

Celsius air conditioning

Pum Thai Food Chain Ltd
3 Hardman Street
Manchester
M3 3HF

"Supplying and installing the latest in air
conditioning technology"

For the attention of Darren Johnson

Our Ref : Q6344
Date : 13 January 2012

Dear Sirs,

Re : Quotation for Air Conditioning to Restaurant

We confirm our quotation for air conditioning, which we summarise below:

- **Market leading ultra reliable Mitsubishi Electric equipment with 5 year warranty as standard subject to maintenance (3 Years Mitsubishi Heavy Industries option)**
- **High efficiency Inverter technology for low energy consumption**
- **Annual Maintenance contract (2 visit per annum) available for £345 + VAT**

Appointed as a Mitsubishi Business Solutions Partner, we are one of the leading suppliers of Mitsubishi air conditioning systems in Northern England - each year we supply and fit around £2 million worth of air conditioning, of which around 90% is Mitsubishi.

Having been in business for 15 years, we install Mitsubishi because we know it to be both technically advanced and the most reliable equipment available.

All of our 20 or more staff are manufacturer trained and certificated and we guarantee that we install to the highest possible standards.

We have provided more details of our quotation below, but if you have any questions please do not hesitate to contact us.

Yours faithfully
Celsius Air Conditioning Ltd.,

Peter Crook

Peter Crook
Director

01706 367 500



07000 CELSIUS



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Celsius Air Conditioning Ltd, 1 Well Street,
Heywood, Greater Manchester OL10 1NT

QUOTATION

Date: 13 January 2012

Our ref: Q6344

Client: Pum Thai Food Chain Ltd
3 Hardman Street
Manchester
M3 3HF

Project: Air Conditioning to Restaurant

Site: The Rock Shopping Centre
Bury
Lancs

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1) Design Brief

In accordance with your instructions we have quoted for the supply and installation of air conditioning systems to provide comfort cooling and heating to the areas indicated.

As indicated in our discussions we have selected units based primarily on heating requirement in order to achieve the most economical selection.

We have quoted for two possible options :

Option A :

Mitsubishi Electric equipment – State of the art equipment with 5 year warranty subject to maintenance.

Option B :

Mitsubishi Heavy Industries equipment – Robust commercial equipment with 3 year warranty subject to maintenance.

2) Price

Our prices for the supply, delivery, installation and commissioning of equipment as described in this quotation are as follows:

Air Conditioning Systems

Option A :

£8,448.00 Nett excluding VAT
(Eight Thousand Four Hundred and Forty Eight Pounds)

Option B :

£7,953.00 Nett excluding VAT
(Seven Thousand Nine Hundred and Fifty Three Pounds)

Optional Annual Maintenance Contract (2 visit) - required for 5-year or 3 year warranty

£345.00 Nett excluding VAT
(Three Hundred and Forty Five Pounds)

3) Equipment

The following equipment would be supplied, installed and commissioned:

Option A :

1 off PLA-RP71/SUZKA71VA2 Ceiling Cassette mounted split type air conditioning system having a nominal cooling and heating capacity of 7.1 kW. (FF RHS)

1 off SLZ-KA50/SUZKA50VA2 Ceiling Cassette mounted split type air conditioning system having a nominal cooling and heating capacity of 5.0 kW. (FF LHS)

1 off SLZ-KA35/SUZKA35VA2 Ceiling Cassette mounted split type air conditioning system having a nominal cooling and heating capacity of 3.5 kW. (FF Middle)

1 off PLA-RP60/SUZKA60VA2 Ceiling Cassette mounted split type air conditioning system having a nominal cooling and heating capacity of 6.0 kW. (GF)

Option A :

1 off FDT71VD/FDC71VN Ceiling Cassette mounted split type air conditioning system having a nominal cooling and heating capacity of 7.1 kW. (FF RHS)

1 off FDT50VD/FDC50VN Ceiling Cassette mounted split type air conditioning system having a nominal cooling and heating capacity of 5.0 kW. (FF LHS)

1 off FDT40VD/FDC40VN Ceiling Cassette mounted split type air conditioning system having a nominal cooling and heating capacity of 4.0 kW. (FF Middle)

1 off FDT60VD/FDC60VN Ceiling Cassette mounted split type air conditioning system having a nominal cooling and heating capacity of 6.0 kW. (GF)

For further technical details on the above systems please refer to the enclosed literature.

4) Positioning

The indoor units would be located in the ceiling void as specified.

The outdoor condensing unit would be located at high level in the service area (GF) or Roof (FF) as specified.

Exact positions to be agreed on site.

5) Refrigerant Pipework

Interconnecting refrigeration Pipework would be installed in accordance with the manufacturers recommended methods. Nitrogen purge would be used whilst brazing. All suction and discharge lines would be insulated. All lines would be tested and evacuated.

6) Condensate Pipework

All necessary condensate Pipework would be installed using a gravity or pump fed pipework system, which would discharge to the nearest convenient point externally.

7) Electrical

Whilst we include for electrical wiring between outdoor unit, indoor unit and remote controllers – we will require mains electrical supplies to be provided by others as detailed below:

The following sized electrical supplies terminated with suitable isolators (weatherproof where external) would be required to be installed by others adjacent to each piece of the following equipment;

Model	Quantity	Indoor Supply	Outdoor Supply
M Series Inverter or Mr Slim Inverter (single phase) <125	1	Not required	16 A SP – any type

We have included for final connections from these isolators to our equipment.

We would be happy to provide a quotation to provide the electrical supplies on request. This will require a further site survey by our electrician.

8) Exclusions

The following work is excluded from our quotation:

Provision of electrical supply - as detailed in paragraph 7.
Phased working
Builders work and decoration works
Anything not specified herein.

9) Commissioning

Upon completion of the installation, the systems would be charged with refrigerant gas and commissioned. A full commissioning log would be made and instructions would be given on how to operate the systems. Written operating instructions would also be provided.

10) Terms and Conditions of Sale

Please note that our normal terms and conditions of sale will apply, a copy of which is attached.

11) Availability

Current availability of this equipment is 1 week.

Notice to commence works: Currently 2 working weeks from receipt of full and final instructions.

12) Working Hours

Our quotation is based on the assumption that all work is carried out during normal working hours.

Should you require any further information or assistance, please do not hesitate to contact the writer at the above number.

Yours faithfully
Celsius Air Conditioning Ltd.,



Peter Crook
Director

**CELSIUS AIR CONDITIONING LTD.
CONDITIONS OF TRADING**

1.Period of Tender

This tender is conditional upon acceptance in writing within 30 days of the date hereof or such longer period as may be agreed in writing. Acceptance of our tender constitutes your consent to these Conditions of Sales and excludes any other conditions, whether expressed or implied which are inconsistent with them.

2.Overtime

This tender is based on the work being done during the recognised normal working hours specified in the National Agreements of the various trades. Overtime authorised by the Customer, his Architect, or other agent shall be an additional charge.

3.Works and Fees not covered in the Tender

This tender covers the items of the Specification only and unless otherwise expressly stated, does not include any of the following (for whatever purposes they may be required). viz Builders', Joiners', Masons', Plumbers', Painters', Electricians', or any other trades' works; Supply and erection of scaffolding, ladders or moveable platforms, hoisting and/or lowering gear, fuel, water, gas or electric current, lighting, fees of District Surveyors. or any other competent Inspecting Authority and Insurance.

4.Terms of Payment

a) Commercial Clients (Ltd Companies Only) - Subject to Satisfactory Credit Check (supply and install projects only) :

Payment during the progress of the work shall be made at the rate of the value of materials delivered on the site (whether fixed or unfixed) and of the value of the work executed, such payment to be made within fourteen days of application and if such payment is not made then, we may suspend or abandon the work and remove unfixed materials, tools and other equipment from the site, any suspension of work in this manner shall be deemed to constitute an extension of time allowed to complete. In the event that the payment is not received within thirty days of application, we shall additionally have the right to demand payment in full for the complete project prior to recommencing the works. Upon completion of the work payment for the balance shall be made 30 days thereafter (subject to status) or as otherwise agreed. We reserve the right to claim interest and compensation charges on late payments, as per the Payment of Commercial Debts (Interest) Act 1998, as amended and supplemented by the Late Payment of Commercial Debts Regulations 2002.

b) All Other Domestic and Commercial Clients and Supply Only Projects:

Payment will be required by credit/debit card at time of order. We do not process any credit/debit card transaction until goods are ready for despatch. Alternatively clients may pay by cheque in advance - cleared funds will be required prior to despatch of any goods.

5.Price Fluctuation

This tender is based on the market prices and rates of materials, labour sub-contracts and transport ruling at the date of tender. We reserve the right to amend the tender price and rates to meet any variations in these prices and rates due to legislation. Government Orders, Regulations or Directions, changes in the National Agreement covering wages and conditions in the industry or any other cause beyond our control occurring between the date of the tender and the completion of the work.

6.Materials

The property in unfixed materials shall not pass until all materials shall have been paid in full. All materials on the site fixed or unfixed are at the sole risk of the Customer and in the event of any of the same being damaged, destroyed or stolen. we shall be entitled to full payment thereof and also for any work damaged, destroyed or lost, and the cost of replacing any such materials and of reinstating or restoring any such work shall be charged as an extra provided that the Customer, shall not be responsible for any loss occasioned solely by the negligence of our employees.

7. Cancellation

In the event of the customer wishing to cancel this contract prior to completion, the customer shall pay all our reasonable costs including restocking charges, administration costs, shipping costs and loss of profit.

8. Fire Risk Exemption

Notwithstanding anything contained in clause six hereof the Customer shall be solely responsible for all loss or damage to the contract works arising from fire howsoever caused, including unfixed materials, on site for the purpose of carrying out the contract works and shall indemnify the Contractor against such loss or damage.

9. Guarantee

In lieu of, and to the exclusion of all other guarantees, warranties or conditions whether imposed by statute or implied by Common Law, and subject to the conditions imposed in paragraph (a) below, we undertake as follows:- We will repair or at our option, replace free of charge, any parts of the plant which, under proper use, becomes defective as a result of faulty manufacture or workmanship within twelve months of the mechanical parts of the plant being set in motion. Any labour mileage and expenses involved in diagnosing defective parts, or on removing or replacing such parts will be chargeable to the Customer.

(a) Any Builders' Work will be subject to a guarantee period of six months. In the case of goods which are not of our manufacture the guarantee will be limited to the guarantee which we receive from the manufacturers. Any part of the plant which we normally consider to be expendable will be repaired, or at our option, replaced providing you pay us that proportion of the price of repair or replacement which the expired period of the guarantee bears to the total period of the guarantee.

(b) We accept no responsibility for any drawings, designs or specifications not prepared by us and submission of this tender does not constitute any warranty, guarantee, representation or opinion of the practicability or construction or of the efficacy, safety or otherwise of materials to be supplied or work to be executed by us in accordance therewith. The cost of any additional work caused by defects in any such drawings, designs or specifications shall be chargeable as an extra.

(c) We shall not be liable for any consequential loss or damage caused directly or indirectly by any defect or otherwise whatsoever.

(d) We shall not be liable for any loss or damage direct or indirect nor for any extra work entailed due to the apparatus being put into operation by the Customer or by us at his request before it is handed over for beneficial use.

(e) This guarantee is given on the understanding that maintenance of the equipment has been carried out in accordance with the instructions issued by us and that any fault is reported promptly.

10. Drawings

Unless expressly stated in writing, drawings submitted with this tender shall not be binding as to detail.

11. Third Party Liability

We shall not be liable for any claim whether brought against the Customer or against us either under Statute or Common Law by any person arising from any cause other than our negligence or that of our employees and the Customer shall indemnify us against any such claim and the costs of any legal proceedings.

12. Compliance with Law and Government Regulations

Acceptance of this tender constitutes a warranty and representation by the Customer that he has complied with every applicable Statute, Order-in-Council, Regulation or Direction, Bye-Law or other lawful requirement or instruction whether of the Government or any local or other lawful authority and in particular that he has lawfully obtained every necessary licence, permit or authority that may be required in connection with the work.

13. Completion and Delivery

Delivery and completion dates are given on the understanding that your official order has been received and that complete and final details are supplied. We shall make every effort to complete the work by the time stated but we shall not be liable for delays due to strikes, lock-outs or other causes beyond our control, including alterations and additions authorised during the course of the contract.

14. General

(a) The above conditions shall apply not only to this tender (if accepted), but to all orders subsequently placed with us by or on behalf of the same Customer in connection with the same work unless otherwise agreed in writing.

(b) Discounts: Unless expressly stated in our quotation, all prices are strictly nett and do not provide for any discounts.

15. Arbitration

If any dispute or difference shall arise between the parties hereto in respect of any provision of this Agreement, the same shall be referred to the decision of a sole arbitrator to be mutually agreed upon, or failing agreement to be appointed by the President for the time being of the Law Society. The submission shall be subject to and in accordance with the Arbitration Act, 1950 or any statutory modification or re-enactment thereof for the time being in force.



ecolution
AIR CONDITIONING

Cassette
Recessed Systems
FDTC/FDT

Mitsubishi Heavy Industries has further improved the performance and efficiency of the FDT Cassette range:

CASSETTE - AVAILABLE IN 2 VARIANTS

FDTC Compact Cassette

600x600 ceiling recessed unit for standard ceiling grids - up to 5.6kW

FDT Standard Cassette

New slim profile reduced height
Full range up to 14.8kW



Air conditioners and heat pumps for commercial and residential applications



OFFICES • SHOPS • RETAIL STORES • RESTAURANTS • HOTELS • GYMS • MEETING ROOMS

The FDT Standard Cassette range offers many new technical features:

- Reduced height slim profile – ideal for restricted ceiling spaces
- Thinnest height profile – 246mm on models up to 7.1kW
- Virtual all-round air distribution with optimised supply outlets
- Individual control of air supply louvres to minimise draughts
- New single-piece heat exchanger for enhanced performance

All FDTC & FDT models:

- Variable capacity control automatically adjusted to changing cooling or heating requirements
- Mitsubishi energy saving 'Vector' INVERTER operation
- 7-day/24-hr Programmable Timer – included in standard wired controller
- Compact Outdoor Units with lower sound levels and smaller physical size





Key Features

- INVERTER on all models
- Individual control of air supply louvres (FDT)
- 7-Day / 24-hr Programmable Timer
- Two on/off settings each day
- Different temperatures for each set period
- External timer/BMS switching for Group (up to 16 units)
- Wall Controller – hard wired
- Integral temperature sensor in remote
- Infra-red wireless controller optional
- Fresh Air inlet facility (FDT models only)
- Low profile attractive grey/white fascia panel
- Improved anti-smudge air discharge
- Low ambient control included
- Auto re-start after power interruption
- Reduced sound levels
- Compatible with Multi Systems



RCE3 Wired Controller



Optional 'Wireless' Controller

Energy Saving
up to
38%
with INVERTER
Technology

Superior Controls Specification RCE3

The Mitsubishi RCE3 remote controller combines all the basic user requirements – temperature setting, fan speed selection, mode, and timer settings, with a comprehensive range of service data functions, inverter compressor speed indication, fault diagnosis, and operational history. Infra-red wireless controller is available as an option.



Reduced height - 246mm

New Slim Profile Cassette FDT

Reduced height cassette models allow installation in restricted ceiling void spaces. All FDT Standard Cassettes are now reduced in height, and compliment the FDTC Compact Cassette models, which are ideal for fitting into a standard 600 x 600 ceiling grid.



Reduced height - 298mm

	COMPACT CASSETTE		STANDARD CASSETTE						
	FDTC 40VN	FDTC 50VN	FDT 40VN	FDT 50VN	FDT 60VN	FDT 71VN	FDT 100VN	FDT 125VN	FDT 140VN
Power source	1 ph	1 ph	1 ph	1 ph	1 ph	1 ph	1 ph*	1 ph*	1 ph*
COOLING (nominal) range	1.8 to 4.7	2.2 to 5.6	1.8 to 4.7	2.2 to 5.6	2.8 to 6.3	3.2 to 8.0	6.1 to 11.2	6.54 to 14.0	6.7 to 14.8
UK Cooling (max)	4.56	5.43	4.56	5.43	6.11	7.68	10.36	12.95	13.69
Energy label in cooling	A	A	A	A	A	A	A	B	tba
HEATING (nominal) range	2.0 to 5.4	2.5 to 6.3	2.0 to 5.4	2.5 to 6.3	3.1 to 7.1	3.6 to 9.0	5.6 to 12.5	6.2 to 16.0	6.3 to 16.8
C.O.P.	3.41	3.62	3.41	3.62	3.74	3.72	3.59	3.53	tba
Energy label in heating	B	A	B	A	A	A	B	B	tba
INDOOR UNIT H x W x D	248 x 570 x 570	248 x 570 x 570	246 x 840 x 840	246 x 840 x 840	246 x 840 x 840	246 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
panel (mm)	35 x 700 x 700	35 x 700 x 700	35 x 950 x 950	35 x 950 x 950	35 x 950 x 950	35 x 950 x 950	35 x 950 x 950	35 x 950 x 950	35 x 950 x 950
Net weight	16+3.5	16+3.5	22+5.5	22+5.5	22+5.5	24+7	26+7	31+7	31+7
OUTDOOR UNIT H x W x D	640 x 871 x 290	640 x 871 x 290	640 x 871 x 290	640 x 847 x 290	640 x 871 x 290	750 x 968 x 340	845 x 970 x 370	845 x 970 x 370	845 x 970 x 370
Net weight	45	45	45	45	45	60	74	74	74
Power Source Rating MCB	16A	16A	16A	16A	16A	16A	20A	25A	30A
Ref. max piping length	30	30	30	30	30	50	50	50	50

Cooling Nom: 27°Cdb/19°Cwb, Amb: 35°C UK Cooling: I/d: 23°Cdb/16°Cwb, Amb: 30°C Heating: I/d: 20°Cdb, Amb: 7°Cdb/6°Cwb

*3PH UNITS ALSO AVAILABLE 100, 125 & 140 VS

FDTC & FDT Top Specification High Performance Systems

Technical features
& Accessories



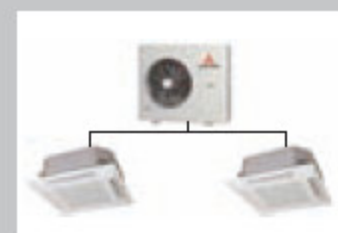
Space Collar (option)
for restricted ceiling
voids



Individual control of
air direction louvres



New compact outdoor
units (single fan) up
to 14/16kW



Inverter Multi Systems
up to 25/28kW



Celsius

air conditioning

410

PLA-RP71BA

Standard Inverter Heat Pump

R410A 4-Way Blow Ceiling Cassette System

The new Standard Inverter range provides inverter solutions for customers who want all the benefits that inverters offer, but do not have the budget available for the more expensive Power Inverter range.

- **Airflow controllable for ceiling heights up to 4.2m, with automatic adjustment of fan speed**
- **Reduced draft air distribution, with independent vane control**
- **Filter lowering operation down to 4m (optional PLP-6BAJ grille required)**
- **Optional 'I See Sensor' for energy saving and smooth temperature control throughout the room**



Pictures not to scale

Product Details

PLA-RP71BA Indoor Unit

Capacity (kW):	
Heating (Nominal) (Low - High)	8.00 (0.90 - 10.20)
Cooling (Nominal) (Low - High)	7.10 (0.90 - 8.10)
Heating (UK) (Low - High)	6.65 (0.75 - 8.50)
Cooling (UK) (Low - High)	7.05 (0.90 - 8.05)
SHF R410A (Nominal)	0.73
COP / EER (Nominal)	3.65 / 3.43
Energy Label Heating / Cooling	A / A
Width (grille) - mm	840 (950)
Depth (grille) - mm	840 (950)
Height (grille) - mm	258 (35)
Weight (grille) - kg	23 (6)
Airflow (m3/min) - Lo-Mi1-Mi2-Hi	14-16-18-21
Noise (dBA) - Lo-Mi1-Mi2-Hi	28-30-32-34
Pipe Size Gas mm (in)	15.88 (5/8)
Pipe Size Liquid mm (in)	9.52 (3/8)
Electrical Supply	Fed By Outdoor Unit
Phase	Single
Fuse Rating (BS88) - HRC (A)	6
Interconnecting Cable No. Cores	4
Grille Ref	PLP-6BA GRILLE

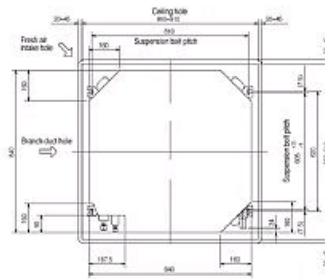
SUZ-KA71VA2 Outdoor Unit

Width - mm	840
Depth - mm	330
Height - mm	880
Weight - kg	53
Noise (dBA) (Heating /Cooling)	55 /55
Electrical Supply	220-240v, 50Hz
Phase	Single
Fuse Rating (BS88) - HRC (A)	20
SystemPower Input (kW) - Heating (Nominal)	2.19
SystemPower Input (kW) - Cooling (Nominal)	2.07
SystemPower Input (kW) - Heating (UK)	1.99
SystemPower Input (kW) - Cooling (UK)	1.66
Starting Current (A)	8.89
SystemRunning Current (A) - Heating / Cooling	9.46 / 9.36
Mains Cable No. Cores	3
Max Pipe Length (m)	30
Max Height Difference (m)	30
Charge (kg) - 7m	1.8

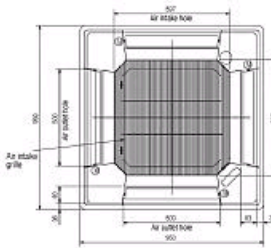
Dimensions

PLA-RP71BA

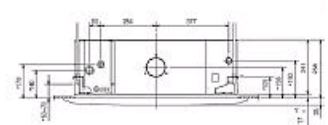
Upper View >



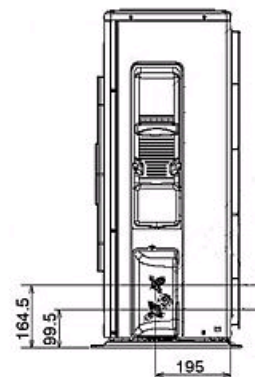
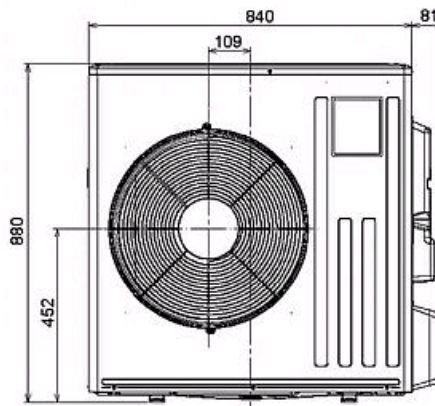
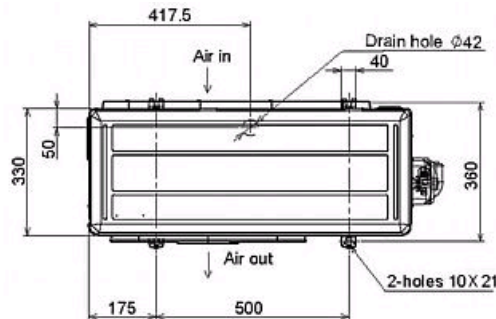
Front View >



Side View >



SUZ-KA71VA2



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Mitsubishi Electric reserves the right to make any variation in technical specification to the equipment described, or to withdraw or replace products without prior notification or public announcement.