Radiant ceiling heating and cooling

Radiant cooling and heating panels create a very comfortable, thermally balanced indoor climate. The temperature of the heating surfaces can be precisely adjusted, so as to achieve optimum heat transmission to the occupants in the room. Water, circulated in a closed system, is used as the heat-transfer medium within the panels. The advantage of water over air is its significantly higher energy transmission capability: at a given flow volume, water can transfer 7,000 times more energy.

The panels are made up of two 0.6 mm thick stainless steel sheets that are deep-drawn and then electrically welded around the edges. The resulting cross-section ensures full flow through the system and an even temperature distribution within each panel. The system is hygienic, maintenance-free and absolutely noiseless. As coated surfaces have better radiation properties than plain metal, the surface of the flat heat exchangers are thermo-painted and powder-coated.