



## Design Flexibility for Quality Environments



**THERMO**  
**AIR** air handling units





Built on many years experience and in response to the needs of system designers, contractors and end users, the ThermoAir range of air handling units provides practical solutions to differing applications. A choice of constructions, configurations and components enables us to accommodate building space restrictions, as well as various site handling and installation factors.

## Flexible Designs

### FANS

Large range of well proven, direct and belt-driven, forward and backward curved, double inlet centrifugal fans, manufactured by Imofa at ISO 9000 quality assured plant.

### COOLING COILS

Pressure tested chilled water and direct expansion coils, with copper tube and copper or aluminium fins. All coils fitted with condensate drip trays and plastic eliminators where air velocity is within 25% of design maximum for coil.

### HEATING COILS

LPHW, HPHW or steam pressure tested coils. Copper tubed, aluminium finned and enclosed in galvanised steel casings. Copper finned and other finishes are available for more demanding and corrosive air conditions.

### FILTERS

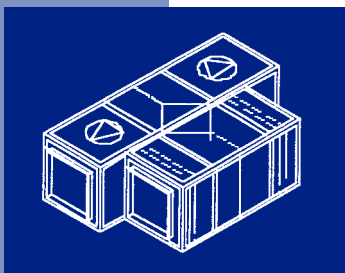
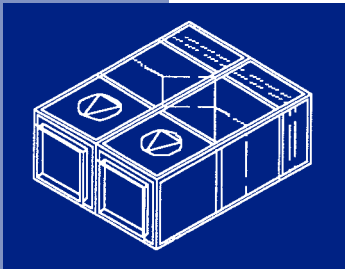
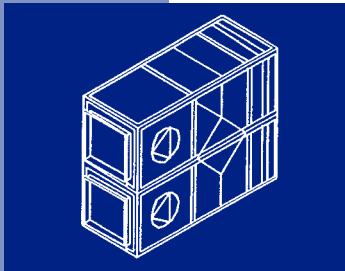
G3 and G4 panel filters and F5 to F9 bag filters – all factory tested to EN779 and selected at optimum velocities for maximum life. Alternatives include carbon filters for kitchens and absolute filters for Clean Rooms and clean areas.



Fan Section



Coil Section



Unit configurations to meet building space restrictions, and performance criteria, include vertical or horizontal airflow, double deck or side-by-side designs.

## Unit Construction

- **Robust construction**
- **Internal and external installation designs**
- **Alternative panel constructions to meet breakout sound criteria**
- **Easy access for routine maintenance**
- **Optional panel finishes**
- **Optimum energy saving solutions**
- **Matching purpose-built control panels**

The ThermoAir range meets the demands of individual projects and applications in many public, commercial and industrial buildings, including: Offices, Schools & Colleges, Health Centres, Kitchens & Restaurants, Clean Rooms, Pharmaceutical Facilities, Swimming Pools, Industrial Process & Storage Areas, Paint Spray Booths and Food Production Areas.

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## for Every Project



Panel/Bag Filter Section



Weatherproof Louvre Section

### ELECTRIC HEATERS

'Stab-in' single and 3-phase heaters wired in stages or for thyristor control. All fitted with automatic overheat cut outs.

### GAS FIRED HEATER SECTIONS

Indirect gas burner chambers with option of modulating or Hi/Lo burn for both horizontal and vertical airflows.

### HEAT RECOVERY

Plate to plate heat exchangers, run around coil systems or rotary heat wheels, selected for optimum heat exchange efficiency.

### HUMIDIFIERS

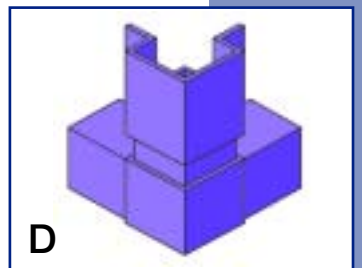
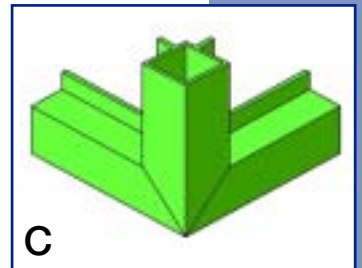
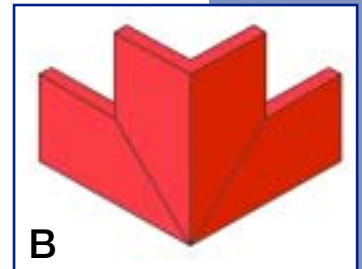
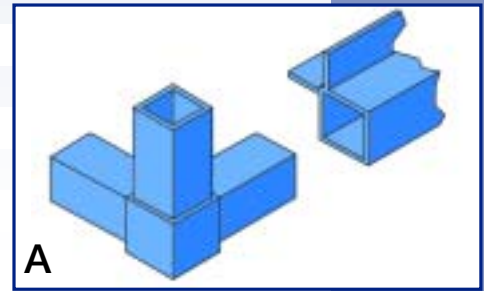
Steam evaporation or jet spray.

### MIXING PLENUMS

Fitted with opposed blade sealed edge dampers, weather louvres or duct connections.

### SOUND ATTENUATORS

Where sound attenuation is required, optimally sized sound attenuation sections can be accommodated within the unit as an option to fitting attenuators in the duct systems.



## for Every Installation

In addition to meeting the requirements of low, medium and high pressure HVAC systems, a choice of frameworks in the ThermoAir range ensures optimum construction – whatever the application or installation requirements.

ThermoAir units combine aesthetics with minimal weight, maintain robustness on large systems, allow easy site assembly of modules, meet high air leakage standards for Clean Rooms and offer clean internal lines for food production plant.

- A EXTRUDED ALUMINIUM PENTAPOST FRAME WITH PUSH FIT MOULDED ALUMINIUM OR PLASTIC CORNERS.
- B TOTALLY WELDED FRAME
- C STEEL BOX SECTION WITH FULLY WELDED PANEL FLANGES
- D FOLDED STEEL FRAME WITH CAST OR FULLY WELDED CORNERS



## Technical Support & Specifications

Imofa's widely experienced technical team can provide advice on the design, selection and installation of units that meet the requirements of individual projects, as well as continued technical help and support – from delivery and installation through to final commissioning.

A series of complementary Technical Datasheets on the ThermoAir range provides preliminary sizing methods, construction and component specifications and general technical data. With a continuous programme of research and development, additional data will be published on an ongoing basis.

### PERFORMANCE

The standard range of unit sizes provide a performance coverage of 0.127m<sup>3</sup>/s to 16.0m<sup>3</sup>/s for low, medium and high pressure systems.

Higher Volume Flows can be provided with unit construction to match application

### SOUND LEVELS

Recognising the contribution of sound to acceptable internal and external environments, close consideration is always given to sound levels in selecting the optimum unit for the installation. The system designer is provided with full spectrum in-duct sound power levels. Where required, full breakout sound data is also available.

### POWER CONSUMPTION

Increasingly end users are concerning themselves with the costs of power consumption and with current and projected legislation on energy efficiency. Imofa engineers always seek air handling plant solutions which minimise power consumption whilst meeting customers' other technical and commercial criteria.

### CONTROL PANELS

A comprehensive, proven range of Imofa UK control panels are available to complement any air handling unit supplied.

Panel functions range from the control of a simple supply unit with electric or LPHW heating to more sophisticated panels that can control units with variable duty supply and exhaust systems, incorporating heating, cooling and heat recovery. Where required, panels are designed to interface with building management systems.

All panels can be supplied separately for remote mounting or pre-wired to the air handling unit.



### Other UK Products

- Direct and Belt-drive Centrifugal Fans • Axial Flow Fans • Bifurcated Fans
- Twin Fan Units • Silencers • Speed Controllers • Control Panels • Space Heaters
- Mobile Cooling/Heating Units • Paint Spray HVAC Units
- Whole-house Ventilation Units



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