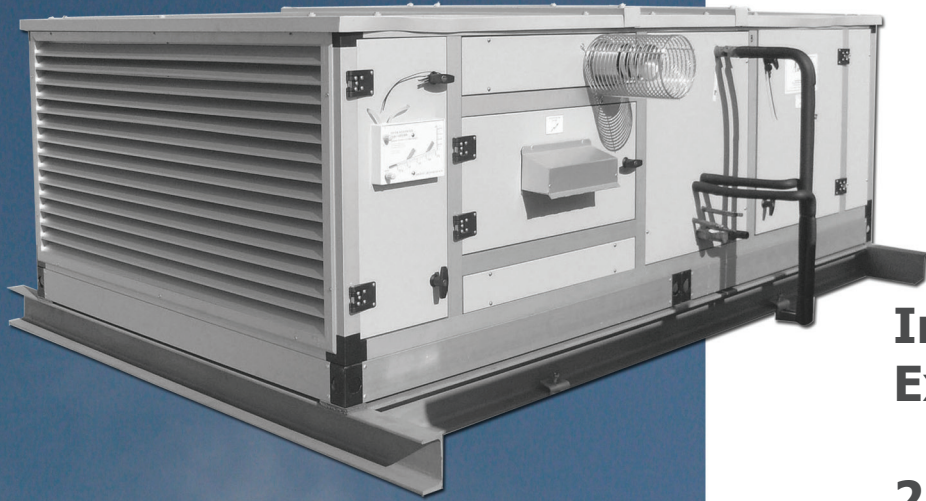


Indirect Gas Fired Units



Suitable:

Warehouses

Shops

Offices

Commercial Kitchens

**Internal or
External Installation**

2 - 3 Week Delivery

Full range 0 - 20 m³/s burners up to
600 kW internal & external applications

AirCraft Air Handling are a leading British
Manufacturer of Air Handling Units providing
quality products and cost effective solutions.

Established in the 1990's, AirCraft have
designed and manufactured bespoke and
versatile units that have provided quality
service in varied environments including
Education, Offices, Shopping Centres,
Laboratories and Hotels. AirCraft products
have created comfortable environments all
over the UK, Europe and the Middle East.

AirCraft

Craftsmanship in Air



Indirect Gas Fired Units

SAMPLE SPECIFICATION

CASING

Unit frame work shall be 50 mm aluminium section with cast corner pieces. The aluminium penta post profile shall be 2 mm thick. Panels shall be flush into the framework providing a smooth outer and inner finish. Panels shall be of double skinned construction tray form comprising of the following:-

50 mm thick and manufactured using 0.7 mm goosewing grey plastisol outer skin and 1.0 mm galvanised inner skin.

50 mm thick insulation with a thermal conductivity of 0.04 w/m³ between skins.

Access panels shall be of hinged design and shall seat into compression rubber seals.

Lockable handles shall be fitted to all access doors.

Units shall be mounted on 100 mm x 50 mm rolled steel channel base which shall be extended to fixing of lifting lugs. Units to be weatherproofed.

Viewing points and lights fitted to fan and filter sections.

Noise insertion losses through casing.

63	125	250	500	1K	2K	4K	8K
13	24	42	45	45	45	45	45

INDIRECT GAS FIRED BURNER

The gas fired heating coils provide 91% minimum thermal efficiencies directly at the point of use thereby eliminating the distribution and standby losses normally associated with central boiler plant.

Optimised energy usage and reduced running costs result from:

- High turn down ratio
- Instant response to changing conditions
- Reduced pre-heat period
- Elimination of residual thermal mass on plant shut down

Fully modulating or high/low options.

Stainless steel burner tubes.

FAN SECTION

Fan shall be double inlet double width with forward curved impellor. Fan wheels shall be statically and dynamically balanced and mounted on a solid steel shaft turning in sealed for life bearings.

Drive motors shall be of the TEFC type with class F insulation wound for 415 v 3 phase 50Hz electrical supply. Motors shall be mounted on slide rails for Vee belt tensioning. Drives shall be by means of Vee belt drive and taper lock pulleys. Fan assembly shall be isolated from unit casing with anti vibration mounts and a flexible connection.

Fan access guards fitted. Motors pre-wired to isolator. Motors pre-wired to inverters.

External mounted invertors in weatherproof enclosure.

Due to our policy of continuous product development, we reserve the right to change the specification without notice. Optional extras may occur a charge. The specifications shown in this literature are for guidance only.

FILTER SECTION

Filters shall be mounted in a galvanised steel frame arrangement for side withdrawal.

The panel filters shall be G4. Bag filters shall be F7.

Manometers fitted to all filters.

Model ref AHC 600 operating range 0-600 pa. Operating limits maximum pressure 200 kpa temperature limits -40 /+60 °C. Accuracy 5 pa (inclined scale) 20 pa (vertical scale).

Gauge fluid ISO-paraffin, s.g. 0.786 kg/dm³ (15°C). Note – structure of gauge prevents the gauge fluid escaping from the meter.

Magnehelic gauges fitted.

DAMPER SECTION

Where stated, the units shall have a fresh air intake and return dampers. Damper to have edge seals fitted to blades and suitable for motorized operation.

Damper torque = 4 Nm per 1m² of damper face area.

HEATING COILS

Heating coils shall be suitable for operation with LPHW. All coils shall be constructed from seamless copper tubes expanded into aluminium fins.

The coil block shall be housed in a galvanized steel casing suitable for 'slide in' application. Connections to be steel BSP screwed.

A 10% margin in capacity shall be included in all coil selections.

All coils shall be tested to 30 kg.cm² air under water and copies of test certificates provided.

Coil face velocity not to exceed 2.5 m³/s.

ELECTRIC HEATER BATTERY

Heating coil shall be suitable for 3PH. Heating element to be of the 'black type' suitable for 3 stage.

The high temperature cut out switch complete with manual reset shall be fitted to the battery.

COOLING COILS DX EVAP

Cooling coils shall be suitable for operating with R410A evap 5°C.

All coils shall be constructed from seamless copper tube expanded into aluminium fins.

The coil block to be housed in galvanized steel casing suitable for 'slide in' application. Coil to be complete with galvanized steel drain tray.

A 15% margin in capacity shall be included in all selections.

Coil shall have polypropylene eliminator fitted. Trap excluded.

All coils shall be tested to 30 kg/cm² air under water and copies of test certificates provided.



Indirect Gas Fired Units

SAMPLE SPECIFICATION

COOLING COILS CHILLED WATER

Cooling coils shall be suitable for operation with chilled water.

All coils shall be constructed from seamless copper tubes expanded into aluminium fins.

The coil block to be housed in galvanised steel casing suitable for 'slide in' application. Coil to be complete with drain tray.

A 10% margin in capacity shall be included in all coil selections.

Coil face velocity not to exceed 2.5m³/s.

RECUPERATOR

Recuperator to be of aluminium plate type, epoxy coated to prevent corrosion shall be of a minimum efficiency of 60%.

Aluminium exchange plates contained within extra strong galvanised steel casing.

Exchange block to be mechanically sealed.

Face and bypass damper fitted to the supply side.

Condensate drain tray fitted.

LOUVRE

Inlet louver fitted with bird mesh screen.

SILENCER SECTIONS

Air handling units shall incorporate supply and extract.

All shall have 'bull nose' ends and incorporate 200 mm pods of 80 kg/m³ mineral wool with scrimface.

ATTENUATOR

Air handling units shall incorporate supply and extract attenuators.

All shall have 'bull nose' ends and incorporate 200 mm pods of 80 kg/m³ mineral wool with scrimface.

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