

AirSource Ventilation Ltd
B1/B2 Lyntown Trading Est.
Lynwell Road
Eccles
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Roof Details:

S1: 11 off Roof Top Hats @ 428 mm

Construction Notes:

FRAME: 50-45 ANODISED ALUMINIUM PENTAPOST
TOP HATS: 30-50 FRONT / 50-50 TOP-BOTTOM
PANELS: 45 mm THICK DOUBLE SKIN INSULATED
(INNER: 0.9mm GALV / OUTER: 0.7mm PLASTISOL)
Plastisol is Goosewing Gray BS 10A05
BASE: 100 mm HIGH GALV. CHANNEL
ROOF: 72 mm HIGH, PITCHED
DELIVERY: AHU SUPPLIED IN 1 SECTION
TOTAL: 2230 Kg

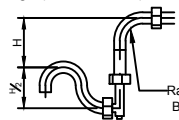
Installation Notes:

- Where wiring is required through the AHU, panel penetration & blanking is by others.
- This equipment must be installed & operated in accordance with AirSource's Operation & Maintenance Manual, available on request
- Unit Width as shown on the drawing does **NOT** include protrusions of other items such as Roofs, Handles, Gauges, Coil/Drain/Flue connections etc.
- If any site access restriction exist please inform us before approving drawings, as this can affect manufacture and design. We will endeavour to find the best solution for both parties.
- Draintray connections are $\frac{3}{4}$ " BSP (male)

All drains must be suitably trapped using the following equation and details

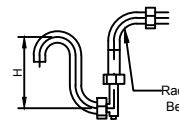
$$H(\text{mm}) = \left(\frac{\text{Total pa}}{9.84} \right) + 25$$

Draw Through (Fan after Coil)



⊖ (-ve pressure)

Blow Through (Fan before Coil)



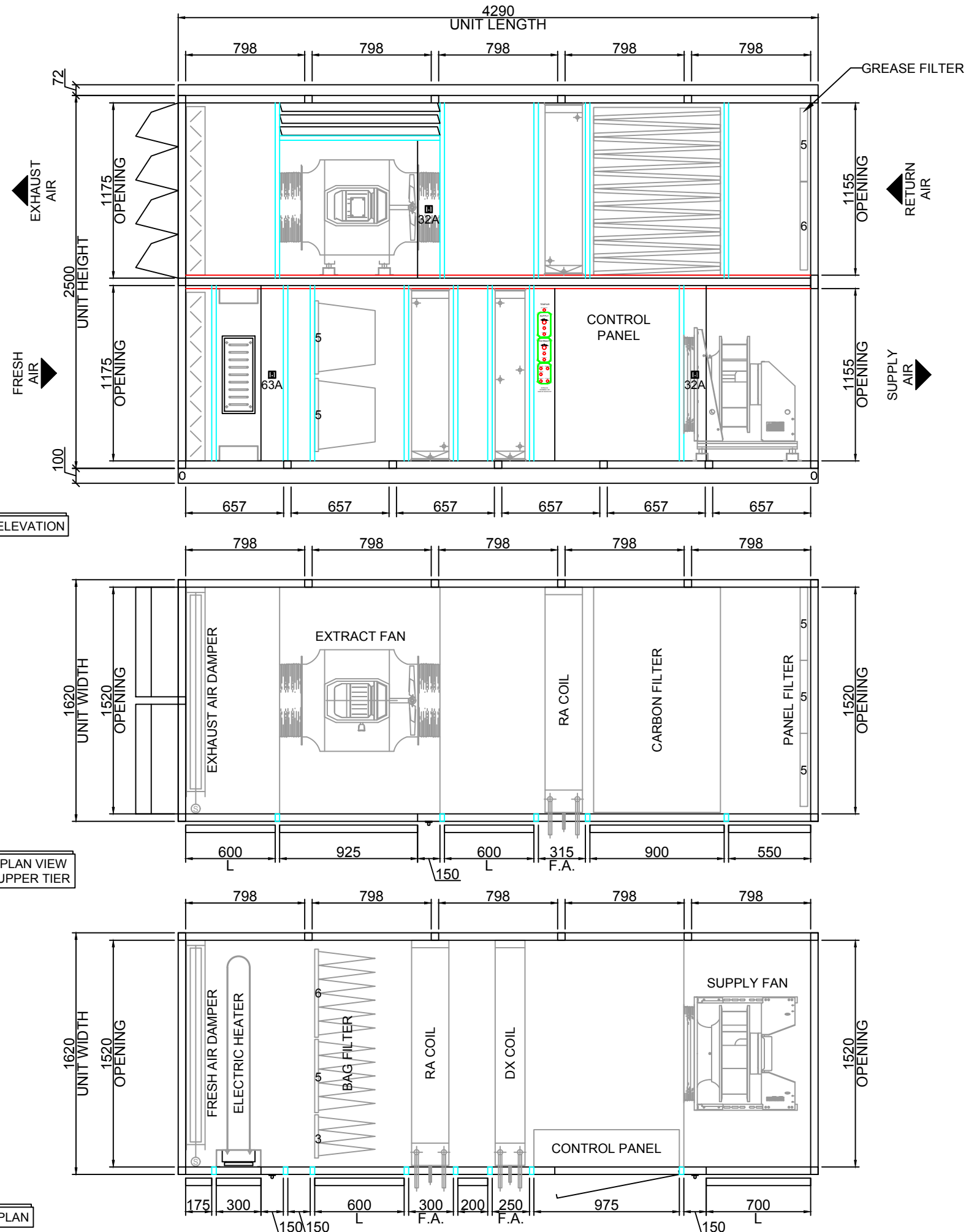
⊕ (+ve pressure)

⊙ - SPINDLE
ⓐ - DRAIN CONNECTION

ELEVATION

PLAN VIEW
UPPER TIER

PLAN



MODEL: ASV-1250-1620-EXT
AIR VOLUME:
Supply 2.321 M³/S @ 267 pa Ext. (Total: 680 pa)
Extract 2.851 M³/S @ 464 pa Ext. (Total: 684 pa)
SFP: SUPPLY - 0.55 W/L/S EXTRACT - 1.44 W/L/S
BASED ON CLEAN FILTER CONDITIONS

FILTERS	GRADE	SIZE & QTY	GAUGE
Extract	Grease Filter	3 off 2455 3 off 2456	P.D. Switch
Supply	F7 Bag	2 off 2735 2 off 2755 2 off 2756	P.D. Switch

CARBON FILTER:

DWELL TIME: 0.1 sec

RA COIL: **HW-ST-2.5-1350-1050-7R-30-S-Cu**

AIR TEMP: ON: 5.0 °C OFF: 12.3 °C Duty: 20.93 kW
LPHW: 14.7/11.4 °C FLOW RATE: 1.58 L/S
PRESSURE DROP: 25 kPa CONN. SIZES: 1 1/4"

RA COIL: **CW-ST-2.5-1350-1050-7R-30-S-Cu**

AIR TEMP: ON: 20.0/13.7 °C OFF: 14.0/11.3 °C Duty: 20.93 kW
LPHW: 11.4/14.7 °C FLOW RATE: 1.58 L/S
PRESSURE DROP: 25 kPa CONN. SIZES: 1 1/4"

COOLING COIL: **DX-ST-2.5-1100-850-2R-11-S-Cu**

AIR TEMP: ON: 28/20 °C OFF: 20.5/17.3 °C
R410A: EVAP@ 6.0 °C STAGES: 2
CONN. SIZES: 5/8" INLET x 7/8" OUTLET Duty: 24.00 kW

ELECTRIC HEATER:

DUTY: 30KW AIR ON: -5 °C OFF: 5 °C
Elec. Supply: 400v/3ph/50Hz HI TEMP. STAT FITTED
CONTROL: THYRISTOR (BY AIRSOURCE)

Fan run on required to dissipate heat from elec. heater.
Velocity must be maintained over electric heater to
prevent elements from burning out (BY AIRSOURCE)

Supply Fan: **Model: ER56C 114735/A01**

Motor: Speed: 1295 rpm
Set Value: 74%
Voltage: 7.4 v
Electrical Supply: 400v/3ph/50Hz
Speed Control: 0-10v (RM-ECi)
AV Mounts: **Large Rubber**

Freq. Hz	63	125	250	500	1K	2K	4K	8K
Fan Intake dB	65	77	74	71	67	66	63	58
Fan Outlet dB	70	80	77	78	75	71	67	63

Extract Fan: **Model: 50JM.BIF(200)/20/2/6/24**

Motor: Rating: 4 Kw Speed: 2950 rpm
FLC: 7.72 A
Electrical Supply: 400v/3ph/50Hz
AV Mounts: **Rubber**

Freq. Hz	63	125	250	500	1K	2K	4K	8K
Fan Intake dB	98	96	100	100	93	93	87	84
Fan Outlet dB	96	98	102	98	95	94	88	85

PROJECT: MONEYPENNY, WREXHAM
AHU REF: AHU No. 3 - KITCHEN

CUSTOMER: LAREWOOD

Drawing Number: C1643-3 rev.3 Date: 08/10/15

DRAWN BY: C. LEWIN Scale: 1:30 (A3)

Revision: 3 Date: 20/11/15 Description: Pressures/fan details updated