

PRICING SCHEDULE:

Manufacturers of Bespoke Air Hendling Units and Associated Equipment for Air Conditioning Applications

Ventilation Equipment Limited

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EMAIL TRANSMISSION

To: Atkins	Attention of: Mr Ganesh Lingham		
Date: Monday, 12 March 2007	Email address: Ganesh.Lingam@atkinsglobal.com		
From: Nik Lye	No of pages: 10		

PROJECT: JUDD STREET - KELVIN HOUSE - OUR REF: Q 6879 / 07 / GP / REV 1

We thank you for your recent enquiry and take pleasure in submitting our quotation for the Air Handling Units required on the above project. A summary of our prices follow with individual data sheets and sketches attached.

The prices quoted will remain open for acceptance for 4 weeks and subject to our standard terms and conditions of sale.

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Unit	Description	Model	Cost	Qty	Total
001	AHU 1	L 2060 sp	£ 8,569	1	£ 8,569
002	AHU 2	L 2040 sp	£ 7,410	1	£7,410
		·		Total	£ 15,979
ADDIT	IONAL COSTS:				· · · · · · · · · · · · · · · · · · ·
Cost of delivery to London					
Matching DX condensing units (installation, pipework, wiring, valves and commissioning by others)					

CONSTRUCTION/SPECIFICATION NOTES + DETAILS OF INCLUSIONS AND EXCLUSIONS

- Unit manufactured to our standard construction specification, with our standard materials, door furniture and finish.
- Delivery cost quoted above at Monday to Friday rate.
- Delivery cost quoted above assumes all goods supplied in one shipment.
- ☐ Standard delivery vehicle 40-foot trailer.
- ☐Off loading & final positioning by others.
- ☐ Maximum of 2 hours standing / offloading included per vehicle
- □Current delivery period 6 weeks from drawing approval (up to date period should be confirmed at time of order placement).
- ☐ See the attached additional information page for specification, inclusions and exclusions.
- □NOTE The design of the inter-connecting pipework, positioning of valves etc between the condensing unit and AHU cooling coil is the responsibility of the contractor and is excluded from this tender.
- □Technical data sheets attached are for quotation only. Details are subject to revision when final selections are made for procurement of suppliers.

Regards

Commercial Contact - Brett Wilson

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ADDITIONAL INFORMATION

- 1. Unit framework will be assembled from extruded aluminium section, which will have a plain finish.
- 2. Panels will be double skinned with 50 mm of high density insulation sandwiched between an inner skin formed from galvanised steel and an outer skin formed from pre-painted steel. Our standard colour is Grey C26 Magona.
- 3. The casing complies with Eurovent regulations having the following:
 - ☐ Casing Strength 2A
 - ☐ Thermal Transmittance Class T4
 - ☐ Thermal Bridge TB3
 - ☐ Air leakage Class A
- 4. Fan motors will be pre-wired to externally isolators.
- 5. Vee belts will be protected by a wire mesh door guard.
- 6. All access doors will be hinged/lift off.
- 7. Fan casings will be formed from galvanised steel and remain unpainted.
- 8. Filters will be supplied suitable for either front or side withdrawal and fitted with inclined gauge manometers.
- 9. Cooling coils will be constructed from copper tubes with aluminium fins. In addition the cooling coil will be fitted with polypropylene eliminators to prevent the carryover of moisture.
- 10. The electric heaters will be suitable for either step or thyristor control (controller excluded). The elements will be pre-wired to an externally mounted terminal box.
- 11. The recuperator section will be fitted with face & bypass dampers (suitable for motorisation by others) and a drain tray.
- 12. The unit sections will be mounted on 110mm high base frames.

We have excluded from our tender fitting of all other controls, wiring, trucking, pipework, traps, valves, works and site testing, off-loading, installation and commissioning. Any site work will be carried out during normal working hours only and requires continuity of works and access to all areas at all times. Any item not specifically mentioned in this quotation is excluded.

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UNIT REFERENCE: AHU 1

MODEL: L 2060 sp

UNIT TYPE: Horizontal / Internal

NO OFF: One

Components in direction of airflow as follows: -

SUPPLY AIR

HEATER

Type Electric Air on -4.00 Air off 5.00 Design output 16.00 kW

Operation / control Suitable for thyristor Manual reset cut out

Fitted

Electrical supply 415 Volts - 3 Phase - 50 Hertz - 4 wire

ACCESS

PRE-FILTER

Type Panel Arrangement Flat bank Withdrawal Front Grade G4 Panel Depth 50mm

Manometer Inclined type fitted

SECONDARY-FILTER

Type Bag Arrangement Flat bank Withdrawal Front Grade F6 Bag Depth 535mm Manometer Inclined type fitted

RECUPERATOR

Type Diagonal flow Supply air on -4.00 Supply air off 8.91 Efficiency 55%

Construction Aluminium fins - Galvanised casing Face & Bypass dampers

Fitted Operation Motorised Motor By others

Drain Tray Type Fixed Galvanised Steel

Trap By others

COOLING COIL

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Medium R407C
Evaporating temperature 10.0°C
No interlaced Circuits 1

No of rows
Construction

Construction
Copper tubes – Aluminium fins
Face velocity

2.38 M/s

Eliminators
Fitted

Drain Tray Type Fixed Galvanised Steel

Trap
Recommended Trap size

By others
230 mm

HEATER

Type
Air on
Air off
Design output

5.00
18.00
23.00 kW

Operation / control Suitable for thyristor

Manual reset cut out Fitted

Electrical supply
415 Volts - 3 Phase - 50 Hertz - 4 wire

SUPPLY FAN

Type	Double Inlet Double Width
Impellor	Backward Curved
Drive	Vee belt
Motor arrangement	Single
Motor & drive location	In all de All Cu

Motor & drive location
Air volume

External resistance

Total resistance

Total Efficiency

Fan absorbed power

Motor & drive location
Inside Air Stream
1.43 m3/s
200 Pa
1051 Pa
3400 rpm
74 %
Fan absorbed power
2.04 kW
3.00 kW

Motor power

Motor type

T.E.F.C - single speed

Full load current

6 20 amps

Starting current 6.20 amps – D.O.L.

Electrical supply
415 Volts - 3 phase - 50 hertz

Fan size 280mm

Induct sound power levels (fan intake/outlet)

OBF	63	125	250	500	1000	2000	4000	8000
db	85	87	86	90	86	81	76	70
db	98	95	86	88	84	79	74	68

RETURN AIR

ACCESS

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FILTER

Panel Type Flat bank Arrangement -Front Withdrawal G4 Grade 50mm Panel Depth

Inclined type fitted Manometer

RECUPERATOR

As detailed above Type 20.00 DB - 50.0% WB Extract air on 8.97 DB - 93.0% WB Extract air off

EXTRACT FAN

Double Inlet Double Width Type Backward Curved Impellor Vee belt Drive Single Motor arrangement Inside Air Stream Motor & drive location 1.43 m3/s Air volume 200 Pa External resistance 615 Pa Total resistance 2921 rpm Fan speed 69 % Total Efficiency 1.28 kW Fan absorbed power 2.20 kW Motor power T.E.F.C - single speed Motor type 4.40 amps Full load current 25.96 amps - D.O.L. Starting current 415 Volts - 3 phase - 50 hertz Electrical supply

280mm Fan size

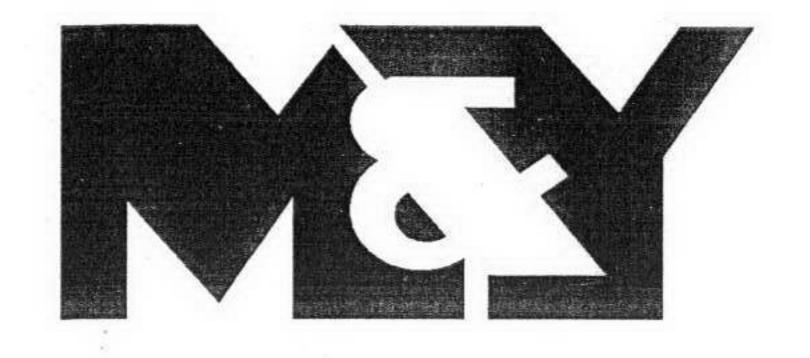
Induct sound power levels (fan intake/outlet)

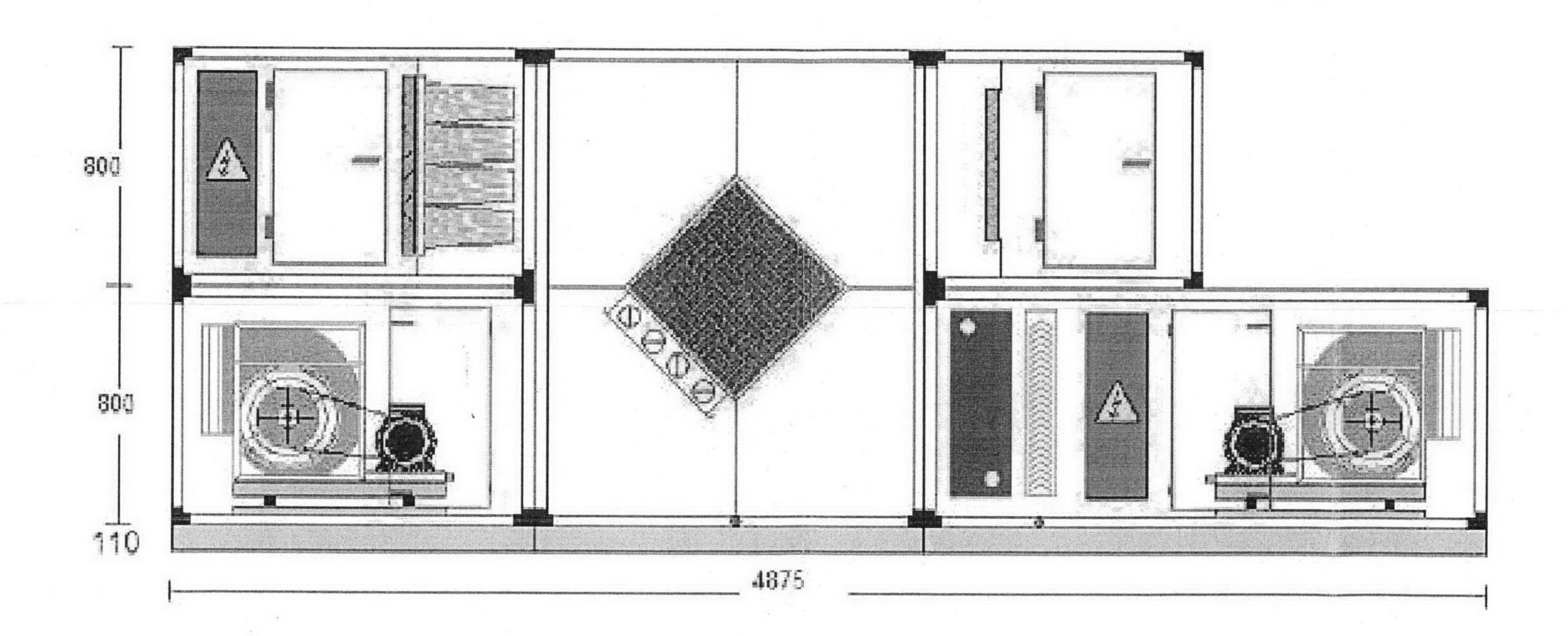
OBF	63	125	250	500	1000	2000	4000	8000
db	84	85	84	86	86	84	80	74
db	97	88	87	88	88	86	82	76

UNIT DIMENSIONS

1600 mm plus 110 mm base Height 1300 mm Width 4875 mm Length 809 kg - (approximately) Weight No of sections **FIVE**

6 Working weeks from drawing approval. **DELIVERY PERIOD**





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UNIT REF: AHU 1 – Rated to handle 1.43 m3/s Supply UNIT SIZE: 800 / 800 H plus 110mm base x 1300 W x 4875 L