

**Ventilation system assessment for
the existing Installation of
extraction ductwork and flue
outlet to east elevation.**

**78 St James's Street
Brighton BN2 1PA**

SUBMITTED TO:

Audrey Sharma PG Cert BSc (Hons)
MCI EH Environmental health officer
Brighton & Hove City Council 2nd
Floor, Bartholomew House,
Bartholomew Square Brighton BN1
1HG T 01273 293142 E
audrey.sharma@brighton-hove.gov.uk

Project No.: 201203
Document No.: 01
Date: 2 February 2021

Revision	Date	Prepared By	Checked By	Status
	02 February 2021		MO	



LOW CARBON CONSULTANTS



CONTENTS:

1. INTRODUCTION:	5
2. THE REQUIREMENTS:	5
3. SUMMARY SPECIFICATION FOR EXISTING SYSTEMS:	6
4. PREVIOUS CORRESPONDENCE WITH PLANNING DEPARTMENTS:	7
5. EXISTING PICTURES:	9
6. EXISTING EXTRACT FAN:	11
7. DRAWINGS:	12

1. INTRODUCTION:

This report has been prepared to provide details showing the existing installation at 78 St James's Street Brighton BN2 1PA to enable to establish existing ventilation systems and improvements to comply with the relevant council policies and British Standard BS4142:1997.

The authority requested to ensure that satisfactory details are submitted and implemented as approved.

2. THE REQUIREMENTS:

External noise from machinery, extract/ ventilation ducting etc.

Condition:

1. No machinery and/or plant shall be used at the premises except between the hours of midday and 23:00 on Monday to Sunday.

Reason: To safeguard the amenities of the occupiers of adjoining properties and to comply with policies SU10 and QD27 of the Brighton & Hove Local Plan.

2. Noise associated with plant and machinery incorporated within the development (including any additional odour control fittings) shall be controlled such that the Rating Level measured or calculated at 1-metre from the facade of the nearest existing noise sensitive premises, shall not exceed a level 5dB below the existing LA90 background noise level. The Rating Level and existing background noise levels are to be determined as per the guidance provided in BS 4142:2014. In addition, there should be no significant adverse impacts from low frequency noise.

Reason: To safeguard the amenities of the occupiers of neighbouring properties and to comply with policies SU10 and QD27 of the Brighton & Hove Local Plan.

3. No development above ground floor slab level of any part of the development hereby permitted shall take place until a scheme for the suitable treatment of all plant and machinery against the transmission of sound and/or vibration has been submitted to and approved in writing by the Local Planning Authority. The measures shall be implemented in strict accordance with the approved details prior to the first occupation of the development and shall thereafter be retained as such.

Reason: To safeguard the amenities of the occupiers of adjoining properties and to comply with policies SU10 and QD27 of the Brighton & Hove Local Plan.

4. The development hereby permitted shall not be first occupied until a scheme for the fitting of odour control equipment to the building has been submitted to and approved in writing by the Local Planning Authority. Odour control measures can increase fan noise and must be considered during design phase. The measures shall be implemented in strict accordance with the approved details prior to the first occupation of the development and shall thereafter be retained as such.

Reason: To safeguard the amenities of the occupiers of adjoining properties and to comply with policy QD27 of the Brighton & Hove Local Plan.

3. SUMMARY SPECIFICATION FOR EXISTING SYSTEMS:

Kitchen Extract Ventilation System

System Overview

The system installed in the shop has two exhaust systems:

The Pizza oven flue as seen on the attached pictures has a natural draft flue and a separate extract from the small canopy located above the grille and chips tier.

The pictures and drawing attached show the existing installation with details. However, the pizza oven has a natural draft flue as opposed to small canopy which has a mechanical extract fan located within the ductwork.

Design Criteria

We believe systems installed to be in accordance with DEFRA guidance standards (Jan 2005) and HVCA specification DW172.

Canopy

Constructed from stainless steel with a full bank of 450 x 450 baffle grease filters with a single grease collection tray as per pictures attached.

Ductwork

Ductwork is manufactured and installed in accordance with HVCA specification DW144. A centrifugal Extract Fan is utilised

S&P - CBM-7/7 147W 4P RE VR

We recommend that a suitably sized silencer to be installed within the internal ductwork suitably sized to comply with the local planning criteria.

4. PREVIOUS CORRESPONDENCE WITH PLANNING DEPARTMENTS:

Various correspondence related to size of pizza oven flue dimensions which was reduced to satisfy planning department.

Sent: 05 July 2019 6:05 PM
To: Emma J. Lawrence
Subject: Re: Al Forno Pizzeria Oven Flue

Dear Emma,
I hope you're good.

Regarding the pizza oven flue . I spoke with specialist guys. I can reduce the size from 400mm diameter outside to 175mm which are pretty narrower than existing flue also we go straight up from our window!

I attached the picture tell me what do you think please.

Also fixed the timber window couple of weeks ago as I promised :)

Warm Regards
Fethi
Al Forno

On 30 Jul 2019, at 15:33, Emma J. Lawrence <Emma.J.Lawrence@brighton-hove.gov.uk> wrote:

Dear Mr Dogan,

I am writing in relation to the proposed changes that are required for a flue to be installed at the restaurant. I have spoken to the Council's heritage Officer about the flue. In the application you will need to explain and justify why a flue is required and why it has to be in this location.

I am requesting that a planning application be submitted for the proposed new smaller sized flue. Please detail the size of the flue and that it is to be painted as per the wall colour. The previous application forms and drawing that were submitted will assist you, however you do need to explain how you have mitigated the size of the flue, so that the restaurant can operate.

Can I request that the planning application is received by Friday 30th August 2019.

Kind regards

Emma J Lawrence
Senior Planning Enforcement Officer
Development Management – Enforcement Team
City Development and Regeneration
Brighton & Hove City Council

5. EXISTING PICTURES:



Existing pizza oven flue.



Existing canopy.



Existing discharge points East elevation.



Ventilation controls.

6. EXISTING EXTRACT FAN:

Low pressure centrifugal fans with external rotor motor CBM-RE Series

Serial CBM-RE

CBM-7/7 147 4P RE VR (230V50)F V5

Direct driven double inlet low pressure forward curved
centrifugal fan with 4 pole Mono external rotor motor running at
[TFNSION] IP44 protection

> [View complete information](#)





Range of direct-driven low pressure double inlet forward curve centrifugal fans. Casing and impeller manufactured from galvanized sheet steel.

All models incorporate speed controllable external rotor motor, fitted with thermal protection and ball bearings.

Motors

IP44, Class F [models 7/7 and 7/9].

IP55, Class F [models 9/7 to 12/12].

IP54, Class F [models 12/12 1100W and 15/15 2200W].

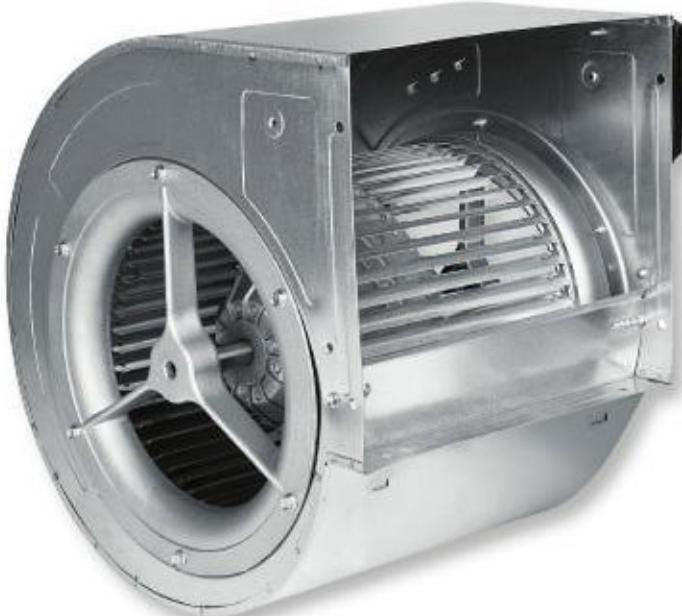
4 or 6 pole depending on version.

Electrical supply:

Single phase 230V-50Hz, suitable for speed control by voltage.

Three phase 230/400V-50Hz, suitable for speed control by tension and frequency inverter.

(See characteristics chart).



Impeller dynamically balanced

Impeller dynamically balanced, according to ISO 1940 standard, providing vibration free operation.



Anti-vibration mounts

All motors are fitted with support including rubber antivibration mounts reducing the noise transmitted to the installation.



CBM-7/7 72W and

CBM-7/7 147W

Constructive configuration of models CBM-7/7 72W and CBM-7/7 147W.

TECHNICAL CHARACTERISTICS

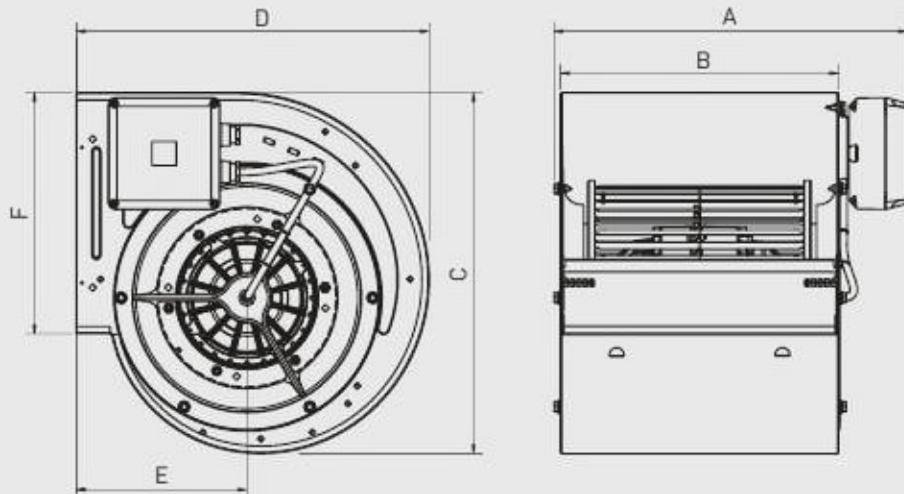
Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Motor power (W)	Speed (r.p.m)	Equivalence (mm)	Capacitor (μF/V)	Maximum absorbed current [A]	Maximum airflow (m³/h)	Maximum temperature air (°C)	Sound pressure level * (dB(A))	Weight (kg)	Speed controller	
										REB	RMB
SINGLE PHASE MOTORS											
CBM-7/7 72W 6P RE VR	72	900	180/180	2,5/450	0,6	1.440	+70	56	6,5	1	1,5
CBM-7/7 147W 4P RE VR	147	1400	180/180	7/450	1,2	1.470	+40	63	6,9	2,5	1,5
CBM-7/7 300W 4P RE VR	300	1400	180/180	6/450	2,0	2.200	+60	64	7,2	2,5	3,5
CBM-7/9 72W 6P RE VR	72	900	180/240	2/450	0,9	1.850	+70	60	6,5	1	1,5
CBM-7/9 300W 4P RE VR	300	1400	180/240	6/450	2,2	2.530	+40	67	9,8	2,5	3,5
CBM-9/7 200W 6P RE VR	200	900	240/180	4/450	1,5	1.900	+40	59	13,5	2,5	1,5
CBM-9/7 245W 6P RE VR	245	900	240/180	13/450	2,0	2.650	+50	64	14	2,5	3,5
CBM-9/7 420W 4P RE VR	420	1400	240/180	15/450	3,2	2.600	+40	68	14,5	5	3,5
CBM-9/9 200W 6P RE VR	200	900	240/240	5/450	1,8	2.760	+40	63	14	2,5	3,5
CBM-9/9 245W 6P RE VR	245	900	240/240	13/450	2,2	2.870	+40	64	14,1	2,5	3,5
CBM-9/9 300W 4P RE VR	300	1400	240/240	20/450	2,8	2.500	+40	64	16,7	5	3,5
CBM-9/9 550W 4P RE VR	550	1400	240/240	20/450	4,3	3.470	+40	71	17,7	5	8
CBM-10/8 245W 6P RE VR	245	900	270/200	9/450	2,8	3.490	+40	67	14,9	5	3,5
CBM-10/8 515W 6P RE VR	515	900	270/200	10/450	3,3	3.750	+40	71	19,5	5	8
CBM-10/8 550W 4P RE VR	550	1400	270/200	20/450	4,2	2.900	+40	68	18,6	5	8
CBM-10/10 245W 6P RE VR	245	900	270/270	9/450	2,8	3.370	+40	64	16	5	3,5
CBM-10/10 515W 6P RE VR	515	900	270/270	10/450	3,4	4.090	+40	67	17,5	5	8
CBM-10/10 600W 4P RE VR	600	1400	270/270	20/450	4,6	3.300	+40	68	20,8	5	8
CBM-12/9 515W 6P RE VR	515	900	320/320	18/450	4,1	4.195	+40	65	21,5	5	8
CBM-12/9 750W 6P RE VR	750	900	320/240	20/450	5,5	4.990	+40	67	23,5	10	8
CBM-12/12 515W 6P RE VR	515	1400	320/320	18/450	4,2	4.540	+40	66	22	5	8
CBM-12/12 750W 6P RE VR	750	900	320/320	20/450	5,3	5240	+40	68	24	10	8

Model	Motor power (W)	Speed (r.p.m)	Equivalence (mm)	Maximum absorbed current (mA)		Max. airflow (m³/h)	Maximum temperature air (°C)	Sound pressure level * (dB(A))	Weight (kg)	Speed controller RMT	Inverter controller VFTM	
				230V	400V						Power supply	1/230V
THREE PHASE MOTORS												
CBM-7/7 250W 4P T RE VR	250	1400	180/180	1,2	0,7	2.320	+65	65	7,1	1,5	VFTM MONO 0,18	VFTM TRI 0,37
CBM-9/7 550W 4P T RE VR	550	1400	240/180	3,1	1,8	3.350	+40	70	14	2,5	VFTM MONO 0,37	VFTM TRI 0,55
CBM-9/9 245W 6P T RE VR	245	900	240/240	1,6	0,9	3.330	+40	67	14,1	1,5	VFTM MONO 0,37	VFTM TRI 0,37
CBM-9/9 550W 4P T RE VR	550	1400	240/240	5,5	3,2	4.830	+40	75	14,1	5	VFTM MONO 1,1	VFTM TRI 1,1
CBM-10/8 245W 6P T RE VR	245	900	270/200	1,9	1,1	3.470	+40	68	14,9	1,5	VFTM MONO 0,37	VFTM TRI 0,37
CBM-10/8 350W 6P T RE VR	350	900	270/200	2,8	1,6	4.330	+40	73	14,9	2,5	VFTM MONO 0,37	VFTM TRI 0,55
CBM-10/8 550W 4P T RE VR	550	1400	270/200	5,4	3,1	4.230	+40	72	18,9	5	VFTM MONO 1,1	VFTM TRI 1,1
CBM-10/10 245W 6P T RE VR	245	900	270/270	1,9	1,1	3.920	+40	67	16	1,5	VFTM MONO 0,37	VFTM TRI 0,37
CBM-10/10 350W 6P T RE VR	350	900	270/270	2,9	1,7	5.000	+40	72	20	2,5	VFTM MONO 0,37	VFTM TRI 0,55
CBM-10/10 550W 4P T RE VR	550	1400	270/270	5,0	2,9	4.010	+40	70	20	5	VFTM MONO 1,1	VFTM TRI 1,1
CBM-10/10 750W 4P T RE VR	750	1400	270/270	7,6	4,4	5.880	+40	76	20	5	VFTM MONO 1,5	VFTM TRI 1,5
CBM-12/12 550W 6P T RE VR	550	900	320/320	5,0	2,9	6.490	+40	73	22	5	VFTM MONO 1,1	VFTM TRI 1,1
CBM-12/12 750W 6P T RE VR	750	900	320/320	5,9	3,4	7.480	+40	75	22	5	VFTM MONO 1,1	VFTM TRI 1,5
CBM-12/12 1100W 6P T RE VR	1100	900	320/320	5,7	3,3	7.410	+40	75	25	5	VFTM MONO 1,1	VFTM TRI 1,5
CBM-15/15 2200W 6P T RE VR K	2200	900	380/380	12,2	7	11.650	+40	75	43	8	-	VFTM TRI 3

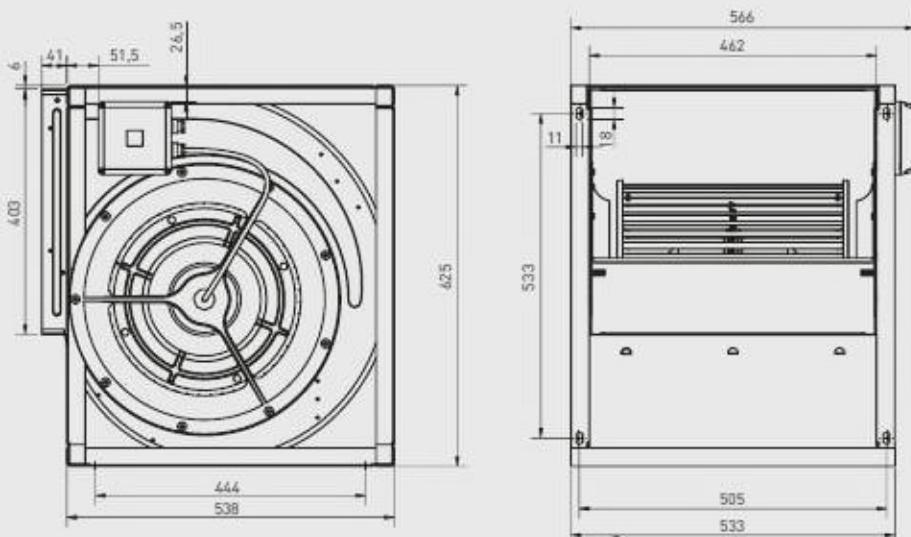
* Sound pressure levels in dB(A), measured at 1,5 meters at the fan inlet side in free field.

DIMENSIONS (mm)



Model	A	B	C	D	E	F
CBM-7/7	296	233	328	309	145	207
CBM-7/9	363	300	328	309	145	207
CBM-9/7	316	233	390	381	184	260
CBM-9/9	382	300	390	381	184	260
CBM-10/8	340	267	443	423	200	288
CBM-10/10	407	333	443	423	200	288
CBM-12/9	382	311	521	490	229	341
CBM-12/12	466	396	521	490	229	341

DIMENSIONS MODEL CBM-15/15 2200 6PT RE VR K (mm)



MOUNTING ACCESSORIES



Outlet flange CBM

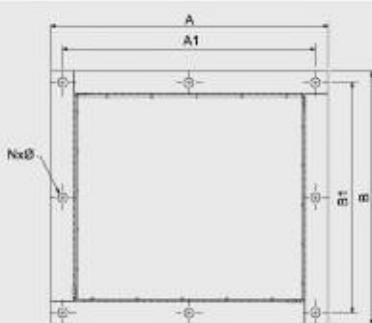


Mounting feet

Model	Outlet flange CBM	Mounting feet	Inlet guard
CBM-7/7	BRIDA DESCARGA CBM-7/7	PIE SOPORTE CBM-RE-7	DEF-CBM-RE-7
CBM-7/9	BRIDA DESCARGA CBM-7/9	PIE SOPORTE CBM-RE-7	DEF-CBM-RE-7
CBM-9/7	BRIDA DESCARGA CBM-9/7	PIE SOPORTE CBM-RE-9	DEF-CBM-RE-9
CBM-9/9	BRIDA DESCARGA CBM-9/9	PIE SOPORTE CBM-RE-9	DEF-CBM-RE-9
CBM-10/8	BRIDA DESCARGA CBM-10/8	PIE SOPORTE CBM-RE-10	DEF-CBM-RE-10
CBM-10/10	BRIDA DESCARGA CBM-10/10	PIE SOPORTE CBM-RE-10	DEF-CBM-RE-10
CBM-12/9	BRIDA DESCARGA CBM-12/9	PIE SOPORTE CBM-RE-12	DEF-CBM-RE-12
CBM-12/12	BRIDA DESCARGA CBM-12/12	PIE SOPORTE CBM-RE-12	DEF-CBM-RE-12

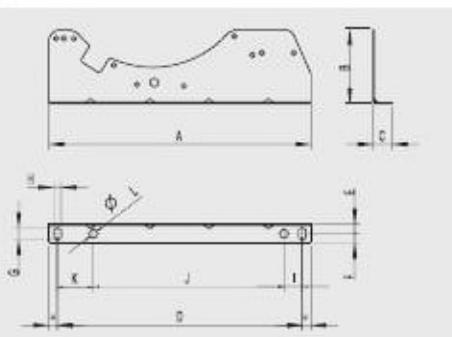
ACCESSORIES DIMENSIONS (mm)

Outlet flange CBM



Model	A	A1	B	B1	NxØ (mm)
BRIDA DESCARGA CBM-7/7	289	264	265	240	8x9
BRIDA DESCARGA CBM-7/9	314	297	253	231	8x9
BRIDA DESCARGA CBM-9/7	273	253	302	280	8x9
BRIDA DESCARGA CBM-9/9	360	328	315	285	8x10
BRIDA DESCARGA CBM-10/8	314	293	339	316	8x9
BRIDA DESCARGA CBM-10/10	380,5	359	339	316	8x9
BRIDA DESCARGA CBM-12/9	362	341	394,5	374	8x9
BRIDA DESCARGA CBM-12/12	447	426	394,5	374	8x9

Mounting feet



Model	A	B	C	D	E	F	G	H	I	J	K	L
7/	246	39	26	225	14	12	16	11	15	195	15	12
9/	320	89	26	307	13	13	16	11	-	-	35,7	10,5
10/	363	80	26	339	13,5	12,5	16	10,5	25,5	263,5	50	12
12/	430	115	26	407	13,5	12,5	16	10,5	48	333,5	25,5	12

PERFORMANCE CURVES

- q_v : Airflow in m^3/h .
- p_{st} : Static pressure in Pa.
- SFP: Specific fan power in $\text{W}/\text{m}^3/\text{s}$.
- I : Absorbed power A.
- LW: Sound power levels, at inlet, in dB(A).
- Measurement category: B.
- Efficiency category: total.
- Fan efficiency without speed control.
- Airflow data in accordance with ISO 5801.

MC Measurement category

EC Efficiency category

VSD Speed control: supplied with the fan

SR Specific ratio

$\eta[\%]$ Efficiency

N Efficiency grade

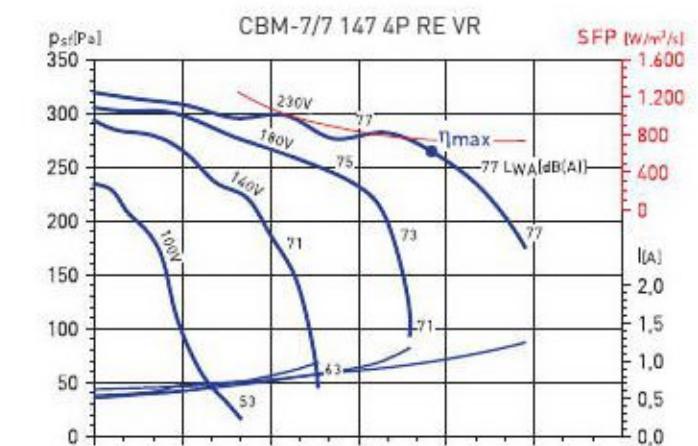
[kW] Absorbed power

[m³/h] Airflow

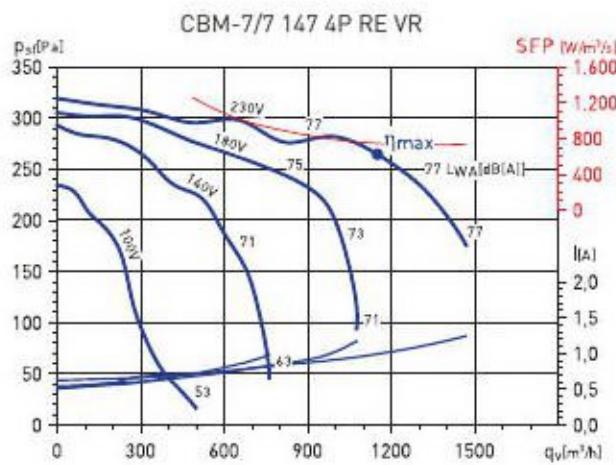
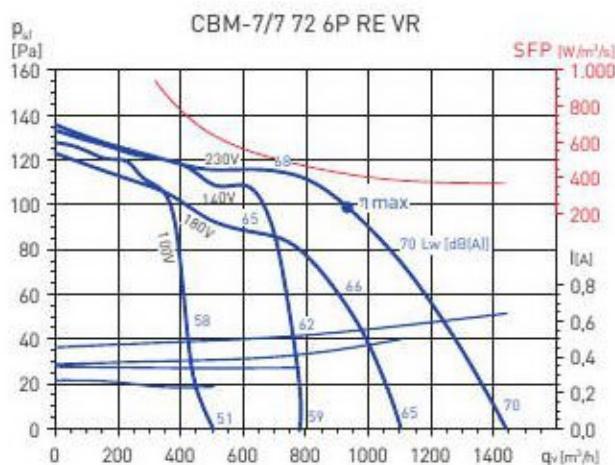
[Pa] Static pressure

[RPM] Speed

EXAMPLE CURVE

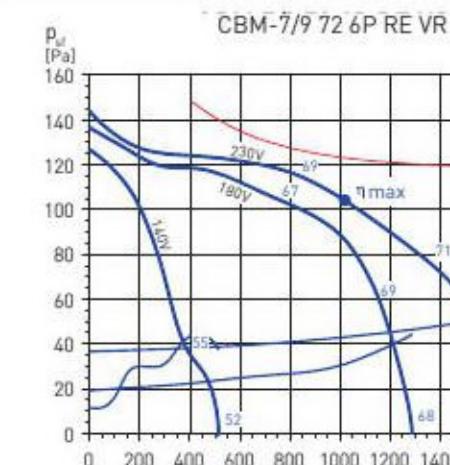
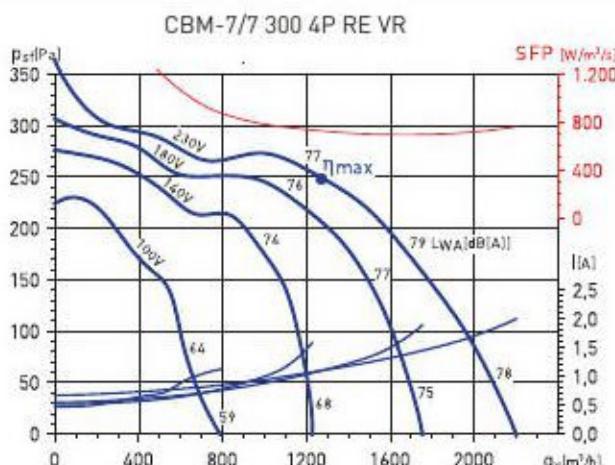


PERFORMANCE CURVES - Single phase motor



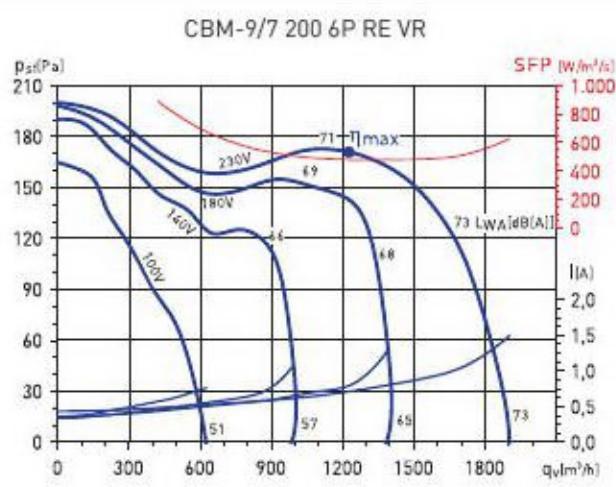
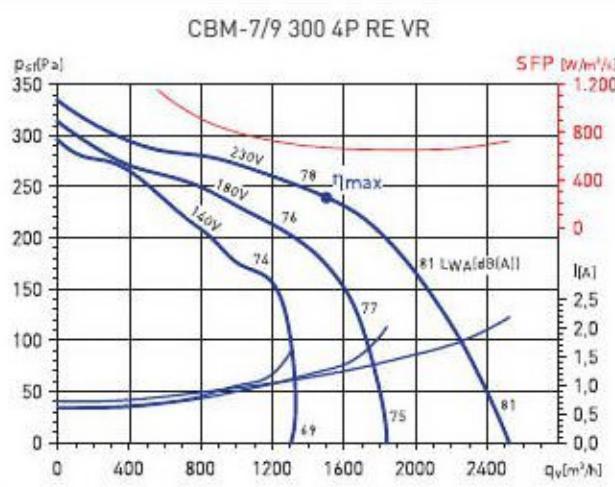
* See example curve.

* See example curve.



* See example curve.

* See example curve.



* See example curve.

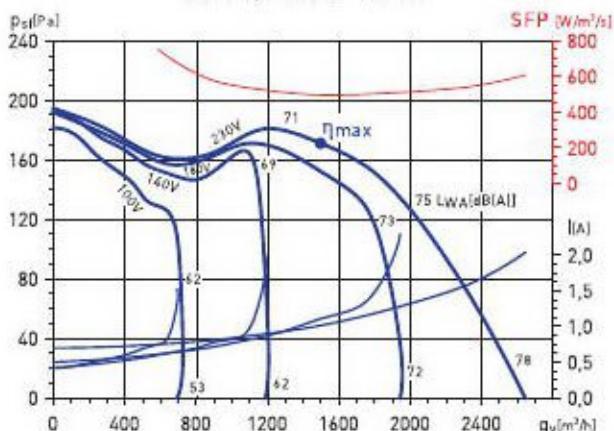
* See example curve.

LOW PRESSURE CENTRIFUGAL FANS WITH EXTERNAL ROTOR MOTOR CBM-RE Series



PERFORMANCE CURVES - Single phase motor

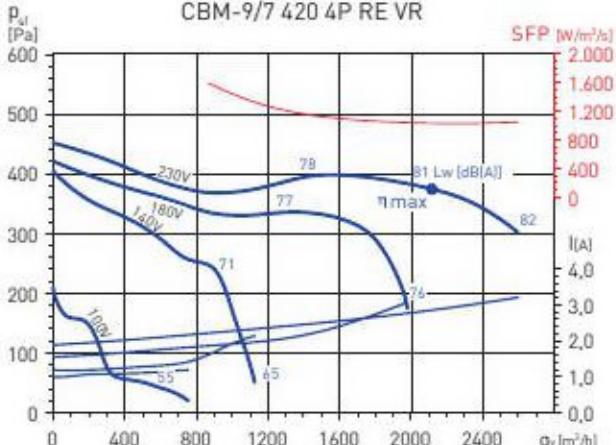
CBM-9/7 245 6P RE VR



MC*	EC*	VSD*	SR*	η [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B Total	No	1	40,0	50,6	0,207	1.495	200	951	

* See example curve.

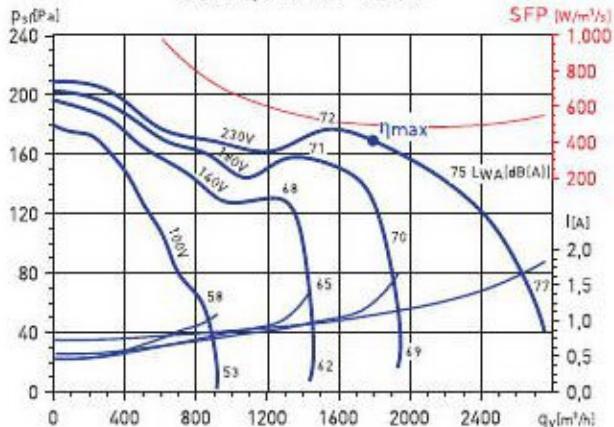
CBM-9/7 420 4P RE VR



MC*	EC*	VSD*	SR*	η [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B Total	No	1	41,3	49,0	0,612	2.118	429	1377	

* See example curve.

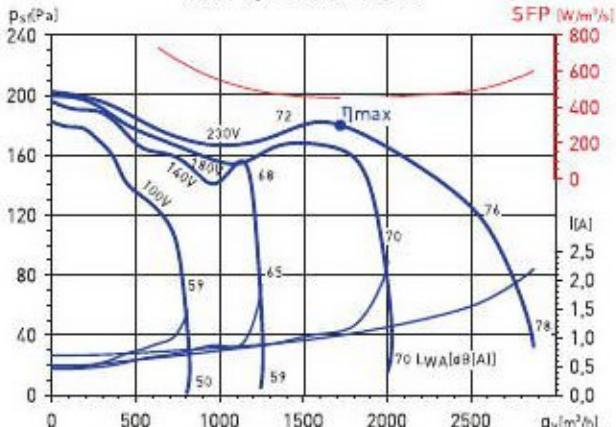
CBM-9/9 200 6P RE VR



MC*	EC*	VSD*	SR*	η [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B Total	No	1	38,9	49,0	0,249	1.792	195	915	

* See example curve.

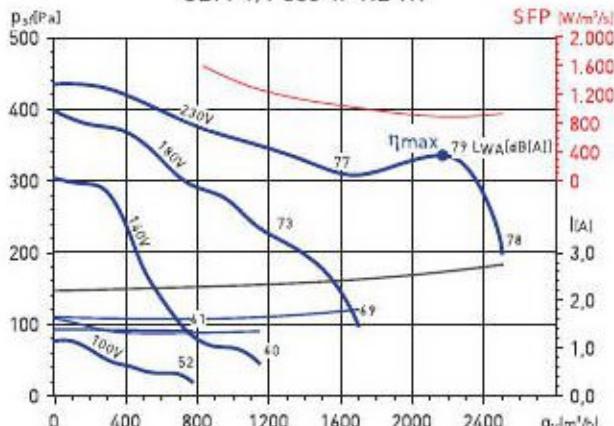
CBM-9/9 245 6P RE VR



MC*	EC*	VSD*	SR*	η [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B Total	No	1	44,5	55,0	0,215	1.714	201	947	

* See example curve.

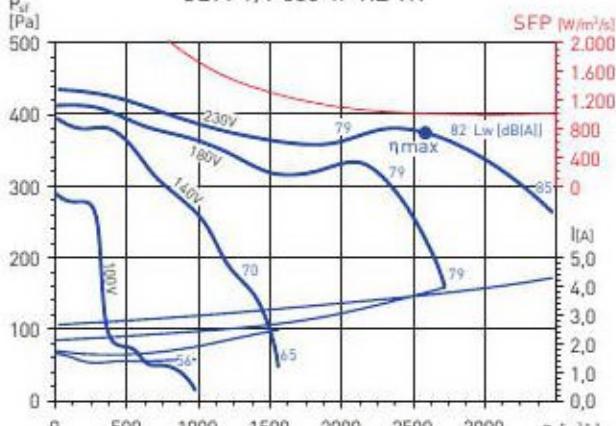
CBM-9/9 300 4P RE VR



MC*	EC*	VSD*	SR*	η [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B Total	No	1	41,1	49,1	0,545	2.177	374	1277	

* See example curve.

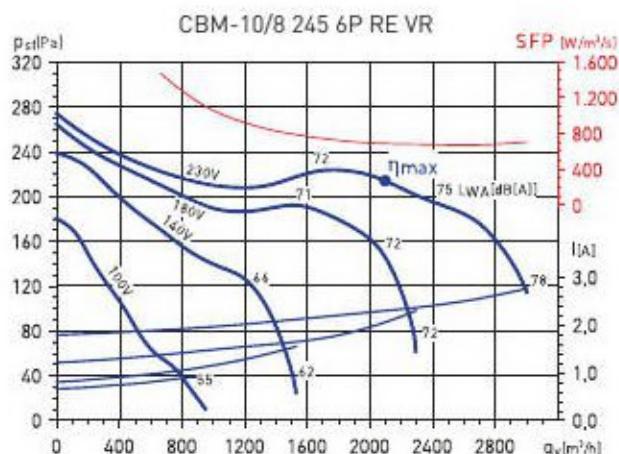
CBM-9/9 550 4P RE VR



MC*	EC*	VSD*	SR*	η [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B Total	No	1	41,8	49,0	0,730	2.588	424	1387	

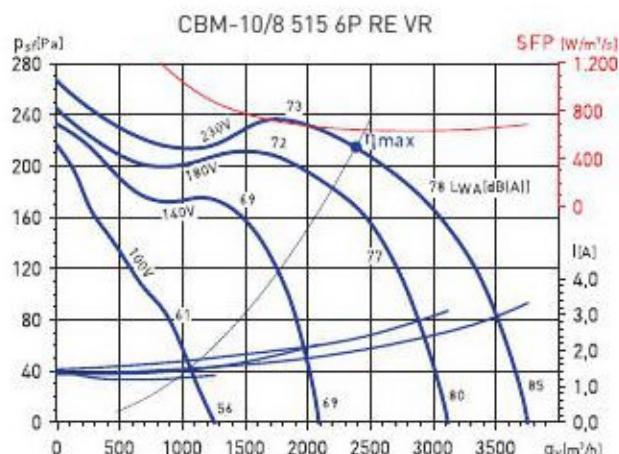
* See example curve.

PERFORMANCE CURVES - Single phase motor



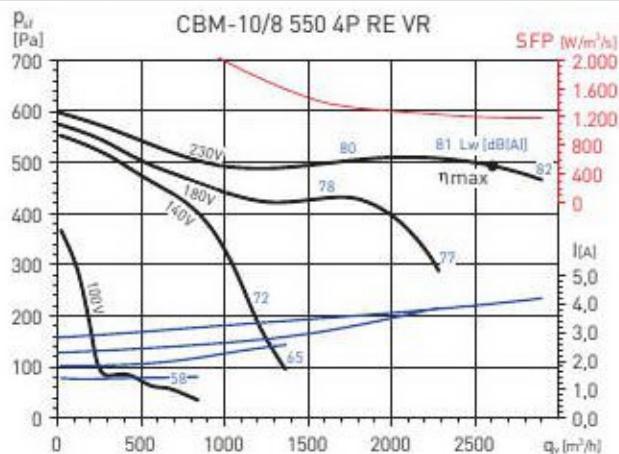
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	45,5	54,3	0,405	2.336	284	949

* See example curve.



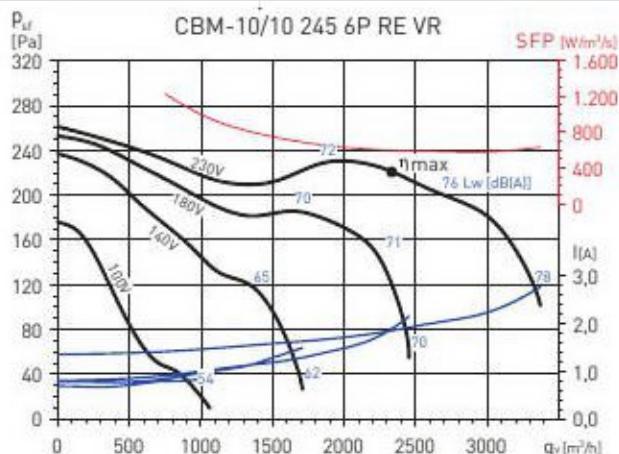
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	40,4	49,0	0,430	2.382	262	917

* See example curve.



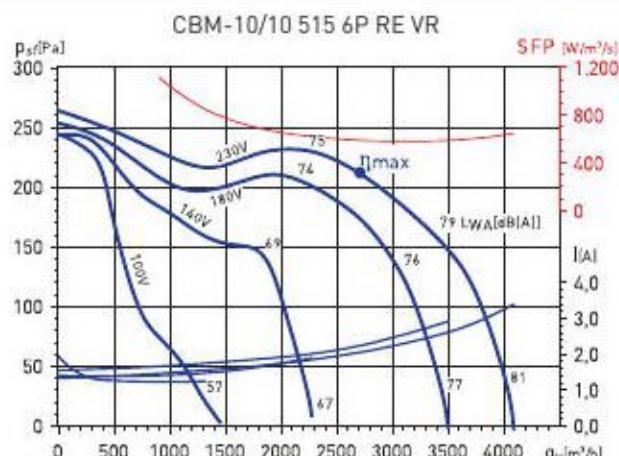
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	45,1	51,8	0,872	2.610	542	1353

* See example curve.



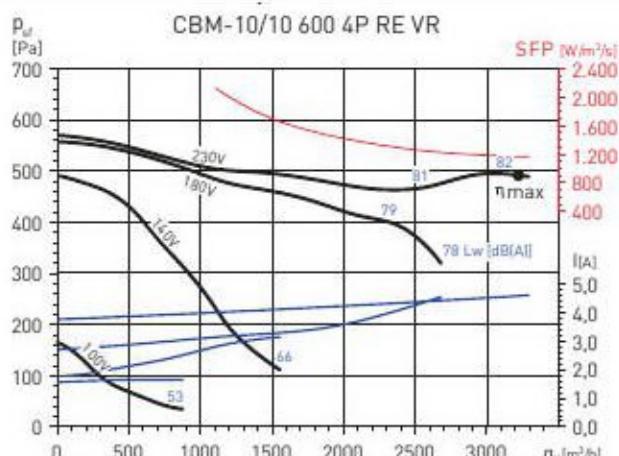
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	41,0	49,9	0,391	2.334	248	905

* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	42,6	51,2	0,440	2.654	254	914

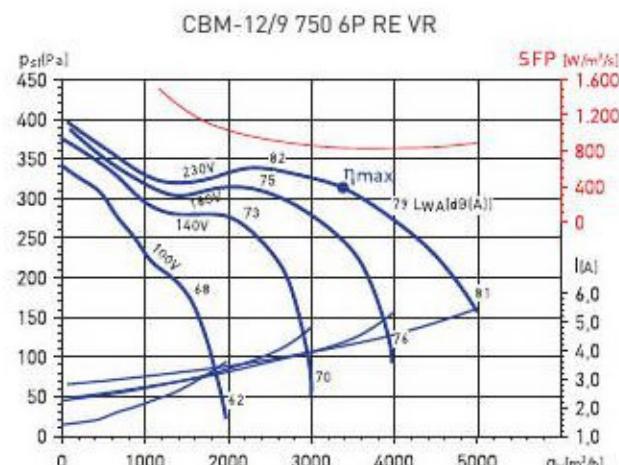
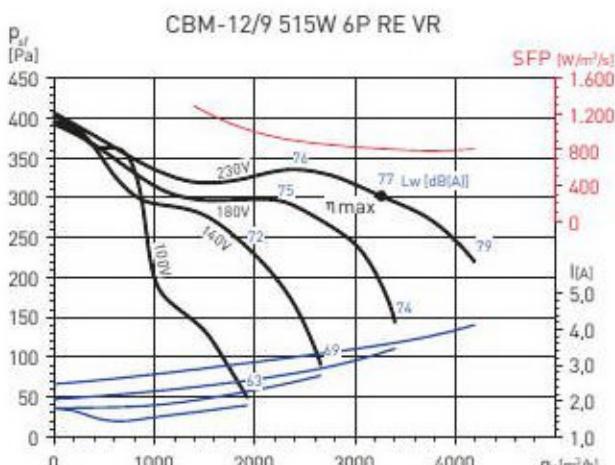
* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	45,9	52,1	1,056	3.226	542	1357

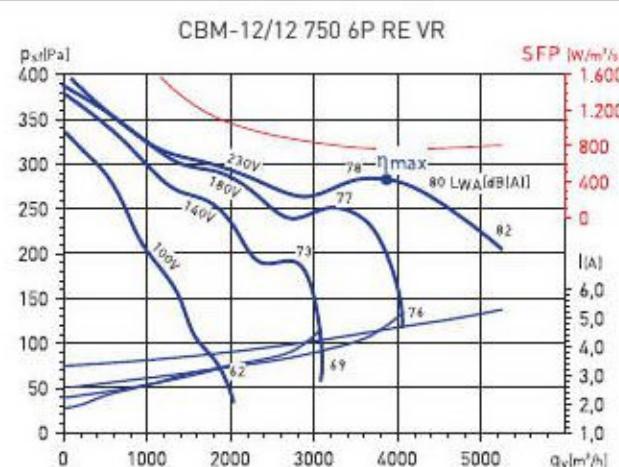
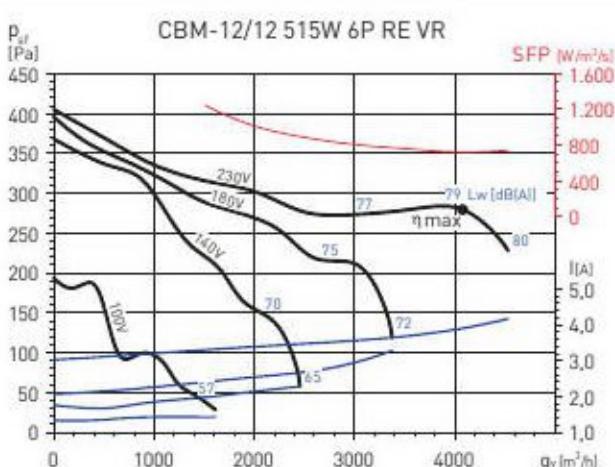
* See example curve.

PERFORMANCE CURVES - Single phase motor



* See example curve.

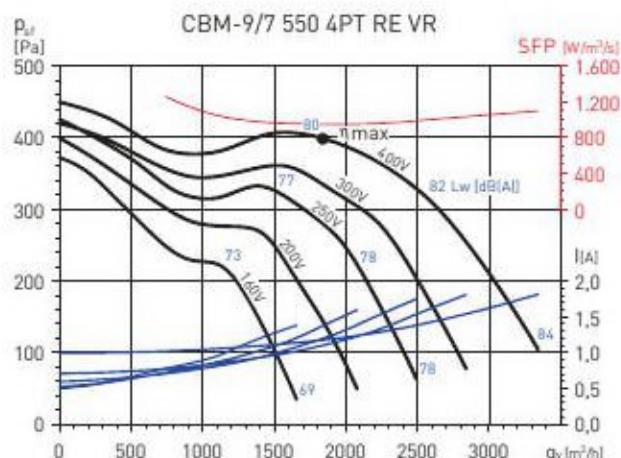
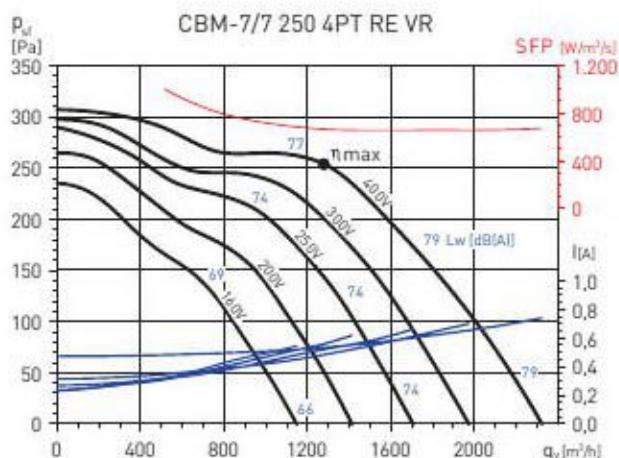
* See example curve.



* See example curve.

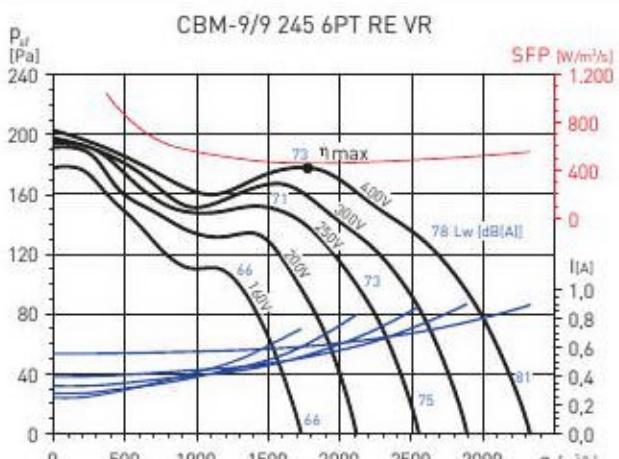
* See example curve.

PERFORMANCE CURVES - Three phase motor

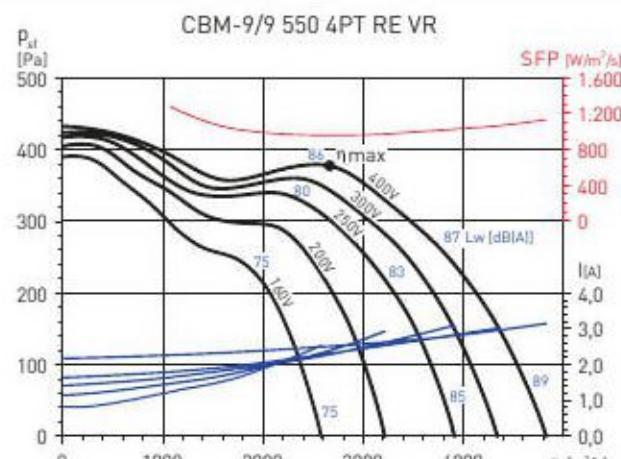


* See example curve.

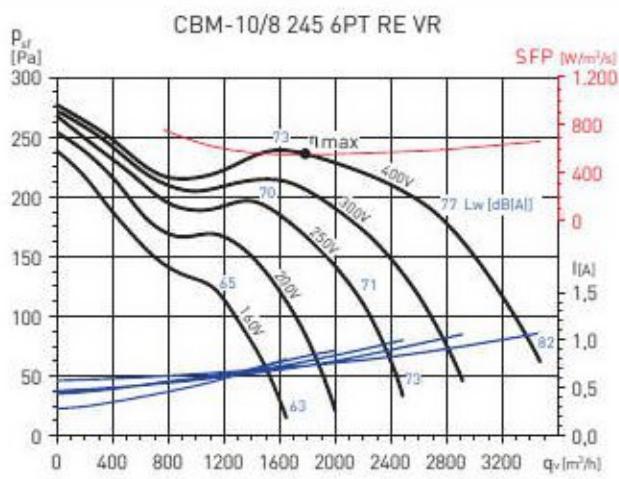
* See example curve.



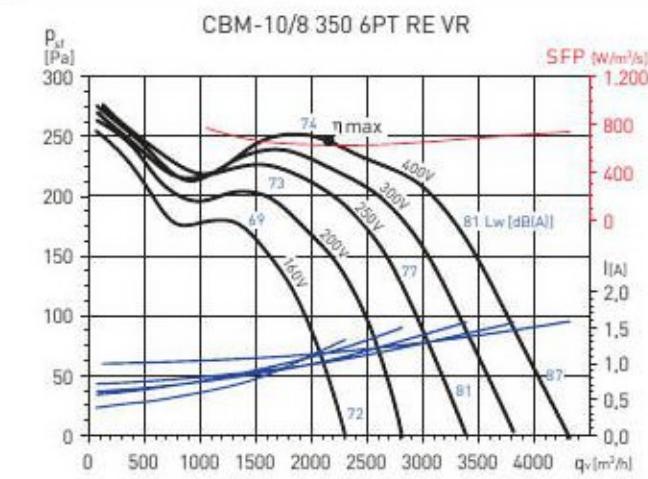
* See example curve.



* See example curve.



* See example curve.

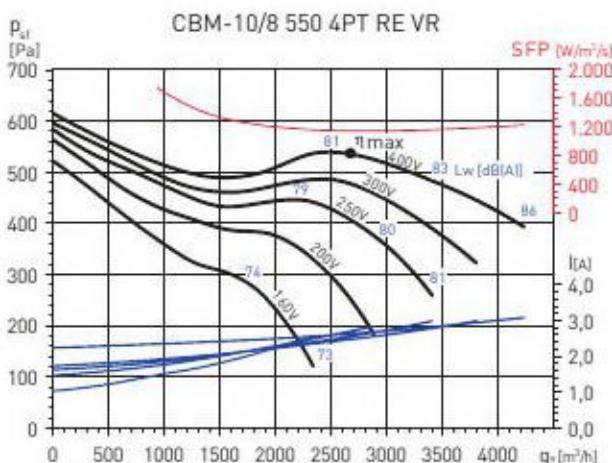


* See example curve.

LOW PRESSURE CENTRIFUGAL FANS WITH EXTERNAL ROTOR MOTOR CBM-RE Series

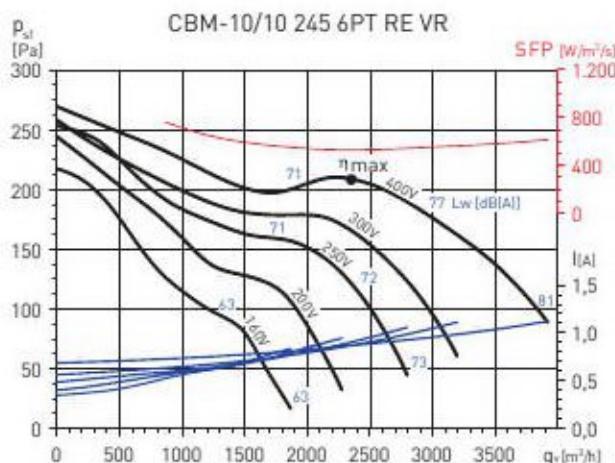


PERFORMANCE CURVES - Three phase motor



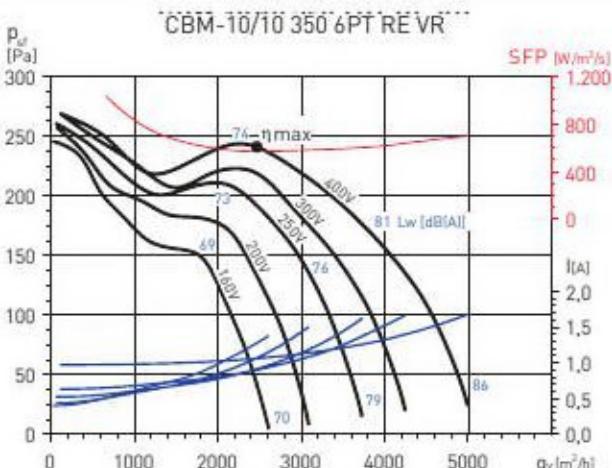
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	50,5	57,3	0,853	2.668	581	1409

* See example curve.



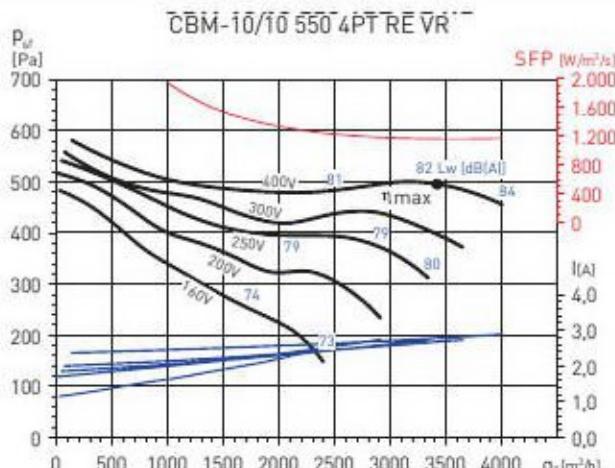
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	43,8	53	0,35	2.357	234	906

* See example curve.



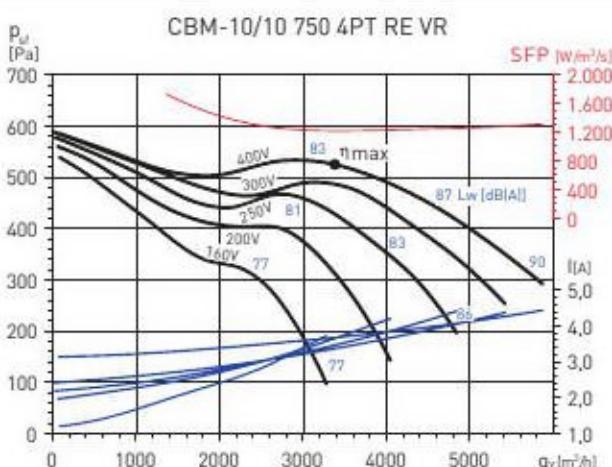
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	46,9	55,8	0,393	2.465	269	949

* See example curve.



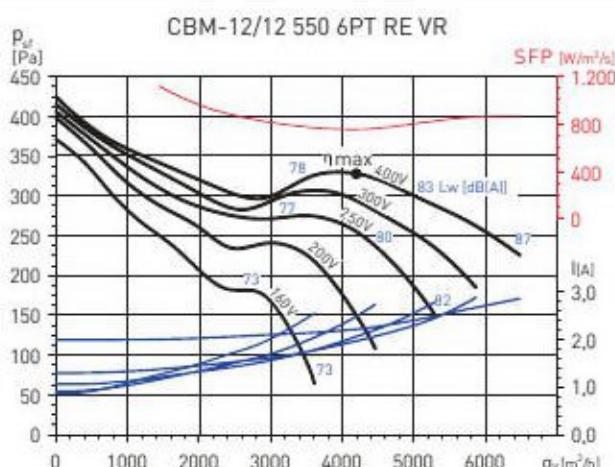
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	46,9	52,9	1,116	3.422	550	1373

* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	47,8	53,7	1,150	3.379	586	1.431

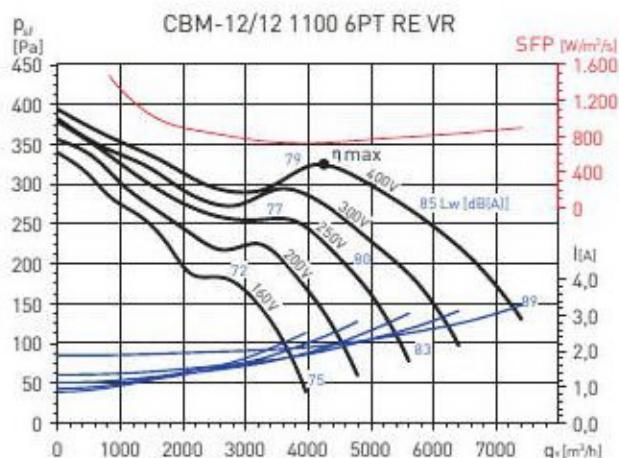
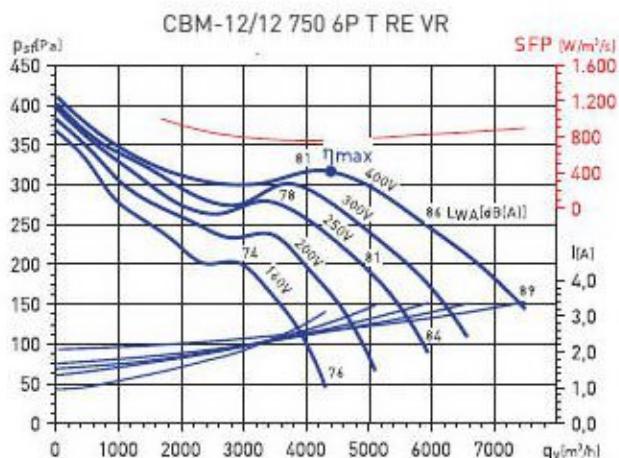
* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	50,7	57,4	0,886	4.202	387	939

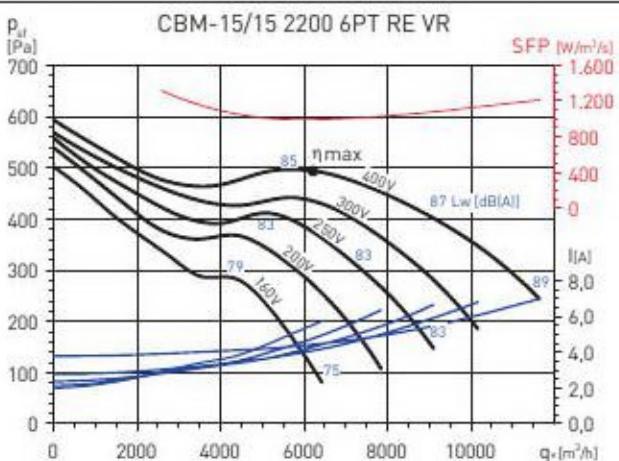
* See example curve.

PERFORMANCE CURVES - Three phase motor



* See example curve.

* See example curve.



* See example curve.

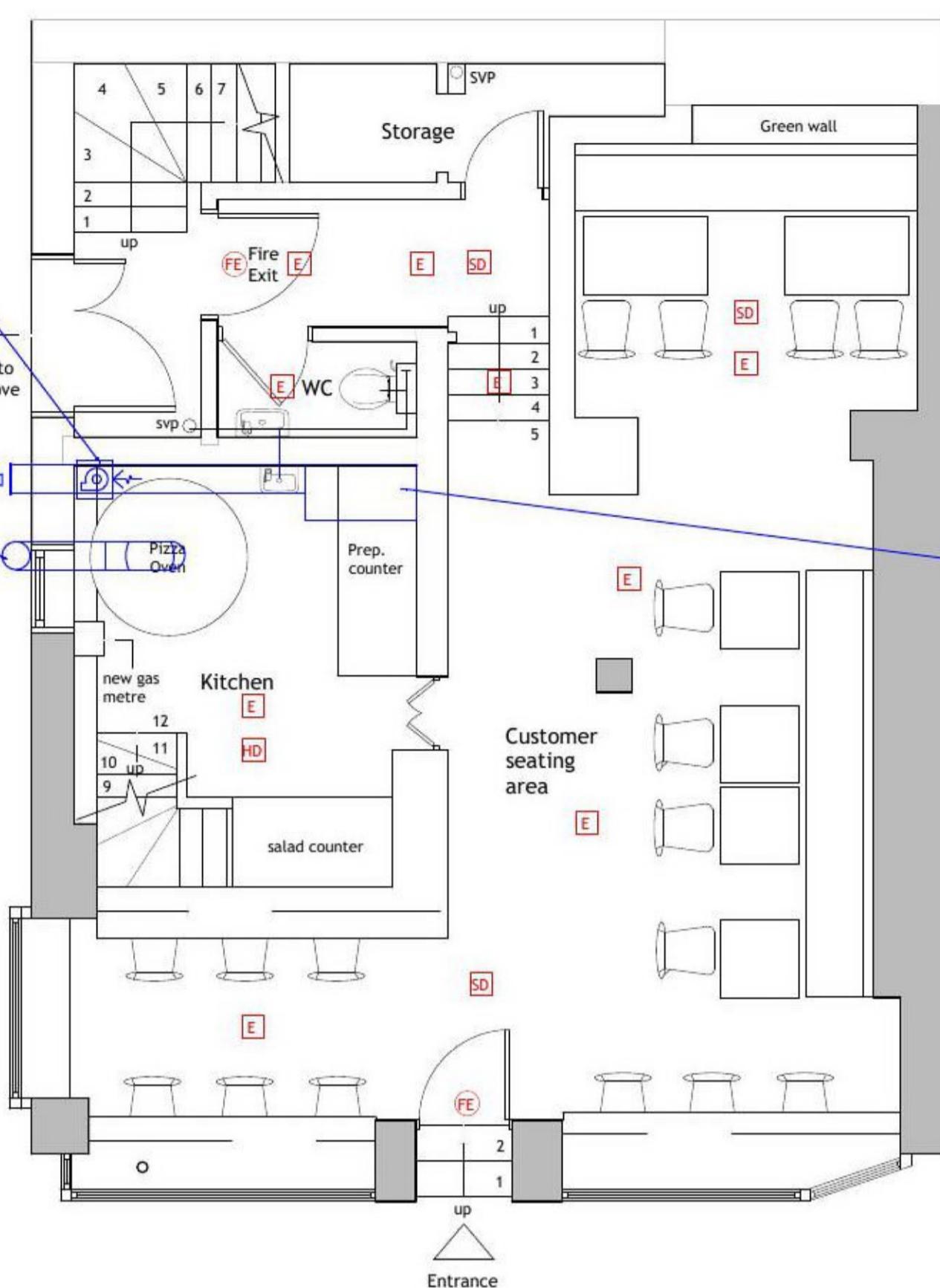
1. DRAWINGS:

Drawing Number: 201203- 11601- P1
Ground Floor Shop- Existing Ventilation Layout.

- GENERAL NOTES :**
1. All drawings are to be read in conjunction with all relevant Specifications, Architectural, Building Services and Structural Engineering drawings.
 2. Any discrepancies between these documents shall be brought to the attention of the Engineer.
 3. All dimensions are in millimetres, unless noted otherwise.
 4. All levels are in metres related to Ordnance Datum.
 5. The Mechanical & Electrical Contractor shall Comply with all current building regulations.
 6. The Mechanical & Electrical Contractor shall be responsible for the Co-ordination of all services.
 7. Drawings are not to be scaled

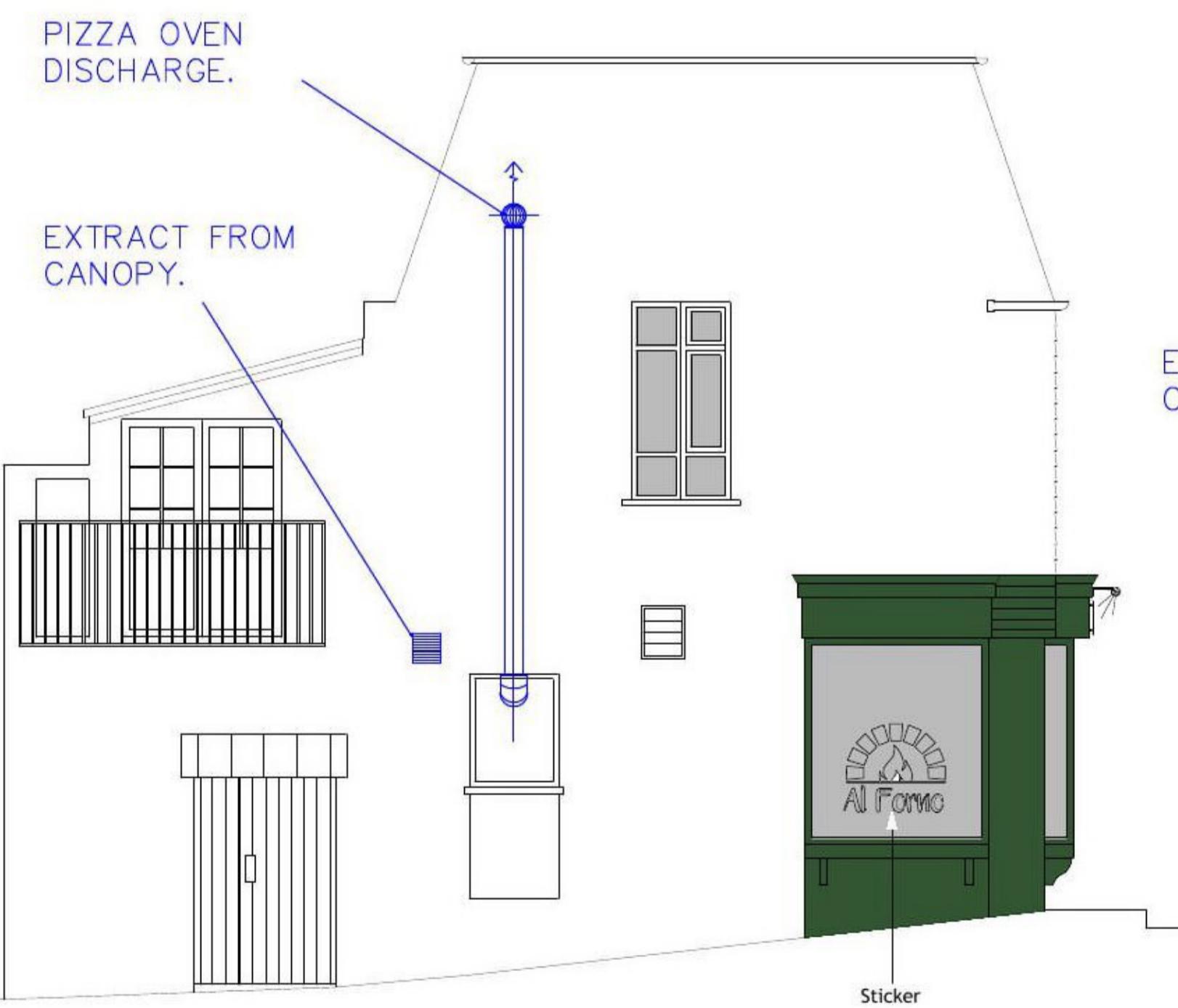
EXTRACT FAN:
CBM-7/7 147W 4P RE VR

PIZZA OVEN FLUE. NO
MECHANICAL EXTRACT.



SMALL EXTRACT CANOPY
SERVING GAS HOB AND
CHIPS FIRE. 0.48 m²

02 Ground Floor Layout
Scale: 1:50



1 Side Elevation (East)
Scale: 1:50



2 Front Elevation (North)
Scale: 1:50

P2	CEILING SPACE CONSIDERED AND CO-ORDINATED	GE	MO	04.03.2020
P1	REVISED TO ARCH PLANS			
Rev	Version Details	By	Chkd	Date
REVISIONS				
M.O.ASSOCIATES CONSULTING ENGINEERS 100-102 Northgate Street, Brighton BN1 1JL Tel: +44(0)1273 231129 Fax: +44(0)1273 2621842 E-mail: info@m.o-assoc.co.uk				
Project Name	78 ST JAMES'S STREET, KEMPTOWN, BRIGHTON BN2 1PA			
Client:	AL FORNO PIZZERA			
Drawing Title	GROUND FLOOR SHOP EXISTING VENTILATION LAYOUT			
Drawn By	Chkd By	Scale @ A1	Date	
GE	MO	1:50	JAN 2021	
Project Ref	Designing Ref	11601		Revision
201203	11601			P1