

UTclassic



UTclassic is a patented prefabricated radiant panel suitable for wall and ceiling installations.

UTclassic is a patented prefabricated radiant panel suitable for wall and ceiling installations with aluminium heat exchangers. Its main characteristic is that it contains inside the supply backbone and the system of connection between the panels.

The panel size is 2400x1200 mm and can be modulated to obtain new sub-modules that increase the adaptability of the radiating surface.



technical specifications

- thermal insulation support in pre-moulded expanded polystyrene, class 200 density, 39 mm thick, shaped to fit in the aluminium heat exchangers;
- pre-moulded aluminium heat exchangers 400 µm thickness, shaped to fit in the hydraulic circuit;
- hydraulic circuit pipe in PE-Xc Ø 8x1 mm, with intermediate oxygen barrier, plugged in the triple fittings at the backbone ends so that they can be cut in half to obtain base sub-modules of 600 x 1200 mm;
- backbones in multi-layer PeX-Al-PeX Ø 20x2 mm pipe incorporated into the panel along the major centre axis, with triple fittings at the backbone ends for the connection both to the 8 mm pipe and to another panel through push-button joint or to the supply line. The backbones are not anchored to the panel, to facilitate the joint insertion and also to ensure the thermal expansion and tolerance for small transversally misalignments between the panels;
- longitudinal electrical duct (on demand) cut from the polystyrene board (sect. 28 x 20 mm) placed between the back bones for the passage of the cables and connecting the half moon ends;
- gypsum finishing plasterboards, the surface is special papered to facilitate the finishing operations and has laser-traced drawing of the hydraulic circuits and marks for the anchorage screws at 400 mm and 600 mm. The board is glued to the whole set of insulated support pipe-heat exchangers with water-based vinyl glue. The panel is engraved on the short sides centre with two 150 mm caps to allow the connection of the joints and the testing. The closing caps are included.

modularity

- The 2400x1200 mm size panel can be modulated: it can be cut along the center lines of the main module to get new sub-modules that allow to design a radiant surface with the best adaptability to the shape of the ceiling.

integrated LED lighting

- During the construction phase, the laser marking, which highlights the hydraulic circuit, helps the easy placement of LED lights (up to 50 mm diameter). This innovative technology, fully engineered by UnderTree ensures a lighting solution with increased energy saving and the most advanced lighting comfort. Moreover, between the two panel backbones can be obtained a longitudinal site where the electrical cables can be placed.



technical specifications

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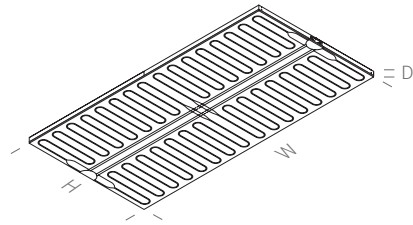
features	radiant gross area (panel total surface)	2,88 sqm
	water content	1,85 l
	board thermal conductivity	0,21 W/mK
	heating capacity (DIN EN 14037)	75 W/sqms (ΔT : 15K)
	cooling capacity (DIN EN 14240)	49 W/sqm (ΔT : 8K)

dimensions and weight
nota 1

dimensions (W x H x D)
2400 x 1200 x 52,5 mm

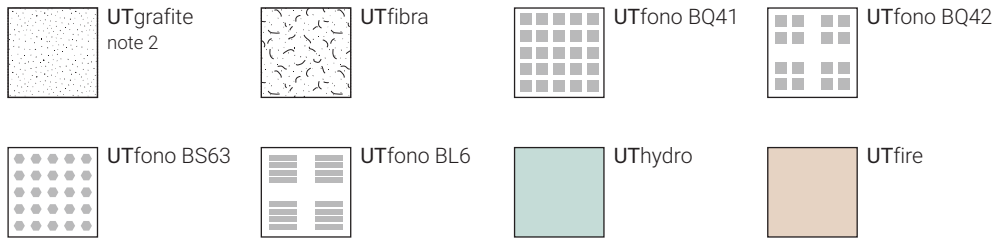
weight when empty
38 kg

weight with water
40 kg



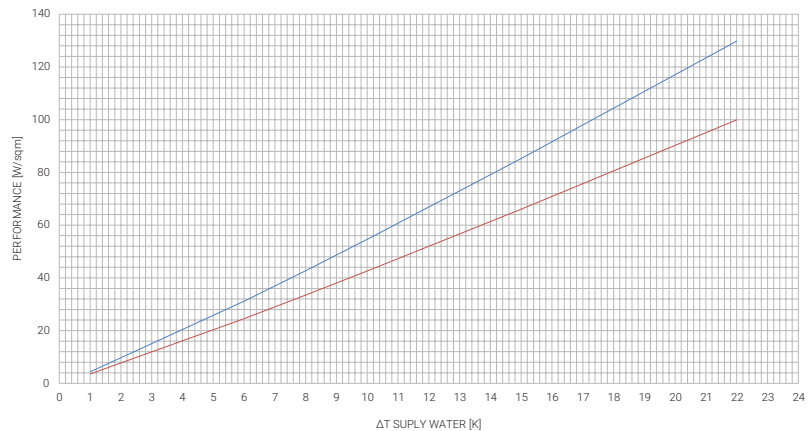
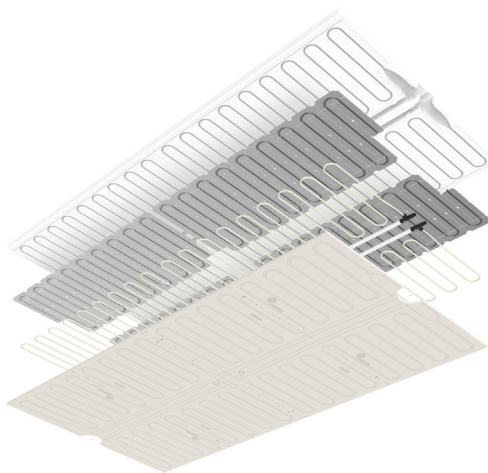
complementary panels
UTclassic neutral: blank panel for not radiant surfaces to be combined with UTclassic radiant panels (dimensions 2400 x 1200 x 52.5 mm)

available additional finishes



notes

1. All the indicated dimensions have a tolerance of ± 1 mm.
2. Supply subject to availability or minimum purchasing requirements.



Note: Efficiency in W/sqm determined by tests in thermostatic chamber according to EN14037 and EN14240.