



Installation Guide

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Assembly information

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1 Assembly information

1.1 Connecting the appliance to an external unit or to a central cooling system

Note

You can only connect specially prepared "r" version appliances, such as FRTSrg, FFTRrg, to an external unit.



CAUTION

Health hazard due to escaping refrigerant/nitrogen! Respiratory problems.

- ▶ Make sure that only trained refrigeration engineers connect the appliance to an external unit or a central cooling system.



CAUTION

Health hazard due to live parts! Electric shock.

- ▶ Before starting assembly work: Disconnect the power plug.

1.2 Components

The following thermostatic expansion valves are installed:

- **Cooler:** Danfoss Thermostatic Expansion Valve TN2 068Z3384.
- **Freezer:** Danfoss Thermostatic Expansion Valve TN2 068Z3384.

1.3 Minimum/power requirement for connecting a single appliance

Model	Voltage	Current consumption	Power consumption
Cooler	220-240 V ~ 50/60 Hz	4.02 A	840 W
Freezer	220-240 V ~ 50/60 Hz	4.4 A	970 W

Model	Cooling capacity	Data
Cooler Width: 1160 mm	519 W	R452a refrigerant, -10 °C evaporating temperature, Condensation temperature +55 °C

Model	Cooling capacity	Data
Cooler Width: 1640 mm	668 W	R452a refrigerant, -10 °C evaporating temperature, Condensation temperature +55 °C
Cooler Width: 2120 mm	668 W	R452a refrigerant, -10 °C evaporating temperature, Condensation temperature +55 °C
Freezer Width: 1160 mm	540 W	R452a refrigerant, -30 °C evaporating temperature, Condensation temperature +55 °C
Freezer Width: 1640 mm	540 W	R452a refrigerant, -30 °C evaporating temperature, Condensation temperature +55 °C
Freezer Width: 2120 mm	656 W	R452a refrigerant, -30 °C evaporating temperature, Condensation temperature +55 °C

1.4 Assembly procedure



CAUTION

Health hazard due to escaping refrigerant/nitrogen! Respiratory problems.

- ▶ Open the refrigerant line carefully.



CAUTION

Damage to the appliance due to condensate! Corrosion of components.

- ▶ Do not shorten the refrigerant line in the insulation.
- ▶ Install the extended refrigerant line in an insulating tube.

Note

Reduction in cooling capacity.

- ▶ If you extend the refrigerant line: do not reduce the inner diameter of the pipe.

- ▶ Install the refrigerant lines that are supplied on the rear side of the appliance toward the cooling unit or the building refrigerant lines according to the structural conditions.

- ø Intake line 10 x 0.7 mm
- ø Pressure line 6 x 0.7 mm

The appliances are equipped with a refrigerant valve (stop valve) that is already connected with the electronics. The temperature is regulated by opening and closing the valve. The thermostatic expansion valve is located in the motor compartment.

- ▶ Set overheating on the valve if required. The works setting is 4K. 1 clockwise revolution corresponds to 2K higher overheating.

- ▶ A connection must be installed in order to evacuate the system. Evacuation is only possible on the pressure side as the passage through the valve is in this direction. It is not permissible to evacuate only on the intake side, as in this case the line from the stop valve to the building connection point would not be evacuated.
- ▶ If you have released the solenoid valve coil, then you can open the valve with a suitable ring magnet. This can be noticed by a clicking sound.
- ▶ In order to avoid vibration noise and breaks in the refrigerant lines, they must be installed accordingly.

The system was already tested for leaks in the factory. Leaks can result from bending the pipes and adjusting the overheating.

- ▶ Solder joints must be checked for leaks.
- ▶ Make sure there are no leaks near the pipe lead-through.

1.5 Electrical connection

- ▶ Connect the appliance to the mains.

Note

The coolant unit cannot be controlled using the appliance user interface as it does not have an interface for this.

1.6 Tests and checks

- ▶ **Leak check:** Check all solder joints and screw connections for leaks.
- ▶ **Functional test:** Check of all operating conditions (cooling, defrosting) in consideration of the description of the operating and control elements according to the user instructions.
- ▷ Malfunctions are signaled by various alarms. A failure of the central cooling system is signaled by a temperature alarm.



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EN Refrigerator and freezer

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