

FLOOR HEATING AND COOLING

INSTRUCTIONS

All Parky floors can be combined with underfloor heating or cooling, with the following conditions.

The underfloor heating or cooling system must be installed in accordance to the supplier's instructions and with the generally valid rules and regulations. Of course, the general installation instructions for floating installation or glued installation are still applicable.

FLOOR HEATING

THERMAL RESISTANCE/CONDUCTION

The thermal resistance indicates the energy loss through the floor. A value below 0.15 m²K/W signifies compatibility with floor heating. As illustrated in the table below, Parky is compatible for floor heating.

	PRO	MASTER	DELUXE+	SUMMIT	SWING
Thermal resistance (m ² K/W)	0.053	0.073	0.109	0.073	0.073
Thermal conduction (W/mK)	0.14	0.14	0.11	0.14	0.14

CONCRETE OR SCREED AS SUBFLOOR

The type of screed and the installation method, combined with the underfloor heating, must comply with the instructions of both the screed supplier and the heating system.

To obtain a homogeneous heat distribution across the entire floor, the distance between the heating elements must not be greater than 30 cm. The depth of the elements is determined by the underfloor heating installer (>4 cm).

The subfloor must be sufficiently DRY across its complete thickness when installing the floor. This is maximum 1.5% according to the CM method for cement-bound floors and maximum 0.3% for anhydrite-bound screed. This can only be guaranteed, when installed in new buildings, by starting up the underfloor heating.

Start up the floor heating gradually at least two weeks before laying your Parky floor, and minimum 21 days AFTER laying the screed (max. 5° per day).

- at 50% of the capacity for 2 weeks
- 100% for the last two days

For newly spread screed, follow the guidelines of your installer for the startup period. A heating protocol should be presented; request it if necessary.

DIFFERENT SYSTEMS

The floor can be installed on a wet or a dry floor heating system. A wet system means that the heating tubes are inserted directly into the concrete slab. A dry system means that the tubes are inserted into a polystyrene foam frame.

The following procedure needs to be respected during the floor heating installation:

Wet system:

- The concrete slab has to be dry before initiating the installation (humidity < 1.5 %).
- The tubes need to be integrated in the concrete slab and should not be visible on the surface.
- Always use a moisture barrier underneath the floor in the case of a floating installation. This avoids condensation between the floor and the concrete slab. All Parky underlays have an integrated moisture barrier.

Dry system:

- This is the most efficient method of floor heating.
- A moisture barrier is essential. All Parky underlays have an integrated moisture barrier.

ALWAYS READ THE GUIDELINES OF THE FLOOR HEATING MANUFACTURER.

THEY SHOULD PROVIDE ADDITIONAL INFORMATION IF REQUIRED!

INSTALLATION INSTRUCTIONS (WET AND DRY SYSTEM)

The floor heating has to be turned off several days before the installation. Make sure to also control the temperature fluctuations and humidity differences within the room. The room temperature has to remain between 10 and 20°C and the relative humidity between 45 and 60%. If necessary, use a humidifier. The Parky flooring packs need to be present in the room at least 3 days before installation. An important step for a correct installation is allowing the floor temperature and humidity to acclimatise to those of the room.

After installing your floor, you must gradually restart the heating (5°C per day). The maximum allowed contact temperature is 27°C. The maximum warm water temperature at the boiler output is 50°C (if applicable). Always change the temperature GRADUALLY at the start and end of a heating period. Avoid heat accumulation through carpets or rugs or by leaving insufficient space between furniture and the floor. Open joints may appear during the heating season.

FLOOR COOLING

More and more systems combine heating and cooling. A heat resistance of less than or equal to 0.09m²K/W is recommended for floor cooling, which means that Deluxe+06 is not recommended for floor cooling.

The other Parky collections can be installed (following our standard installation instructions) on cooling systems but only in certain conditions. First of all, the floor cooling system must be equipped with an advanced control and safety system in order to prevent internal condensation (dew point regulation). To avoid damage to the floor, the supply temperature of the cooling water may not be under the dew point temperature. Lower temperatures will produce condensation in the floor and will cause warping, distortion, swelling and gapping.

An effective control system consists of automatic probes that can detect when the dew point (= when condensation starts) is reached under or in the floor, and then the cooling is switched off. Room thermostats should never be set under 24°C. In addition, thermostats must never be set at a temperature which is 5°C lower than the room temperature. So at a temperature of 32°C, the room thermostat must not be set lower than 27°C.

The cooling circuit must have a control that prevents the temperature of the cooling liquid dropping below 18 to 22°C. This depends on the climate zone where the floor is installed. In zones with a high relative humidity, the minimum is 22°C; at average humidity and temperature levels, it can go as low as 18°C.

If you do not respect these instructions, the Parky warranty is void.



If you have any questions, don't hesitate to contact your local dealer or the head office in Belgium.

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