

Biddle

DECOQT SPECIFICATION SHEET

Coils

Coils are manufactured from copper tube, mechanically expanded to die cut aluminium fins with 15mm connections at 40mm centres. Circuits are of counter flow design to maximise heat transfer. Factory tested to 20 bar air under water testing and rated for working pressures of up to 8 bar. Factory fitted valve connections are tested with 8 bar compressed air and leak detection spray.

Casing

The casing is fabricated out of 1.0mm galvanised steel construction contoured and lined internally to absorb noise with stiffening to prevent distortion and drumming. The unit has slotted drop fixings for 8mm drop rods.

Access Panels

Access is obtainable from below to give easy reach to all major components across the width of the unit. The access panel is fixed by 2 screws and requires lifting up to drop down. The access panel is sealed against the face of the unit to avoid any leakage.

Fans

Each unit has double-inlet, double-width centrifugal fans complete with built-in Electronically Commuted (EC), Direct Current (DC) motors direct drive motor complete with integral thermal protection. The high specification motors incorporate “sealed for life” bearings, are anti-vibration mounted to give an expected life in excess of 40,000 running hours and feature a soft start feature. Connection is via a spring loaded connector in the unlikely event of needing to be removed.

Spigot

The unit is supplied with a 125mm plastic fresh air spigot to the rear (supplied separately), to allow fresh make up air to be put into the room.

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Filters

The filter is fitted within a flexible wire frame and is easily accessible for ease of routine maintenance or replacement by lifting the hinged grille. Once removed, no dangerous components can be accessed making it suitable for use by non-technical staff or members of the public.

Condensate Trays

Condensate trays are manufactured from powder coated galvanised steel to prevent any corrosion. In order to prevent moisture from forming on the outside all condensate trays are covered with 2mm closed cell, insulation. The tray covers the whole of the coil and any internal valve sets, to ensure that all condensate is captured safely. In the case of externally fitted valves, a separate drain tray can be supplied.

Internal condensate trays can be supplied with or without a condensate pump and feature a hose connection for a drain outside of the unit.

Insulation

Insulation is provided on all internal surfaces and the bottom of the condensate tray.

Internal

insulation is from 10mm open cell foam with a PU skin for superior acoustic and thermal performance.

Controls

Located on the rear of the fan coil for ease of access, wiring and noise, the fan connections are externally located. A specifically designed cover can be supplied to house any customer specific controls, still allowing for access from the rear and from below. The controls enclosure can contain an on/off switch with neon, fuse and potentiometer to manually adjust the airflow at time of commissioning. 24V transformers, 3 pin plug with flex, fan monitoring boards and fan enable relays are all available on request.

Grille

The unit intakes and discharges air through a single piece hinged and curved grille that when opened provides access for cleaning or replacing the filter. Angled to obscure any views into the unit and to discharge air towards the ceiling to reduce raft risks, it's supplied in RAL9016 with other colours available on request.

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