Supply Specification Notes:

FILTER SECTION

GRADE & TYPE	:F7 COMPACT FILTER		
QUANTITY & SIZE	:3Ø610X610X50	QUANTITY & SIZE	:3Ø610X305X50
PART NO.	:	PART NO.	:
CLEAN CONDITION	:50Pa		
DIRTY CONDITION	:100Pa	SPARE MEDIA SET	:0

FAN SECTION – 50/50 – data per fan

TYPE	:SUPPLY		EXT. STATIC PRESS.	:300	Pa
AIR VOLUME	:2.9	m^3/s	TOT. STATIC PRESS.	:611	Pa
FAN SIZE	:NPA400				
BLADE TYPE	:BACKWARD		MOTOR POWER	:3.0	kW
FAN SPEED	:1864	R.P.M.	MOTOR SPEED	:1440	R.P.M.
ABSORBED POWER	:1.36	kW	FRAME SIZE	:100L	
EFFICIENCY	:79.0	%	FULL LOAD CURRENT	:6.33	Amps
			STARTING CURRENT	:–	
			METHOD OF START	:INVERTER	
			ELECTRICAL SUPPLY	:400V 3Ph 50Hz	

SOUND SPECTRUM	63	125	250	500	1K	2K	4K	8K	(Hz)
FAN INLET	75	75	81	76	72	71	70	65	(dB)
FAN OUTLET	85	82	83	78	78	75	73	71	(dB)

INVERTER TO OPERATE @ : 64.72Hz

* NOTE: THE FAN MANUFACTURERS NOISE DATA WE HAVE DECLARED IS TESTED IN ACCORDANCE WITH DIN 463 PART 38 & 39, BS848 PART 2 & ISO 5136. IN ORDER TO ALLOW FOR THE EFFECTS IF INSTALLING A FAN IN AN AHU SECTION. APPLY A CORRECTION OF +6dB ACROSS THE SPECTRUM FROM 63Hz TO 8KHz

COIL SECTION

MODEL & PART No. :4C-0940-18SP932
MEDIUM :LOW PRESSURE HOT WATER

AIR ON	:-5.0	°C	FLOW RATE	:1.56	l/s
AIR OFF	:14.7	°C	WATER IN	:16.5	°C
FACE VELOCITY	:1.89	m/s	WATER OUT	:6.0	°C
AIR PRESS. DROP	:74.0	Pa	WATER PRESS. DROP	:36.81	kPa
DUTY	:68.9	kW	FLUID CONTENT	:51.77	Litres
TUBE MATERIAL	:COPPER		INLET CONNECTION	:1x1 1/2"B.S.P.	
FIN MATERIAL	:ALUMINIUM		OUTLET CONNECTION	:1x1 1/2"B.S.P.	

COIL SECTION

MODEL & PART No. :P40-16 AR 7R-23T-1595A-3.0Pa Cu/Aluver
MEDIUM :CHILLED WATER

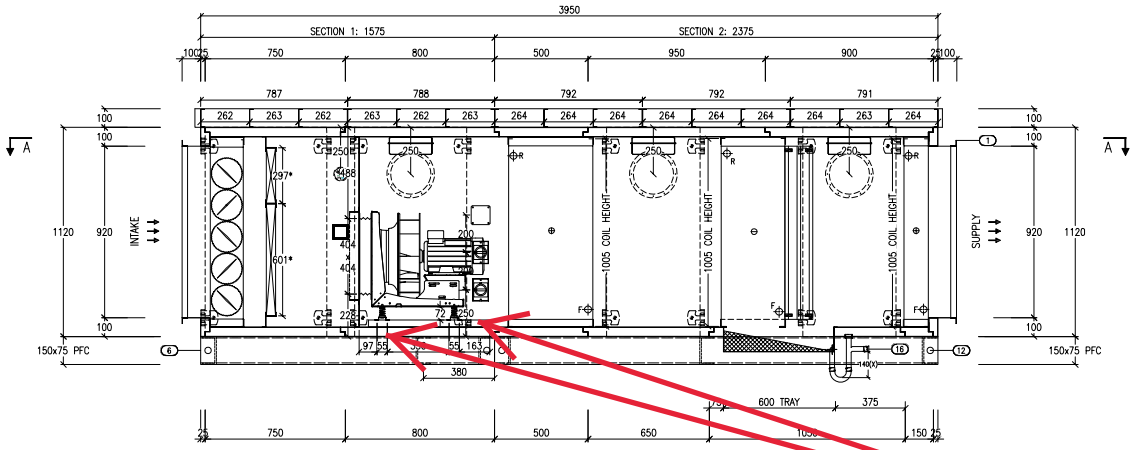
AIR ON	:30.0	°C	FLOW RATE	:3.58	l/s
RELATIVE HUMIDITY	:50.0	%	WATER IN	:7.0	°C
AIR OFF	:14.0	°C	WATER OUT	:13.0	°C
RELATIVE HUMIDITY	:99.0	%	WATER PRESS. DROP	:8.9	kPa
SENS. HEAT RATIO	:0.649		AIR PRESS. DROP	:107.0	Pa
FACE VELOCITY	:2.0	m/s	FLUID CONTENT	:62.1	Litres
DUTY	:90.24	kW			
TUBE MATERIAL	:COPPER		INLET CONNECTION	:1x2 1/2"B.S.P.	
FIN MATERIAL	:ALUVER		OUTLET CONNECTION	:1x2 1/2"B.S.P.	

COIL SECTION

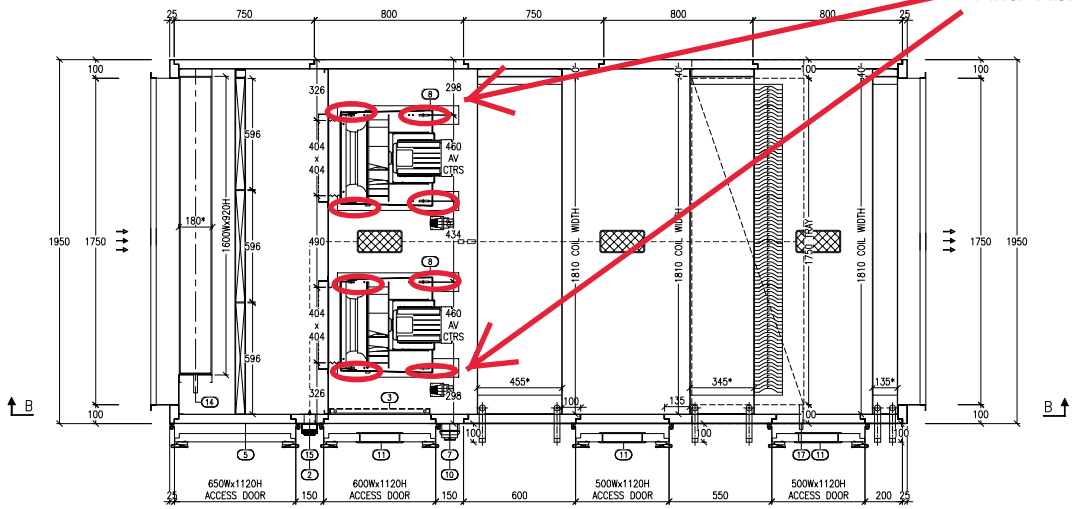
MODEL & PART No. :P40-16 AC 1R-23T-1625A-2.5Pa Cu/Cu
MEDIUM :LOW PRESSURE HOT WATER

AIR ON	:10.0	°C	FLOW RATE	:0.95	l/s
AIR OFF	:21.0	°C	WATER IN	:50.0	°C
FACE VELOCITY	:1.9	m/s	WATER OUT	:40.0	°C
AIR PRESS. DROP	:17.0	Pa	WATER PRESS. DROP	:7.2	kPa
DUTY	:39.26	kW	FLUID CONTENT	:10.5	Litres
TUBE MATERIAL	:COPPER		INLET CONNECTION	:1x1 1/4"B.S.P.	
FIN MATERIAL	:COPPER		OUTLET CONNECTION	:1x1 1/4"B.S.P.	

SFP int - 86.87 W/(m^3/s)
SFP_V - 1.06 W/l/s
SFP_E - – W/l/s



SECTION ON B–B



SECTION ON A–A

Anti Vibration Mounts

CONSTRUCTION & FINISH

- MODEL TYPE : FRAMELESS CONTSTRUCTION
- OUTER PANEL : HDX GRANITE ANTHRACITE
- INNER PANEL : WHITE ENAMEL
- PANEL INFILL TYPE : FOAM (45Kg/m3)
- DOOR HINGE TYPE : UNIVERSAL COMPRESSION HINGE (SC = SAFETY CATCH FITTED)
- PAINT CODE : NCP/S2 – BASE/LEG COLOUR : MATT BLACK
- HDX GRANITE ANTHRACITE STEEL ROOF FITTED (TWIN PITCHED TYPE)

UNIT WEIGHT & DIMENSIONS

- AHU SUPPLIED TO SITE IN : TWO SECTIONS — AHU LOCATION : EXTERNAL UNIT

SECTIONS	SIZE (WxHxL – mm)	WEIGHT (Kgs)
1	1950x1370x1675	728
2	1950x1370x2475	834

- SIZES EXCLUDE COIL CONNECTIONS AND ELECTRICAL COMPONENTS
- FACTORY ASSEMBLED SECTIONS TO BE FIXED TOGETHER AND BASE STEELS FIXED TO UNIT FRAME
- PLEASE REFER TO OFFICE FOR FURTHER DETAILS

- UNIT APPROX. TOTAL WEIGHT : 1562Kgs (+/– 10%)

1	AHU CONNECTION MANUFACTURED FROM 30mm GALVANISED STEEL MEZ FLANGE
2	FLUSH MOUNTED 0–250 Pa PRESSURE GAUGE & FIXING – PART No : PC-DPG2-5000-250
3	SUPPLY FAN WIREMESH DOOR GUARD : 550mm X 1015mm (WxH)
5	FILTER WITHDRAWAL TYPE : SIDE WITHDRAWAL
6	BASE MATERIAL : 150x75 P.F.C – FULL PERIMETER
7	FOR MOTOR WIRED TO ISOLATOR ONLY – AHU MOTOR PREWIRED TO AN IP66 EXTERNAL ISOLATOR, INSTALLATION TO COMPLY WITH BS7671 IET REGULATIONS – CABLE TYPE: SY (STANDARD)
8	FAN TOPHATS REQUIRED (SUPPLY) – 100mm Wide x 38mm High 14 Gauge
10	MOTOR THERMISTOR WIRED : TO EXTERNAL JUNCTION BOX – KIT PART : EC-GW44205
11	ø215mm POLYCARBONATE VIEWPORT : KIT PART – PCDBP035
12	LIFTING METHOD : ø35mm SHACKLE LIFTING POINT
14	LOW LOSS GALVANISED STEEL OPPOSED BLADE DAMPER CONTROL: MOTORISED BY OTHERS
15	BULKHEAD LIGHTS PREWIRED TO A COMMON EXTERNAL IP66 SWITCH PER UNIT, INSTALLATION TO COMPLY WITH BS7671 IET REGULATIONS. LIGHT : GLS (LED TYPE) PART No : EC-LED5.5W CABLE : SY (STANDARD)
16	DRAIN TRAP : POSITIVE TRAP REQUIRED – SUPPLIED BY OTHERS DRAIN TRAP SEAL (X) = 140mm DRAIN TRAP DOES EXCEED BASE DIMENSIONS – SITE MODIFICATION MAY BE REQUIRED
17	FIXED TRAY MATERIAL : 20 SWG 316L 2B STAINLESS STEEL DRAIN CONNECTION TYPE : 3/4" BSP STAINLESS STEEL (AHS) TRAY TYPE : HTM 1 (DP2) – STAINLESS TRAY & GALVANISED COVER

MANUFACTURING NOTES

ALL FIXED PANELS SECURED WITH DRILL SCREWS EXTERNAL TO AHU UNLESS SPECIFIED.
AHU MANUFACTURED IN ACCORDANCE WITH HEVAC DW143 CLASS C & BS EN 1886 L1.

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ahs™ innovation through heritage

CLIENT: INTEGRAL UK LTD.
PROJECT: GOSH ITALIAN HOSPITAL
UNIT REF: AHU 2 SOUTH SUPPLY
DRAWN BY: GM | ENG: STEVEN YALE | CHK BY:
DRAWING NUMBER: **4010-17875-3** | REV: -
SCALE: 1:15 @ A1 | DATE: 08/05/19

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FIRST ANGLE PROJECTION

SITE INSTALLATION NOTES

- FOR REMOVAL OF SINGLE PIECE COILS CLEARANCE REQUIRED SHOULD EQUAL OR BE GREATER THAN THE WIDTH OF THE AHU. SPLIT COILS REQUIRE HALF AHU WIDTH.
- FOR REMOVAL OF ANY FILTER MEDIA CLEARANCE REQUIRED WILL BE 650mm MINIMUM.
- ALL DUCTWORK MUST BE SELF SUPPORTED TO ENSURE NO LOADS ARE IMPOSED ON THE AHU CONNECTIONS.
- ANY CABLE/ PIPE PANEL PENETRATIONS MUST BE SEALED APPROPRIATELY AFTER CORRECTLY SIZED GLAND PLATES HAVE BEEN FITTED.
- TO AVOID DAMAGE TO PIPE CONNECTIONS PLEASE ENSURE NO WEIGHT IS APPLIED WHEN CONNECTING TO SERVICES.
- HIGH LEVEL ACCESS EQUIPMENT TO BE SUPPLIED BY OTHERS.
- IT IS THE RESPONSIBILITY OF OTHERS TO ENSURE THAT ANY EXTERNALLY MOUNTED FIELD DEVICES EITHER SUPPLIED BY AHS OR OTHERS ARE FULLY WEATHER PROTECTED.
- ELECTRICAL CABLE ENTRY TO ELECTRIC HEATER TO BE BY OTHERS AND SHOULD UTILISE A WEATHERPROOF GLANDED ADAPTABLE BOX.
- WHERE ISOLATORS, JUNCTION BOXES OR LIGHT SWITCHES ARE INSTALLED ON THE SIDE OF AN AIR HANDLING UNIT CASING AND FAN REMOVAL IS REQUIRED, IT IS ESSENTIAL THAT ALL POWER SUPPLIES INSTALLED BY OTHERS ARE PROVIDED IN FLEXIBLE CONDUIT TO ALLOW FOR THE CASING & PANEL REMOVAL.
- UNIT MUST BE INSTALLED ON A FLAT LEVEL SURFACE OR PLATFORM, FAILURE TO DO SO MAY INVALIDATE WARRANTY.

BASE STEELS

CHANNEL TO SIT 20mm INBOARD FROM OUTSIDE EDGE OF PANEL

SPARES OR LOOSE ITEMS FOR THIS AHU:

SPARES SUPPLIED WITH AHU	COMPONENTS SUPPLIED LOOSE WITH AHU
- –	INVERTER – 3KW
- –	- –
- –	- –
- –	- –
- –	- –
- –	- –
- –	- –
- –	- –

REVISION	DATE	AMENDMENT	CAD INTIALS