



PRO RANGE SPECIFICATION SHEET

This range is the latest addition to the extensive Biddle offering of high performing and energy efficient fan coil units. Suited equally to new build and refurbishment projects, the PRO range meets the stringent requirements of the UK specification market.

The large range of options available allows customers to create a tailored climate solution for each individual space.

CASING

The PRO range of units are manufactured from 1.2mm thick galvanised sheet steel which is then formed to provide a rigid, robust and vibration free construction. They are also internally lined to ensure the noise levels are kept as low as possible. The casing also incorporates a rectangular inlet and a lined discharge plenum which is where the circular spigots are positioned.

SPIGOTS

Fixed to the front of the unit the outlet spigots are to be 250mm diameter and manufactured from galvanised steel. Unused spigots can be closed off using blanking plates. Then if needed in the future they can be opened.

FILTERS

Designed to protect the coil and fans from ingress of small particles, the filter can be easily removed for cleaning and replacement, by undoing two screws and opening the hinged panel. The removable G2 wire frame filter, secured at the bottom of the unit and is fitted as standard at the inlet of the fan coil.

COILS

Biddle coils are manufactured from copper pipe which is mechanically bonded to aluminium fins. Coils are rated for a working pressure of 16 Bar and are to be unhandled so that the handing of a unit can be site altered. Also tail terminations are to be at 40mm centres. Our coils are configured to provide counter flow where the water will always travel through the coil in the opposite direction of the air flow, providing the most efficient and cost effective heat exchange possible in a fan coil unit.

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.

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FANS

The Pro range uses the most energy efficient motors available, however we make sure that the performance of the unit is not compromised. Our fans have a metal housing and metal impeller and to be 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.

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.

ACCESS

Access to all major internal components is to be via a one-piece removable panel which is held in place with 2 screws. The condensate tray is also removable to get to the underside of the coil.

CONTROLS

We offer 4 levels of control options on for the Pro range, basic, project specific, advanced and of course free issue.

- BASIC CONTROLS

Some projects may require the unit to be controlled by remotely placed controllers pre-installed on site. For these applications the PRO can be supplied with a basic speed controller (potentiometer) to allow for local setting and adjustment of the airflow at commissioning stage. The speed controller is fitted with a control housing mounted on the side of the unit.

- 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 with a fully flexible and tailored offer. The PRO 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 with ease for everyone involved.

- ADVANCED CONTROLS

For the smaller or simpler projects, Biddle supply a comprehensive controller offer to provide direct digital control of the PRO with heating and/or cooling coils. Communication options are also available to enable the controller to be integrated into a larger BACnet® network of a building automation system or alternatively multiple PRO units can be connected together to allow a scalable system for larger rooms. With return and supply air sensors built in as standard, the controller will work to ensure that temperatures in the space are controlled and thermal comfort is maintained for the building's users

NOISE

The Pro range has been engineered to be as quiet as possible. The internal insulation and energy efficient fans allow the Pro units to run without causing a disturbance. Every Pro unit have been independently tested and the sound power data is available on request.

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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