PROAIR SERIES SPECIFICATION SHEET

The Biddle ProAir Series offers a high performing and energy efficient range of fan coil units. Suited equally to new build and refurbishment projects, the ProAir range meets the stringent requirements of the UK specification market.
The range is available in two depths: 270 and 235; and it offers a wide selection of sizes and performance capabilities. This allows the customers to create a tailored climate solution for each individual space, ensuring the right unit can be selected to meet the exact requirements of the room.

CASING

The ProAir Series range is manufactured from 1.2mm thick galvanised sheet steel which is then formed to provide a rigid, robust and vibration free construction. The casing incorporates a rectangular inlet and a lined discharge plenum which is where the circular spigots are positioned.

SPIGOTS

Manufactured from galvanised steel, the spigots are positioned at the front of the unit. For the ProAir 270, the spigot's diameter is 250mm and for the ProAir 235 is 200mm.

FILTERS

Biddle offers a selection of G2 or G3 filters that protect the coil and fans from ingress of small particles. The filter can be removed by undoing two screws and opening the hinged panel. A removable wire frame filter, secured at the bottom of the unit, is fitted as standard at the inlet of the fan coil.

COILS

The coils are manufactured from copper pipe which is mechanically bonded to aluminium fins.
On a standard coil block, up to 8 tubes are used for heating with the remainder used for cooling. Coil terminations are 15mm for both the heating and cooling flow/return and enable ease of fitting 4 port valves, PIC Valves or even full Commissioning Sets. Coils are rated for a working pressure of 16 Bar. They are circuited to provide a low pressure drop, of approximately 10 kPa, at normal operating outputs.

CONDENSATE TRAY

An internally powder coated galvanised condensate tray covers the whole of the coil and valve set arrangement. The tray has a fall to one end to a 15mm copper connection to attach to a drain. The underside of the tray is insulated with 3mm thick black foam to prevent moisture formation. The condensate tray is extended at the drain end to accommodate and support fitted valve sets including PIC Valves.

FANS

The fans have a metal housing and metal impeller and are fitted with Electronically Commuted (EC), Direct Current (DC) motors. They incorporate sealed-for-life bearings and include features such as 'soft start' which help extend their life span. Where required, a harmonic filter is fitted between the mains supply and the motor(s) to comply with the Electromagnetic Compatibility (EMC) Directive, 2014/30/EU.

INSULATION

Insulation is to be provided on all internal surfaces and on the bottom of the condensate tray. Internal insulation is from 12mm Class "O" open cell expanded foam for superior acoustic and thermal performance.

Finish

All units are supplied and manufactured, as standard, in unpainted galvanised sheet steel. A selected range of painted finishes are available on request.

CONTROLS

The product's controls offer is designed to be flexible to suit project specific controls or can be supplied with a range of capable direct digital controllers. The generous controls enclosure is supplied with every unit as standard.

BASIC CONTROLS

Some projects require the ProAir Series to be controlled by remotely placed controllers pre-installed on site and for these applications a basic speed controller (potentiometer) can be supplied to allow for local setting and adjustment of the airflow at commissioning stage.

PROJECT SPECIFIC CONTROLS

Biddle can work with a project's System Integrators to factory fit third party controls into the product, reducing installation and commissioning time on site. The ProAir Series can also be supplied with different transformers, fan enable relays and other key components to bridge the gap between the different controllers on the market to ensure all major brands of controller can be supported.

Direct Digital Controls

For projects where System Integrators haven't been appointed, or where a controls' offer needs to be more advanced than just simple fan speed control, Biddle can supply a wide range of digital controllers with different room controllers to suit the installation. These controls can be fitted with the accessories to report faults, control temperatures to remote locations (useful for shop floor environments where controls are to be hidden) or group together to give zoned temperature control. Where fan coils need to be integrated into a building management system, all the offered controllers support common BMS protocols to allow them to communicate with new and existing BMS systems. These systems can then further enhance the energy savings from the ProAir range, whilst giving additional benefits such as fault reporting, trend logging and remote off-site diagnoses.

IF YOU ARE LOOKING FOR MORE INFORMATION YOU CAN ASK OUR DEDICATED TEAM OR DOWNLOAD OUR BROCHURE AND MANUAL FOR THE PRO RANGE.

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