



RIBBLE VALLEY
BOROUGH COUNCIL

26 MAR 2012

For office use only

Application No
320120298P

Date received

Fee paid £

Receipt No:

Council Offices, Church Walk, Clitheroe, Lancashire. BB7 2RA Tel: 01200 425111 www.ribblevalley.gov.uk

Application for Planning Permission. Town and Country Planning Act 1990

You can complete and submit this form electronically via the Planning Portal by visiting www.planningportal.gov.uk/apply

Publication of applications on planning authority websites

Please note that the information provided on this application form and in supporting documents may be published on the Authority's website. If you require any further clarification, please contact the Authority's planning department.

Please complete using block capitals and black ink

It is important that you read the accompanying guidance notes as incorrect completion will delay the processing of your application.

1. Applicant Name and Address

Title: **MR** First name: **PETER**
Last name: **REGAN**
Company (optional):
Unit: House number: **59** House suffix:
House name:
Address 1: **WOOLFE LANE**
Address 2:
Address 3:
Town: **CLITHEROE**
County: **LANCASHIRE**
Country: **UNITED KINGDOM**
Postcode: **BB7 1BJ**

2. Agent Name and Address

Title: First name:
Last name:
Company (optional): **THOMAS V SHAW & CO LTD**
Unit: House number: **11** House suffix:
House name:
Address 1: **PRESTON NEW ROAD**
Address 2:
Address 3:
Town: **BLACKBURN**
County: **LANCASHIRE**
Country: **UNITED KINGDOM**
Postcode: **BB2 1AR**

3. Description of the Proposal

Please describe the proposed development, including any change of use:

INSTALLATION OF FUE EQUIPMENT AT EXISTING
FISH AND CHIP SHOP.

Has the building, work or change of use already started?

☐ Yes

☒ No

If Yes, please state the date when building,
work or use were started (DD/MM/YYYY):

(date must be pre-application submission)

Has the building, work or change of use been completed?

☐ Yes

☒ No

If Yes, please state the date when the building, work
or change of use was completed: (DD/MM/YYYY):

(date must be pre-application submission)

4. Site Address Details

Please provide the full postal address of the application site

Unit: House number: **59** House suffix: House name: Address 1: **WOONE LANE**Address 2: Address 3: Town: **CLITHEROE**County: **LANCASHIRE**Postcode (optional): **BB7 1BS**Description of location or a grid reference
(must be completed if postcode is not known):Easting: Northing:

Description:

**INSTALL EXTERIOR DUCTING
FOR EXTRACTION SYSTEM
AS PER ATTACHED SPECIFICATION****5. Pre-application Advice**Has assistance or prior advice been sought from the local authority about this application? ☐ Yes ☒ No

If Yes, please complete the following information about the advice you were given (This will help the authority to deal with this application more efficiently)

Please tick if the full contact details are not known, and then complete as much as possible: ☐Officer name: Reference: Date (DD/MM/YYYY):
(must be pre-application submission)

Details of pre-application advice received?

6. Pedestrian and Vehicle Access, Roads and Rights of Way

Is a new or altered vehicle access proposed to or from the public highway?

☐ Yes ☒ No

Is a new or altered pedestrian access proposed to or from the public highway?

☐ Yes ☒ No

Are there any new public roads to be provided within the site?

☐ Yes ☒ No

Are there any new public rights of way to be provided within or adjacent to the site?

☐ Yes ☒ No

Do the proposals require any diversions /extinguishments and/or creation of rights of way?

☐ Yes ☒ No

If you answered Yes to any of the above questions, please show details on your plans/drawings and state the reference of the plan (s)/drawings(s)

7. Waste Storage and Collection

Do the plans incorporate areas to store and aid the collection of waste?

☐ Yes ☒ No

If Yes, please provide details:

Have arrangements been made for the separate storage and collection of recyclable waste?

☐ Yes ☒ No

If Yes, please provide details:

8. Authority Employee / MemberWith respect to the Authority, I am: (a) a member of staff
(b) an elected member
(c) related to a member of staff
(d) related to an elected memberDo any of these statements apply to you? ☐ Yes ☒ No

If Yes, please provide details of the name, relationship and role

9. Materials

If applicable, please state what materials are to be used externally. Include type, colour and name for each material:

	Existing (where applicable)	Proposed	Not applicable	Don't Know
Walls			☐	☐
Roof			☐	☐
Windows			☐	☐
Doors			☐	☐
Boundary treatments (e.g. fences, walls)			☐	☐
Vehicle access and hard-standing			☐	☐
Lighting			☐	☐
Others (please specify)	STAINLESS STEEL MANUFACTURE FOR NEW SYSTEM WITH CARBON FILTER UNIT.		☐	☐

Are you supplying additional information on submitted plan(s)/drawing(s)/design and access statement?

☒ Yes

☐ No

If Yes, please state references for the plan(s)/drawing(s)/design and access statement:

SEE SPECIFICATION ATTACHED.

10. Vehicle Parking

Please provide information on the existing and proposed number of on-site parking spaces:

Type of Vehicle	Total Existing	Total proposed (including spaces retained)	Difference in spaces
Cars			
Light goods vehicles/ public carrier vehicles			
Motorcycles			
Disability spaces			
Cycle spaces			
Other (e.g. Bus)			
Other (e.g. Bus)			

NOT APPLICABLE

11. Foul Sewage

Please state how foul sewage is to be disposed of:

- ☒ Mains sewer
 ☐ Cess pit
☐ Septic tank
 ☐ Other
☐ Package treatment plant

Are you proposing to connect to the existing drainage system? ☐ Yes ☐ No

If Yes, please include the details of the existing system on the application drawings and state references for the plan(s)/drawing(s):

ALREADY EXISTING FISH
AND CHIP SHOP

12. Assessment of Flood Risk

Is the site within an area at risk of flooding? (Refer to the Environment Agency's Flood Map showing flood zones 2 and 3 and consult Environment Agency standing advice and your local planning authority requirements for information as necessary)

☐ Yes ☒ No

If Yes, you will need to submit a Flood Risk Assessment to consider the risk to the proposed site

Is your proposal within 20 metres of a watercourse (e.g. river, stream or beck)?

☐ Yes ☒ No

Will the proposal increase the flood risk elsewhere?

☐ Yes ☒ No

How will surface water be disposed of?

- ☐ Sustainable drainage system
 ☐ Existing watercourse
☐ Soakaway
 ☒ N/A
 ☐ Pond/lake
☐ Main sewer

13. Biodiversity and Geological Conservation

To assist in answering the following questions refer to the guidance notes for further information on when there is a reasonable likelihood that any important biodiversity or geological conservation features may be present or nearby and whether they are likely to be affected by your proposals

Having referred to the guidance notes, is there a reasonable likelihood of the following being affected adversely or conserved and enhanced within the application site, or on land adjacent to or near the application site?

a) Protected and priority species:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

b) Designated sites, important habitats or other biodiversity features:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

c) Features of geological conservation importance:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

14. Existing Use

Please describe the current use of the site:

FISH + CHIP SHOP

Is the site currently vacant?

☐ Yes ☒ No

If Yes, please describe the last use of the site:

TRADING BUSINESS

When did this use end (if known)?

DD/MM/YYYY

(date where known may be approximate)

N/A

Does the proposal involve any of the following?

If yes, you will need to submit an appropriate contamination assessment with your application

Land which is known to be contaminated?

☐ Yes ☒ No

Land where contamination is suspected for all or part of the site?

☐ Yes ☒ No

A proposed use that would be particularly vulnerable to the presence of contamination?

☐ Yes ☒ No**15. Trees and Hedges**

Are there trees or hedges on the proposed development site?

☐ Yes ☒ No

And/or: Are there trees or hedges on land adjacent to the proposed development site that could influence the development or might be important as part of the local landscape character?

☐ Yes ☒ No

If Yes to either or both of the above, you may need to provide a full Tree Survey, at the discretion of your local planning authority. If a Tree Survey is required, this and the accompanying plan should be submitted alongside your application. Your local planning authority should make clear on its website what the survey should contain, in accordance with the current 'BS5837: Trees in relation to construction - Recommendations'.

16. Trade Effluent

Does the proposal involve the need to dispose of trade effluents or waste?

☐ Yes ☒ No

If Yes, please describe the nature, volume and means of disposal of trade effluents or waste

17. Residential Units (Including Conversion)

Does your proposal include the gain, loss or change of use of residential units?

☐ Yes☐ No

If Yes, please complete details of the changes in the tables below:

Proposed Housing**Existing Housing**

Market Housing	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Market Housing	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Social Rented	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Social Rented	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Intermediate	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Intermediate	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Key worker	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Key worker	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Total proposed residential units (A+B+C+D)=

Total existing residential units (E+F+G+H)=

TOTAL NET GAIN or LOSS of RESIDENTIAL UNITS (Proposed Housing Grand Total - Existing Housing Grand Total):

18. All Types of Development: Non-residential Floorspace

Does your proposal involve the loss, gain or change of use of non-residential floorspace?

☐ Yes☒ No

If you have answered Yes to the question above please add details in the following table:

Use class/type of use	Not applicable	Existing gross internal floorspace (square metres)	Gross internal floorspace to be lost by change of use or demolition (square metres)	Total gross internal floorspace proposed (including change of use)(square metres)	Net additional gross internal floorspace following development (square metres)
A1 Shops	☐				
Net tradable area:	☐				
A2 Financial and professional services	☐				
A3 Restaurants and cafes	☐				
A4 Drinking establishments	☐				
A5 Hot food takeaways	☐				
B1 (a) Office (other than A2)	☐				
B1 (b) Research and development	☐				
B1 (c) Light industrial	☐				
B2 General industrial	☐				
B8 Storage or distribution	☐				
C1 Hotels and halls of residence	☐				
C2 Residential institutions	☐				
D1 Non-residential institutions	☐				
D2 Assembly and leisure	☐				
OTHER	☐				
Please Specify	☐				
Total					

In addition, for hotels, residential institutions and hostels, please additionally indicate the loss or gain of rooms

Use class	Type of use	Not applicable	Existing rooms to be lost by change of use or demolition	Total rooms proposed (including changes of use)	Net additional rooms
C1	Hotels	☐			
C2	Residential Institutions	☐			
OTHER		☐			
Please Specify		☐			

19. Employment

Please complete the following information regarding employees:

	Full-time	Part-time	Total full-time equivalent
Existing employees	TWO		
Proposed employees	TWO		

20. Hours of Opening

Please state the hours of opening for each non-residential use proposed:

Use	Monday to Friday	Saturday	Sunday and Bank Holidays	Not known
AS PER EXISTING				

21. Site Area

Please state the site area in hectares (ha) SHOP AND PLAS.

22. Industrial or Commercial Processes and Machinery

Please describe the activities and processes which would be carried out on the site and the end products including plant, ventilation or air conditioning. Please include the type of machinery which may be installed on site:

Is the proposal a waste management development? ☐ Yes ☒ No

If the answer is Yes, please complete the following table:

	Not applicable	The total capacity of the void in cubic metres, including engineering surcharge and making no allowance for cover or restoration material (or tonnes if solid waste or litres if liquid waste)	Maximum annual operational throughput in tonnes (or litres if liquid waste)
Inert landfill	☐		
Non-hazardous landfill	☐		
Hazardous landfill	☐		
Energy from waste incineration	☐		
Other incineration	☐		
Landfill gas generation plant	☐		
Pyrolysis/gasification	☐		
Metal recycling site	☐		
Transfer stations	☐		
Material recovery/recycling facilities (MRFs)	☐		
Household civic amenity sites	☐		
Open windrow composting	☐		
In-vessel composting	☐		
Anaerobic digestion	☐		
Any combined mechanical, biological and/or thermal treatment (MBT)	☐		
Sewage treatment works	☐		
Other treatment	☐		
Recycling facilities construction, demolition and excavation waste	☐		
Storage of waste	☐		
Other waste management	☐		
Other developments	☐		

Please provide the maximum annual operational throughput of the following waste streams:

Municipal	
Construction, demolition and excavation	
Commercial and industrial	
Hazardous	

If this is a landfill application you will need to provide further information before your application can be determined. Your waste planning authority should make clear what information it requires on its website.

23. Hazardous Substances

Does the proposal involve the use or storage of any of the following materials in the quantities stated below? ☐ Yes ☒ No ☐ Not applicable

If Yes, please provide the amount of each substance that is involved:

Acrylonitrile (tonnes)		Ethylene oxide (tonnes)		Phosgene (tonnes)	
Ammonia (tonnes)		Hydrogen cyanide (tonnes)		Sulphur dioxide (tonnes)	
Bromine (tonnes)		Liquid oxygen (tonnes)		Flour (tonnes)	
Chlorine (tonnes)		Liquid petroleum gas (tonnes)		Refined white sugar (tonnes)	

Other:

Other:

Amount (tonnes):

Amount (tonnes):

24. Ownership Certificates

One Certificate A, B, C, or D, must be completed, together with the Agricultural Holdings Certificate with this application form

CERTIFICATE OF OWNERSHIP - CERTIFICATE A**Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12**

I certify/The applicant certifies that on the day 21 days before the date of this application nobody except myself/ the applicant was the owner (*owner is a person with a freehold interest or leasehold interest with at least 7 years left to run*) of any part of the land or building to which the application relates

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

CERTIFICATE OF OWNERSHIP - CERTIFICATE B**Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12**

I certify/ The applicant certifies that I have/the applicant has given the requisite notice to everyone else (as listed below) who, on the day 21 days before the date of this application, was the owner (*owner is a person with a freehold interest or leasehold interest with at least 7 years left to run*) of any part of the land or building to which this application relates

Name of Owner	Address	Date Notice Served

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

CERTIFICATE OF OWNERSHIP - CERTIFICATE C**Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12**

I certify/ The applicant certifies that:

- Neither Certificate A or B can be issued for this application
- All reasonable steps have been taken to find out the names and addresses of the other owners (*owner is a person with a freehold interest or leasehold interest with at least 7 years left to run*) of the land or building, or of a part of it, but I have/ the applicant has been unable to do so

The steps taken were:

Name of Owner	Address	Date Notice Served

Notice of the application has been published in the following newspaper (circulating in the area where the land is situated):

On the following date (which must not be earlier than 21 days before the date of the application):

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

17 APR 2012

320120298P

24. Ownership Certificates (continued)**CERTIFICATE OF OWNERSHIP - CERTIFICATE D**

Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12

I certify/ The applicant certifies that:

- Certificate A cannot be issued for this application
- All reasonable steps have been taken to find out the names and addresses of everyone else who, on the day 21 days before the date of this application, was the owner (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of any part of the land to which this application relates, but I have/ the applicant has been unable to do so

The steps taken were:

--

Notice of the application has been published in the following newspaper (circulating in the area where the land is situated):

--

On the following date (which must not be earlier than 21 days before the date of the application):

--

Signed - Applicant:

--

Or signed - Agent:

--

Date (DD/MM/YYYY):

--

25. Agricultural Land Declaration**AGRICULTURAL LAND DECLARATION**

Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12

Agricultural Land Declaration - You Must Complete Either A or B

(A) None of the land to which the application relates is, or is part of, an agricultural holding

Signed - Applicant:

--

Or signed - Agent:

<i>D. B. H. S.</i>

Date (DD/MM/YYYY):

17-4-12

(B) I have/ The applicant has given the requisite notice to every person other than myself/ the applicant who, on the day 21 days before the date of this application, was a tenant of an agricultural holding on all or part of the land to which this application relates as listed below:

Name of Tenant	Address	Date Notice Served

Signed - Applicant:

--

Or signed - Agent:

--

Date (DD/MM/YYYY):

--

26. Planning Application Requirements - Checklist

Please read the following checklist to make sure you have sent all the information in support of your proposal. Failure to submit all information required will result in your application being deemed invalid. It will not be considered valid until all information required by the Local Planning Authority has been submitted.

The original and 3 copies of a completed and dated application form:



The correct fee:



The original and 3 copies of the plan which identifies the land to which the application relates drawn to an identified scale and showing the direction of North:



The original and 3 copies of a design and access statement, if required (see help text and guidance notes for details):



The original and 3 copies of other plans and drawings or information necessary to describe the subject of the application:



The original and 3 copies of the completed, dated Ownership Certificate (A, B, C, or D - as applicable):



The original and 3 copies of the completed, dated Article 12 Certificate (Agricultural Holdings):


 Be consi
 support
 Be consi

320120298P

27. Declaration

I/we hereby apply for planning permission/consent as described in this form and the accompanying plans/drawings and additional information

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

(date cannot be pre-application)

D BANS MICS (01254 53657)

12-3-12

28. Applicant Contact Details

Telephone numbers

Country code:

National number:

Extension number:

Country code:

Mobile number (optional):

Country code:

Fax number (optional):

Email address (optional):

29. Agent Contact Details

Telephone numbers

Country code:

National number:

Extension number:

01254 53657

Country code:

Mobile number (optional):

Country code:

Fax number (optional):

01254 54136

Email address (optional):

david@kromarslaw.co.uk

30. Site VisitCan the site be seen from a public road, public footpath, bridleway or other public land? ☒ Yes☐ No

If the planning authority needs to make an appointment to carry out a site visit, whom should they contact? (Please select only one)

☐ Agent☒ Applicant☐ Other (if different from the agent/applicant's details)

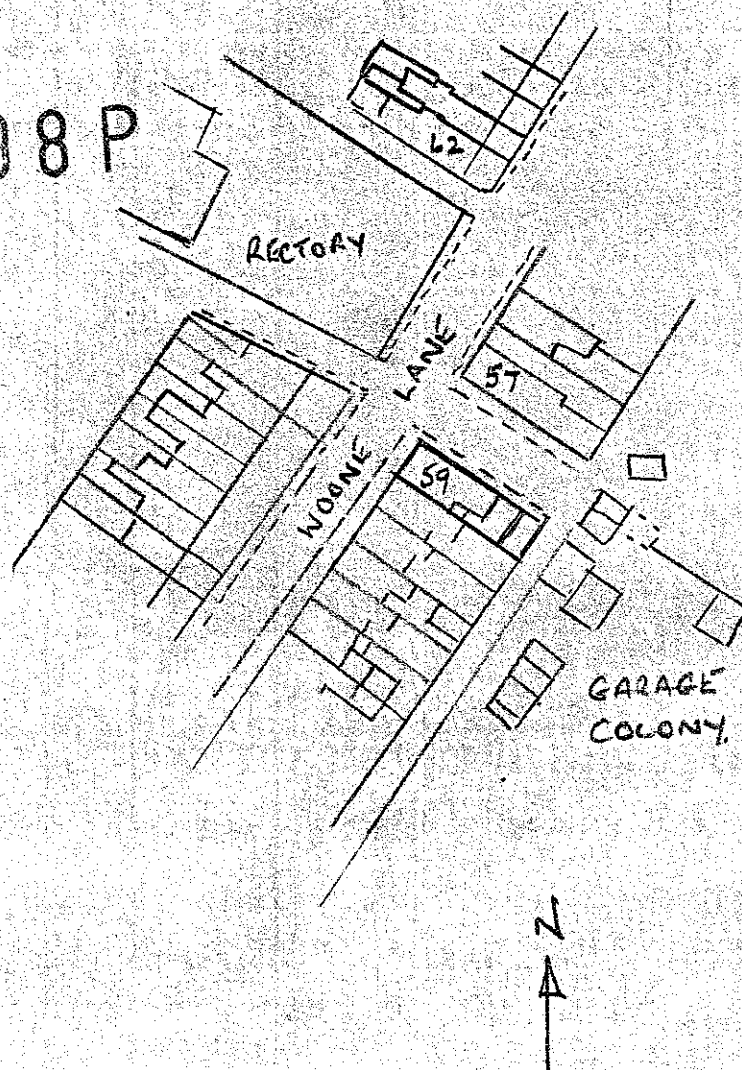
If Other has been selected, please provide:

Contact name:

Telephone number:

Email address:

320120298P



LOCATION PLAN 59 WOONE LANE
SCALE 1:1250

THOMAS V. SHAW

& CO. LTD.

11 Preston New Road, Blackburn, BB2 1AR

SALES

SURVEYS

VALUATIONS

LETTINGS

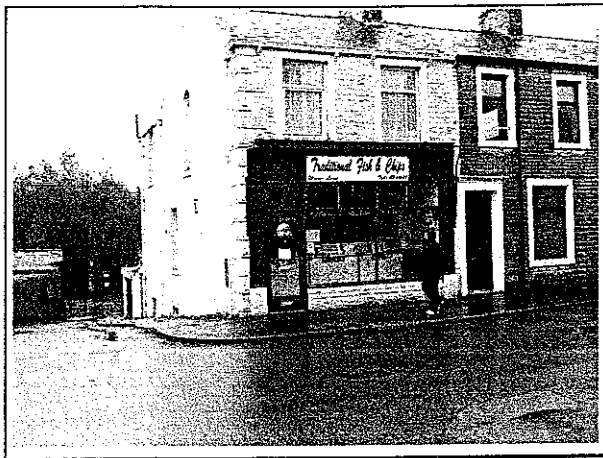
FOR SALE

REF: FC011089

320120298 P

FREEHOLD FISH & CHIP SHOP

T/A Woone Lane Chip Shop



PRICE: £199,000 (Property,
Goodwill, Fixtures & Fittings & Equipment) +
SAV.

- Very large end terrace property.
- Established business.
- 5 star hygiene.
- Potential to extend opening hours and increase turnover.
- Good 3 bedroomed accommodation.

59 Woone Lane, Clitheroe, BB7 1BJ

General Remarks

Here is an opportunity to acquire a substantial property together with a well established Fish & Chip Business in a prominent location on Woone Lane, Clitheroe in the heart of Ribble Valley. Currently the shop is only open from Tuesday to Friday, lunch and tea, so there is considerable scope for extending the opening hours and thus increasing the turnover which is already good given the current opening times. The business combined with the generous family accommodation offers an exciting business opportunity to the right buyer. Viewing is highly recommended and must be arranged through this office.

Accommodation

GROUND FLOOR -

Shop; 4.62m x 3.96m, with Mallinson 3 pan range, serve over counter, Swan refrigerator, Polar drinks chiller, Bain Marie, microwave, filtration unit. Casio till and handwash basin with instant water heater.

Living Accommodation (with central heating and double glazing)

Living Room; 4.52m x 3.43m, with fitted gas fire.

Email: info@thomasvshaw.co.uk
Website: www.business-sales.co.uk

Tel (01254) 53657

**SUCCESSFULLY
SELLING SINCE
1956**

Fax (01254) 54136

Thomas V. Shaw & Co. Ltd., for themselves and for the vendors of this property whose agents they are, give notice that: (1) These particulars do not constitute any part of an offer or contract (2) All statements contained in these particulars as to the property are made without responsibility on the part of Thomas V. Shaw & Co. Ltd., or the vendors (3) None of the statements contained in these particulars as to the property are to be relied on as statements of representation of fact

(4) Any intending purchasers must satisfy himself by inspection or otherwise as to the correctness of each of the statements contained in these particulars (5) The vendors do not make or give, and neither Thomas V. Shaw & Co. Ltd., nor any person in their employment has any authority to make or give, any representations or warranty whatever in relation to this property (6) No responsibility can be accepted for loss or expense incurred in viewing or in the event of any property being sold let or withdrawn

Kitchen; 3.78m x 2.97m, fully fitted with radiator and Biaisi boiler.

Utility Room

Access to Rear Yard and Single Garage;

Basement; With internal and external access.

Room 1 (Potato Store); 4.47m x 3.05m.

Room 2 (Preparation Room); 3.43m x 2.54m, with sink, 2 x rumbler, 2 x chipper. Door to yard.

FIRST FLOOR -

Bedroom 1; 3.96m x 3.81m with radiator.

Bedroom 2; 3.91m x 3.48m, with fitted wardrobe.

Bedroom 3; 2.7m x 1.98m, with radiator.

Bathroom; Three piece suite with shower over bath, radiator and airing cupboard.

EXTERNALLY - Yard to rear plus single garage.

Opening Hours; Currently trading Tuesday to Friday only, lunches & teas only.

Staff; Run by the proprietors.

Turnover; Accounts available for inspection after viewing.

Services; All mains services are connected to this property.

Tenure; Freehold.

Price; £199,000 (Property, Goodwill, Fixtures, Fittings and Equipment) plus stock at Valuation.

Viewing; Strictly by appointment through our office.

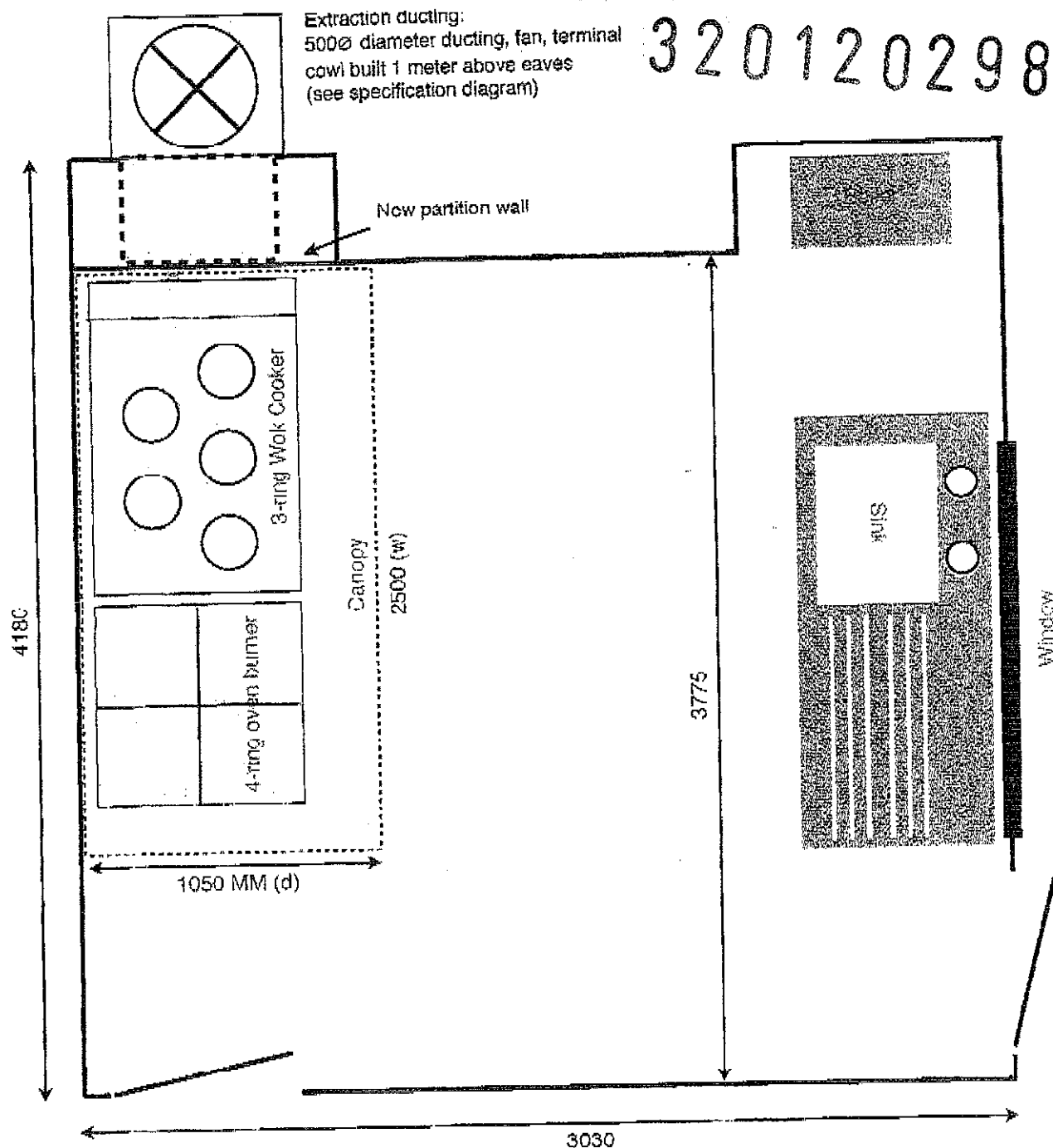


亮聲爐具廠
Leung Sing Limited

FAO: SARAH

01284 54136

320120298 P



Drawn by: Leung Sing Limited, 7 Rachel Street, Liverpool, L5 5BR
Reference: P-002 (19/03/2012)

ROOM PLAN/LAYOUT (MM)

Room: Kitchen Type: Proposal Height: 2670 MM

Site: Regan's of Weed Lane, 59 Weed Lane, Clitheroe, BB7 1BJ
Woone Woone





亮聲爐具廠
Leung Sing Limited

Over 20 Years Experience

Specialist and Manufacturer of Fish & Chip Ranges and Chinese Cooking Equipment

Thomas V Shaw & Co Limited
C/O Sarah
11 Preston New Road
Blackburn
BB2 1AR

Tel: 01254 536 657
Fax: 01254 541 136

Site address: Regan's of Woollane Lane Ref: SU-WOODLANE-101
Mr Peter Regan Contact: Sarah
59 Woollane Lane sarah@thomasvshaw.co.uk
Clitheroe
BB7 1BJ

亮聲爐具廠
Leung Sing Limited
Over 20 Years Experience
Specialist and Manufacturer of Fish & Chip Ranges and Asian Cooking Equipment

JOHN ZHAO (DIRECTOR)
7 Rachel Street, Liverpool, L5 5BR, United Kingdom
Tel: +44(0)151 207 3788 Fax: +44(0)151 207 3788
Mob: 07961 462 898 (Pauline)

CE safe CORGI HVCA 100 years of quality info@leungsing.com www.leungsing.com

320120298 P

Thomas V Shaw & Co Ltd,

Further to our site surveillance at the above address we have proposed the following extraction system in order to convert the existing 'Fish & Chip shop' to usage as a 'Chinese Take Away' It is with our recommendation we install the following in order to satisfy local council regulations.

Extract Ducting

Leung Sing Ltd would propose to supply and install exterior ducting to the rear of the building with a 90° degree swept bend, directing extract in a vertical direction upwards, install a silencer, fan, 500Ø diameter ducting and fit a low resistant terminal cowl, built 1 metre above the eaves of the building

Wok Canopy Extraction Range - FlaktWoods Aerofoil Fan 50JM - 20/4/6/32 (data sheet attached)

Product Code:	50JM/20/4/6/32	Speed controller	
Speed rev/min:	1420	Electronic:	N/A
Motor:	CT9	Transformer:	AT7 0
Product No:	JL531458380-420V/50Hz/1	Inverter:	FWD1
Pitch Angle:	32-38 degrees		
Motor Rating:	0.83 kW	Sound level	
Full Load Current		dBA:	58 @ 3MT
@ 400V:	2.30 A		
Starting Current			
@ 400V:	8.6 A		

Carbon filter unit - Jasun Filtration FBEC-1224 (data sheet attached)

A carbon filter unit is fitted which uses pieces of activated carbon to remove contaminants and impurities. The carbon filter unit is designed to provide large section of surface area, in order to allow contaminants the most possible exposure to filter media. The carbon is generally activated with a positive charge and is designed to attract negative charged water contaminants.

Silencer - JM Cylindrical Silencer 500MM - B TYPE without pod

Attached is the silencer which is placed in line with the ventilation ducting this acts as a noise reducer by moving the air, acoustic performance illustrated overleaf (brochure attached as reference)

Continued...



320120298P

Silencer - JM Cylindrical Silencer 500MM - B TYPE without pod (continued)

JM - Cylindrical Silencers

Acoustic Performance B Type (without Pod)

Bore Dia mm (D)	Length	Acoustic Performance (dB) - Octave Band Mid Frequency - Hz							
		63	125	250	500	1K	2K	4K	8K
315	10	1	2	4	9	11	10	9	7
355	10	1	2	4	10	12	10	9	7
400	10	2	3	5	14	13	11	9	8
450	10	2	3	6	12	13	11	10	6
* 500	10	2	3	6	13	14	10	10	5

Baffle Grease Filters

Leung Sing extraction canopies have baffle grease filters which intake and collect and control greases by forcing the greases laden air through several changes of direction as it passes through the baffle grease filter. Due to grease droplets unable to change direction as quickly as the air in which they are carried, they come separated from the air, and are deposited on the baffle grease filter blades and drained into the drip tray. This method removes potential risk of spread of fire should a fire occur on the cooking surface below.

Our baffle grease filters are manufactured from stainless steel and have aerodynamic blades ensuring maximum airflow and grease removal at the same time with minimum pressure loss.

We trust the information outlined satisfies your query into our proposal of our extraction system. However, should you have any queries, please do not hesitate to contact us.

Thank you

Kind regards

LEUNG SING LTD

Aerofoil fan 50JM

Leung Sing Limited
7 Rachel St, Liverpool, L5 5BR
Tel: +44(0)151 207 3788
Fax: +44(0)151 207 3780
info@leungsing.com
www.leungsing.com

Section 5.1

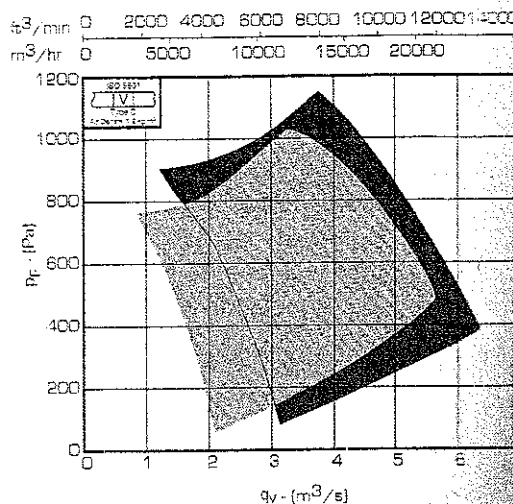
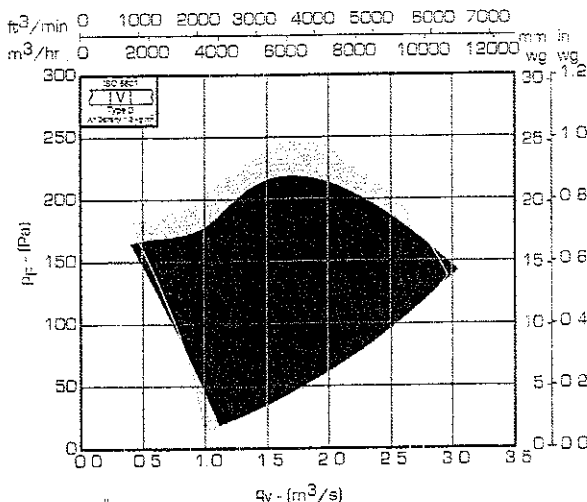
320120298P

4 Pole

50JM/16/4/5/ 50JM/20/4/6/

2 Pole

50JM/ 20/2/6/ †56JM/20/2/6/



Product Code	Speed rev/min	m³/s at Pa (Static)										
		0	50	100	150	200	250	300	400	500	600	800
50JM/16/4/5/34	1420	2.75	2.50	2.21	1.85							
50JM/16/4/5/40	1420	3.00	2.75	2.43								
50JM/20/4/6/20	1420	1.85	1.70	1.50	1.25							
50JM/20/4/6/32	1420	2.60	2.41	2.20	1.95	1.80						
50JM/20/4/6/40	1420	2.97	2.77	2.51	2.20							
50JM/20/2/6/24	2840	4.30	4.22	4.18	4.05	4.00	3.80	3.60	3.62	3.42	2.60	
50JM/20/2/6/34	2840	5.52	5.48	5.35	5.27	5.20	5.05	4.92	4.75	4.45	3.80	

† For tabular data of 56JM 2 Pole see page 127

Electrical Data

Product Code	Speed rev/min	Motor	230-240V/50Hz/1ϕ								Speed Controller		Sound Level dBA
			Product Number	Pitch Angle (°)	Motor Rating (kW)	Full Load Current (at 230V) (A)	Starting Current (at 230V) (A)	Wiring Diagram Ref	Electronics	Transformer			
50JM/16/4/5/...	1420	CT5	DX511464	32-34	0.52	3.9	7.8	CD1705	ME1.6	MT1.5			57
50JM/16/4/5/...	1420	CT9	JL511480	34-40	0.88	4.8	11	CD1705	ME1.6	MT1.5			58
50JM/20/4/6/...	1420	BT9	DX511455	18-20	0.32	2.2	5	CD1705	ME1.3	MT1.5			53
50JM/20/4/6/...	1420	CT5	DX511466	28-32	0.52	3.9	7.8	CD1705	ME1.6	MT1.5			56

Product Code	Speed rev./min	Motor	380-420V/50Hz/3φ									Sound Level dBA
			Product Number	Pitch Angle (°)	Motor Rating (kW)	Full Load Current (at 380V) (A)	Starting Current (at 400V) (A)	Wiring Diagram Ref	Speed Controller			
									Elec- tronics	Trans- former	Inverter	
50JM/16/4/5/	1420	CT5	DX531480	28-30	0.54	1.8	4.9	CD1559	ME3.2D	MT3.2	FWD1	57
50JM/16/4/5/	1420	CT9	JL531454	34-40	0.83	2.30	8.6	CD1559	N/A	AT7.0	FWD1	58
50JM/20/4/6/	1420	BT9	JL531455	8-20	0.39	1.26	3.9	CD1559	N/A	N/A	FWD1	53
50JM/20/4/6/	1420	CT5	DX531462	24-28	0.54	1.8	4.9	CD1559	ME3.2D	MT3.2	FWD1	56
50JM/20/4/6/	1420	CT9	JL531458	32-38	0.83	2.30	8.6	CD1559	N/A	AT7.0	FWD1	58
50JM/20/2/6/	2840	F22	EX531203	8-24	3.8	7.21	84	CD1343	N/A	N/A	FWD4	70
50JM/20/2/6/...	2840	PM112	DX531204	8-34	6.2	11.64	100	CD1343	N/A	N/A	FWD6	74

Sound pressure levels quoted are average dBA at 3m distance over a sphere, under free field conditions and are presented for comparison only.

Fans that include BI or CI motors can be continuously operated at temperatures up to 70°C. When these fans are operating in excess of 50°C they should be run at full speed only.

For Short cased fans please omit the prefix from the product number and state S-type on enquiries/orders. Product numbers shown are for Long cased fans.

Wiring diagram references can be found in section 9.2. Please refer to our Fläkt Woods inverter & speed control warranty clause.

XPRESS
RANGE

Express Range	- These products are available from our UK Express Distribution Centre for delivery from the date of order.
Standard Service	- Please consult your local distributor for availability, maintenance and repair.

Name : Fan Enquiry
 Station Number :
 Customer : Leung Sing
 Fan Code : 50JM/20/4/6/32
 Fan Diameter / Size : 500 mm
 Blades : 6
 Fan Speed : 1420 rpm
 Velocity : 8.7 m/s
 Blade Angle : 32°
 Form of Running : B
 Fan Casing : Long
 Requested Duty : 1.71m³/s @ 186 Pa (static)
 Outlet Dynamic Pressure : 46 Pa
 Duty Shaft Power : 0.614 kW
 Max Shaft Power : 0.626 kW
 Total Efficiency : 65 %
 Motor Frame : CT5
 Motor Efficiency : IE1
 Motor Rating : 0.520 kW
 Full Load Current : 3.9 A
 Starting Current : 7.8 A
 Motor Mounting : Pad
 Electrical Supply : 220-240 Volts 50 Hz 1 Phase
 Start Type : DOL
 Motor Winding : Standard
 Enclosure : Standard All
 Air Density : 1.2 kg/m³ / 20°C / 0 m / 50% RH
 Smoke Venting : Non Smoke Venting
 Product Number : DX511466

Date: : Tuesday, March 6, 2012
 Fan Code : 50JM/20/4/6/32
 Item Reference: :

Performance data has been derived from tests carried out in a Flakt Woods laboratory, in accordance with ISO 5801 and is specifically applicable for Ducted installations. When an electronic controller is incorporated, enhanced motor noise can occur - particularly when the operating speed is well below maximum FWL therefore recommend using an auto transformer speed controller for noise sensitive applications.

Acoustic data has been derived from tests carried out in a Flakt Woods laboratory in accordance with BS 848 Pt 2, 1985 under Ducted conditions. The single figure provided is the overall Inlet sound pressure level at the specified distance under spherical free field conditions. Breakout levels stated are estimated from induct sound power levels and are provided for guidance.

Terms and Conditions: This offer is made subject to the terms and conditions detailed on the accompanying letter.

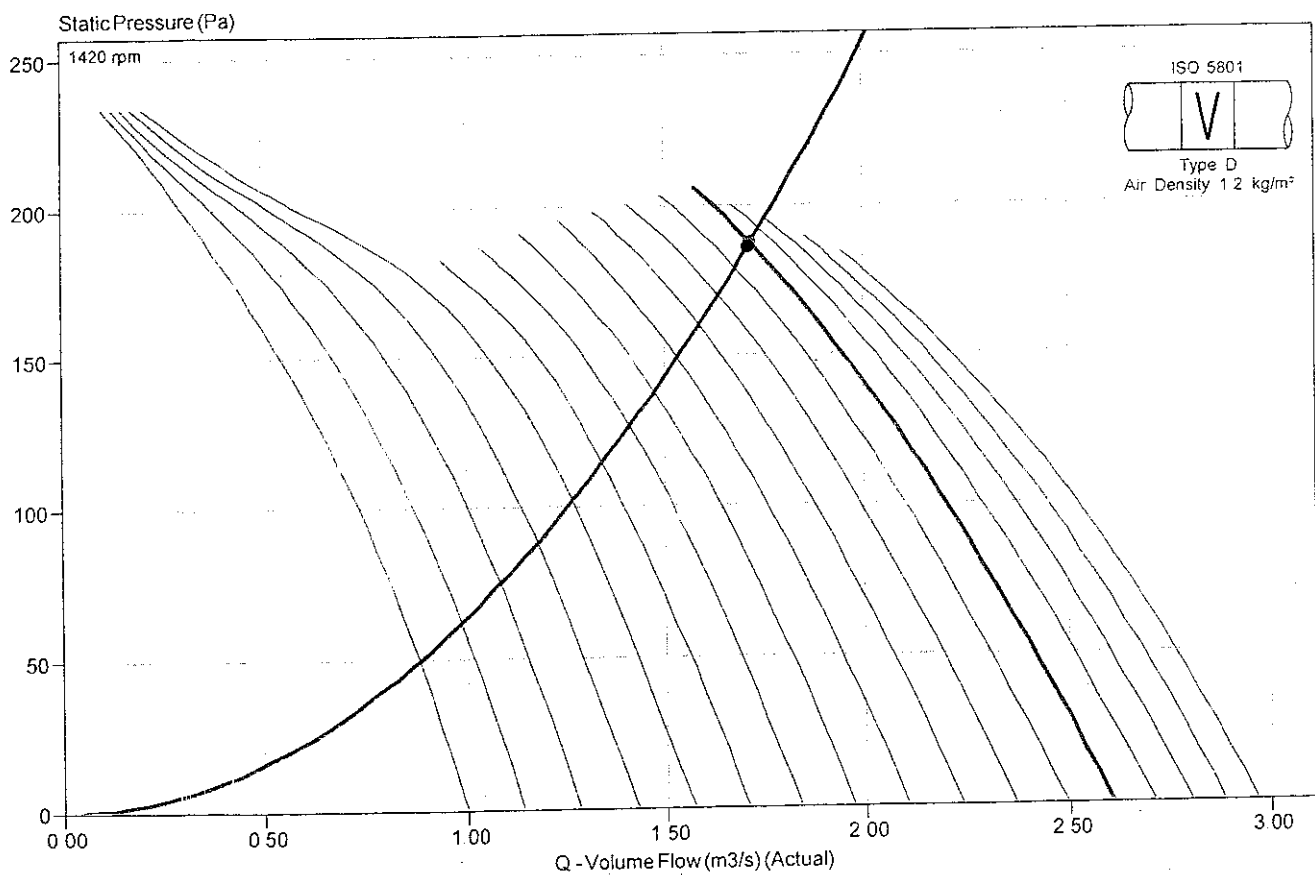
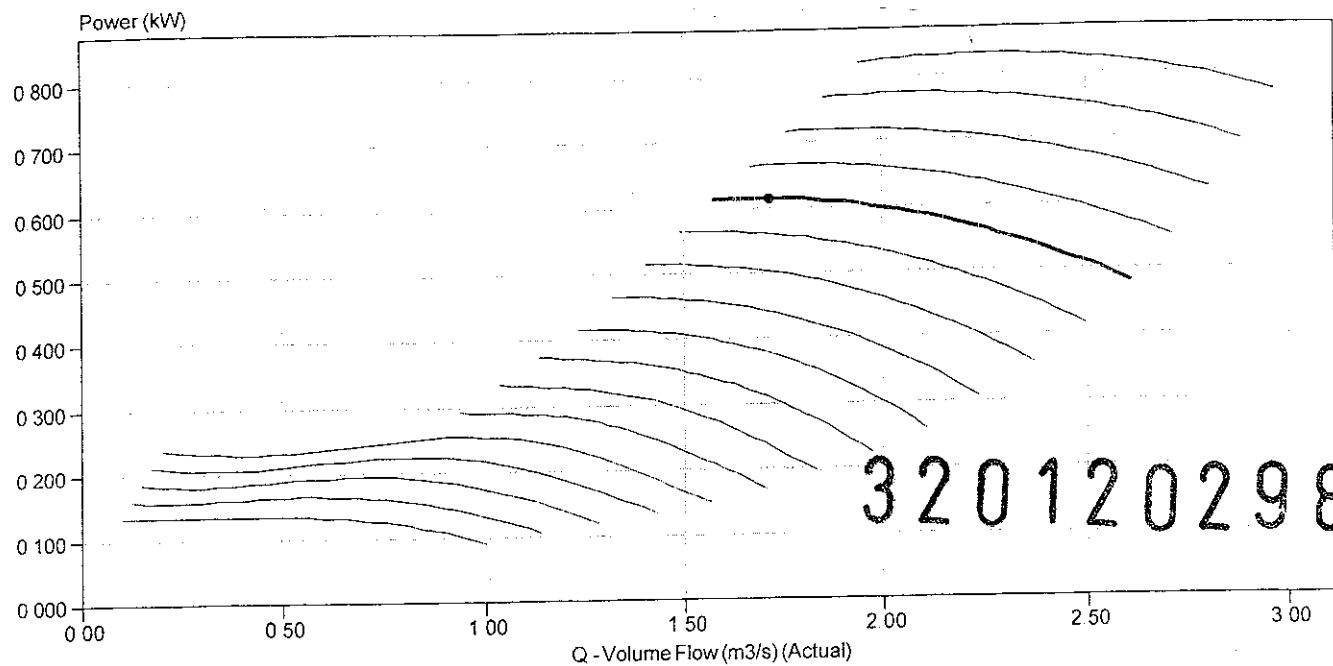
3322071220229988PP

	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3m**
Inlet*	76	78	76	74	72	69	65	61	83	56
Outlet*	78	79	76	74	73	70	67	62	84	57
Breakout*	68	61	54	51	48	42	45	38	69	34

* Lw dB re 10⁻¹² W ** dBA re 2x10⁻⁵ Pa

Name : Fan Enquiry
Station Number :
Customer : Leung Sing

Date: : Tuesday, March 6, 2012
Fan Code : 50JM/20/4/6/32
Item Reference: :



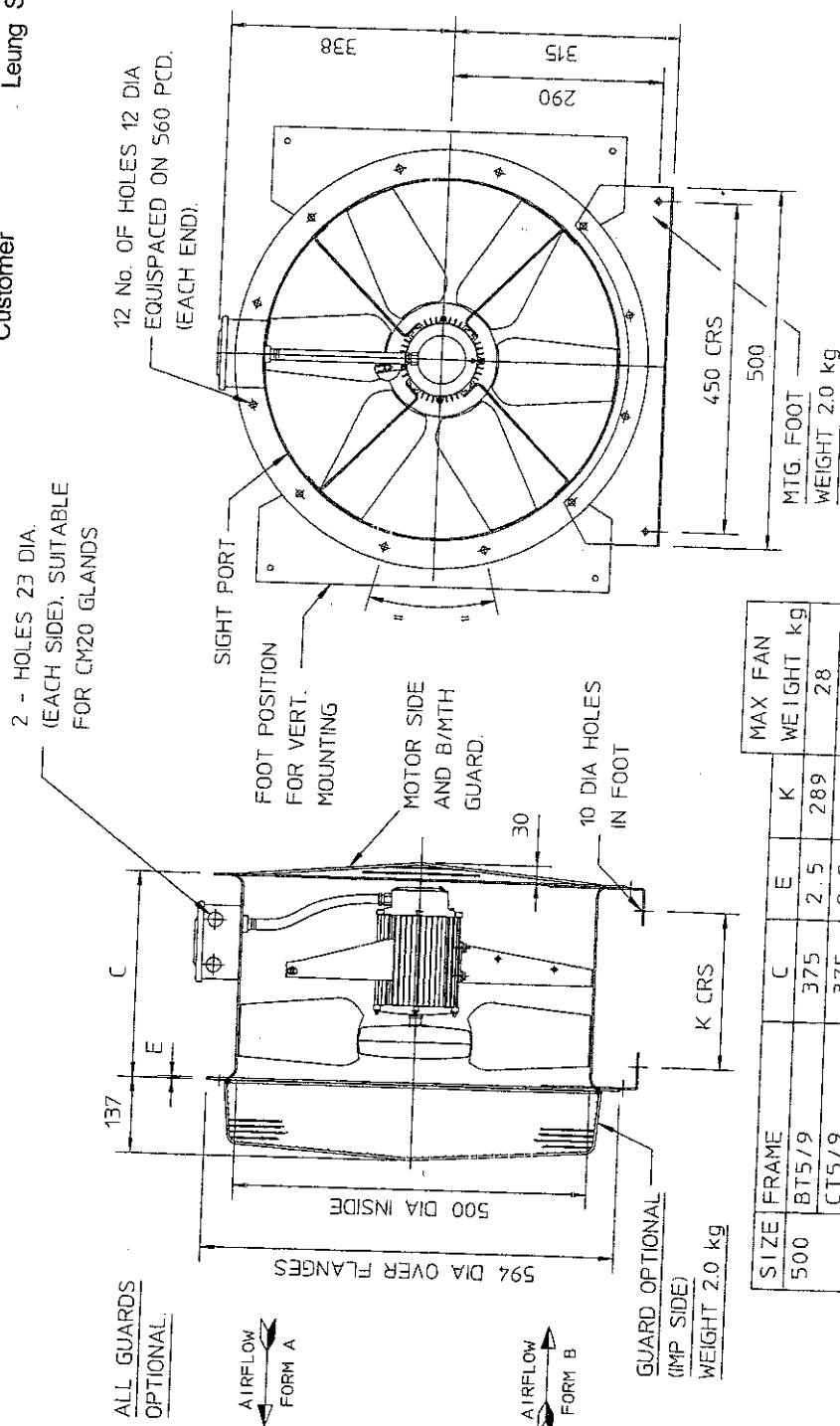
Date:
Fan Code
Item Reference:

Tuesday, March 6, 2012
50JM/2014/6/32

Project Name
Quotation Number
Customer

Fan Enquiry

Leung Sing



SIZE	FRAME	C	E	K	MAX FAN WEIGHT kg
500	BT5/9	375	2.5	289	28
	CT5/9	375	2.5	289	34
	F22	520	3.0	434	60
	PM112	520	3.0	434	67

Notes : Dimensions shown in mm / Weight in kg
This drawing shows dimensions that should be used as a guide only and are subject to change. Certified drawings are available on request.

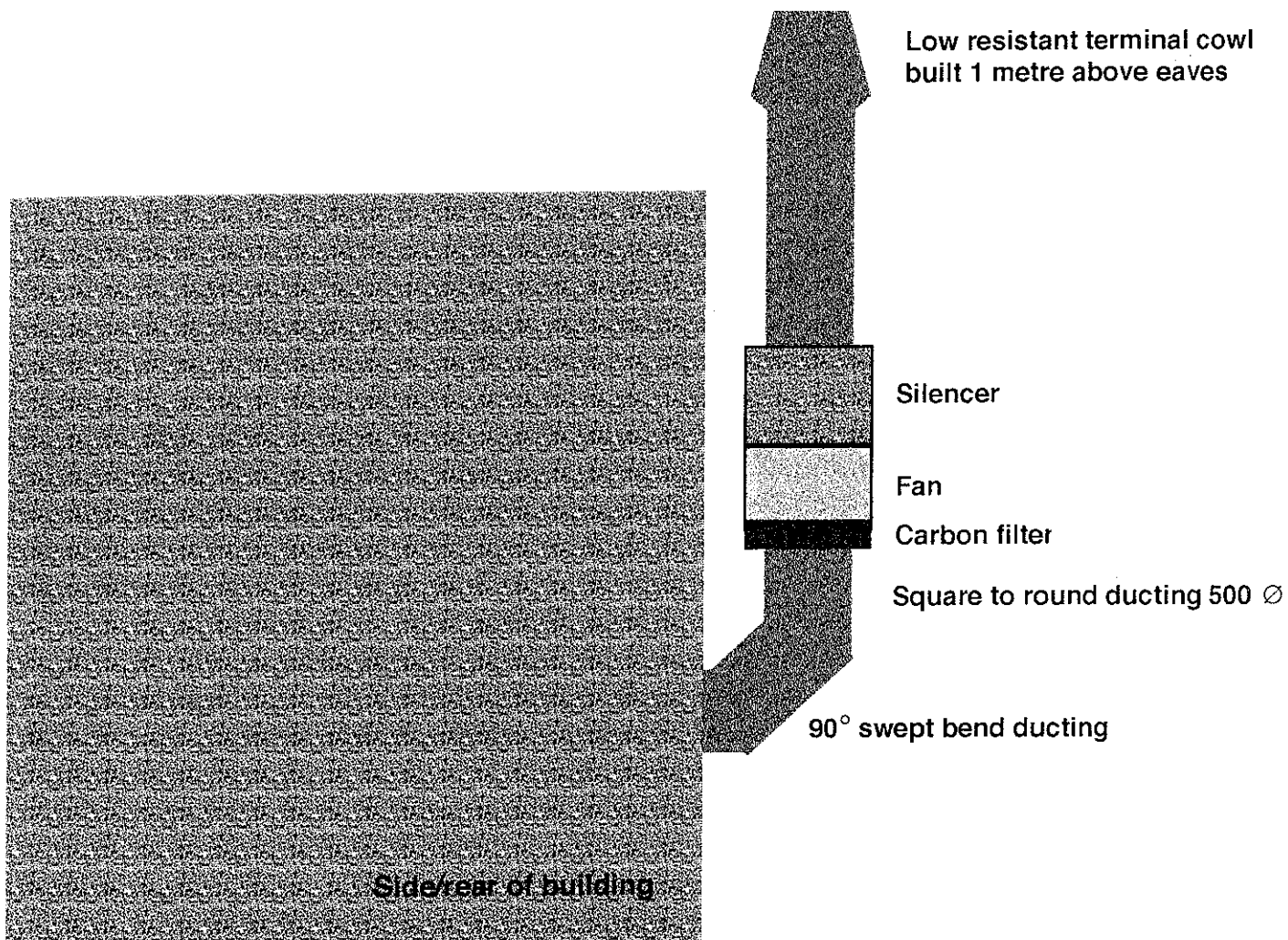
Reference : D248974

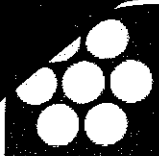
320120298P

Diagram: Extraction ducting

Leung Sing Limited
7 Rachel St, Liverpool, L5 5BR
Tel: +44(0)151 207 3788
Fax: +44(0)151 207 3780
info@leungsing.com
www.leungsing.com

320120298 P





FBEC-1224

CCarb 1850m3/hr 0 1 DT 145Pa 925m3/hr 0 2 Dwell Time 61Pa

Description/Application

CaterCarb300 - CaterCarb unit 300mm High Panel & Carbon (Discarb)

Description

Kitchen extraction unit consisting of a G4 panel filter and activated carbon Discarb Cell

Good for low air volumes up to 1850m3/hr

320120298P

Application

Specification

EU Grade

G4

Efficiency (>95%)

μ (Micron)

Capacity

Rated Capacity (CFM): 1088

Rated Capacity (M³/hr): 1850

Resistance

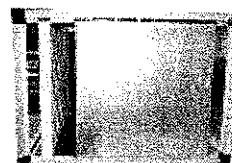
Dimensions

Nominal (Inches): 15x26x36

Actual (mm): 365x657x900

Pockets:

Visual



Leung Sing Limited
7 Rachel St, Liverpool, L5 3BR
Tel: +44(0)151 207 3788
Fax: +44(0)151 207 3780
info@leungsing.com
www.leungsing.com

QUALITY STANDARD



FM 29257
BS EN ISO 9001:2000



Riverside House, Parrett Way, Colley Lane, Bridgwater, Somerset TA6 5LB
Tel: +44(0)1278 452277 Fax: +44(0)1278 450873 sales@jfilters.com www.jfilters.com

ENVIRONMENTAL STANDARD



EMS 81914
BS EN ISO 14001:1996



MultiCarb Activated Carbon
Discarb Units

320120298 D

GENERAL DESCRIPTION

These filters are manufactured for ease of installation and incorporation into ducted air systems. They can be used on both supply for purifying incoming air, and can be used on the extract to remove toxic gasses and odours generated within a process.

Construction

These modules are manufactured by mounting a series of carbon panel filters with a sealed case. The airflow is epitomized by presenting the filtering surfaces in a "V" formation.

Each carbon panel is sealed into the filter case so as to ensure no air can bypass the carbon granules.

The panels are manufactured using long established bonding techniques which hold the activated carbon granules in a rigid biscuit. The biscuit is encapsulated in a carbon impregnated cloth which prevents any leakage of granules or powder.

The unique bonding method used by Jasun Filtration ensures that, unlike our competitors' filters, that the panels will remain intact and rigid even if wet.

Stock Grades of Carbon

208 - Good general Carbon grade suitable for many applications

209 - Copper Coated Carbon for use in Museums and archives

K1 - For enhanced garlic odour removal

Typical Applications include:

Elimination of Cooking Odours

Removal of Kerosene Exhaust Fumes

General Odour Removal

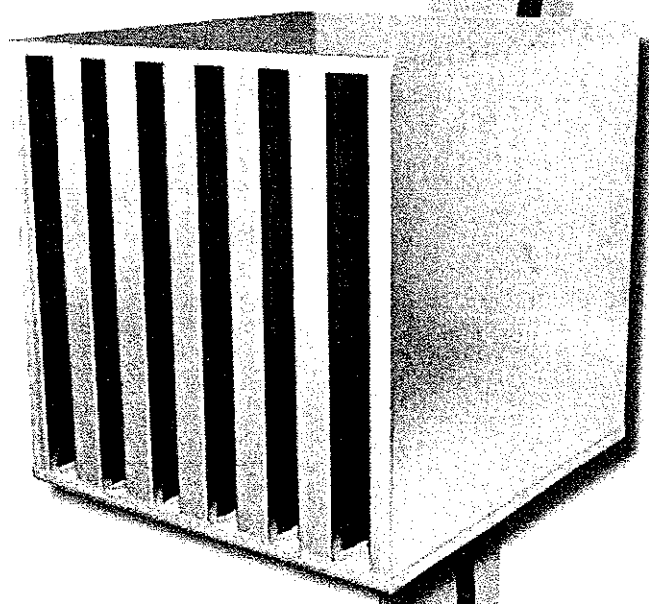
Smoke Removal

Neutralisation of Ammonia and its Derivatives

Removal of Formaldehyde

Removal of Airborne Pollutants and Contaminants

Removal of Acid Gases (H_2S , SO_2 , NOX , HCl)



ENVIRONMENT



EMS 81914
BS EN ISO 14001:2004

QUALITY



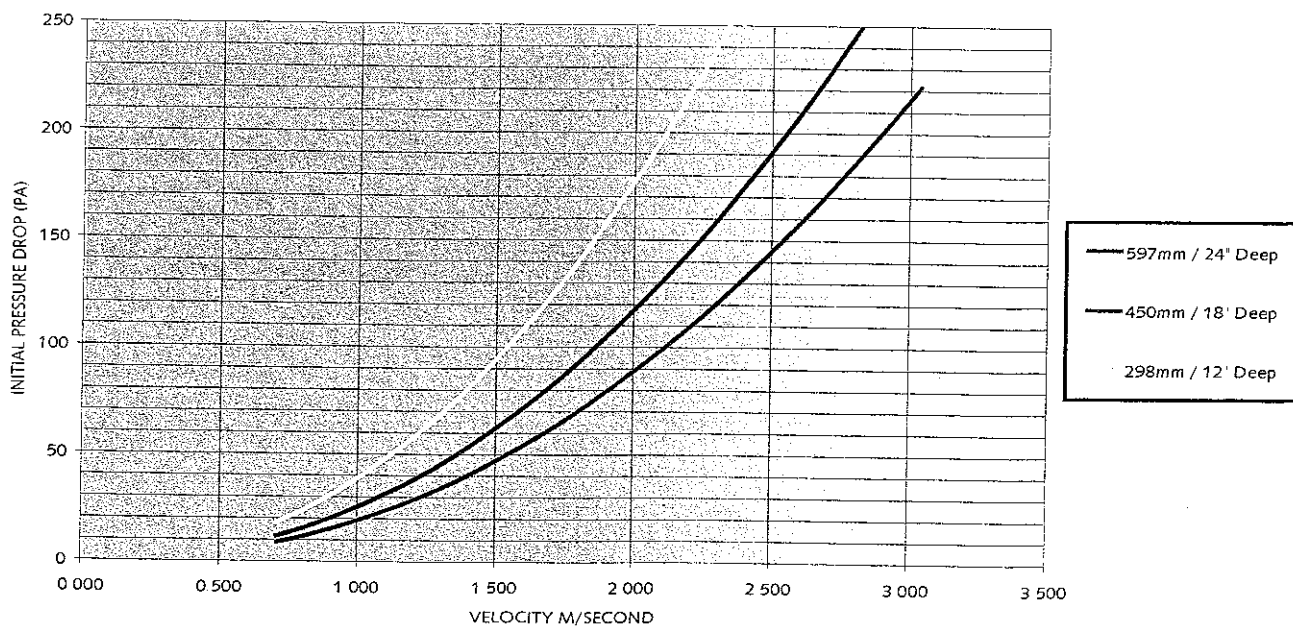
FM 29257
BS EN ISO 9001:2000

Jasun Filtration Plc
Riverside House, Parrett Way
Bridgwater, Somerset
TA6 5LB
United Kingdom

Tel.: +44 (0) 1278 452277
Fax: +44 (0) 1278 450873
Info@jfilters.com
Http://www.jfilters.com

No	Nominal Size (Inches)	Height (mm)	Width (mm)	Depth (mm)	Weight of Carbon (Kg)	Cell Weight	Capacity @ 0.1 Second Dwell Time
DC-CF1-7C	24 x 24 x 8	594	594	197	10	22	800
DC-CF1-HALF-7C	24 x 12 x 8	594	291	197	5	11	400
DC242412/8-7C	24 x 24 x 12	594	594	292	13	24	990
DC121212-7C	12 x 12 x 12	297	297	297	6	12	450
DC181812-7C	18 x 18 x 12	445	445	297	13	25	990
DC241212-7C	24 x 12 x 12	594	297	297	13	25	990
DC242412-7C	24 x 24 x 12	594	594	297	25	36	1900
DC-CF2-7C	24 x 24 x 16	594	594	397	18	34	1370
DC-CF2-HALF-7C	24 x 12 x 16	594	291	397	9	18	685
DC-WA15-208	24 x 6 x 18	144	600	440	7	13	533
DC121218-7C	12 x 12 x 18	292	292	451	10	15	761
DC181818-7C	18 x 18 x 18	445	445	451	19	26	1445
DC241218-7C	24 x 12 x 18	594	297	451	18	26	1369
DC242418-7C	24 x 24 x 18	594	594	451	36	52	2740
DC121224-7C	12 x 12 x 24	292	292	597	13	19	990
DC181824-7C	18 x 18 x 24	445	445	597	25	36	1900
DC241224-7C	24 x 12 x 24	594	297	597	25	36	1900
DC242424-7C	24 x 24 x 24	594	594	597	50	61	3800

LINEAR VELOCITY M/SECOND VS PRESSURE DROP
MULTICARB ACTIVATED CARBON CELLS



Intrepid M8 Pleated Panel Filter

320120298P

The Intrepid M8 panel filter is a high capacity disposable product offering a better than basic level of filtration, or pre-filtration in HEVAC applications. This product is made using patented Kimberly Clark media which delivers a constant level of filtration over its life.

Construction

This product is constructed by bonding a pleat pack of Intrepid M8 media into a water repellent AquaKote card frame

Features

The Frame is made from AquaKote card which has

- superior tear resistance when wet
- great dry tear resistance and
- is made from a renewable source.

The Patented Kimberley Clark Intrepid media

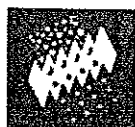
- Has a Graduated Density for even dirt loading
- Hydrophobic – so will not load with moisture in the air
- Has a constant efficiency due to its extra electrostatic charge
- Superior Efficiency V's Particle size (see table)
- Has a low pressure drop
- Is made from continuous fibres so will not shed

Efficiency Performance data G4 to EN779

Test Comparing Filtration efficiency V's different sized particles Intrepid Media V's Cotton Polyester Filters

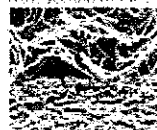
Particle Size Rang(mm)	Initial Fractional Efficiency(%)	
	Intrepid M8	The "best" Cotton Poly Alternative
0.3-0.4	7	2
0.4-0.55	15	6
0.55-0.7	28	11
0.7-1.0	41	19
1.0-1.3	52	24
1.3-1.6	58	28
1.6-2.2	63	32
2.2-3.0	67	36
3.0-4.0	70	37
4.0-5.5	71	38
5.5-7.0	72	38
7.0-10.0	73	39

Filter Thickness	Rated Airflow	Initial Pressure Drop
20mm	1.5m/sec	45Pa
45mm	2.0m/sec	47Pa
95mm	2.5m/sec	60Pa



POWERED BY
INTREPID
 Filtration Media

Intrepid media pleat pack in the cross section of the product shown



Coarse



Fine

ENVIRONMENT



EMS 81914
 BS EN ISO 14001:2004

QUALITY



FM 29257
 BS EN ISO 9001:2000

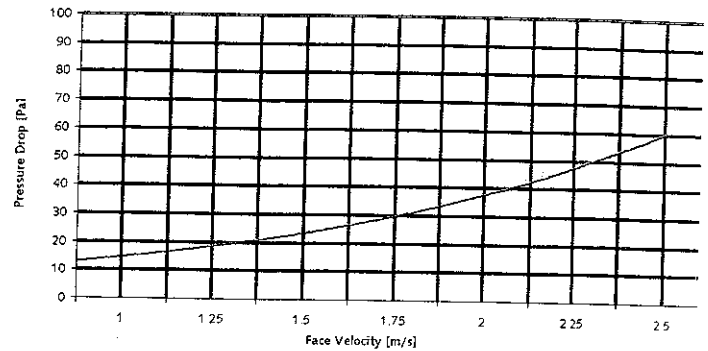
Jasun Filtration Plc
 Riverside House, Parrett Way
 Bridgwater, Somerset
 TA6 5LB
 United Kingdom

Tel: +44 (0) 1278 450873
 Fax: +44 (0) 1278 452277
 info@jfilters.com
 http://www.jfilters.com

Intrepid M8 Pleated Panel Filter STANDARD SIZES

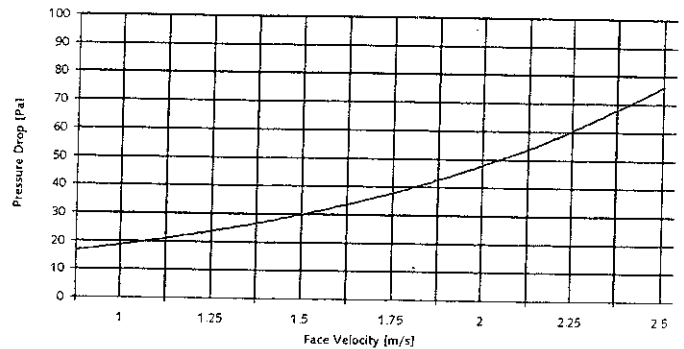
320120298P

Pressure Drop vs/ Face Velocity
Intrepid M84 Panel Filter 95mm Thick



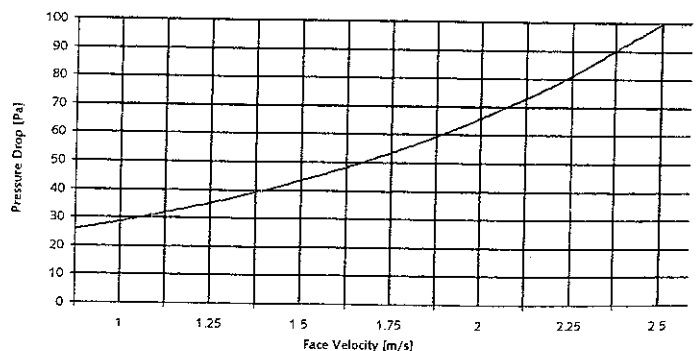
No.	Nominal Size Inches	Height (mm)	Width (mm)	Depth (mm)	Rated Airflow m³/hr
M84-1010	10x10x4	241	241	95	544
M84-1020	10x20x4	241	495	95	1117
M84-1212	12x12x4	292	292	95	798
M84-1224	12x24x4	292	594	95	1623
M84-1515	15x15x4	368	368	95	1268
M84-1520	15x20x4	368	495	95	1705
M84-1616	16x16x4	394	394	95	1453
M84-1620	16x20x4	394	495	95	1825
M84-1625	16x25x4	394	622	95	2294
M84-1818	18x18x4	445	445	95	1854
M84-1824	18x24x4	445	594	95	3228
M84-2020	20x20x4	495	495	95	2293
M84-2024	20x24x4	495	594	95	2752
M84-2025	20x25x4	495	622	95	2882
M84-2424	24x24x4	594	594	95	3303

Pressure Drop vs/ Face Velocity
Intrepid M82 Panel Filter 45mm Thick



No.	Nominal Size Inches	Height (mm)	Width (mm)	Depth (mm)	Rated Airflow m³/hr
M82-1010	10x10x2	241	241	45	418
M82-1020	10x20x2	241	495	45	859
M82-1212	12x12x2	292	292	45	614
M82-1224	12x24x2	292	594	45	1249
M82-1515	15x15x2	368	368	45	975
M82-1520	15x20x2	368	495	45	1312
M82-1616	16x16x2	394	394	45	1083
M82-1620	16x20x2	394	495	45	1404
M82-1624	16x24x2	394	594	45	1688
M82-1625	16x25x2	394	622	45	1764
M82-1818	18x18x2	445	445	45	1426
M82-1820	18x20x2	445	495	45	1586
M82-1824	18x24x2	445	594	45	1903
M82-2020	20x20x2	495	495	45	1764
M82-2024	20x24x2	495	594	45	2117
M82-2025	20x25x2	495	622	45	2217
M82-2424	24x24x2	594	594	45	2540

Pressure Drop vs/ Face Velocity
Intrepid M81 Panel Filter 20mm Thick



No.	Nominal Size Inches	Height (mm)	Width (mm)	Depth (mm)	Rated Airflow m³/hr
M81-1010	10x10x2	241	241	45	314
M81-1020	10x20x2	241	495	45	644
M81-1212	12x12x2	292	292	45	460
M81-1224	12x24x2	292	594	45	937
M81-1515	15x15x2	368	368	45	731
M81-1520	15x20x2	368	495	45	984
M81-1616	16x16x2	394	394	45	1000
M81-1620	16x20x2	394	495	45	1053
M81-1624	16x24x2	394	594	45	1264
M81-1625	16x25x2	394	622	45	1323
M81-1818	18x18x2	445	445	45	1069
M81-1820	18x20x2	445	495	45	1189
M81-1824	18x24x2	445	594	45	1427
M81-2020	20x20x2	495	495	45	1323
M81-2024	20x24x2	495	594	45	1588
M81-2025	20x25x2	495	622	45	1663
M81-2424	24x24x2	594	594	45	1905

Cylindrical Silencers

320120298P

Type B & C Silencers

Construction

Casings are of rolled, pre-galvanised sheet steel with spun end rings incorporating tapped inserts for fixing. Suitable fixing screws are provided with all steel silencers.

The absorbent material is acoustic grade mineral fibre with an erosion resistant facing. It is protected and contained by a pre-galvanised perforated steel sheet formed to match the fan diameter.

Cylindrical silencers shall be suitable for air pressures up to a maximum of 1000 Pa. For duct pressures in excess of 1000 Pa please enquire.

A Melinex Lining (variant code M) can be supplied for critically clean applications such as hospitals to ensure no fibre migration. The lining may also be used in moisture or grease laden conditions, such as kitchen extract systems where the material is used to stop the ingress of grease etc. into the acoustic media. The use of the lining also allows the silencers to be low pressure steam cleaned. Some reduction of attenuation due to the lining will be experienced.

Performances

Are derived from tests to BS848. Measurements of fan noise are made with and without the silencer in position. The difference between recorded levels is the dynamic (with airflow) attenuation or insertion loss of the silencer. Type B silencers may be directly coupled to both inlet and outlet flanges of the fan. When type C silencers are directly coupled to the fan flanges they are most effective on the outlet. A spacer duct of 1D length between the fan inlet flange and a type C silencer is necessary to ensure maximum performance. Note: C type silencers mounted close to a fan may effect the aerodynamic performance.

Size Range

Type B silencer bore diameters range from 280 mm to 2000 mm metric range, 6" to 75" imperial range in lengths equal to or twice the bore diameter (1D or 2D). 6" to 9.5" are available in 1.5 D lengths only. Pressure loss for type B silencers is the same as a plain duct.

Type C silencers have a centrally mounted absorbent pod in the airway

for increased attenuation. The pressure loss due to the pod is shown on the chart below.

The diameter range is 315 mm to 2000 mm metric range or 12" to 75" imperial range.

Fume Handling

Stainless Steel, PVC or Polypropylene construction is also available for corrosive atmospheres. Please send details of the application with the enquiry.

Marine Use

The construction of standard silencers has been proved satisfactory for use below decks on ships and oil rigs and a specially strengthened design is available for other locations, please enquire.

Temperature Range

Standard silencers are suitable for temperatures from -40°C to 200°C. When moisture resistant lining is used the continuous air handling temperature is limited to 80°C. Special treatments enable silencers to operate at temperatures up to 600°C. For smoke applications, please enquire.

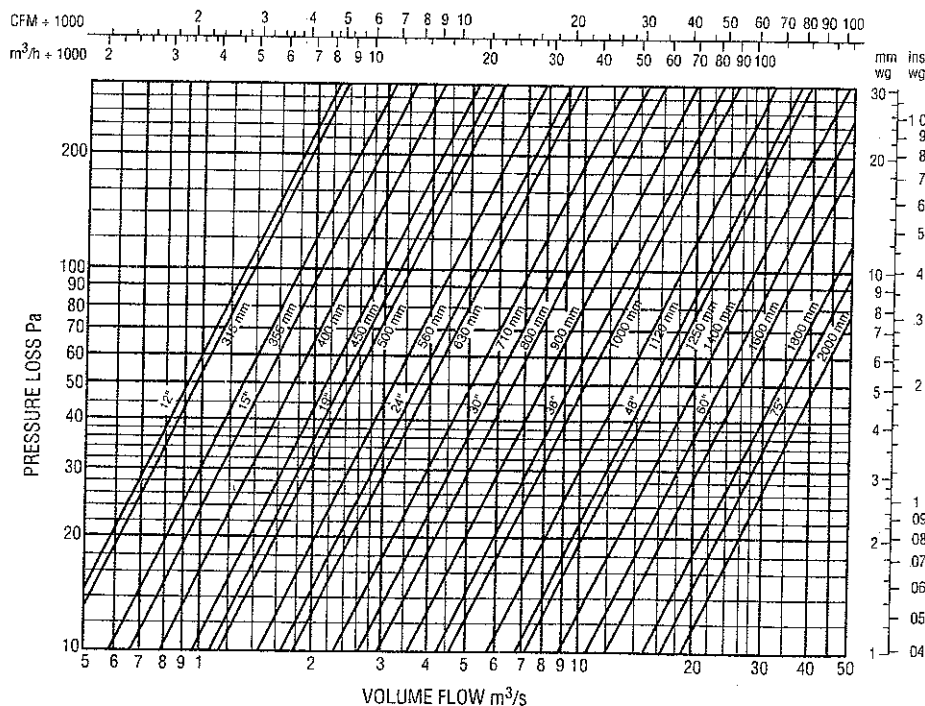
Finishes

Standard finish is galvanised zinc coating to BS2989 Z2. Other finishes including epoxy paint are available to special order.

Mounting

Galvanised steel mounting feet and matching flanges corresponding to those supplied for Aerofoil fans are available.

Resistance to Air Flow Type C Silencer



Cylindrical Silencers

Acoustic Performance



Type B Dynamic Attenuation

Imperial

Bore Dia. Ins (D)	Length	Octave-Band Mid Frequencies Hz							
		63	125	250	500	1K	2K	4K	8K
6	1.5D	0	0	1	6	12	9	10	7
7.5	1.5D	0	0	1	7	11	8	9	6
9.5	1.5D	0	0	2	7	11	7	7	6
12	1D	1	2	4	9	11	10	9	7
	2D	1	2	5	11	16	12	11	10
15	1D	2	3	5	10	13	11	9	8
	2D	3	4	7	14	18	15	11	12
19	1D	2	3	6	13	14	10	10	5
	2D	3	4	8	19	18	14	11	10
24	1D	3	5	7	15	13	8	9	8
	2D	4	6	9	19	19	14	13	12
30	1D	3	5	8	16	12	9	9	8
	2D	4	6	10	19	15	12	11	10
38	1D	4	5	11	16	11	10	8	9
	2D	4	6	13	19	13	12	11	11
48	1D	4	6	12	17	10	9	8	7
	2D	5	7	14	19	14	11	11	9
60	1D	5	7	13	16	10	8	7	6
	2D	6	8	15	18	12	10	9	7

Metric

Bore Dia. mm (D)	Length	Octave-Band Mid Frequencies Hz							
		63	125	250	500	1K	2K	4K	8K
280	1D	1	1	2	8	11	8	8	7
	2D	1	2	4	10	13	10	10	9
315	1D	1	2	4	9	11	10	9	7
	2D	1	2	5	11	16	12	11	10
355	1D	1	2	4	10	12	10	9	7
	2D	2	3	6	13	17	14	11	11
400	1D	2	3	5	10	13	11	9	8
	2D	3	4	7	14	18	15	11	12
450	1D	2	3	6	12	13	11	10	6
	2D	3	4	8	17	18	15	11	11
500	1D	2	3	6	13	14	10	10	5
	2D	3	4	8	19	18	14	11	10
560	1D	2	4	7	14	14	9	10	7
	2D	3	5	9	19	18	14	12	11
630	1D	2	5	7	15	13	8	9	8
	2D	4	6	9	19	19	14	13	12
710	1D	3	5	7	15	13	9	9	8
	2D	4	6	9	19	17	13	12	11
800	1D	3	5	8	16	12	9	9	8
	2D	4	6	10	19	15	12	11	10
900	1D	3	5	10	17	13	11	10	8
	2D	4	6	12	19	15	12	11	10
1000	1D	4	5	11	16	11	10	8	9
	2D	4	6	13	19	14	12	11	11
1120	1D	4	5	11	17	11	9	8	8
	2D	4	6	13	19	14	12	11	8
1250	1D	4	6	12	17	10	9	8	7
	2D	4	6	14	19	14	11	11	9
1400	1D	4	6	12	16	10	8	7	6
	2D	4	7	14	18	13	10	10	8
1600	1D	4	7	12	16	10	8	7	6
	2D	4	8	15	18	12	10	9	7

Type C Dynamic Attenuation

Imperial

3 2 0 1 2 0 2 9 8 P

Bore Dia. Ins (D)	Length	Octave-Band Mid Frequencies Hz							
		63	125	250	500	1K	2K	4K	8K
12	1D	2	5	5	9	18	20	18	15
	2D	2	6	6	12	20	25	20	17
15	1D	2	6	6	10	19	24	20	17
	2D	3	7	8	14	29	29	23	18
19	1D	2	3	8	16	21	22	21	17
	2D	2	4	10	20	29	30	26	20
24	1D	3	5	8	16	19	14	16	12
	2D	5	6	10	19	29	25	21	20
30	1D	4	5	8	16	19	15	14	13
	2D	5	7	10	20	23	21	17	14
38	1D	5	5	11	18	19	14	14	14
	2D	5	6	13	26	24	20	18	16
48	1D	5	8	12	19	17	14	12	10
	2D	5	8	14	25	23	17	17	12
60	1D	5	8	13	17	16	13	11	8
	2D	6	10	17	21	20	17	14	9

Metric

Bore Dia. mm (D)	Length	Octave-Band Mid Frequencies Hz							
		63	125	250	500	1K	2K	4K	8K
315	1D	2	5	5	9	18	20	18	15
	2D	2	6	6	12	20	25	20	17
355	1D	2	5	6	9	18	22	19	16
	2D	2	6	7	13	25	27	21	17
400	1D	2	6	6	10	19	24	20	17
	2D	3	7	8	14	29	29	23	18
450	1D	2	4	7	13	20	23	22	17
	2D	2	5	9	16	29	29	21	20
500	1D	2	3	8	16	21	22	21	17
	2D	2	4	10	20	29	30	20	26
560	1D	3	5	8	16	20	18	19	15
	2D	4	5	10	20	29	28	21	23
630	1D	3	5	8	15	19	16	14	12
	2D	5	6	10	19	29	25	21	20
710	1D	3	5	8	15	19	15	14	12
	2D	5	6	10	20	26	23	18	17
800	1D	4	5	8	16	19	15	14	13
	2D	5	7	11	22	23	21	16	14
900	1D	4	5	9	17	19	15	14	13
	2D	5	7	12	24	23	21	16	15
1000	1D	5	5	11	18	19	15	14	13
	2D	5	7	13	26	24	20	16	16
1120	1D	5	7	11	19	18	14	13	12
	2D	5	8	13	25	23	18	16	13
1250	1D	5	8	12	19	17	14	12	10
	2D	5	8	14	25	17	17	17	12
1400	1D	5	8	12	18	16	13	11	9
	2D	5	9	15	23	22	17	15	10
1600	1D	5	8	13	17	16	13	11	8
	2D	6	10	17	21	20	17	14	9

For sizes above 60" or 1600 mm please enquire.

All performances are derived from tests to BS848.

For increased attenuation use Woods splitter silencers. Attenuation figures shown are typical in-situ Dynamic Performances. For critical applications, particularly high performance fan systems please consult Woods Acoustic Department.

Cylindrical Silencers

Dimensions & Weights *

320120298P

Imperial

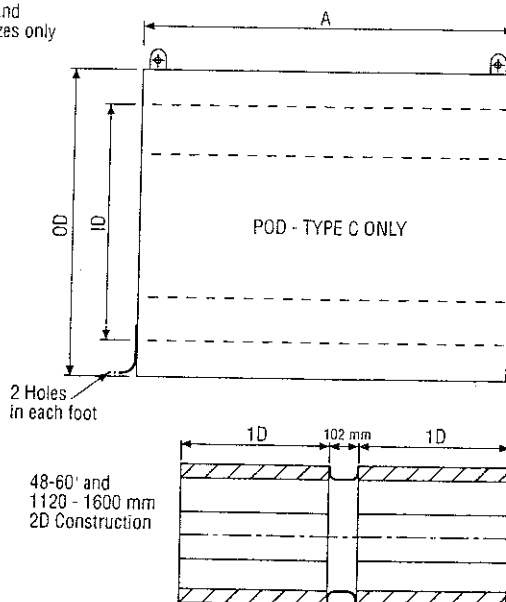
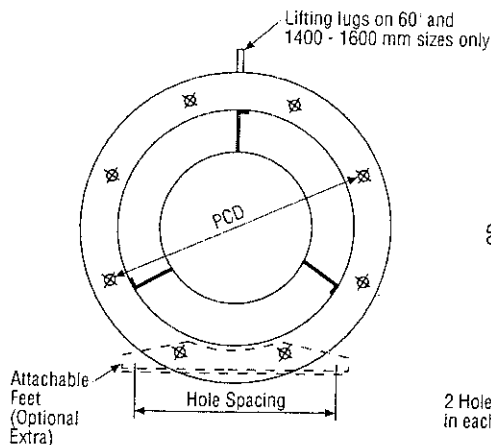
Ins.	Imperial - Dimensions (mm)							Weight kg					
Size (D)	OD	No of Holes	PCD	Thread	Mounting Foot Holes		A Length		B		C		
					Dia	Spacing	1D	2D	1D	2D	1D	2D	
6	210	4	184	M6	7	130	229*		2.7*		-		
7.5	248	4	216	M6	7	152	286*		3.6*		-		
9.5	298	4	273	M8	9	194	362*		5.0*		-		
12	416	8	349	M8	11	273	305	610	10	16	12	18	
15	492	8	425	M10	11	343	381	762	13	22	16	26	
19	645	8	541	M12	11	438	483	965	24	39	28	46	
24	773	12	668	M12	11	559	610	1219	34	57	39	67	
30	926	12	821	M12	14	711	762	1524	51	87	60	102	
38	1181	16	1035	M16	14	914	965	1930	79	149	94	172	
48	1450	20	1289	M16	14	1143	1219	2540	114	239	133	278	
60	1749	24	1626	M16	14	1422	1524	3150	250	529	282	563	

Metric

mm	Metric (mm)								Weight kg							
Size (D)	OD	No of Holes	PCD	Thread	Mounting Foot Holes		A Length		B		C					
					Dia	Spacing	1D	2D	1D	2D	1D	2D				
280	385	4	320	M8	10	230	280	560	9	14	-	-				
315	415	8	355	M8	10	265	315	630	10	17	13	19				
355	455	8	395	M8	10	305	355	710	12	20	15	24				
400	500	8	450	M10	10	350	400	800	15	25	18	30				
450	600	8	500	M10	10	400	450	900	20	33	24	39				
500	650	12	560	M10	10	450	500	1000	25	41	29	48				
560	710	12	620	M10	10	510	560	1120	30	50	35	58				
630	780	12	690	M10	12	580	630	1260	35	61	42	72				
710	860	16	770	M10	10	660	710	1420	44	76	53	90				
800	1000	16	860	M10	12	750	800	1600	55	96	66	116				
900	1100	16	970	M12	12	850	900	1800	70	129	84	150				
1000	1200	16	1070	M12	12	950	1000	2000	82	157	100	182				
1120	1320	20	1190	M12	16	1070	1120	2342	100	211	118	247				
1250	1450	20	1320	M12	16	1150	1250	2602	127	266	147	306				
1400	1600	20	1470	M12	16	1300	1400	2902	199	399	220	453				
1600	1800	24	1680	M16	16	1500	1600	3302	311	637	362	739				

Notes:

- 6" - 9.5" are 1.5D long
- For larger sizes please enquire



Packing Specification

Protective Boards screwed to ends.
 Packed length is Silencer length plus 50 mm.
 Packed width and height $\approx$ Silencer O.D.

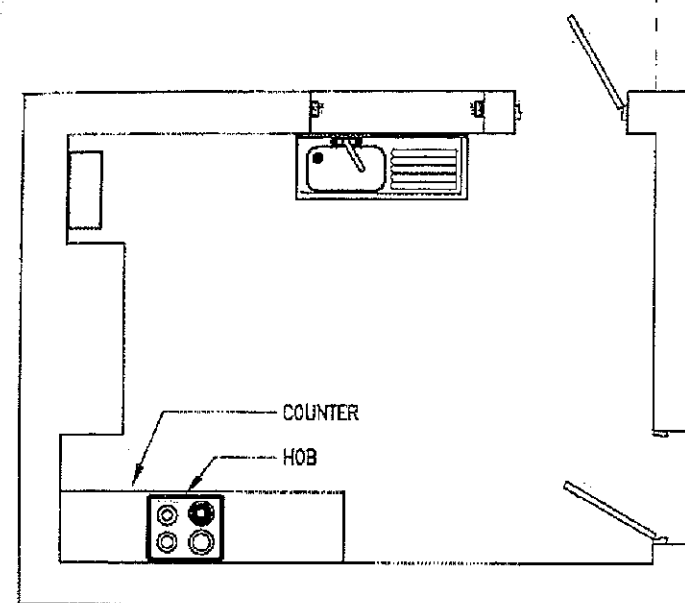
Alternative crated packing

(at extra cost)

Typically:

Packed length is Silencer length plus 150 mm
 Packed section is square
 Side dimension is Silencer O.D. plus 200 mm

320120298P



BUILDING OUTLINE

NOTES

Dimensions Subject to final site survey
information scaled from original Drawings.
DO NOT SCALE FROM DRAWING

This drawing is a copyright drawing & must not
be copied or reproduced without the consent of
Leung Sing Ltd
All drawings may be subject to revision after
completion of site survey

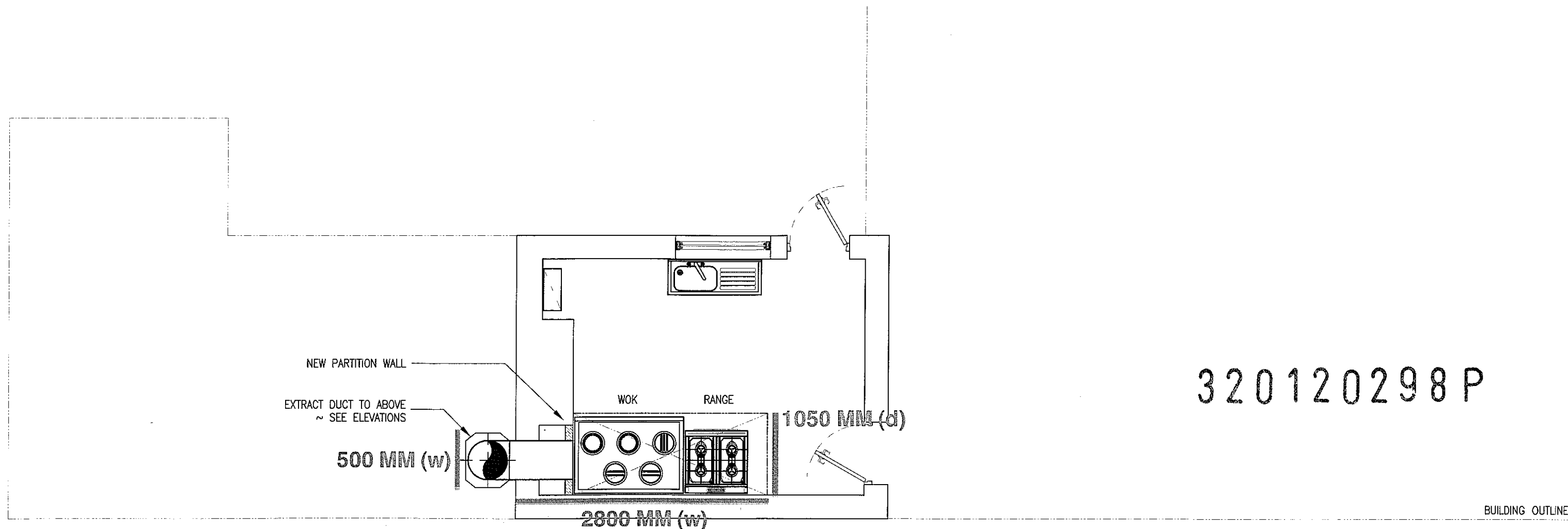
59 WOONE LANE ~ CLITHEROE EXISTING KITCHEN LAYOUT

DWG No	12-2604-02		
SCALE	1:50 @ A3	DATE	26-04-12
DRAWN BY	BM	STATUS	APPROVAL
CHK'D BY	EWAN	REV	

亮 Leung Sing Limited

Specialist in Kitchenware, Bath & Hip Baths and Ceramic Tiling Services

7 RACHEL STREET LIVERPOOL L5 5BR TEL: 0151 207 3788 FAX: 0151 207 3780



320120298 P

NOTES

Dimensions Subject to final site survey.
Information scaled from original Drawings.
DO NOT SCALE FROM DRAWING.

This drawing is a copyright drawing & must not
be copied or reproduced without the consent of
Leung Sing Ltd.

All drawings may be subject to revision after
completion of site survey

59 WOONE LANE ~ CLITHEROE PROPOSED KITCHEN LAYOUT

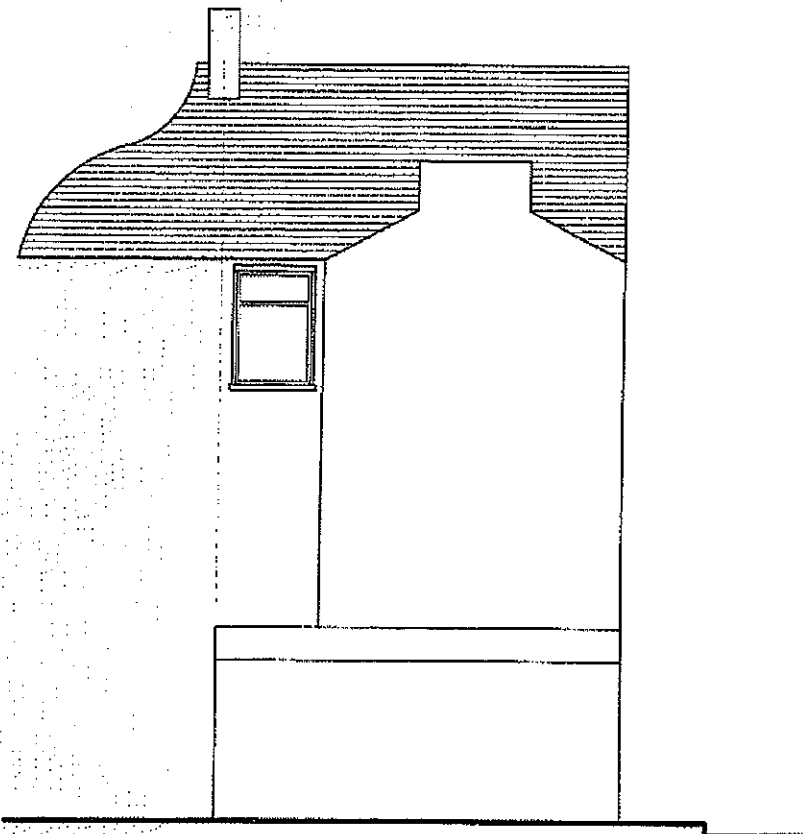
DWG No	12-2604-04 A1		
SCALE	1-50 @ A3	DATE	26-04-12
DRAWN BY	BM	STATUS	APPROVAL
CHK'D BY	EWAN	REV	-

亮 亮聲爐具廠
Leung Sing Limited
Over 20 Years Experience

Specialist and Manufacturer of Fick & Chip Ranges and Chinese Cooking Equipment

7 RACHEL STREET LIVERPOOL L5 5BR TEL: 0151 207 3788 FAX: 0151 207 3780

320120298 P



Existing Rear Elevation



Existing Side Elevation

NOTES

Dimensions Subject to final site survey
Information scaled from original Drawings.
DO NOT SCALE FROM DRAWING.

This drawing is a copyright drawing & must not
be copied or reproduced without the consent of
Leung Sing Ltd.
All drawings may be subject to revision after
completion of site survey

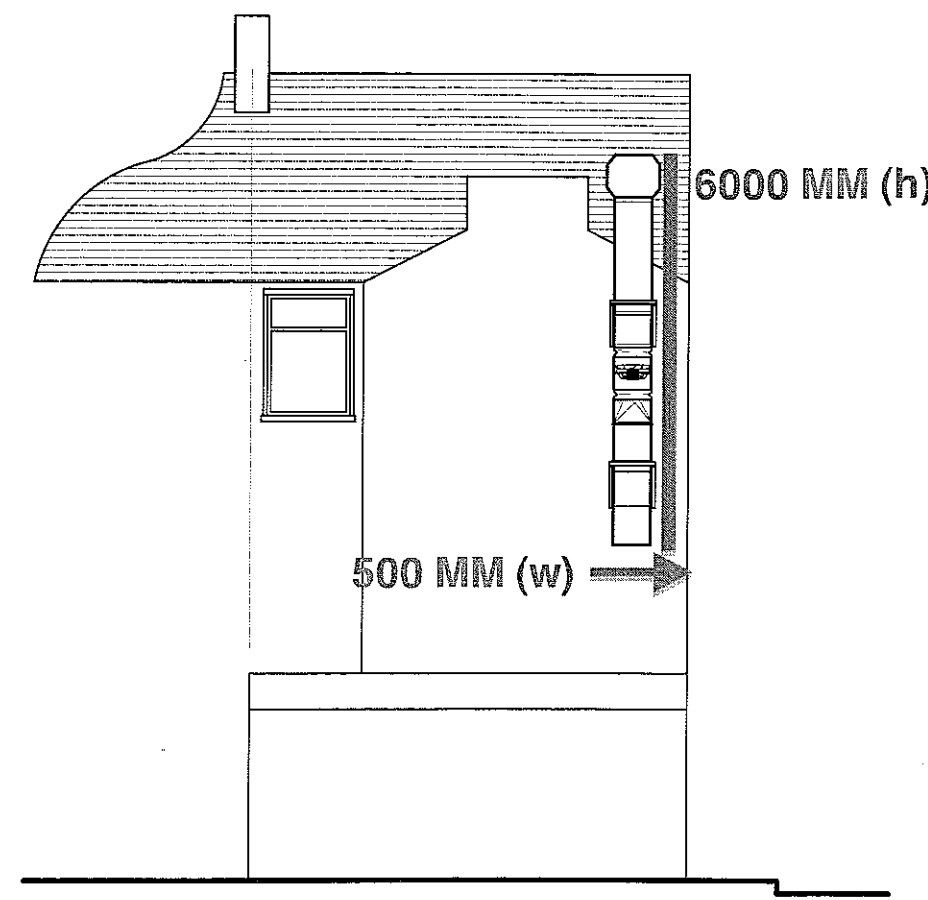
59 WOONE LANE ~ CLITHEROE EXISTING SIDE & REAR ELEVATIONS

DWG No	12-2604-01		
SCALE	1-100 @ A3	DATE	26-04-12
DRAWN BY	BM	STATUS	APPROVAL
CHK'D BY	EWAN	REV	-



7 RACHEL STREET LIVERPOOL L5 5BR TEL: 0151 207 3788 FAX: 0151 207 3780

320120298P



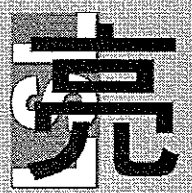
Proposed Rear Elevation



Proposed Side Elevation

NOTES
 Dimensions Subject to final site survey.
 Information scaled from original Drawings.
 DO NOT SCALE FROM DRAWING.
 This drawing is a copyright drawing & must not
 be copied or reproduced without the consent of
 Leung Sing Ltd.
 All drawings may be subject to revision after
 completion of site survey

59 WOONE LANE ~ CLITHEROE PROPOSED SIDE & REAR ELEVATIONS			
DWG No	12-2604-03 B1		
SCALE	1-100 @ A3	DATE	26-04-12
DRAWN BY	BM	STATUS	APPROVAL
CHK'D BY	EWAN	REV	-



亮聲爐具廠

Leung Sing Limited

Over 20 Years Experience

Specialist and Manufacturer of Fish & Chip Ranges and Chinese Cooking Equipment

7 RACHEL STREET LIVERPOOL L5 5BR TEL: 0151 207 3788 FAX: 0151 207 3780