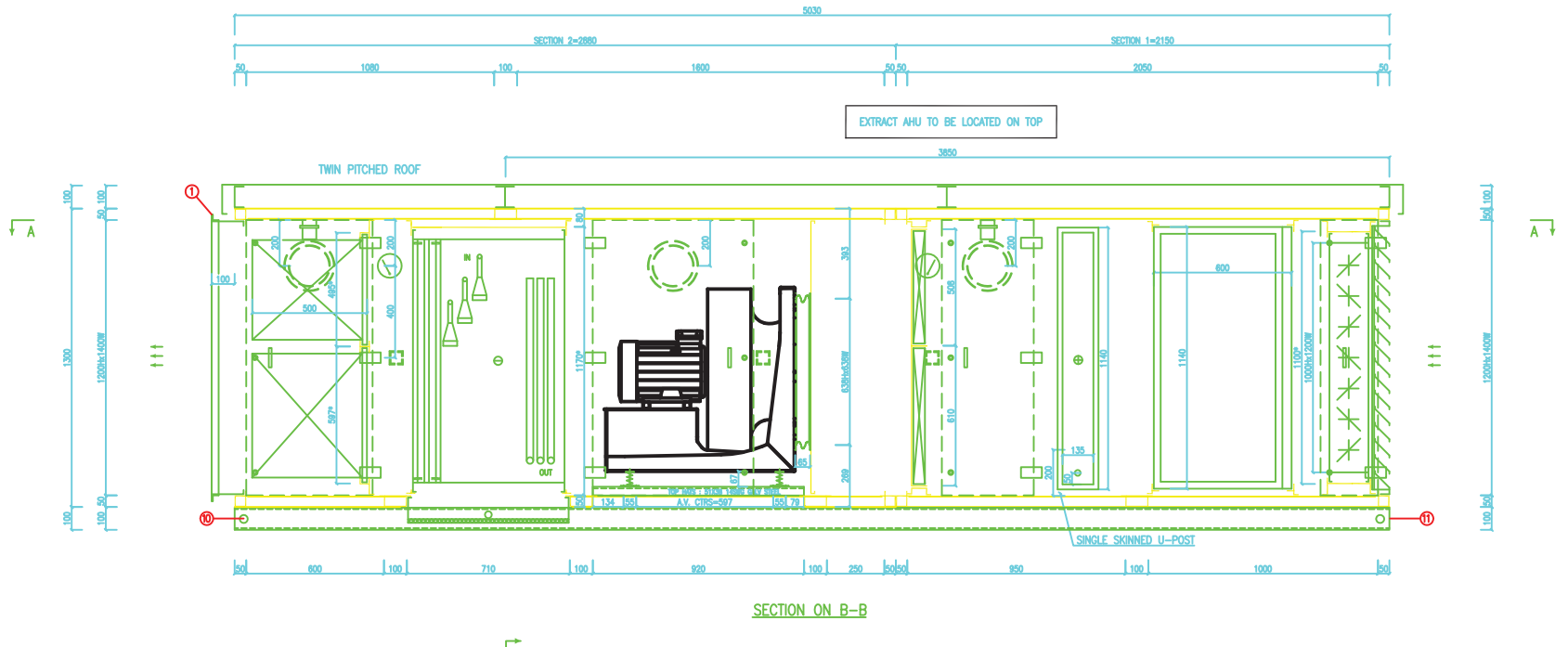
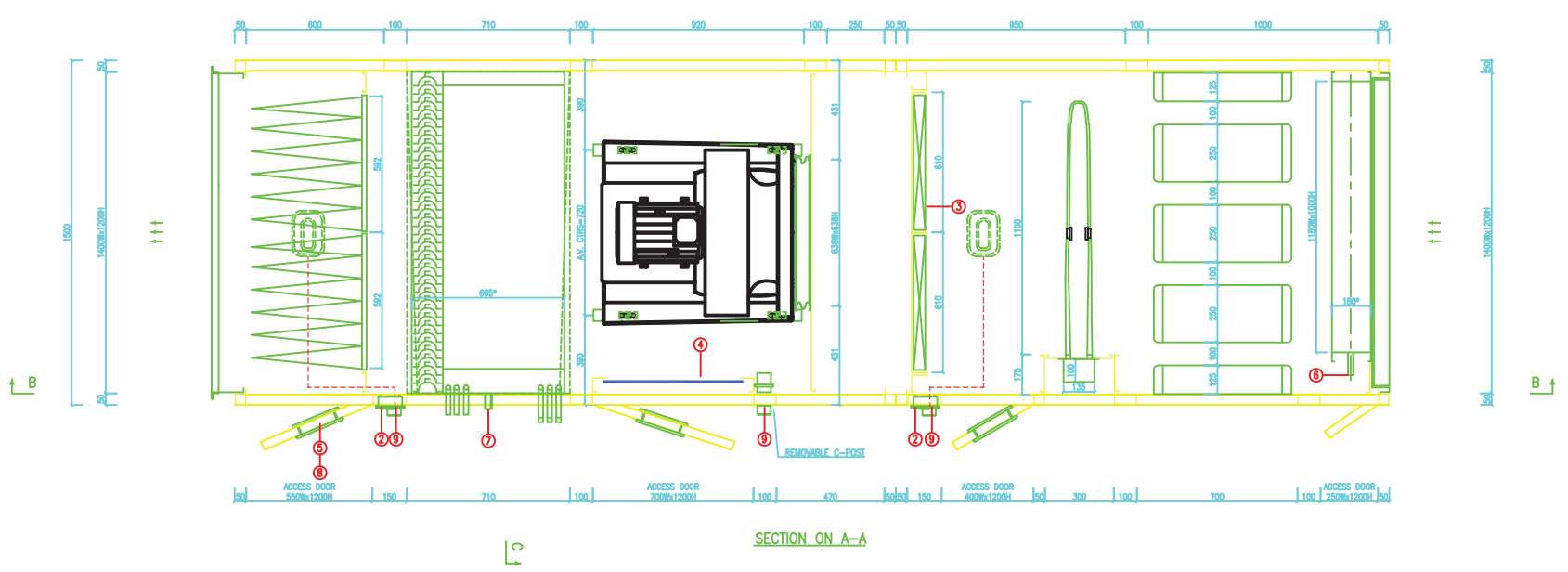
Key :

①	AHU CONNECTION MANUFACTURED FROM 30mm MEZ.
②	FLUSH MOUNTED 0–300Pa MINIHELIC GAUGE C/W FIXING KIT PART No. : 2–5000–300
③	FILTER REMOVAL FRONT WITHDRAWAL.
④	WIREMESH DOOR GUARD.
⑤	FILTER REMOVAL SIDE WITHDRAWAL.
⑥	AIR TIGHT SHUT OFF DAMPER MOTORISED BY OTHERS.
⑦	FIXED DRAIN TRAY MANUFACTURED FROM STAINLESS STEEL. AHS DRG. NO. : DP–1
⑧	DOUBLE GLAZED Ø215mm VIEWING WINDOW. KIT PART No. OBP35PORTH
⑨	BULKHEAD LIGHT PREWIRED TO AN EXTERNAL IP 66 SWITCH. INSTALLATION TO COMPLY WITH BS7671 IEE REGULATIONS. KIT PART No. : LIGHT–2
⑩	Ø 35mm SHACKLE LIFTING POINT.
⑪	BASE MANUFACTURED FROM 100x50MM R.S.C TOE FACING INWARDS, SHOT BLASTED & PRIMER PAINTED.

Additional Notes :

A	AHU FRAMEWORK (UNLESS STATED OTHERWISE) TO BE MANUFACTURED FROM 16SWG GALV. STEEL PENTAPOST CONSTRUCTION & INSULATED WITH 50mm ROCKWOOL.
B	AHU FIXED PANELS AND ACCESS DOORS TO BE 50mm NOMINAL THICK AND MANUFACTURED FROM 22SWG GALV. STEEL INNER & PLASTISOL OUTER. ALL FIXED PANELS TO BE SECURED WITH DRILL SCREWS EXTERNAL TO AHU.
C	HINGED TYPE ACCESS DOORS TO BE FITTED WITH ONE HANDLE, THREE HINGES & THREE CATCHES.
D	AHU TO BE MANUFCTURED IN ACCORDANCE WITH HEVAC DW144 CLASS B : 1000Pa.
E	AHU PAINT FINISH CODE : NCP/S2.
F	SPECIFIC FAN POWER : 1.49w/l/s





Supply Specification Notes :

UNIT WEIGHT AND FINISH

FRAME : BS 10 A 05 GOOSEWING GREY PAINTED.
PANELS : BS 10 A 05 GOOSEWING GREY PLASTISOL – FOAM FILLED.

UNIT SUPPLIED TO SITE IN ONE SECTION.

UNIT APPROX. TOTAL WEIGHT 1493KGS

ATTENUATOR SECTION

TYPE	: UNIT MOUNTED		MELINEX LINED	: NO					
INSERTION LOSS	63	125	250	500	1K	2K	4K	8K	(Hz)
	3	7	11	17	29	25	21	14	(dB)

HEATER SECTION

LOADING	: 68.73 kW	NO. OF STAGES	: 1
ELEMENT TYPE	: INCOLOY	ELECTRICAL SUPPLY	: 415V 3Ph 50Hz
AIR ON	: –5.0 °C	AIR OFF	: 12.0 °C

SUITABLE FOR THYRISTOR CONTROL.
ALL WIRING / INCOMING POWER SUPPLY & ISOLATOR BY OTHERS.

FILTER SECTION

GRADE & TYPE	: G4 PANEL		
QUANTITY & SIZE	: 2@610x610x50	QUANTITY & SIZE	: 2@610x508x50
PART NO.	: PP24242NOM	PART NO.	: PP24122NOM
CLEAN CONDITION	: 25Pa		
DIRTY CONDITION	: 100Pa	SPARE MEDIA SET	: 0

FAN SECTION

TYPE	: SUPPLY	EXT. STATIC PRESS.	: 750 Pa
AIR VOLUME	: 3.321 m³/s	TOT. STATIC PRESS.	: 1164 Pa
FAN SIZE	: NPA560	MOTOR POWER	: 7.5 kW
BLADE TYPE	: BACKWARD	MOTOR SPEED	: 1450 R.P.M.
FAN SPEED	: 1683 R.P.M.	FRAME SIZE	: 132M
ABSORBED POWER	: 5.43 kW	FULL LOAD CURRENT	: 14.5 Amps
EFFICIENCY	: 71.1 %	STARTING CURRENT	: –
		METHOD OF START	: INVERTER
		ELECTRICAL SUPPLY	: 415V 3Ph 50Hz

SOUND SPECTRUM	63	125	250	500	1K	2K	4K	8K	(Hz)
FAN INLET	86	80	89	77	76	73	69	65	(dB)
FAN OUTLET	88	81	90	87	86	81	77	74	(dB)

INVERTER TO OPERATE @ 58Hz

COIL SECTION

COIL MODEL	: P40–16 ED 6R–26T–1163A–2.5Pa		
MEDIUM	: R410A		
AIR ON	: 32.0 °C	DUTY	: 131.79 kW
RELATIVE HUMID.	: 42.0 %	CIRC. LOAD	: 43.93 kW
AIR OFF	: 11.5 °C	EVAP. TEMPERATURE	: 6.0 °C
RELATIVE HUMID.	: 94.0 %	PRESSURE DROP	: 41.8 kPa
FACE VELOCITY	: 2.7 m/s	NO. OF CIRCUITS	: 3
AIR PRESS. DROP	: 165 Pa	HOT GAS BYPASS	: NONE
SENS. HEAT RATIO	: 0.65		
TUBE MATERIAL	: COPPER	GAS INLET CONN.	: TBC mm
FIN MATERIAL	: ALUMINIUM	SUCT. OUTLET CONN.	: 35 mm

FILTER SECTION

GRADE & TYPE	: F8/9 BAG		
QUANTITY & SIZE	: 2@610x610x500	QUANTITY & SIZE	: 2@610x508x500
PART NO.	: 2@606050AW	PART NO.	: 2@605050AW
CLEAN CONDITION	: 98Pa		
DIRTY CONDITION	: 200Pa	SPARE MEDIA SET	: 0

Rev	Description	Date
R1	LOCATION OF EXTRACT AHU NOW SHOWN ON DRG. ROOF LAYOUT REVISED.	05/07/13

Client: CLEAN ROOM CONSTRUCTION LTD

Project: QIAGEN MANCHERSTER

Unit Reference: SUPPLY AHU

Date: 03–07–13 | Scale: N.T.S. | Drn: S.Y.

AIR HANDLING SYSTEMS LTD.

3 – 5 FURNACE INDUSTRIAL ESTATE
SHILDON, COUNTY DURHAM. DL4 1QB

TEL No:+44 (0) 1388 776287 E–MAIL: general@ahs.uk.com
FAX No:+44 (0) 1388 775494 WEB SITE : www.ahs.uk.com

Drawing Number: 2070–12076–1 R1

COPYRIGHT : This document is the property of Air Handling Systems Limited and is loaned only upon condition that it is not to be copied or reproduced nor to be used for furnishing information to others or any other purpose detrimental to the interest of Air Handling Systems Limited.

A.H.S. Reference No: 12076