

QUOTATION N° : 9215 REV 2

Sheet N° 1 of 1

CUSTOMER : CHAPMAN VENTILATION

Date : 31.07.09

JOB REFERENCE : NANDO'S - HOLBORN

UNIT SIZE UNIT TYPE
1212 STANDARD

O/A DIMENSIONS METRES

2.0 Metres Long x 1.2 Metres Wide x 1.3 Metres High

PRE-FILTER SECONDARY FINAL
PANEL EU4 / /

**SUPPLY
FAN**

Air Volume (m³/s)	3.5
External Static(Pa)	250
Fan Static (Pa)	350
ABS (kW)	2.66
Motor Size (kW)	4.0
Start Current (x)	x 7.2
Run Current (FLC)	8.1
Electrical Supply	400v
Noise: @ Hz 63	78
125	80
250	77
500	81
1k	77
2k	77
4k	72
8k	68

Fan Type	FC
Fan Ref.	
Fan Speed (RPM)	763
Outlet Velocity m/s	13.6

HEATING COIL	EHB
	PRE
Heating Media	Electirc
Temp	3 Stage
Coil Size	27 kW

QUOTATION

NUMBER : 57935/09/NM
DATE : 23/06/09
CONTACT: MARK HIGGINS

ACC : 8718
TEL : 01707 372858
FAX : 01707 325001



Better thinking, better solutions

TO: JAMIE LONGHURST
: CHAPMAN VENTILATION LTD
: UNIT 9 BRIDGEGATE CENTRE
: MARTINFIELD
: WELWYN GARDEN CITY
: HERTFORDSHIRE
: AL7 1JG

REF: NANDO'S - HOLBORN/550 OPTION

RHF FANS Ltd

UNIT 2, FERROUS WAY, GILCHRIST ROAD
NORTHBANK INDUSTRIAL PARK
IRLAM, MANCHESTER M44 5FS
TEL:-0161 776 6401 FAX:-0161 775 6566
Email:- fansales@rhf-fans.co.uk

FAN DETAILS

Volume : 4.2 m³/Sec
Pressure : 1400 Pascal @ 20 °C
Max. Temp. : 50 °C
Temp. Class : Normal
Drive Type : Belt Driven
Total Weight : 484 kg

Type / Size : BW10 550
Arrangement : No 9 MONOBLOCK
Impeller : Backward Laminar
Speed : 1961 RPM
Abso. Power : 7.9 kW
Breakout : Estimated dBA @ 1m

MOTOR DETAILS

Power (Kw) : 11.0
Speed (rpm): 1460
Supply : 400-3-50

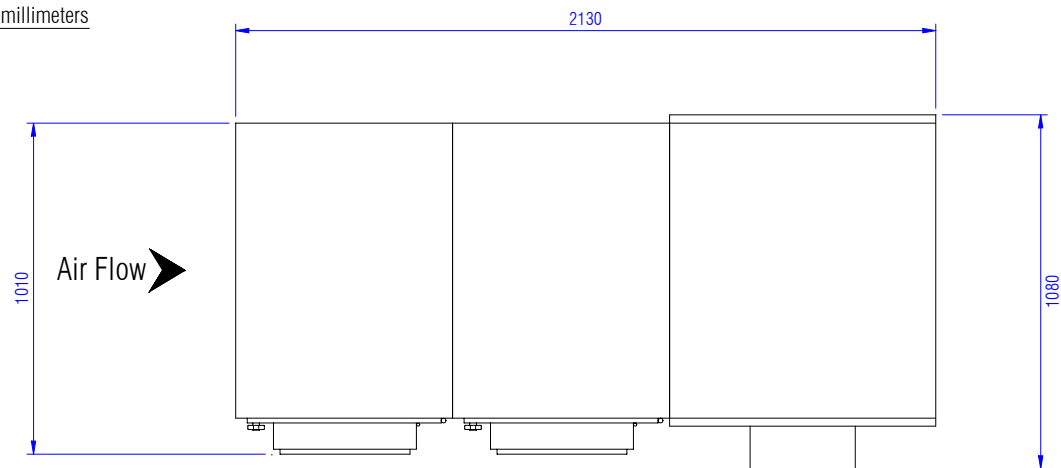
Enclosure : TEFC / EFF2
Mounting : FOOT
Frame : D160M

Remarks :
Manufacture : T.E.C ELECTRICAL MOTORS L
FLC / SC : 21 A / 155 A

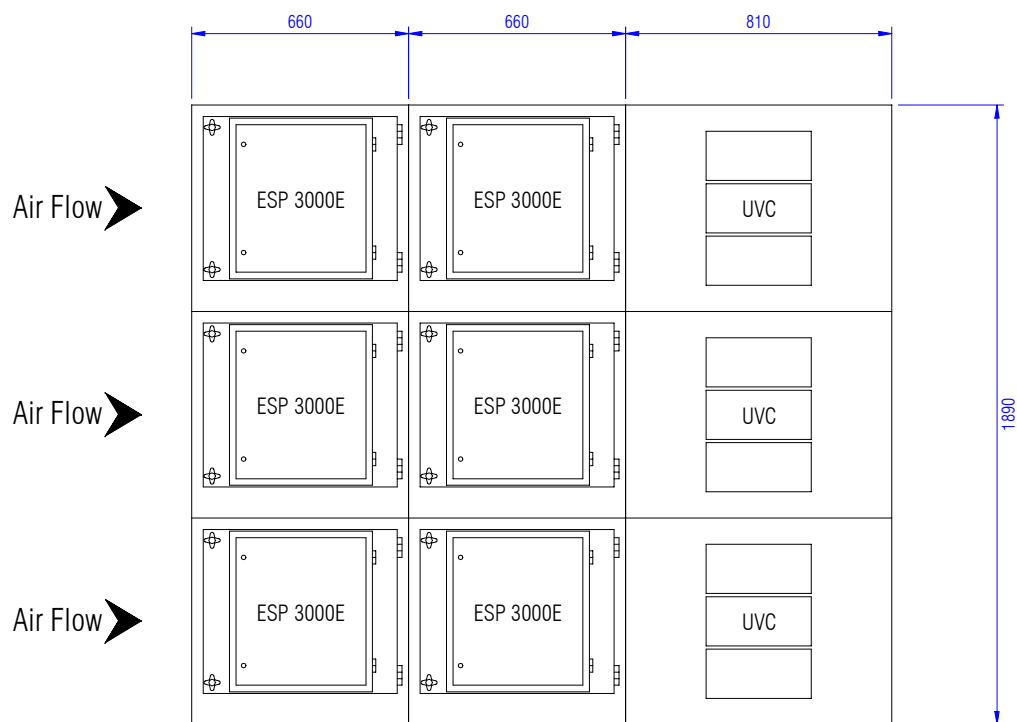
NOISE SPECTRUM (@ 63 - 125 - 250 - 500 - 1k - 2k - 4k - 8k Hz frequency band centres)

Sound Power : See Noise Data Sheet dBW
Sound Pressure: See Noise Data Sheet dBA @ 1m F/F DUCTED SYSTEM

All dimensions in millimeters
Do Not Scale



Plan



Front Elevation

Note
The system can be reconfigured if air flow direction is different to that shown.

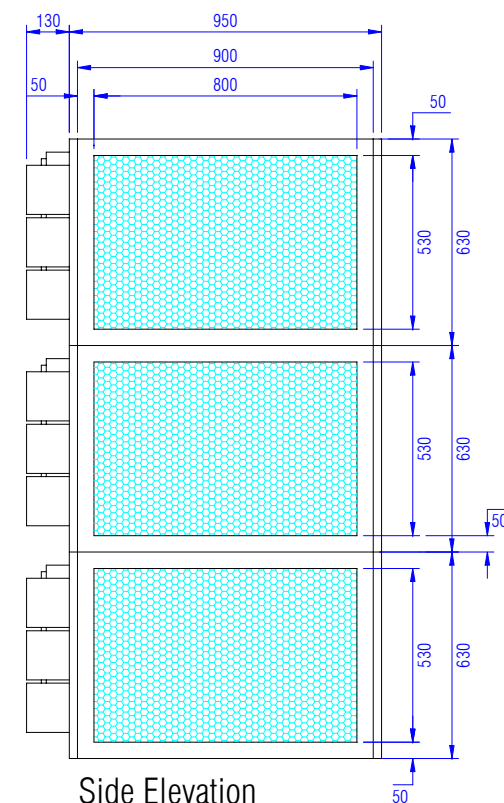
Purified Air Ltd

Title: 3x(ESP 3000E + ESP 3000E
+ UVC 3000 Module)

Weight:
915kg + 16kg/Rack

Power Supply:
220/240v-50Hz-1 Phaze

Maximum air flow through system:
4.2m³/s



Side Elevation

RAV Ducted Digital Inverter (DI)

- Low height single fan outdoor units
- Ultra-quiet operation
- Twin split option
- Back return filter kit option
- External static pressure up to 90Pa



Heat Pump



Inverter


Wired Remote
Controller

Automatic
Changeover


Auto Diagnosis



Auto Restart


Lift Pump
(270mm from outlet)


Refrigerant


Optional Remote On/Off &
Status Outputs

Optional Remote
Sensor

Indoor Unit		RAV-SM562BT-E	RAV-SM802BT-E	RAV-SM1102BT-E	RAV-SM1402BT-E
Outdoor Unit		RAV-SM562AT-E	RAV-SM802AT-E	RAV-SM1102AT-E	RAV-SM1402AT-E
Wired Remote Controller		RBC-AMT31E	RBC-AMT31E	RBC-AMT31E	RBC-AMT31E
Nominal Cooling (Range)	kW	5.0 (1.5 - 5.6)	7.1 (2.2 - 8.0)	10.0 (2.2 - 11.2)	12.5 (3.0 - 13.2)
UK Cooling	kW	5.4	7.7	10.7	12.7
UK Sensible Cooling	kW	4.2	5.8	7.6	8.6
Nominal Heating (Range)	kW	5.6 (1.5 - 6.3)	8.0 (2.2 - 9.0)	11.2 (2.2 - 12.5)	14.0 (3.0 - 16.0)
UK Heating	kW	5.0	7.2	10.0	12.8
EER (Cooling/Heating)		2.81 / 3.27	2.81 / 3.32	2.81 / 3.57	2.83 / 3.47
Energy Label (Cooling/Heating)		C / C	C / C	C / B	C / B
Operating Range - Cooling	°C	-15 to +43	-15 to +43	-15 to +43	-15 to +43
Operating Range - Heating	°C	-15 to +15	-15 to +15	-15 to +15	-15 to +15
Airflow Indoor (Low/Med/High)	l/s	161 / 198 / 217	222 / 270 / 317	315 / 383 / 450	385 / 467 / 550
External Static Pressure (High Speed)	Pa	42	45	48	50
Discharge Spigots		2 x 200mm	3 x 200mm	4 x 200mm	4 x 200mm
Sound Pressure Indoor (Low/Med/High)	dBA	33 / 37 / 40	34 / 37 / 40	36 / 39 / 42	38 / 41 / 44
Sound Pressure Outdoor (Cool/Heat)	dBA	46 / 48	48 / 50	53 / 54	53 / 54
Indoor Unit (HxWxD)	mm	320 x 700 x 800	320 x 1000 x 800	320 x 1350 x 800	320 x 1350 x 800
Outdoor Unit (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	795 x 900 x 320	795 x 900 x 320
Weight Indoor	kg	30	39	51	51
Weight Outdoor	kg	38	42	77	77
Pipe Sizes	in	1/4 + 1/2	3/8 + 5/8	3/8 + 5/8	3/8 + 5/8
Maximum Pipe Run	m	30	30	50	50
Vertical Separation	m	30	30	30	30
Pre-Charged For	m	20	20	30	30
Additional Refrigerant	g/m	20	40	40	40
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Supply To		Outdoor	Outdoor	Outdoor	Outdoor
Interconnecting Cables		3 + E	3 + E	3 + E	3 + E
Running Current	A	9.0	13.2	16.5	21.2
Fused At	A	16	16	20	25
Retail Price					
Indoor Unit		£566.00	£820.00	£998.00	£1,126.00
Wired Remote Controller		£52.00	£52.00	£52.00	£52.00
Outdoor Unit		£778.00	£1,150.00	£1,446.00	£1,592.00
System Price		£1,396.00	£2,022.00	£2,496.00	£2,770.00



AMP Air Conditioning Limited is an Authorised Toshiba Air Conditioning Distributor

Blenheim House, Blenheim Court, Brownfields, Welwyn Garden City, Herts AL7 1AD
Tel: 01707 378670 Fax: 01707 378699 www.ampair.co.uk

DESCRIPTION

- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Can be installed outdoors
- Maintenance-free and reliable

The K series is designed for installation in ducts. The KV series is designed to be used as wall mounted duct connected extract fans. All the K and KV-fans have minimum 25 mm long spigot connections.

To simplify the installation the K-fan has a preassembled fixing bracket included as standard. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans have backward-curved blades and external rotor motors.

K and KV fans can be speed-controlled via a stepless thyristor or a 5-step transformer. To protect the motor from overheating the K-fan has integral thermal contacts with electrical reset, KV with automatic reset.

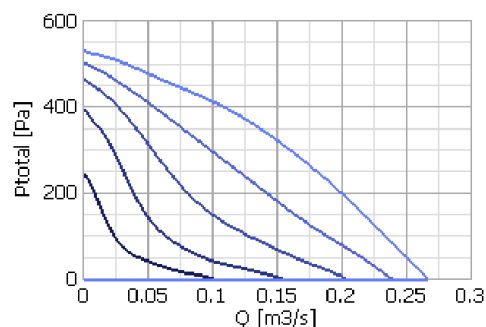
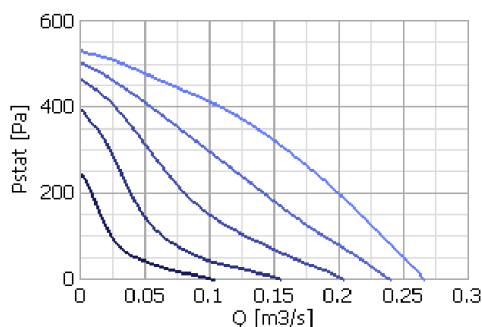
The casing is manufactured from galvanised sheet steel and folded which gives the fan a close to air tight casing. Duct connected outdoor and wet room applications of the fan are possible due to the air tight casing and the IP55 rated terminal box with a IP68 rated M20 cable gland.

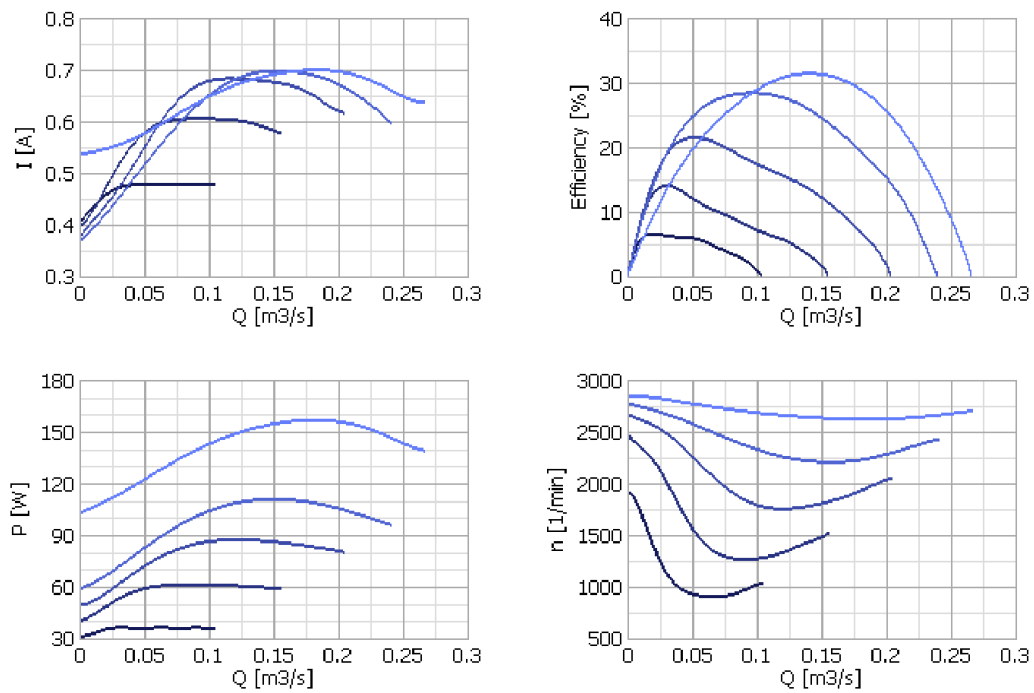


SPECIFICATION

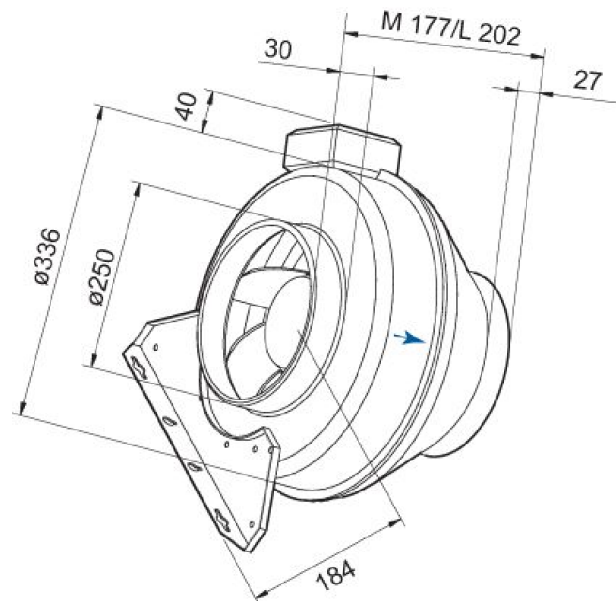
Parameter	Unit	Value
Voltage	V	230
Frequency	Hz	50
Phase	~	1
Power	W	157
Current	A	0.7
Maximum air flow	m ³ /s	0.28
R.p.m.	1/min	2610
Max. temperature of transported air	°C	55
Max. temperature of transported air when speed-controlled	°C	55
Sound pressure level at 3 m	dB(A)	44
Weight	kg	5
Insulation class, motor		B
Enclosure class, motor		IP 44
Capacitor	µF	4

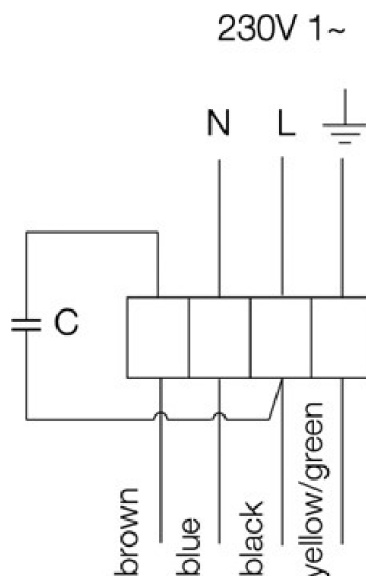
DIAGRAMS





DIMENSIONS



WIRING DIAGRAM

ELECTRICAL ACCESSORIES

RE 1,5	Manual five-step transformer
REE 1	Thyristor speed controller
REU 1,5	Manual five-step transformer
REV-3POL/03	Isolators

ACCESSORIES

CB 250-3,0	Duct heater
CB 250-6,0	Duct heater
CB 250-9,0	Duct heater
CBM 250-5,0	Duct heater with integral control equipment
CWK 250-3-2.5	Water-cooling battery
VBC 250	Water-heating battery
VBF 250	Water-heating battery with filter
LDC 250-900	Silencer
FFR 250	Filter cassette
FGR 250	Filter cassette
FK 250	Fast clamps
IGC 250	Intake grid
MK 5	Installation bracket
RSK 250	Back draft damper
SG 250	Protection guard
VK 25	Louvre shutters
VKK 250	Back draft damper



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Products: T RANGE RECESSED

Mounting Height Max. 3.0m



Models	Dimensions (mm)	Grille Size inc. Flange (mm)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	dB(A) @3m
Ambient									
T1000AR	1150(l) x 436(d) x 296(h)	1104 x 436	230V~1P&N	-	1.1	7.5	2000	27	58
T1500AR	1650(l) x 436(d) x 296(h)	1604 x 436	230V~1P&N	-	1.5	7.5	3000	40	59
T2000AR	2240(l) x 436(d) x 296(h)	2190 x 436	230V~1P&N	-	2.0	7.5	4000	50	61
Electric									
T1000E9R	1150(l) x 436(d) x 296(h)	1104 x 436	400V~3P&N	6/9	*14.1	7.5	2000	28	58
T1000E12R	1150(l) x 436(d) x 296(h)	1104 x 436	400V~3P&N	6/12	*18.5	7.5	2000	28	58
T1500E12R	1650(l) x 436(d) x 296(h)	1604 x 436	400V~3P&N	6/12	*18.9	7.5	3000	41	59
T2000E18R	2240(l) x 436(d) x 296(h)	2190 x 436	400V~3P&N	12/18	*28.1	7.5	4000	52	61
T2000E24R	2240(l) x 436(d) x 296(h)	2190 x 436	400V~3P&N	12/24	*36.8	7.5	4000	52	61
LPHW									
T1000W12R	1150(l) x 436(d) x 296(h)	1104 x 436	230V~1P&N	12	1.1	7.0	1950	29	58
T1500W12R	1650(l) x 436(d) x 296(h)	1604 x 436	230V~1P&N	12	1.5	7.0	2950	42	59
T2000W24R	2240(l) x 436(d) x 296(h)	2190 x 436	230V~1P&N	24	2.0	7.0	3950	53	61

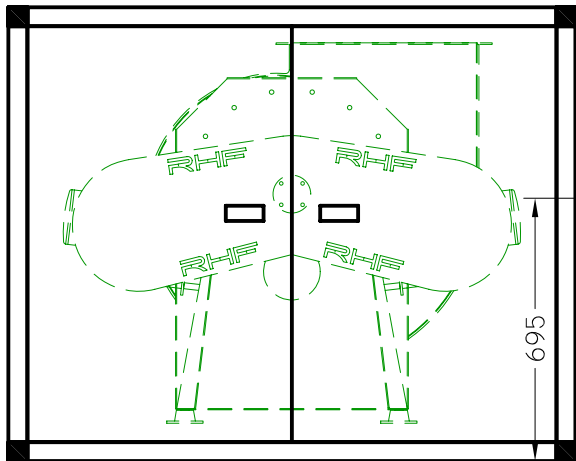
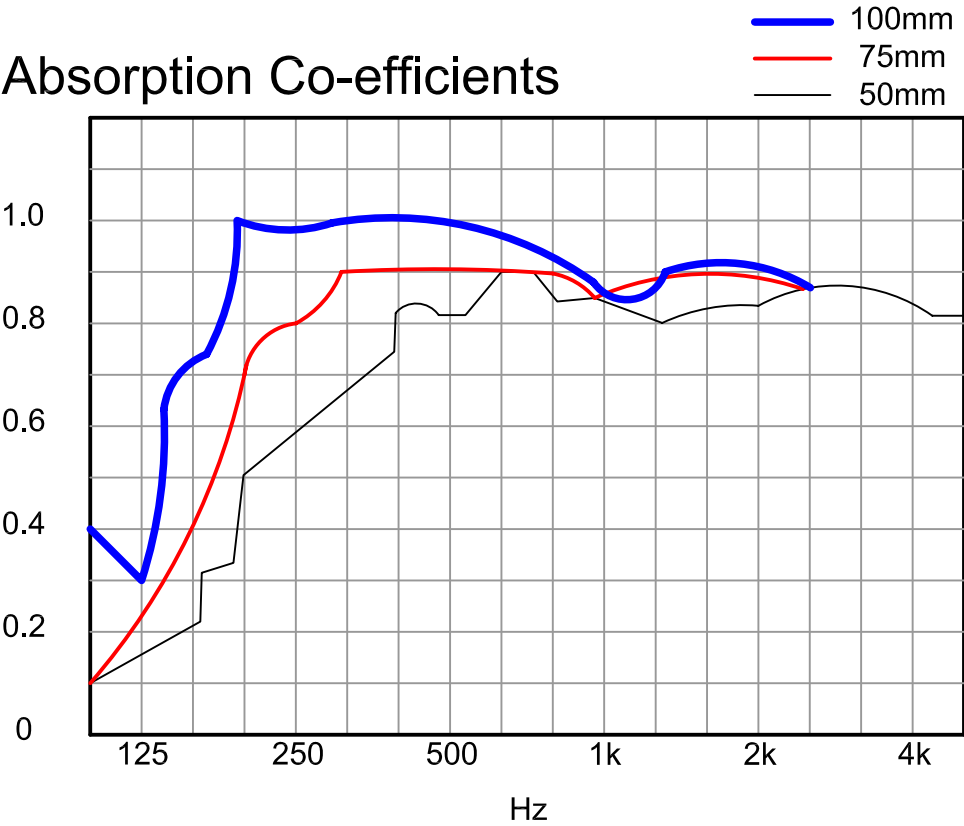
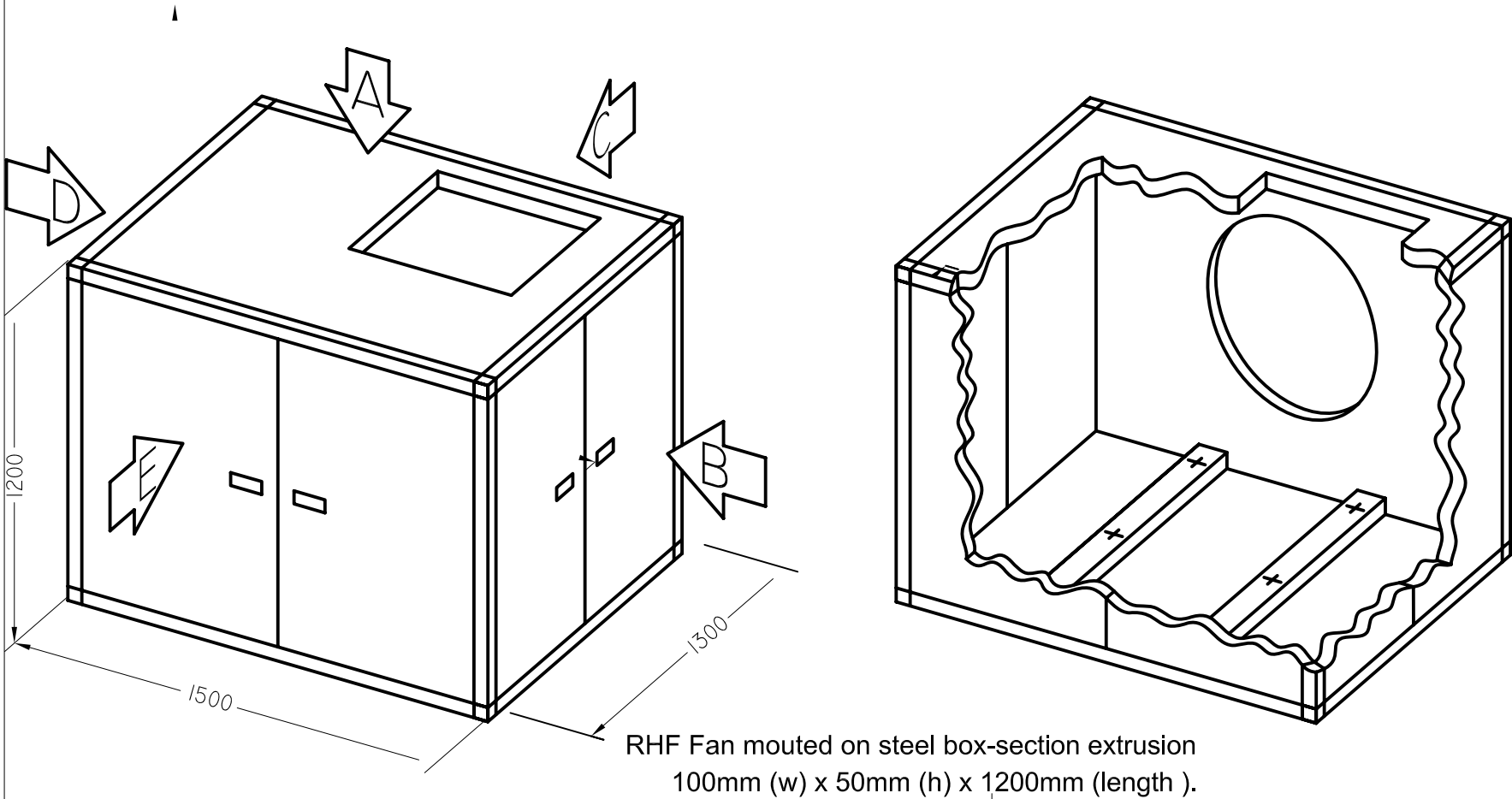
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Chapman Ventilation

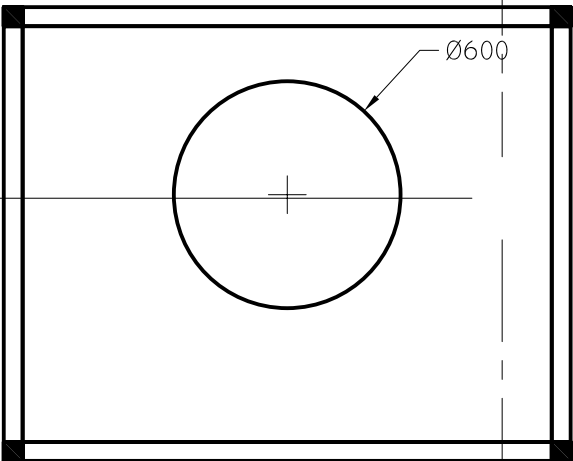
RHF Fan Acoustic Housing

All panels perforated with expamet inside and lined with 75mm SoundPro Rookwool. Weight 140kg

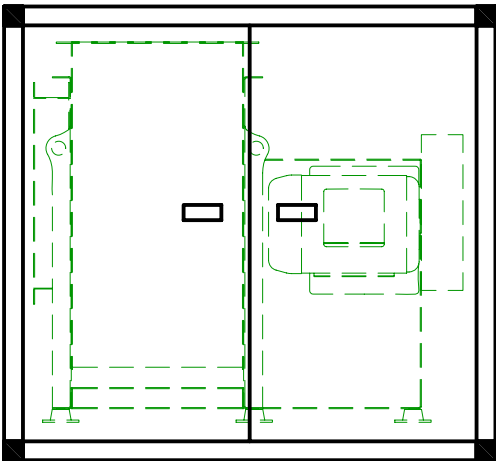
Outside Powder coated Gullwing Grey



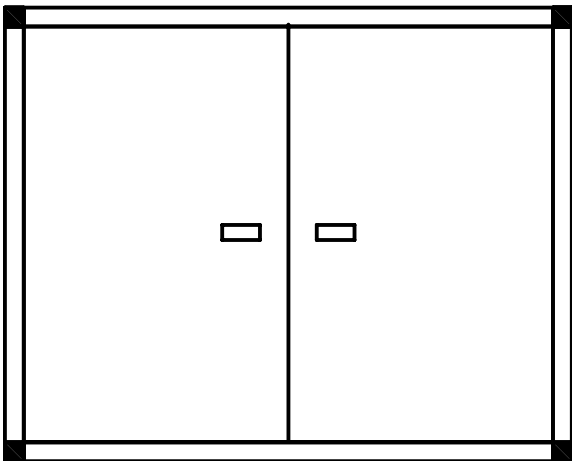
View in direction of arrow B
Side access doors to motors



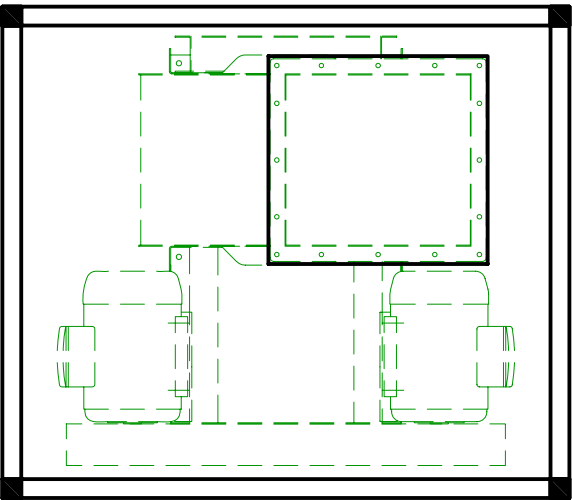
View in direction of arrow C
Rear air-intake panel



View in direction of arrow D
Side access doors to motors



View in direction of arrow E
Front access doors to motors



View in direction of arrow A
Top panel