PREMIER INN

ROCHDALE ROAD

MANCHESTER, M4 4HT

PROPOSED EXTERNAL PLANT SPECIFICATIONS

L017-APA-12-01.RF-D-A-900402

REVISION C01

ALLISON PIKE

ARCHITECTS & DESIGNERS

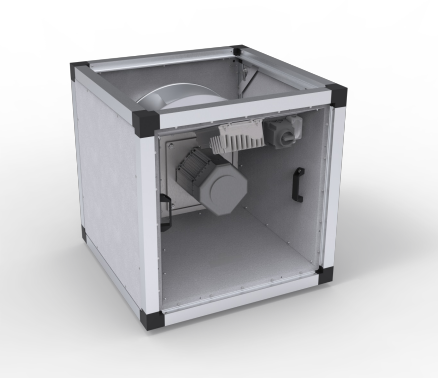
7 Buxton Road West, Disley,
Stockport, Cheshire, SK12 2AE.
Website: www.allisonpike.com

Telephone: 01663 763000
Facsimile: 01663 766772
Email: studio@allisonpike.com

© Allison Pike Partnership Limited.

MUB/T 062 630EC

Article Number: **#454834**



Powerful and efficient exhaust fans for medium temperatures up to 120°C

- For kitchen and industrial environments
- Up to 120°C medium temperature , continuous operation
- Drip pan and drain plug included
- Acoustic and thermal insulation 30 mm
- Flexible airflow direction
- Indoor and outdoor installation
- Modular system of accessories
- Available with AC and EC motors for 50 and 60Hz

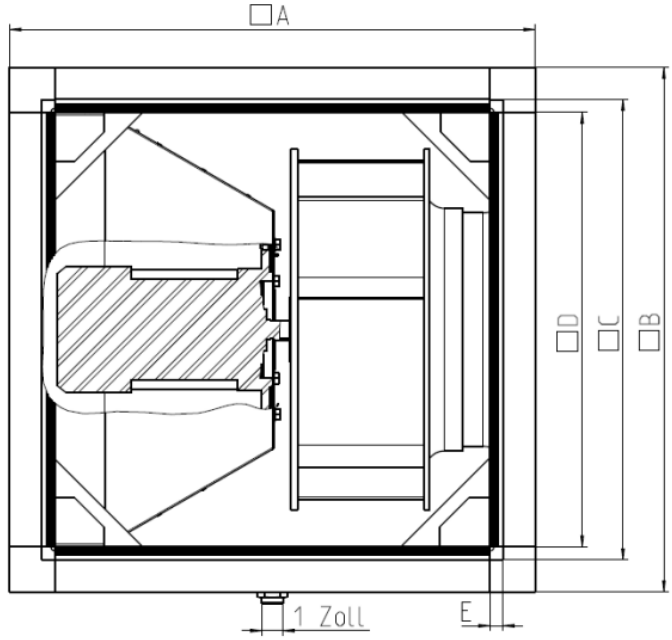
Find more details in our online catalogue

Technical parameters

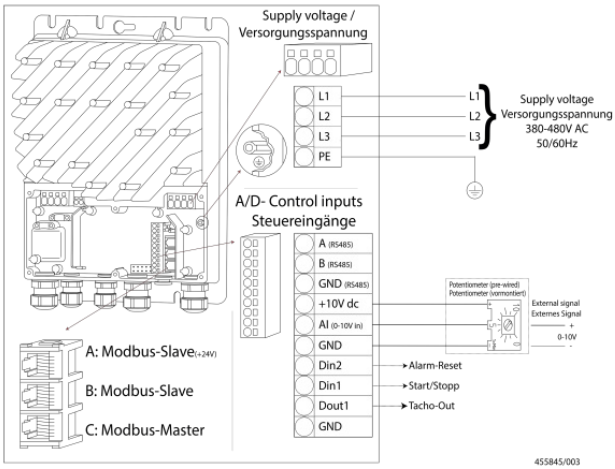
Nominal data		
Voltage (nominal)	400	V
Frequency	50; 60	Hz
Phases	3~	
Input power	2,740	W
Input power kW	2.74	kW
Input current	4.1	A
Impeller speed	1,498	rpm
Air flow	max 4.0722	m³/s
Temperature of transported air	max 120	°C
Max temperature of transported air, when speed controlled	120	°C
Protection/Classification		
Enclosure class, motor	IP55	
Insulation class	H	
Data according to ErP		
ErP ready	Not ErP relevant	
Dimensions and weights		
Weight	101	kg
Others		
Duct connection type	Square	
Motor type	EC	

Dimension

MUB/T 062	□A	□B	□C	□D	E
500/560/630	820	820	720	678	21



Wiring



KITCHEN EXTRACT FAN (1NO. UNIT)
PRODUCT: SYSTEMAIR MUB/T 062 630EC
SIZE: 820MM X 820MM X 820MM HIGH
WITH 550 X 550MM EXTRACT VENTILATION DUCT

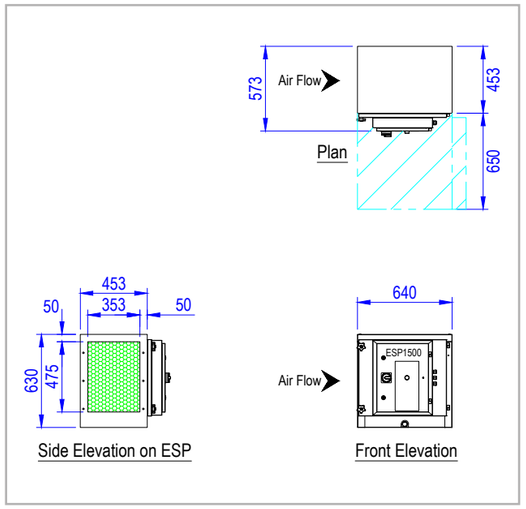
TECHNICAL SPECIFICATION

	ESP 1500	ESP 3000	ESP 4500	ESP 6000
Supply	220-240V 50-60HZ	220-240V 50-60HZ	220-240V 50-60HZ	220-240V 50-60HZ
Power Consumption	20W	30W	40W	50W
Maximum Airflow	0.7 M³/SEC (UP TO)	1.4 M³/SEC (UP TO)	2.1 M³/SEC (UP TO)	2.8 M³/SEC (UP TO)
Dimensions (mm)	W 450 H 630 D 640	W 900 H 630 D 640	W 1350 H 630 D 640	W 1800 H 630 D 640
Weight	55KG	85KG	118KG	153KG

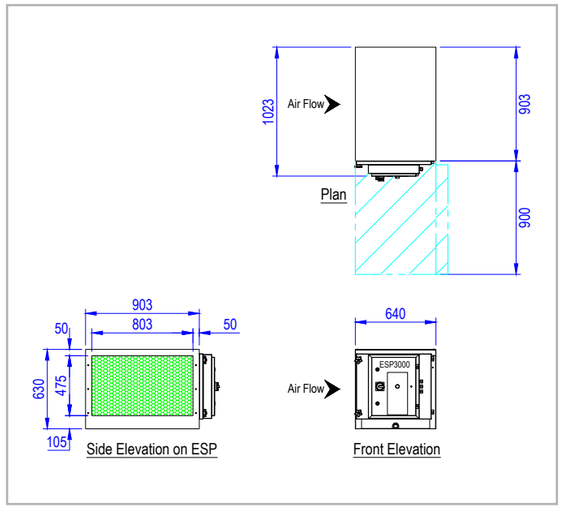
Please note: This equipment needs to be interlocked with the extract fan.

DRAWINGS

ESP 1500

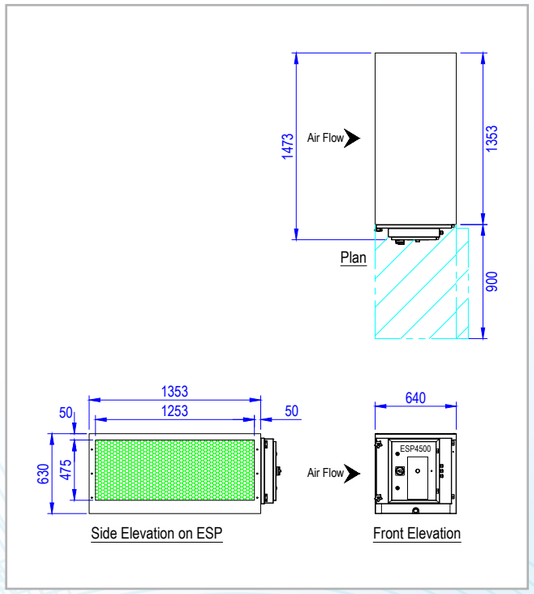


ESP 3000

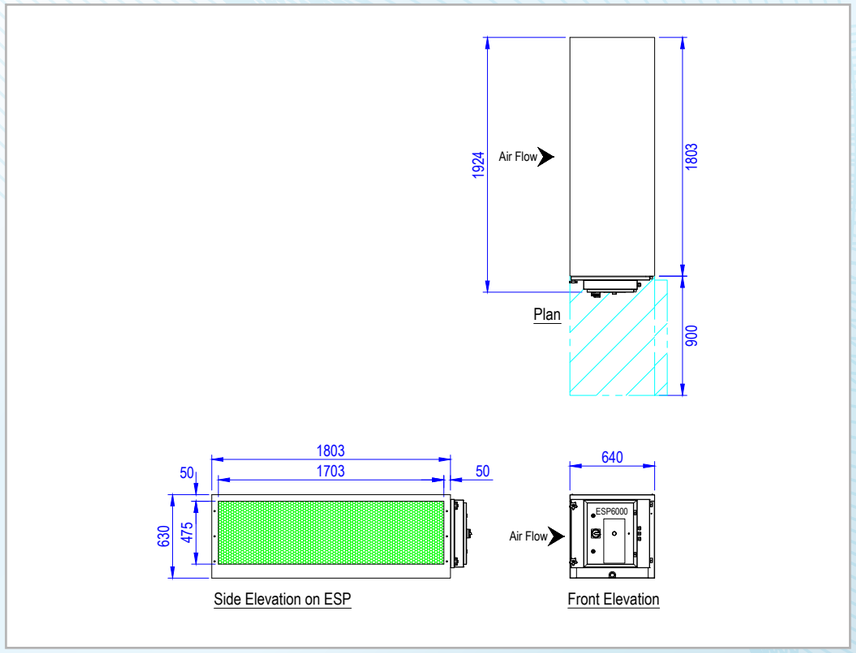


KITCHEN ELECTROSTATIC PRECIPITATOR (1NO. UNIT)
PRODUCT: PURIFIED AIR ESP 4500
SIZE: 1473MM LONG X 640MM WIDE X 630MM HIGH
WITH 550 X 550MM EXTRACT VENTILATION DUCT

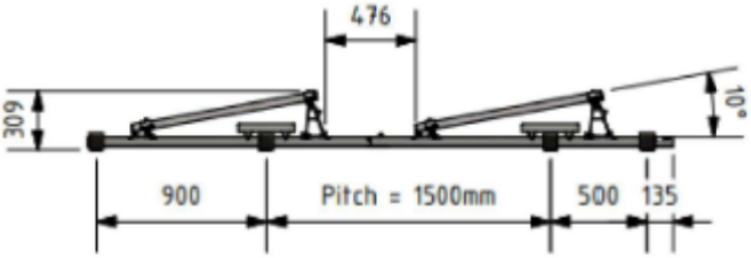
ESP 4500



ESP 6000



PHOTOVOLTAIC SYSTEM (46NO. PANELS)
PRODUCT: LONGI Hi-MO 6 EXPLORER
SIZE: 1722MM LONG X 1134MM WIDE X 30MM THK (EACH PANEL)
SUPPORTED ON LOW LEVEL FRAMING SYSTEM



Hi-MO 6 Explorer

LR5-54HTH
420~440M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability

15 15-year Warranty for Materials and Processing

25 25-year Warranty for Extra Linear Power Output

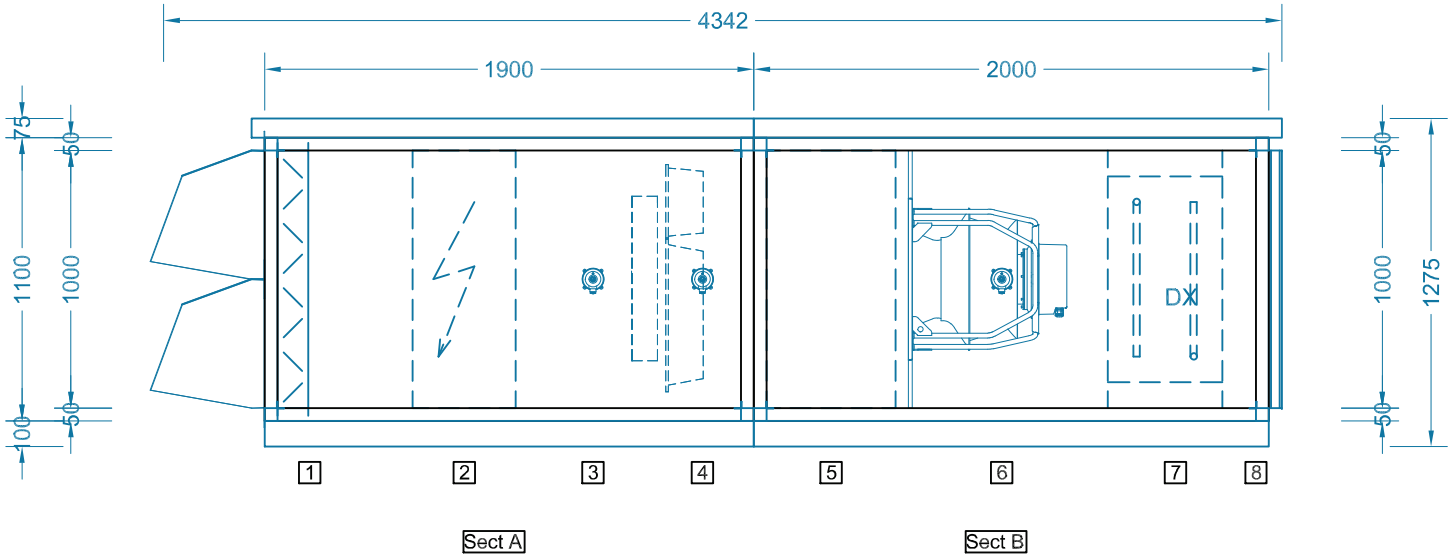


Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
ISO9001:2015: ISO Quality Management System
ISO14001: 2015: ISO Environment Management System
ISO45001: 2018: Occupational Health and Safety
IEC62941: Guideline for module design qualification and type approval

LONGi

KITCHEN SUPPLY AHU (1NO. UNIT)
PRODUCT: VES MAX33 D/W/S
SIZE: 4342MM LONG X 1550MM WIDE X 1275MM HIGH
WITH 700 X 700MM SUPPLY VENTILATION DUCT



NOTES:

Section A: Weight +-5% = 348Kgs

Components

1	Inlet Section	250 mm
2	Electric Frost Coil	400 mm
3	Panel Filter	500 mm
4	Rigid Filter	300 mm

Section B: Weight +-5% = 449Kgs

Components

5	Plenum	500 mm
6	Plug Fan	725 mm
7	DX Cooling Coil	525 mm
8	Outlet Section	mm

ELEVATION

2014 PRODUCT PROTECTED BY DESIGN RIGHT

VES ANDOVER LTD.
EAGLE CLOSE,
CHANDLERS FORD INDUSTRIAL ESTATE,
CHANDLERS FORD, EASTLEIGH,
HAMPSHIRE, ENGLAND, SO53 4NF
TEL: (08448) 15 60 60
FAX: (023) 80261204
EMAIL: vesltd@ves.co.uk
WEB SITE: www.ves.co.uk

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PROJECT: Manchester PI

UNIT REFERENCE: Supply AHU

MODEL: MAX33/D/W/S

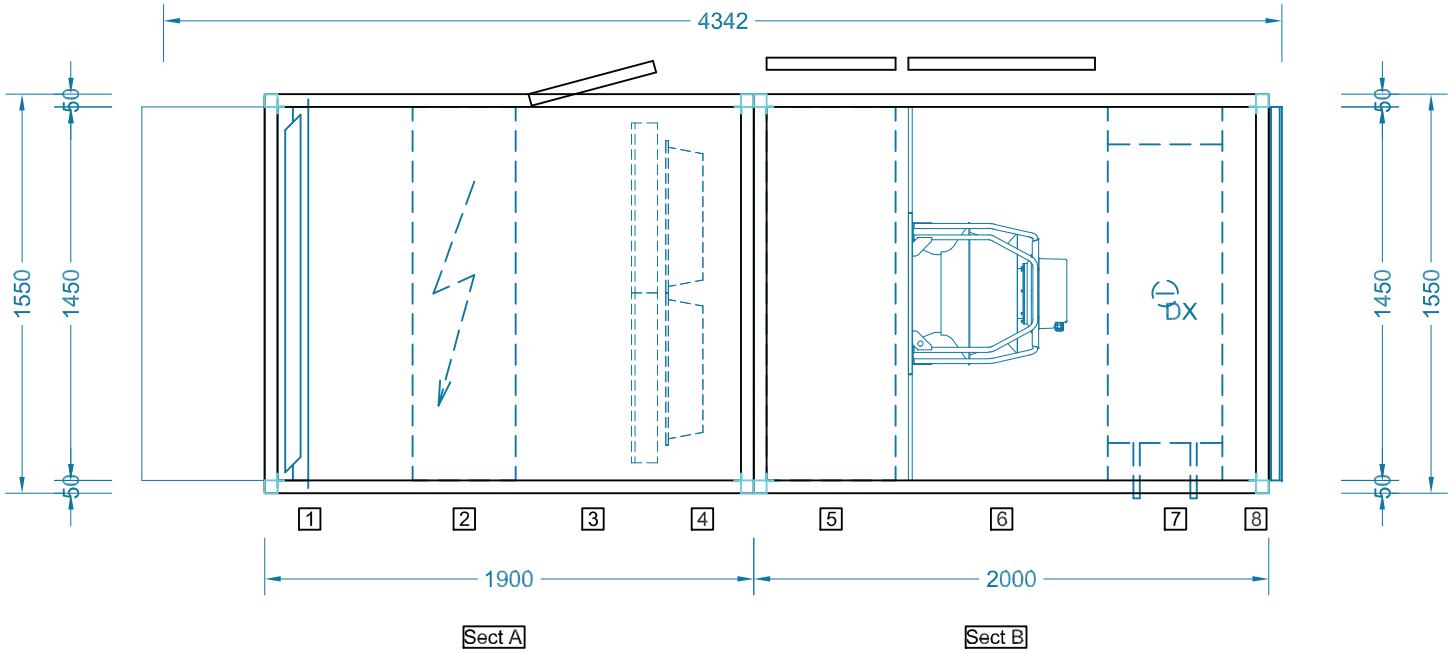
AHU No.:	QUANTITY.:	DUTY:	DRAWN:	APPROVED:	UNIT No.:
1	1	2.42 M3/S	DATE:	DATE:	1209980-1-0

ALL DIMENSIONS IN mm | DO NOT SCALE

IF IN DOUBT PLEASE CONTACT VES DESIGN OFFICE

No.:	REVISION.:	DATE:

A4 SELECTION SYSTEM SKETCH OUTLINE DRAWING BORDER : ID REF: TBC



NOTES:

Section A: Weight +-5% = 348Kgs

Components

1	Inlet Section	250 mm
2	Electric Frost Coil	400 mm
3	Panel Filter	500 mm
4	Rigid Filter	300 mm

Section B: Weight +-5% = 449Kgs

Components

5	Plenum	500 mm
6	Plug Fan	725 mm
7	DX Cooling Coil	525 mm
8	Outlet Section	mm

PLAN DECK

2014 PRODUCT PROTECTED BY DESIGN RIGHT

VES ANDOVER LTD.
EAGLE CLOSE,
CHANDLERS FORD INDUSTRIAL ESTATE,
CHANDLERS FORD, EASTLEIGH,
HAMPSHIRE, ENGLAND, SO53 4NF
TEL: (08448) 15 60 60
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WEB SITE: www.ves.co.uk

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PROJECT: Manchester PI

UNIT REFERENCE: Supply AHU

MODEL: MAX33/D/W/S

AHU No.:	QUANTITY.:	DUTY:	DRAWN:	APPROVED:	UNIT No.:
1	1	2.42 M3/S	DATE:	DATE:	1209980-1-0

ALL DIMENSIONS IN mm | DO NOT SCALE

IF IN DOUBT PLEASE CONTACT VES DESIGN OFFICE

No.:	REVISION.:	DATE:

A4 SELECTION SYSTEM SKETCH OUTLINE DRAWING BORDER : ID REF: TBC

systemair

TFC 355 P Sileo Black

Article number: **#156818**

Operating Mode: **230V 1~ 50Hz**

EF-006

LINEN ROOM EXTRACT FAN (1NO. UNIT)
PRODUCT: SYSTEMAIR TFC 355 P SILEO BLACK
SIZE: 627MM X 627MM X 376MM HIGH
WITH 400MM DIA EXTRACT VENTILATION DUCT



Bring Scandinavian, energy-efficient quality to tackle your ventilation needs

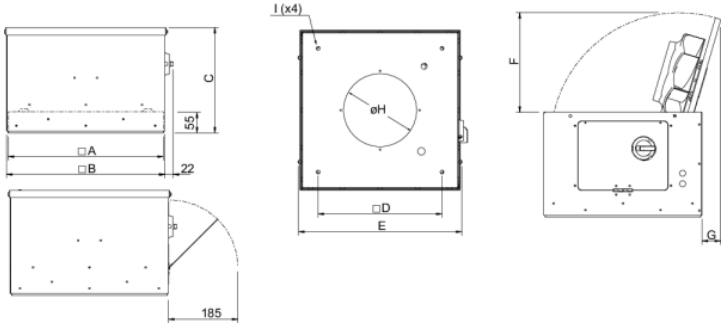
- EC-motor with high efficiency throughout the entire fan performance range
- Safety switch easily accessible on the outside of the casing
- Demand control - easy to adjust ventilation rate to actual need. Outdoor compensation.
- Noise reduction thanks to insulated casing
- Communication via Modbus for P-versions.

Find more details in our online catalogue

Technical parameters

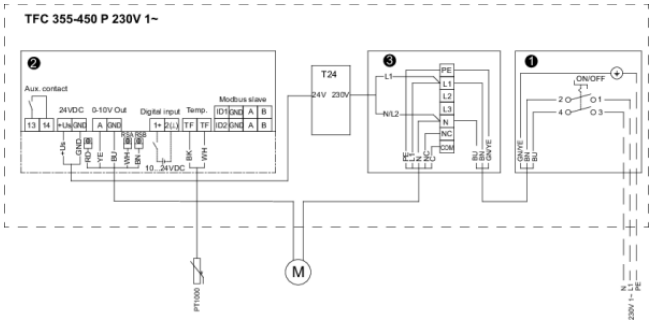
Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	526	W
Input power kW	0.526	kW
Input current	2.33	A
Impeller speed	2,003	rpm
Air flow	max 3,639	m³/h
Temperature of transported air	max 60	°C
Max temperature of transported air, when speed controlled	60	°C
Sound data		
Sound pressure level at 10m (free field)	41	dB
Sound pressure level at 4m (free field)	49	dB
Protection/Classification		
Enclosure class, motor	IP54	
Insulation class	F	
Data according to ErP		
ErP ready	ErP 2018	
Dimensions and weights		
Weight	29	kg
Others		
Color name, casing	Black	
Motor type	EC	

Dimension



.	□A	□B	C	□D	E	F	G	øH	I
TFC 225	413	422	281	330	435	266	49	195	M8
TFC 280	514	523	333	450	535	368	86	245	M10
TFC 355	618	627	376	535	637	491	150	300	M10
TFC 450	924	934	531	840	946	650	76	375	M10
TFC 500	924	934	531	840	946	695	200	400	M10
TFC 560	924	934	531	840	946	744	279	470	M10

Wiring



1	Safety switch	2	Fan control	3	Alarm
RD	Red	GN	Green	NC/WH1	Alarm output
YE	Yellow	BN	Brown	C/WH2	Normally closed
BU	Blue	GY	Grey		
WH	White	BK	Black		

Switch-over contact enables:	
Voltage off	Setpoint 1 active
Voltage on	Setpoint 2 active

RATINGS DEFINITIONS

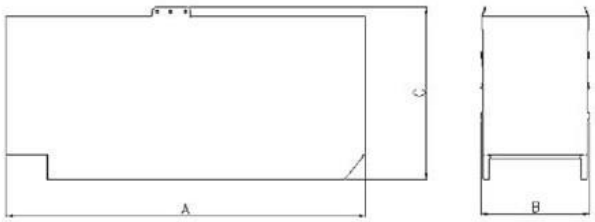
Emergency Standby Power (ESP):
Applicable for supplying power continuously to varying electrical loads for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528-1 and ISO 3046-1, obtained and corrected in accordance with ISO 15550

Limited-Time Running Power (LTP):
Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528-1.

Prime Power (PRP):
Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528-1. Ten percent overload capability is available in accordance ISO 3046-1, obtained and corrected in accordance with ISO 15550.

GENERATOR (1NO.UNIT)
PRODUCT: CUMMINS Q RANGE
DIESEL C170D5Q
SIZE: 3100MM LONG X 1180MM
WIDE X 1950MM HIGH
NOTE: FOR EMERGENCY BACK
UP USE ONLY - NOT
CONSISTENTLY RUNNING

ENCLOSED



This outline drawing is to provide representative configuration details for model series only.

Do not use for installation design

DIMENSIONS

MODEL	OPEN					ENCLOSED				
	Length "A" mm	Width "B" mm	Height "C" mm	Dry wt.* kg	Wet wt.* kg	Length "A" mm	Width "B" mm	Height "C" mm	Dry wt.* kg	Wet wt.* kg
C220D5EQ	3130	1150	1750	TBC	1791	3200	1180	1950	TBC	2191

* Note: Weights represent a set with standard features. Wet weights do not include fuel.

REFERENCE DOCUMENTS

Additional documents are available for consult In Power Suite™ (powersuite.cummins.com) for detailed technical Information.

CODES AND STANDARDS

ISO 9001 **ISO 14001**	This product was manufactured in a facility whose quality management system is certified to ISO 9001 and its Health Safety Environmental Management Systems certified to ISO 14001.	CE	This generator set is available as CE marked
		UKCA	This generator set is available as UKCA marked
2000/14/EC	All enclosed products are designed to meet EU Noise Directive 2000/14/EC.	ISO 8528	This generator set has been designed to comply with ISO 8528 standards.
2014/30/EU **2006/42/EC** **2011/65/EU** 2014/35/EU	All products are designed to meet or exceed EU legislation on Electromagnetic Compatibility (EMC), Machinery Safety, Restriction of the use of certain hazardous substances (RoHS) and Electrical Equipment for use within certain voltage limits.		

For more information, please contact your local Cummins distributor or visit cummins.com

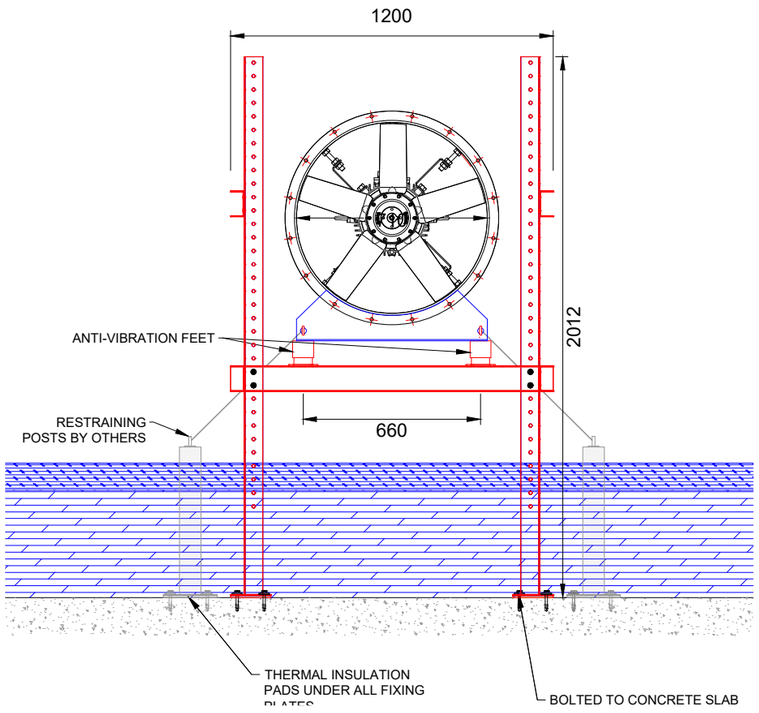
Our energy working for you.™

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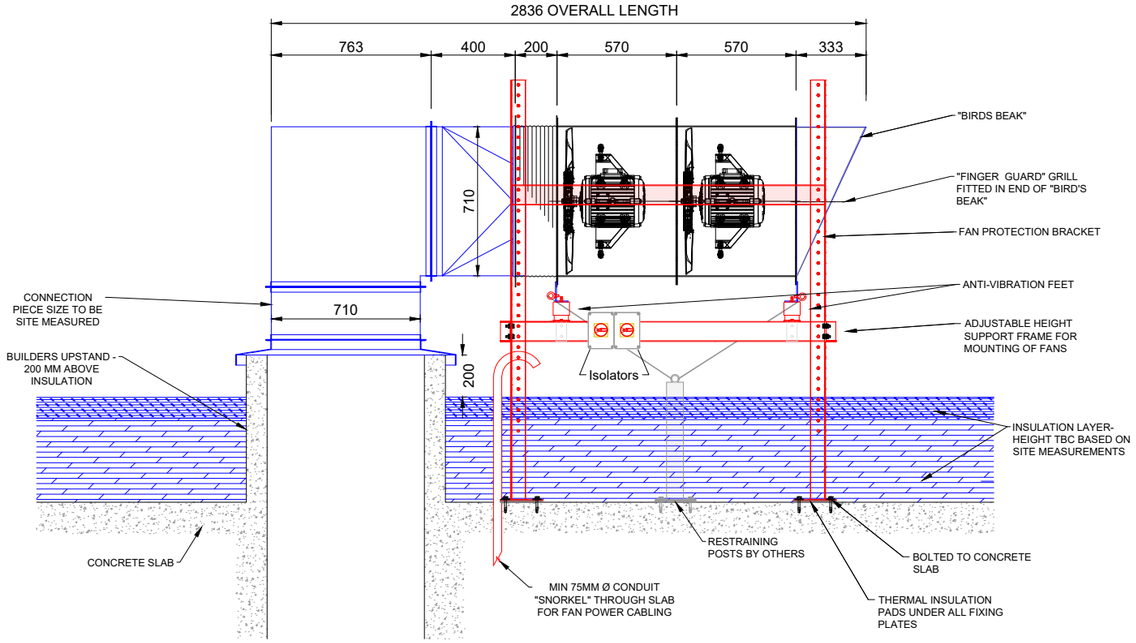
Detail Sheet 2 - 710 Smoke Fan

SMOKE EXTRACT FAN (1NO.UNIT)
SIZE: 2836MM LONG X 1200MM
WIDE X 1562MM HIGH
NOTE: ONLY USED IN EVENT OF FIRE
- NOT CONSISTENTLY RUNNING

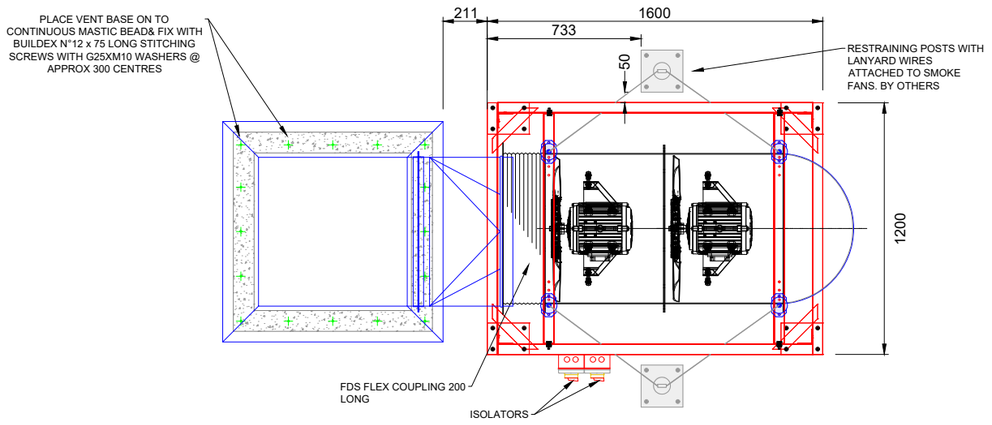
FRONT ELEVATION VIEW OF INSTALLATION ON ROOF



SECTIONAL VIEW OF INSTALLATION ON ROOF



PLAN OF INSTALLATION ON ROOF



SMOKE EXTRACT FANS AND DUCTING Ø710mm
DETAIL FROOF

General notes and Legend:

Combustible Materials -

The system is designed to discharge hot smoke and gases from a fire which can be up to 300Deg therefore no combustible material should be in the discharge path.
Where this cannot be avoided, our research shows the jet plume of the discharge from the jet fan can reach 4m or 5m so anything in that area should be avoided.
The discharge stream is likely to be around 2.0 above the deck height.

Smoke Recirculation (BS 9999:2017) -

Exhaust points from ductwork systems should be sited:

At least 5m horizontally separated and more than 1 m above any opening (doors, all windows, skylights and ventilation apertures) or intake or discharge feature in the same or adjacent premises, to prevent extracted smoke being recirculated.

During installation of the fans please position the Motor Terminal Box/es to be accessible and safe for connection in line with CDM requirements.

Restraints should be loosely connected and not provide any tension to the posts.

FDS Group stipulate HILTI HUS4 Screw Anchor fixings for securing fan frames to the building structure.

Fixings used on the fan sets without attenuation require:
Fan frame to have a minimum of 4No. fixing points.

Minimum fixing size 10mm x 75mm.

Fan Panel emitted for clarity.

Fan Frame Weight: **90 KG**

Fan Weight: Minimum **160 KG**

Rev	Date	Comment	Drn	Chk
C01	15/08/25	Construction Issue.	DN	CS
P01	03/02/25	Drawings issued for approval.	DN	CS

STATUS:

DESIGN BY: CS | DRWN BY: DN | CHKD BY: CS | SCALE: NTS

CLIENT:

PROJECT:
Premier Inn Hotel & Restaurant
25 Rochdale Road
Manchester, M4 4HT

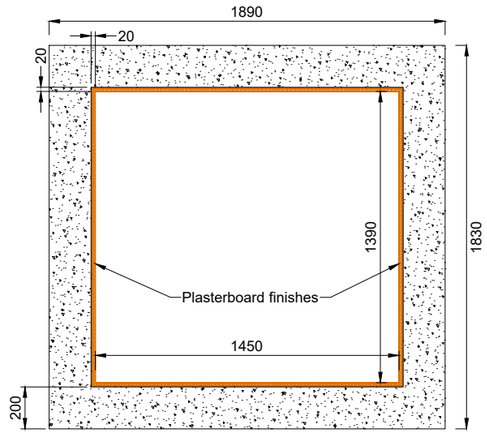
TITLE:
Detaill Sheet 2 -710 Smoke Fan

DRAWING NUMBER: 2024086-FDS-XX-XX-DT-X-3002 REV: C01

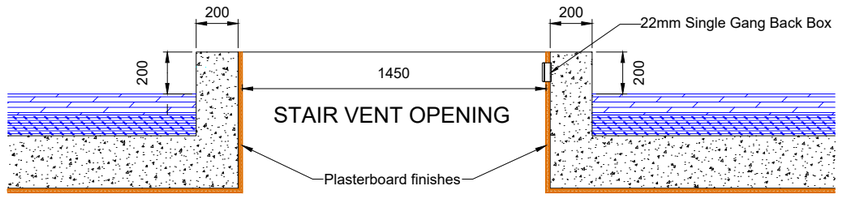
Turn Key
Apollo Court, Monkton Business Park South
fdscontracting

Detail Sheet 7 - AOV 1m² Stair

AOV (1NO.UNIT)
SIZE: 1010MM X 1090MM
NOTE: ONLY USED IN EVENT OF FIRE
- NOT CONSISTENTLY RUNNING

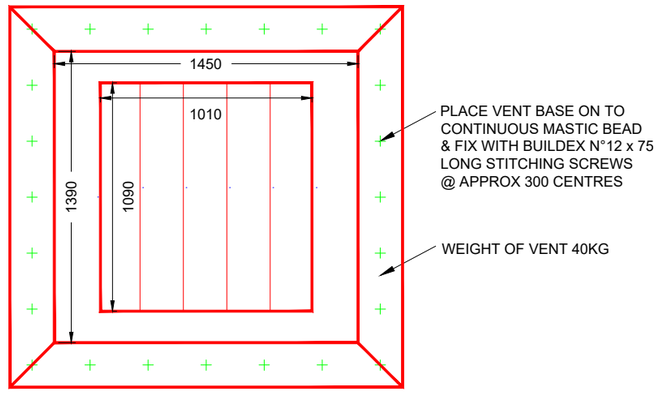


PLAN OF STAIR VENT UPSTAND

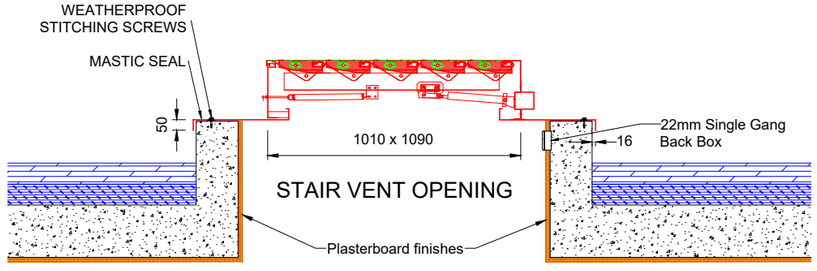


ELEVATION OF STAIR VENT UPSTAND

BUILDERS UPSTAND FOR STAIR VENT



PLAN OF STAIR VENT



ELEVATION OF LOUVRED STAIR VENT 1M² AND UPSTAND

STAIR CORE VENT DETAIL AOVHL1

General notes and Legend:

Rev	Date	Comment	Drn	Chk
C02	28/08/25	AOV changed to non access. Additional dims added.	DN	CS
C01	01/07/25	AOV decreased from 2m² to 1m². Construction Issue.	DN	CS
P02	01/07/25	AOV increased from 1m² to 2m².	DN	CS
P01	03/02/25	Drawings issued for approval.	DN	CS

STATUS:

Turn Key
Apollo Court, Monkton Business Park South

fdscontracting

DESIGN BY:	DRWN BY:	CHKD BY:	SCALE:
CS	YU	CS	NTS

CLIENT: GMI

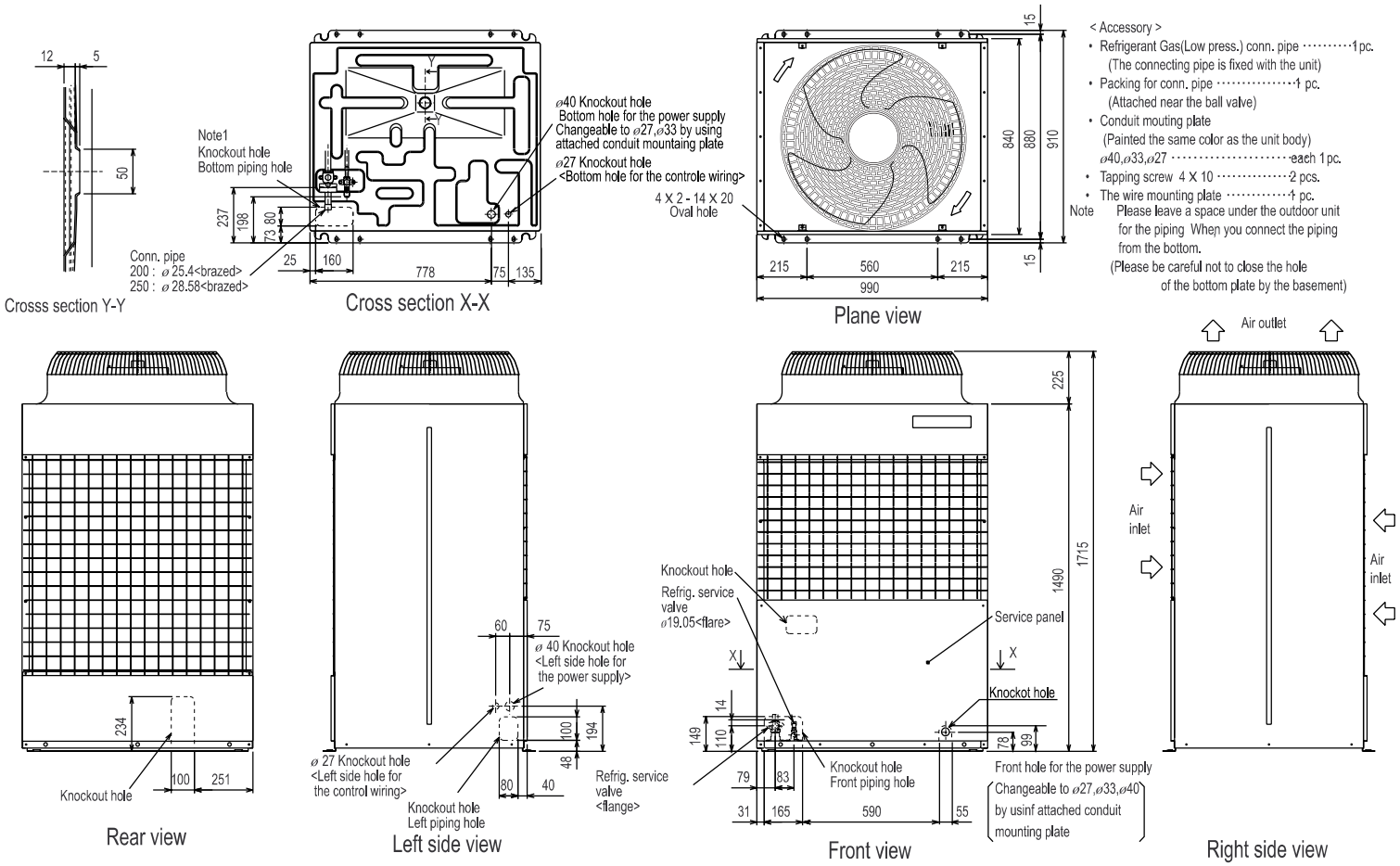
PROJECT:
Premier Inn Hotel & Restaurant
25 Rochdale Road
Manchester, M4 4HT

TITLE:
Detail Sheet 7 - AOV 2m² Stair Access

DRAWING NUMBER: 2024086-FDS-XX-XX-DT-X-3007
REV: C02

PURY-P200,250YMF-B

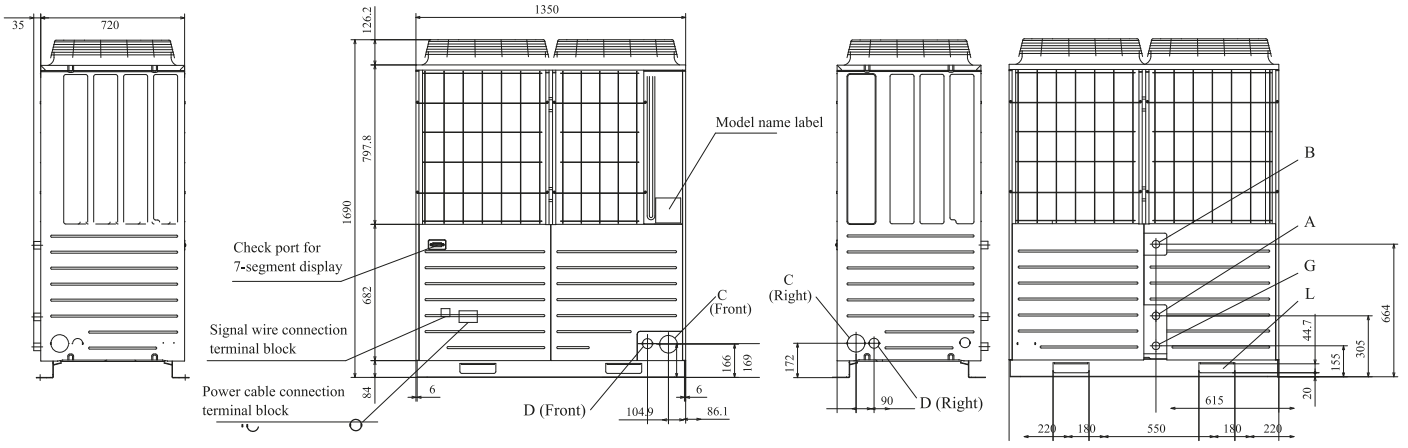
AIR CONDITIONING EXTERNAL CONDENSERS (21NO. UNITS)
PRODUCTS: 19NO. MITSUBISHI PURY-EP200YNW-A2
1NO. MITSUBISHI PURY-EP350YNW-A2 / 1NO. MITSUBISHI MUY-TP35VF-E2
SIZE: 740MM DEPTH X 920MM WIDE X 1858MM HIGH (EACH UNIT)
SUPPORTED ON BIG FOOT SYSTEM



Unit : mm

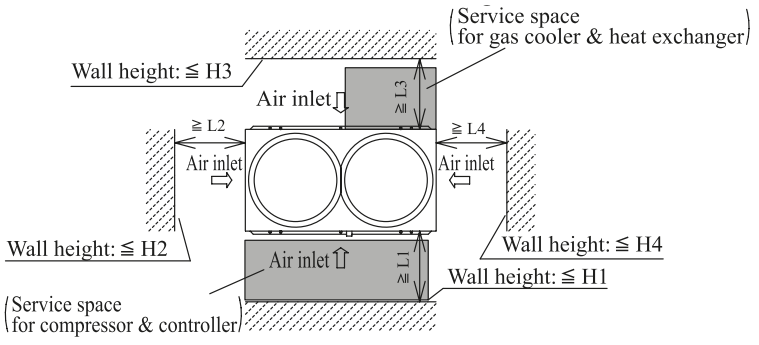
AIR SOURCE HEAT PUMPS (5NO.UNITS)
PRODUCT: MITSUBISHI Q-TON 30kW ESA30EH-25
SIZE: 720MM DEPTH X 1350MM WIDE X 1690MM HIGH (EACH UNIT)
SUPPORTED ON BIG FOOT SYSTEM

Model ESA30EH-25



Symbol	Contents	
A	Feed water inlet port	RC3/4 (Cooper tube 20A)
B	Hot water outlet port	RC3/4 (Cooper tube 20A)
C	Heat pump unit - Tank unit connecting wire outlet port	88 mm diam. (or 100 m diam.)
D	Power cable inlet port	50 mm diam. (right, front) Long hole 40 x 80 (bottom)
G	Drain water pipe outlet port	RC3/4 (Cooper tube 20A)
L	Hole for carrying or hanging	230 x 60

Installation space (Service space)



Dimension/ Installation example	I	II
L1	800	800
L2	10	10
L3	800	500
L4	100 (*)	500
H1	1500	1500
H2	Not limited	Not limited
H3	1000	1000
H4	Not limited	Not limited

Note

1. Be sure to fix the unit with anchor bolts
2. Be sure to keep space above the unit atleast 2m
3. The connection of water pipes (Feed water inlet, Hot water outlet, Drain water outlet) should be done on site locally.
4. The holes for power cable inlet, and connection wire outlet from heat pump unit to tank unit are half-blanked. Therefore please punch out the hole by cutting the residual portion and use it.
5. In heavy snow region, please take following measures in order for the air inlet/outlet port and the bottom part of unit not to be covered with snow
   1. Place unit on the rack in order to make the bottom of the unit higher than the snow surface.
   2. Install a snow prevention hood on the outlet port of the unit.
   3. Install the unit at the space under the eaves or the snow prevention roof.
6. If ambient temp becomes below 0 °C, it may cause break of water pipes and damage on the unit due to freexing. Be sure to apply anti-freezing heater to feed water piping, a hot water piping and drain water piping in order to prevent from freezing.
7. Be sure to keep enough service spaces of more than 800mm in front of the unit service panel for easy inspection of the unit and replacement of components. When piping work is done, be sure not to interfere the pipes with the unit service space. If the service space cannot be kept, please install the piping below the unit by placing the unit on the rack.