equipped with an AB-PM set, which ensures optimal hydronic balance.

Includes an app-based installation guide for the installer, with the option to generate an installation report for documentation purposes.

By purchasing a Danfoss Ally™ Gateway, the end-user can control room heating via the Danfoss Ally™ app.

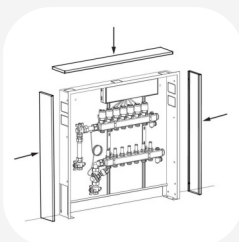
Distribution unit	Basic	Comfort	Control
2 circuits left version	-	088X3202	-
3 circuits left version	-	088X3203	-
4 circuits left version	088X3104	088X3204	088X3644
5 circuits left version	088X3105	088X3205	088X3645
6 circuits left version	088X3106	088X3206	088X3646
7 circuits left version	088X3107	088X3207	088X3647
8 circuits left version	088X3108	088X3208	088X3648
10 circuits left version	088X3110	088X3210	088X3650
12 circuits left version	088X3112	088X3212	088X3652
2 circuits right version	-	088X3222	-
3 circuits right version	-	088X3223	-
4 circuits right version	088X3124	088X3224	088X3664
5 circuits right version	088X3125	088X3225	088X3665
6 circuits right version	088X3126	088X3226	088X3666
7 circuits right version	088X3127	088X3227	088X3667
8 circuits right version	088X3128	088X3228	088X3668
10 circuits right version	088X3130	088X3230	088X3670
12 circuits right version	088X3132	088X3232	088X3672

Accessories code numbers

Wired solution – UnoFloor Basic with ICON™ Wiring Center Installed

Wired solution – UnoFloor Comfort with ICON™ Wiring Center Installed

Wireless/ wired solution – UnoFloor Control with ICON2™ Advanced Master Controller Installed



088X3016

UnoFloor accessories

On wall panels for UnoFloor cabinet
760

Related products

088X3107	088X3108	088X3127	088X3128	088X3207	088X3208
088X3227	088X3228	088X3647	088X3648	088X3667	088X3807
088X3808	088X3817	088X3818			



088U1020

**Floor Heating Controls,
Danfoss Icon™ Programmable
Room Thermostats, 230V, 230
V, Output voltage [V] AC: 230,
In-wall**

Programmable 230V, IN-WALL,
80x80, EU version, Wired 230V

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3804	088X3805	088X3806	088X3807
088X3808	088X3810	088X3812	088X3814	088X3815	088X3816
088X3817	088X3818	088X3820	088X3822		



088U1005

**Floor Heating Controls,
Danfoss Icon™ Dial Room
Thermostats, 230V, 230 V,
Output voltage [V] AC: 230,
On-wall**

Danfoss Icon Dial, 230V, ON-WALL
86x86, Wired 230V

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3804	088X3805	088X3806	088X3807
088X3808	088X3810	088X3812	088X3814	088X3815	088X3816
088X3817	088X3818	088X3820	088X3822		



088U1010

**Floor Heating Controls,
Danfoss Icon™ Display Room
Thermostat, 230 V, 230 V,
Output voltage [V] AC: 230,
In-wall**

Danfoss Icon Display 230V, IN-
WALL, EU+Rest of world 80x80,
Wired 230V

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3804	088X3805	088X3806	088X3807
088X3808	088X3810	088X3812	088X3814	088X3815	088X3816
088X3817	088X3818	088X3820	088X3822		



088X3010

UnoFloor accessories

Frame and door for UnoFloor cabinet 760

Related products

088X3818



088U1000

**Floor Heating Controls,
Danfoss Icon™ Dial Room
Thermostats, 230V, 230 V,
Output voltage [V] AC: 230,
In-wall**

Dial 230V, IN-WALL, 80x80, EU version, Wired 230V

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3804	088X3805	088X3806	088X3807
088X3808	088X3810	088X3812	088X3814	088X3815	088X3816
088X3817	088X3818	088X3820	088X3822		



088U1015

**Floor Heating Controls,
Danfoss Icon™ Display Room
Thermostat, 230 V, 230 V,
Output voltage [V] AC: 230,
On-wall**

Danfoss Icon Display 230V, ON-WALL 86x86, Wired 230V

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3804	088X3805	088X3806	088X3807
088X3808	088X3810	088X3812	088X3814	088X3815	088X3816
088X3817	088X3818	088X3820	088X3822		



088U1110

**Accessories, Danfoss Icon™ /
Icon2™, Wired floor sensor**

Danfoss Icon Floor Sensor for 24 V and 230 V

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3644	088X3645	088X3646	088X3647
088X3648	088X3650	088X3652	088X3664	088X3665	088X3666
088X3667	088X3668	088X3670	088X3672	088X3804	088X3805
088X3806	088X3807	088X3808	088X3810	088X3812	088X3814
088X3817	088X3818	088X3820	088X3822		



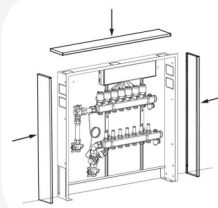
088U1025

**Floor Heating Controls,
Danfoss Icon™ Programmable
Room Thermostats, 230V, 230
V, Output voltage [V] AC: 230,
On-wall**

Danfoss Icon Programmable 230V,
ON-WALL86x86, Wired 230V

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3804	088X3805	088X3806	088X3807
088X3808	088X3810	088X3812	088X3814	088X3815	088X3816
088X3817	088X3818	088X3820	088X3822		



088X3018

UnoFloor accessories

On wall panels for UnoFloor cabinet
960

Related products

088X3110	088X3112	088X3130	088X3132	088X3210	088X3212
088X3230	088X3232	088X3650	088X3652	088X3670	088X3672
088X3810	088X3812	088X3820	088X3822		



088U1041

**Floor Heating Controls,
Danfoss Icon™ 230V Wiring
Center, Wiring center, 230 V,
Output voltage [V] AC: 230,
Number of channels: 8, On-
wall**

Icon Wiring center 230V, 8 channels,
CH version, Wired 230V

Related products

088X3807	088X3808	088X3812
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014G2400

**Danfoss Ally™ Gateway,
Zigbee**

Danfoss Ally™ Gateway, Zigbee

Related products

088X3644	088X3645	088X3646	088X3647	088X3648	088X3650
088X3652	088X3664	088X3665	088X3666	088X3667	088X3668
088X3670	088X3672				



088U2128

**Floor Heating Controls,
Danfoss Icon2™ 24V RT wired,
Room Thermostat, 24 V, On-
wall**

24V Room Thermostat, On-wall,
86x86, Wired 24V

Related products

088X3644	088X3645	088X3646	088X3647	088X3648	088X3650
088X3652	088X3664	088X3665	088X3666	088X3667	088X3668
088X3670	088X3672				



088U2121

**Floor Heating Controls,
Danfoss Icon2™ RT wireless,
Room Thermostat, 3 V,
Attachable**

Room Thermostat, Zigbee
communication, Wireless

Related products

088X3644	088X3645	088X3646	088X3647	088X3648	088X3650
088X3652	088X3664	088X3665	088X3666	088X3667	088X3668
088X3670	088X3672				



088U2120

**Floor Heating Controls,
Danfoss Icon2™ RT wireless,
Room Sensor, 3 V, Attachable**

Room Sensor without Display,
Zigbee communication, Wireless

Related products

- | | | | | | |
|----------|----------|----------|----------|----------|----------|
| 088X3644 | 088X3645 | 088X3646 | 088X3647 | 088X3648 | 088X3650 |
| 088X3652 | 088X3664 | 088X3665 | 088X3666 | 088X3667 | 088X3668 |
| 088X3670 | 088X3672 | | | | |



088U2122

**Floor Heating Controls,
Danfoss Icon2™ RT wireless,
Room Thermostat with floor
sensor, 3 V, Attachable**

Room Thermostat featured with IR
floor temperature sensor, Zigbee
communication, Wireless, Wireless

Related products

- | | | | | | |
|----------|----------|----------|----------|----------|----------|
| 088X3644 | 088X3645 | 088X3646 | 088X3647 | 088X3648 | 088X3650 |
| 088X3652 | 088X3664 | 088X3665 | 088X3666 | 088X3667 | 088X3668 |
| 088X3670 | 088X3672 | | | | |



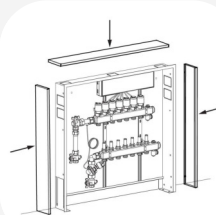
088U2125

**Floor Heating Controls,
Danfoss Icon2™ 24V RT wired,
Room Thermostat, 24 V, In-
wall**

24V Room Thermostat, In-wall
80x80, Wired 24V

Related products

- | | | | | | |
|----------|----------|----------|----------|----------|----------|
| 088X3644 | 088X3645 | 088X3646 | 088X3647 | 088X3648 | 088X3650 |
| 088X3652 | 088X3664 | 088X3665 | 088X3666 | 088X3667 | 088X3668 |
| 088X3670 | 088X3672 | | | | |



088X3014

UnoFloor accessories

On wall panels for UnoFloor cabinet
610

Related products

- | | | | | | |
|----------|----------|----------|----------|----------|----------|
| 088X3104 | 088X3105 | 088X3106 | 088X3124 | 088X3125 | 088X3126 |
| 088X3202 | 088X3203 | 088X3204 | 088X3205 | 088X3206 | 088X3222 |
| 088X3223 | 088X3224 | 088X3225 | 088X3226 | 088X3644 | 088X3645 |
| 088X3646 | 088X3664 | 088X3665 | 088X3666 | 088X3668 | 088X3804 |
| 088X3805 | 088X3806 | 088X3814 | 088X3815 | 088X3816 | |

Spare parts code numbers



088H3250

**Thermal actuators, TWA-A,
RA, Supply voltage [V] AC:
230, NC, 1.15 m**

TWA-A NC 230V, 1.15 m cable

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3804	088X3805	088X3806	088X3807
088X3808	088X3810	088X3812	088X3814	088X3815	088X3816
088X3817	088X3818	088X3820	088X3822		



013G7376

**Service built-in valve for
manifold**

Service built-in valve for manifold

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3644	088X3645	088X3646	088X3647
088X3648	088X3650	088X3652	088X3664	088X3665	088X3666
088X3667	088X3668	088X3670	088X3672	088X3804	088X3805
088X3806	088X3807	088X3808	088X3810	088X3812	088X3814
088X3815	088X3816	088X3817	088X3818	088X3820	088X3822



088U1041

**Floor Heating Controls,
Danfoss Icon™ 230V Wiring
Center, Wiring center, 230 V,
Output voltage [V] AC: 230,
Number of channels: 8, On-
wall**

Icon Wiring center 230V, 8 channels,
CH version, Wired 230V

Related products

088X3804	088X3805	088X3806	088X3810	088X3814	088X3815
088X3816	088X3818	088X3820	088X3822		



088U0819

**Replacement flowmeter for
FHF & SSM manifolds**

Replacement flowmeter for FHF &
SSM manifolds

Related products

088X3104	088X3105	088X3106	088X3107	088X3108	088X3110
088X3112	088X3124	088X3125	088X3126	088X3127	088X3128
088X3130	088X3132	088X3202	088X3203	088X3204	088X3205
088X3206	088X3207	088X3208	088X3210	088X3212	088X3222
088X3223	088X3224	088X3225	088X3226	088X3227	088X3228
088X3230	088X3232	088X3644	088X3645	088X3646	088X3647
088X3648	088X3650	088X3652	088X3664	088X3665	088X3666
088X3667	088X3668	088X3670	088X3672	088X3804	088X3805
088X3806	088X3807	088X3808	088X3810	088X3812	088X3814
088X3815	088X3816	088X3817	088X3818	088X3820	088X3822



088X3012

UnoFloor accessories

Frame and door for UnoFloor cabinet 960

Related products

088X3110 088X3112 088X3130 088X3132 088X3210 088X3212
088X3230 088X3232 088X3650 088X3652 088X3670 088X3672
088X3810 088X3812 088X3820 088X3822



088X3010

UnoFloor accessories

Frame and door for UnoFloor cabinet 760

Related products

088X3107 088X3108 088X3127 088X3128 088X3207 088X3208
088X3227 088X3228 088X3647 088X3648 088X3667 088X3668
088X3807 088X3808 088X3817



088U2110

Floor Heating Controls, Danfoss Icon2™ MC, Main Controller, 230 V, Number of channels: 15, On-wall

Advanced, Zigbee/Bluetooth communication, EU version, Wireless/Wired 24V

Related products

088X3644 088X3645 088X3646 088X3647 088X3648 088X3650
088X3652 088X3664 088X3665 088X3666 088X3667 088X3668
088X3670 088X3672



088H3112

Thermal actuators, TWA-A, RA, Supply voltage [V] AC: 230, NC, 0.95 m

TWA-A NC 230V

Related products

088X3644 088X3645 088X3646 088X3647 088X3648 088X3650
088X3652 088X3664 088X3665 088X3666 088X3667 088X3668
088X3670 088X3672



088X3008

UnoFloor accessories

Frame and door for UnoFloor cabinet 610

Related products

088X3104 088X3105 088X3106 088X3124 088X3125 088X3126
088X3202 088X3203 088X3204 088X3205 088X3206 088X3222
088X3223 088X3224 088X3225 088X3226 088X3644 088X3645
088X3646 088X3664 088X3665 088X3666 088X3804 088X3805
088X3806 088X3814 088X3815 088X3816



088U1040

Floor Heating Controls, Danfoss Icon™ 230V Wiring Center, Wiring center, 230 V, Output voltage [V] AC: 230, Number of channels: 8, On-wall

Icon Wiring center 230V, 8 channels, Wired 230V

Related products

088X3104 088X3105 088X3106 088X3107 088X3108 088X3110
088X3112 088X3124 088X3125 088X3126 088X3127 088X3128
088X3130 088X3132 088X3202 088X3203 088X3204 088X3205
088X3206 088X3207 088X3208 088X3210 088X3212 088X3222
088X3223 088X3224 088X3225 088X3226 088X3227 088X3228
088X3230 088X3232 088X3817

Media

Use heating water according to VDI2035 or Ö-NORM H5195-1, fluid category ≤ 3 according to EN1717

Product details

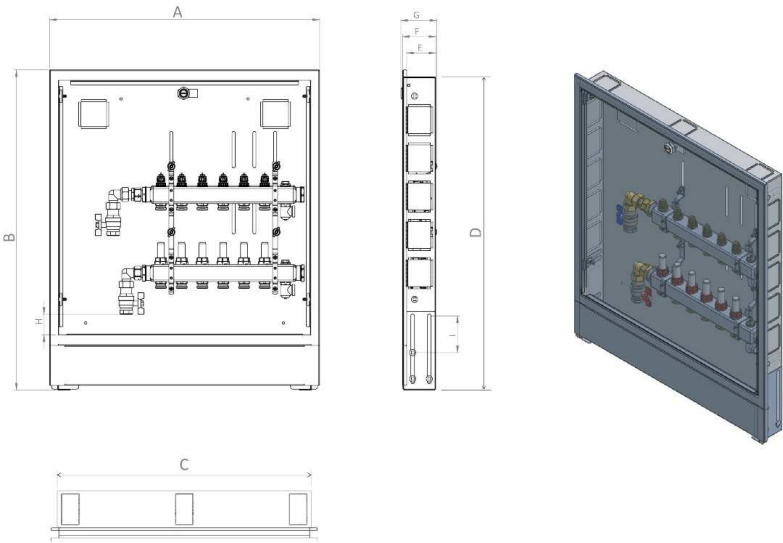
General data

Table: Technical data

Qmax (at $\Delta p = 20$ kPa)	600 l/h (at 100% setting)
Upper limit of pressure controller at zero flow	35 kPa
Differential pressure (Δp for the valve + circuit)	28 - 400 kPa
Nominal maximal pressure	16 bar (PN 16)
Control valves characteristic	Linear
Shut-off leakage rate	Acc. to ISO 5208 class A - no visible leakage
Medium temperature	-10 °C to 120 °C
CV stroke	2.25 mm
Connection - external thread ISO	G 1 A
Connection - actuator	M30 X 1.5

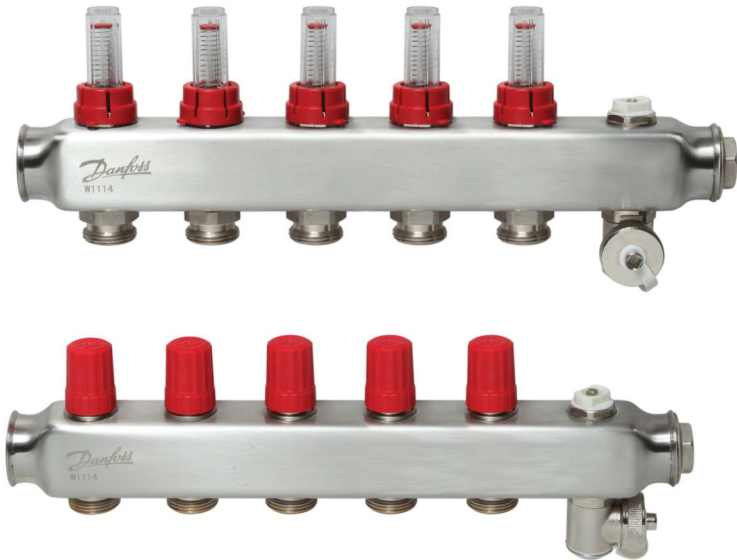


Dimensions



Dimensions [mm]	A	B	C	D	E	F	G	H	I
2 circuits	650	769	619	752	101	111	115	21	88
3 circuits	650	769	619	752	101	111	115	21	88
4 circuits	650	769	619	752	101	111	115	21	88
5 circuits	650	769	619	752	101	111	115	21	88
6 circuits	650	769	619	752	101	111	115	21	88
7 circuits	800	769	769	752	101	111	115	21	88
8 circuits	800	769	769	752	101	111	115	21	88
10 circuits	1000	769	969	752	101	111	115	21	88
12 circuits	1000	769	969	752	101	111	115	21	88

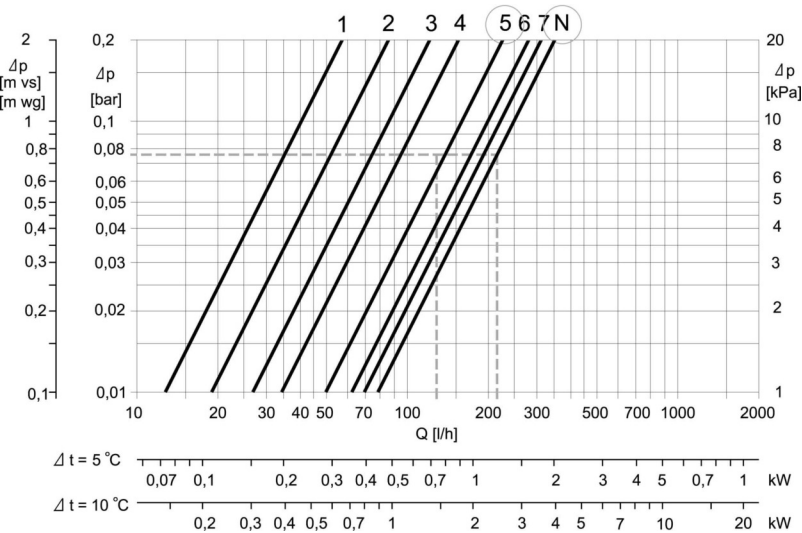
Connections





The SSM manifold is used for controlling water flow in underfloor heating system. Each tube of the floor heating system is connected to the manifold, thus making it possible to control water flow or heat supply to each room in the building individually.

Nominal pressure	PN 6
DH supply temperature Tmax	60 °C
Supply voltage	230V
Output voltage	230V
Connection sizes	G ¾" (IT)

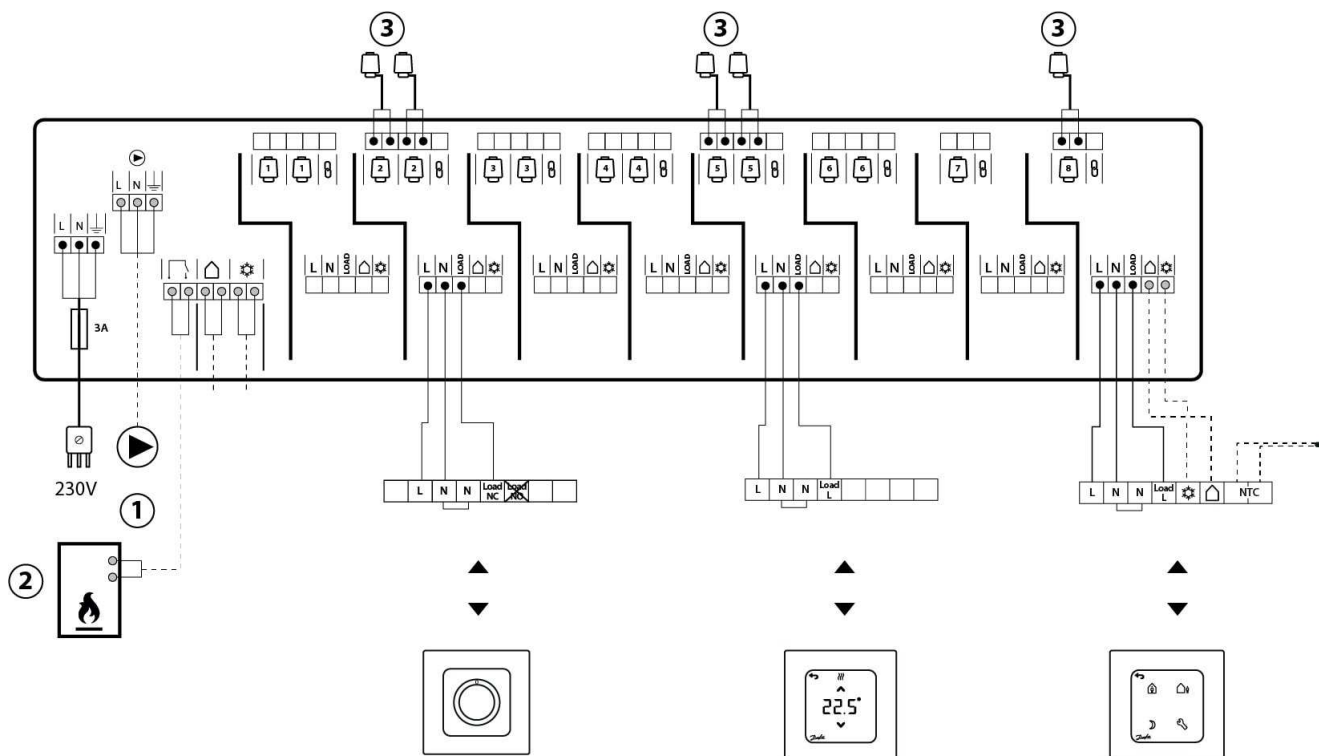


ICONTM Wiring Center (Basic / Comfort)



Danfoss ICONTM Wiring Center is a connection box for use in hydronic floor heating using 230V thermostats and actuators.

Can connect up to 14 thermal actuators from up to 8 room thermostats. It is provided with 230V circulation pump output and voltage-free relays for controlling a boiler. The relays are activated when one or more thermostats require heat.



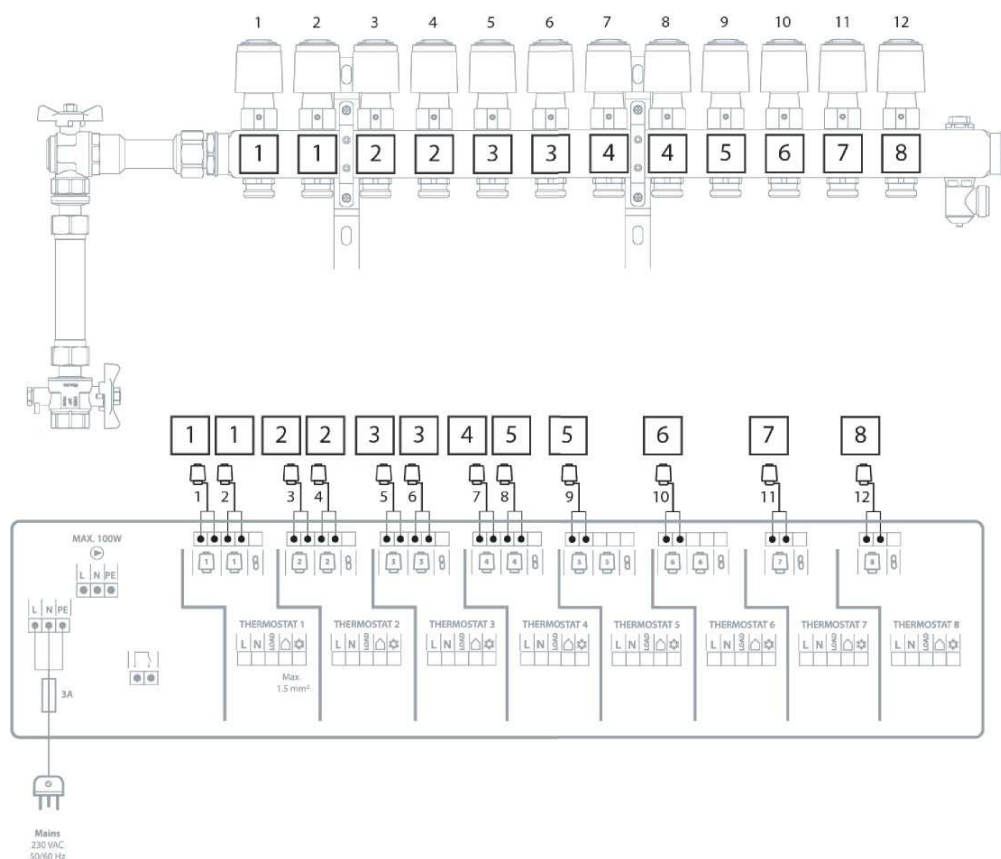
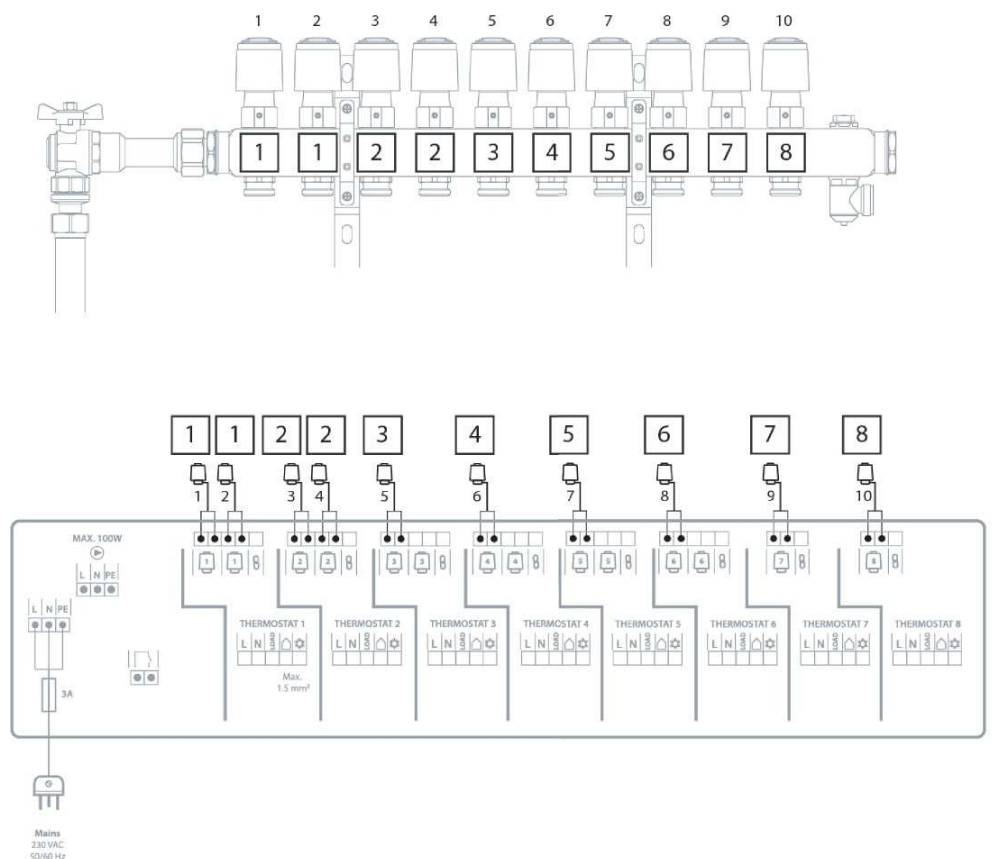
1. Circulation pump
2. Heat signal (potential free)
3. 230V thermal actuator, NC

Note: It is possible to connect up to 8 room thermostats. This means that with 10 and 12 circuits, one or two room thermostats must control two circuits each.

The TWA's is connected from the factory, see how on the next page. But it will be possible to change the connections afterwards.

Actuator wiring LEFT variant

The actuators are wired to respective terminals on the Wiring Center as below. Actuators and cables will be marked accordingly.

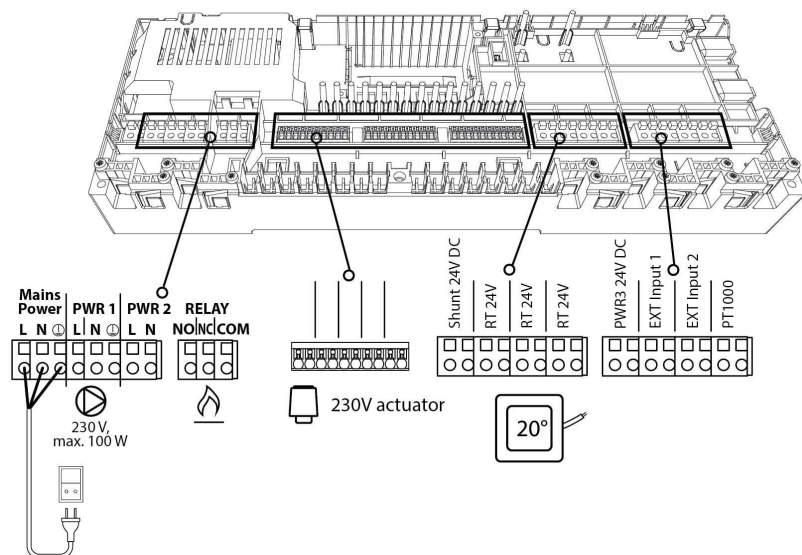


ICON2™ Advanced Master Controller (Control)



Danfoss ICON2™ Advanced Master Controller is a control box for use in hydronic floor heating using wireless or wired thermostats and 230V actuators.

- Automatic balancing (PWM+), which ensure that hydraulic balancing of the system is done by the master controller based on the actual room demand.
- Requires no pre-setting on the manifold
- On/Off control possibility
- Possibility to combine wired and wireless thermostats in same installation



1. Circulation pump
2. Heat signal (potential free)
3. 230V thermal actuator, NC

AB-PM DN20 (Comfort / Control)



The AB-PM connection set is a compact and time saving configuration — designed for creating optimal hydronic balance in horizontal loops — radiator and underfloor heating applications. Flow limitation independent of differential pressure is now guaranteed. It can be combined with most types of manifolds, heat meters and manifold cabinets.

Sizing

AB-PM is to be sized based on manifold's needed flow (Q) [l/h], and needed differential pressure drop for the loop (pr). Max AB-PM flow data are presented in table below.

For any other Q and pr needed, AB-PM size and setting can be indicated

Type	DN 20 HP at 100% setting	
Q _{max}	600 l/h	915 l/h
Maximum pressure drop available for system at max flow	20 kPa	10 kPa
Upper limit of pressure controller at zero flow	35 kPa	
Start required differential pressure (for the valve)	8 kPa	

Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
EU Declaration	Danfoss EU 240806EN670901	Danfoss	LVD, EU RoHS, EMC
Export Control Declaration	PL67 Export Control Declaration Distribution units UnoFloors - Stainless steel	Danfoss	
EU Declaration	Danfoss EU 240806EN671001.02	Danfoss	EU RoHS, RED



Export Control Declaration	Export Control Declaration - Distribution units, UnoFloors - Telecommunication equipment	Danfoss	
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Tender text

UnoFloor Basic

Pre-assembled underfloor heating balancing and control distribution unit must come wired and pre-mounted, suitable for left- or right-hand side connection to the manifold, fitted in in-wall cabinet.

Cabinet must be painted in white (RAL 9016), X mm in height, up to X mm in width and X mm in depth.

It must be possible to connect the room thermostats to the NC actuators via a connection box. The connection box must have not less 8 channels and 14 actuator outputs, have two potential free relays: one for the pump and one for the boiler. Distribution voltage: 230 V AC. Voltage: 230 V AC, max. power per output: 3 W.

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. Flow control of the floor heating system shall be done on a visible presetting scale, 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 with air vent and drain / fill function valve.

The manifold must be made of stainless steel and have the following specifications:

- Maximum flow temperature : 90 °C;
- Maximum differential pressure: 0,6 bar;
- Maximum operating pressure: 6 bar;
- Max Kv setting of the valve (N): 0,97 m²/h.

The actuator must be pre-mounted on a valve. The actuator receives a signal from the room thermostat. Based on the signal, it opens and closes the valve which makes it possible to regulate the energy supply to each room in the building independently. For easy and secure installation, the actuator must be delivered as one part (no adapter) and mounted on the manifold by use of an Allen screw.

The heat meter connection set must be suitable for left and right hand side connection to the distributor/ collector. Connection set must include 110 mm length meter spool piece with no reducing 3/4" connection and flat seals. The connection to the manifold is 1" flat sealing.

UnoFloor Comfort

Pre-assembled pressure independent underfloor heating balancing and control distribution unit must come wired and pre-mounted, suitable for left- or right-hand side connection to the manifold, fitted in in-wall cabinet.

Cabinet must be painted in white (RAL 9016), X mm in height, up to X mm in width and X mm in depth.

It must be possible to connect the room thermostats to the NC actuators via a connection box. The connection box must have not less 8 channels and 14 actuator outputs, have two potential free relays: one for the pump and one for the boiler. Distribution voltage: 230 V AC. Voltage: 230 V AC, max. power per output: 3 W

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. Flow control of the floor heating system shall be done on a visible presetting scale, 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 with air vent and drain / II function valve.

The manifold must be made of stainless steel and have the following specifications:

- Maximum flow temperature : 90 °C;
- Maximum differential pressure: 0,6 bar;
- Maximum operating pressure: 6 bar;
- Max Kv setting of the valve (N): 0,97 m²/h.

The actuator must be pre-mounted on a valve. The actuator receives a signal from the room thermostat. Based on the signal, it opens and closes the valve which makes it possible to regulate the energy supply to each room in the building independently. For easy and secure installation, the actuator must be delivered as one part (no adapter) and mounted on the manifold by use of an Allen screw.

The pressure independent balancing and control set must consist of a linear control valve, impulse tube with adapters to it, 3-piece ball valve with connection to impulse tube and heat meter, connector to manifold . The valve could be used as an automatic flow limiter. The valve should have a mechanism to adjust the flow from 100 % to 0 % of the maximum flow. Maximum recommended flow setting should not be more than 600 l/h at maximum system pressure drop 10 kPa, and no more than 915 l/h at maximum system pressure drop 5 kPa. Shut off service function should be possible with setting mechanism. The authority of the pressure independent control valve should be 1 at all settings (control valve characteristic is not changed). Upper limit of pressure controller at zero flow must be 35 kPa. (Supplier of the valve should provide lab test results). Nominal pressure rating 16 bar.

UnoFloor Control

Pre-assembled pressure independent underfloor heating balancing and control distribution unit must come wired and pre-mounted, suitable for left- or right-hand side connection to the manifold, fitted in in-wall cabinet.

Cabinet must be painted in white (RAL 9016), X mm in height, up to X mm in width and X mm in depth.

It must be possible to connect the room thermostats to the NC actuators via a connection box. The connection box must have not less 8 channels and 14 actuator outputs, have two potential free relays: one for the pump and one for the boiler. Distribution voltage: 230 V AC. Voltage: 230 V AC, max. power per output: 3 W

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. Flow control of the floor heating system shall be done on a visible presetting scale, 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 with air vent and drain / II function valve.

The manifold must be made of stainless steel and have the following specifications:

- Maximum flow temperature : 90 °C;
- Maximum differential pressure: 0,6 bar;
- Maximum operating pressure: 6 bar;
- Max Kv setting of the valve (N): 0,97 m³/h.

The actuator must be pre-mounted on a valve. The actuator receives a signal from the room thermostat. Based on the signal, it opens and closes the valve which makes it possible to regulate the energy supply to each room in the building independently. For easy and secure installation, the actuator must be delivered as one part (no adapter) and mounted on the manifold by use of an Allen screw.

The pressure independent balancing and control set must consist of a linear control valve, impulse tube with adapters to it, 3-piece ball valve with connection to impulse tube and heat meter, connector to manifold . The valve could be used as an automatic flow limiter. The valve should have a mechanism to adjust the flow from 100 % to 0 % of the maximum flow. Maximum recommended flow setting should not be more than 600 l/h at maximum system pressure drop 10 kPa, and no more than 915 l/h at maximum system pressure drop 5 kPa. Shut off service function should be possible with setting mechanism. The authority of the pressure independent control valve should be 1 at all settings (control valve characteristic is not changed). Upper limit of pressure controller at zero flow must be 35 kPa. (Supplier of the valve should provide lab test results). Nominal pressure rating 16 bar.

It must be possible for the installer to set up the underfloor heating control via an app. In the app, it must be possible to generate a commissioning report as a PDF that can be sent to the building owner as documentation.

It must be possible to offer the user an app from which he can control the heat in his home.

Contact details

Online support

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