

PEXATHERM

Ceiling Heating (and Cooling) System



Unobstructed comfortable space for office or home.



PEXATHERM modules in ceiling ready to be pressure tested and covered with ceiling boards. Black PEXAPIPE conduit seen here is used for lighting cable conduit. Modules cool offices heated from lights and computer equipment.

Comfort All Year Round

PEXATHERM modules give winter heating cool environment in one system. PEXATHERM ceiling cool the hot rising air which circulate down summer. While in winter, the warmed ceiling room quickly and evenly, as with all good underfloor heating systems. The ceiling cover of plasterboard, or match board provide little resistance to heat transfer when compared with floor covering. Hence the response time in such a system is much faster. All the benefits of invisible and energy saving floor central heating are retained, and new ones are added into one integrated system.

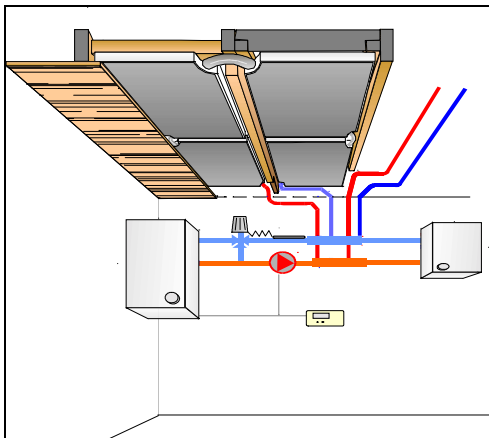
comfort with summer heating panels in the and cool the room in radiates heat to the

How to Install It

PEXATHERM modules are screwed loosely to battens between ceiling joists or rafters with the insulation jacket facing upward and connected together using the module welding tool provided. The module pipe is connected to the central manifold. Plasterboards are nailed in position pushing the modules in place and providing good contact between module and surface element.

How Does It Work

A heat source such as a condensing boiler or heat pump is used. The latter can be reversed to cool water in summer. Alternatively a separate water chiller feeds the manifold in summer via a 3-port diverter valve. The air temperature is raised to 21 deg. C in winter while the ceiling temperature ranges from 24 to 28 deg. C. while in summer air temperature is reduced from 25 to 21 Deg. C when water in the modules is chilled to 13 deg. C. This system avoids forced air conditioning ventilation and thus avoid sick building syndrome experienced in many office buildings.



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Module 1000 X 400 X 33 mm in between rafters carrying warm or chilled water supplied either by condensing boiler or water chiller.

Progress Through Integration

IPPEC's advanced heating and plumbing system can be incorporated with the rest of the mechanical services of the building to give superior levels of comfort without compromising space or energy. All systems are supplied with a technical project dossier which include detailed layout drawings to simplify installation.

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