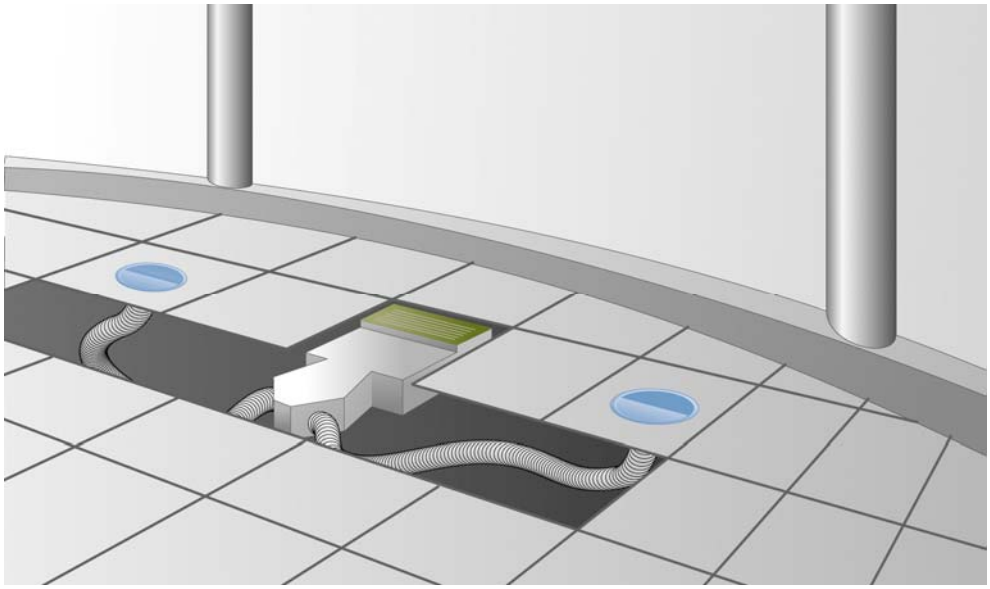
TASAIR FAN COIL UNITS

FAN COIL UNITS

The Fan Coil Units are essential to enable peak performance of the Tasair PAC (Personalised Air Control) System as they provide additional cooling or heating to areas that experience extra or uneven heat loads. The Fan Coil Unit is located within the underfloor plenum and treats a mixture of conditioned air from the underfloor plenum, and air from the office space. The re-conditioned air is distributed from the Fan Coil Unit into the office space via flexible ducts connected to two floor grille outlets.



Design & Installation

The Fan Coil Unit's main housing is designed to suit the standard 600mm x 600mm access floor panel with a 500mm x 150mm cut-out for the unit's floor grille outlet. The main housing is mounted to the underside of a full access floor panel with the floor grille outlet exposed through the panel to finish flush with the access floor. The thermostat controls, water inlet/outlet, and power and are connected to the main housing, whereas the two floor grille outlets are connected, via flexible ducts, to the unit's air distribution piece.

Thermostat Control

A cooling and heating thermostat can be used to control the air conditioning supply for a nominal series of Fan Coil Units. The thermostat is usually wall-mounted in a prominent position within the immediate area being controlled.

Recommended Locations

The Fan Coil Units are incorporated into the Tasair PAC System to help condition areas of extra or uneven heat loads. Such conditions are often experienced around the building perimeter, conference/meeting rooms, or caused by heat-producing electronic equipment etc. Within these areas, Fan Coil Units should be positioned close to perimeter walls in locations that reduce traffic over the unit's floor grille. The connecting floor grille outlets should be positioned either side of the Fan Coil Unit to enable even distribution of conditioned air.

Quiet Operation

A low power electric fan in an acoustically designed housing provides very quiet operation of each Fan Coil Unit.

Technical Data	
Air Quantity	190 l/s
External Resistance	50 Pa
Coil Capacity Total	2200 Watts
Coil Capacity Sensible	2200 Watts
Coil Air Entering	23.0 / 15.0 C dB/wB
Coil Air Leaving	11.3 / 10.8 C dB/wB
Water Flow Rate	0.13 l/s
Water Entering/Leaving	6/10 C
Noise Level in Med Hard Room	38/40 NC
Electric Heating (Optional)	2000 Watt Maximum
Power Supply	240 Volts
Power Absorbed - Fan	180 Watts
Power Absorbed - Heater	2000 Watt Maximum
Size - Length x Width x Height	500 x 500 x 230 mm
Pipe Connection	15mm BSP or quick release couplings
Drain Connection	20 mm