

Project: Quotation Reference: Date:	Royal Free Hospital Q10201 22 Nov 2018			
Customer Unit Reference	AHU-1	Serving	AHU 01 Supply	
Unit Reference	Q10201-01-2			
Model Reference	Non-standard			
AHU Details				
Design Supply Air Volume	0.4	m³/s		
External Static Pressure	300	Pa		
Unit Velocity	0.69	m/s		
Energy Use				
	Supply on Clean Filters		Overall	
Specific Fan Power	0.90		0.89	kW/(m <sup>3</sup> /s)
AHU Construction			Construction	
Framework	40 mm		Unit Location	External
Framework Coating	Anodized		Weather Roof	MICA Duo Pitch Roof
Panel Depth	25 mm		Baseframe	100 x 50 PFC
External Panel Finish	GWG Plastisol 0.9mm		Leakage Class	L3
Internal Panel Finsh	Galv Sheet 0.9mm			-
Panel Insulation	Mineral Wool 25mm			
Overall Unit Dimensions				
	Length	Width	Height	Weight (Per Unit)
	7570 mm	1140 mm	630 mm	1340 kg
Section Weights and Dime	ensions			
Section No.	Length	Width	Height	Weight Approx +/-5%
A	1980 mm	1140 mm	630 mm	313 kg
В	1400 mm	1140 mm	630 mm	236 kg
С	1100 mm	1140 mm	630 mm	219 kg
D	1420 mm	1140 mm	630 mm	290 kg
E	1670 mm	1140 mm	630 mm	283 kg
Attenuator			Construction	
Туре	AHU Mounted		Splitter Thickness	200 mm
Airway Velocity	2.08	m/sec	Length of Splitter	600 mm
Air PD	2.00	Pa	Splitter Insulation	Mineral Wool
Air way	100.00	mm	Splitter Face	Full Length - Standard
Size H X W	550.00x1060.00	mm		<b>J</b>
Accessories				
	a resultant noise level within	n the space - Acoustic analysi	s to be carried out by others	
			-	
Inlet Section	Damper		Construction	Aluminium EN AW6060 T6
Component	Damper	Do	Casing	
Air Pressure Drop	0.00	Ра	Control	Extended Spindle
Accessories				
Damper actuators to be prov	vided and fitted by others.			

Traffolyte Component label

Heating Coil			Construction	
Air On / Off	-5.00/12.0	°C/°C	Casing Material	Stainless Steel 304
Duty	8.24	kW	Tube Material	Copper
Water(Inlet)/(Outlet)	82.00/71.00	°C/°C	Fin Material	No Fins
Water PD	9	kPa	Connection Size	1 x 3/4"(F) / 1 x 3/4"(R)
Water Flow Rate	0.18	L/s		
Air Pressure Drop	3.00	Pa		

#### Accessories

Valve and actuator to be supplied and fitted by others Traffolyte Component label



Ventilation Equipment Ltd				
Project:	Royal Free Hospital Q10201			
Quotation Reference: Date:	Q10201 22 Nov 2018			
	AHU-1	Serving	AHU 01 Supply	
Unit Reference	Q10201-01-2			
Model Reference	Non-standard			
Plenum Section				
Length	500	mm		
Access Side	Right			
Accessories				
Access Porthole Fitted				
Traffolyte label - Access Factory fitted IP44 Internal bu Factory fitted viewport	ulkhead light (60W) wired to	o an IP66 external switch		
Panel Filter			Construction	
Clean PD	59	Ра	Grade	Coarse 70%(ISO16890)
Mean	104	Pa	Media	Card Frame-Cotton/Synthetic M
Recommended dirty	150	Pa	Withdrawal	Front
			Size 1 / Qty	1 x 595 x 295 x 47 mm
Accessories				
Access Porthole Fitted Factory fitted Dwyer Minihelic Traffolyte Component label	c gauge (Range 0-250 Pa)			
Supply Fan - Dual Fan (100	J%-100%)		Construction	
Design Air Volume	0.4	m³/s	Impeller	Backward Curve
Total Fan Resistance	701	Pa	Internal Isolation	Rubber
Fan Speed	2303	r/min		
Frequency @ Design Speed	31.64	Hz		
Max Frequency	50.0	Hz		
Maximum Fan Speed	3640	r/min		
Efficiency	49.01	%		
Motor Data			Construction	
FLC	3.20	Amps	Туре	EC
Total Input Power	0.57	kW	- 7) -	
Motor Power	2.50	kW		
Motor Speed	3640	r/min		
Electrical Supply	400/3/50.00			
Accessories				
Access Porthole Fitted				
Fan Healthy Contacts (For int	-togration in to the controls	- intern)		
Removable wire mesh guard	-			
Factory fitted IP44 Internal bu				
Factory fitted IP44 Internal bu		) an ipou externar owner.		
Traffolyte Component label				
Motor details above are per fa	fon (whore multiple fans ha	wa haan calacted)		
Inlet Flexible Connection	an (where multiple rand have	/e Deell Selected		
Factory Fitted Inlet Guard				
Backdraft Damper will be fitte	end to fan			
		rated isolator and IP54 termin	nal box with integral speed pote	entiometer. Terminals for BMS conne
Heating Coil			Construction	
Air On / Off	5.00/12.1	°C/°C	Casing Material	lnox 304 1.5 mm

Heating Coll			Construction	
Air On / Off	5.00/12.1	°C/°C	Casing Material	Inox 304 1.5 mm
Duty	3.44	kW	Tube Material	CU
Water(Inlet)/(Outlet)	14.00/10.80	°C/°C	Fin Material	CU-0.10
Water PD	11.07	kPa	Connection Size	1 x 3/4"(F) / 1 x 3/4"(R)
Water Flow Rate	0.28	L/s		
Air Pressure Drop	30.00	Pa		



Unit Reference         Q1201-01-2           Model Reference         Non-standard           Accessorie         Run around coll selection compliant to ERP2018 (Ecodesign directive 1253/2014)           Run around coll selection to be supplied and fitted by others.         Valve and acculator to be supplied and fitted by others.           Valve and sculator to be supplied and fitted by others.         Valve and sculator to be supplied and fitted by others.           Valve and sculator to be supplied and fitted by others.         Valve and sculator to be supplied and fitted by others.           Valve and sculator to be supplied and fitted by others.         Valve and sculator to be supplied and fitted by others.           Plantm Socton         Image: Supplied and installed by others.           Ength         500         mm           Access Softiole Fitted         Right         Image: Supplied and sculators in the supplicator sculator s	Project: Quotation Reference: Date:	Royal Free Hospital Q10201 22 Nov 2018			
Run around coil parp and inter-connecting pipework designed, supplied and installed by others.         Wate and actuation to be supplied and difted by others.         Value and actuation to be supplied and difted by others.         Value and actuation to be supplied and difted by others.         Value and actuation to be supplied and difted by others.         Value and actuation to be supplied and difted by others.         Value and titled by others.         Value and actuation to be supplied and difted by others.         Value and titled by others.         Value and actuation to be supplied theread light (60W) wired to an IP66 external switch         Construction	Customer Unit Reference Unit Reference Model Reference	Q10201-01-2	Serving	AHU 01 Supply	
Runaround coil gurup and fitted by others. Valve and actuation to be supplied and fitted by others. Valve and actuation to be supplied and fitted by others. Perum Section Iorg 1 500 mm Access Side Right Accessors Accesors Accessors Accessors Accessor Accessor Acces	Accessories				
Length       500       mm         Access Side       Right	Runaround coil pump and in	ter-connecting pipework de	-		
Access Side       Right         Access Porthole Fild       Access Porthole Fild       Statistical Stat	Plenum Section				
Access Porthole Fitted Traffolyle label - Access Traffolyle label - Access Access Porthole Fitted Traffolyle label - Access Access Porthole Fitted Viewport Pactory fitted Viewport Ar On (dbwb) 30.0020.00 °C/°C Casing Material Conjection Air Oft (dbwb) 8.0'15.8 °C/°C Tube Material Conjection Refrigerant Refri	Length	500	mm		
Access Porthole Fitted         Traffolyte label - Access         Factory fitted Velvead light (60W) wired to an IP66 external switch         Factory fitted Velvead I       Construction         Datory fitted Velvead I         On Colspan="2">Construction         Construction         Colspan="2">Construction         Construction         Construction <td>Access Side</td> <td>Right</td> <td></td> <td></td> <td></td>	Access Side	Right			
Traficipite label - Access         Factory fitted 'P44 Internal bulkhead light (60W) wired be sternal switch's sternal sternal switch's sternal sw	Accessories				
Air On (db/wb)30.00/20.00°C/°CCasing MaterialStainless Steel 304Air Of (db/wb)18.015.8.°C/°CTube MaterialCopperDuty6.27KWFin MaterialCopper/PreTinnedRefrigerantR410aConnection Size1 x 1 x 5/8'(F) / 1 x 1 x 5/8'(F)Refrigerant PD17KPaEliminatorsnot needed - Not Incl.Evaporating Temp6.0°CDrain Tray4 S Steel Removable draintraAir Presure Drop0.0PaSteel Removable draintraAccessories	Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport	ulkhead light (60W) wired to	o an IP66 external switch		
Air On (db/wb)30.00/20.00°C/°CCasing MaterialStainless Steel 304Air Of (db/wb)18.015.8.°C/°CTube MaterialCopperDuty6.27KWFin MaterialCopper/PreTinnedRefrigerantR410aConnection Size1 x 1 x 5/8'(F) / 1 x 1 x 5/8'(F)Refrigerant PD17KPaEliminatorsnot needed - Not Incl.Evaporating Temp6.0°CDrain Tray4 S Steel Removable draintraAir Presure Drop0.0PaSteel Removable draintraAccessories	DX Cooling Coil			Construction	
Air Off (db/wb)18.0/15.8°C°CTube MaterialCopperDuty6.27WWFindaterialCopper/PeTinnedRefrigerant PD17kPaEliminatorsnot needed - Not Incl.Refrigerant PD17kPaDrain Tray4 S Steel Removable draintraFace Velocity1.09m/sSteel Removable draintraAir Pressure Drop6.00PaVersion Size4 S Steel Removable draintraConstruction of the second secon	-	30.00/20.00	°C/°C		Stainless Steel 304
Duty6.27kWFin MaterialCopper/PreTinnedRefrigerantR410a<				Ũ	
Refrigerant Refrigerant PDR410aConnection Size I x 1 x 5/8°(F) / 1 x 1 x 5/8°(F) rot needed - Not Incl.Refrigerant PD17KPaEliminators ont needed - Not Incl.Supporting Temp6.0°COrain Tray4 S Steel Removable driaintraFace Velocity1.09m/sSteel Removable driaintraAir Pressure Drop6.00PaSteel Removable driaintraAccessoriesDX coil supplied with capped and a small nitrogen traffigher coin only - design approval required)10 (one) Circuit DX R410A Colling / Heating CoilHeating cycle dury: 3.9Internal Volume: 3.1 litresCeressoriesAccessoriesAccessoriesHeating cycle dury: 3.9Internal Volume: 3.1 litresLengthSolopAccessoriesAccessoriesAccessoriesFactory fitted IP44 Internal bulk (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulk (60W) wired to an IP66 external switch Factory fitted IP44 Internal LightAccessoriesConstructionConstructionPaGardePAMediaAlton PaMediaAlton PaMediaAlton PaMedia <td< td=""><td></td><td></td><td></td><td>Fin Material</td><td></td></td<>				Fin Material	
Refrigerant PD17kPaEliminatorsnot needed - Not Incl.Evaporating Temp6.0°CDrain Tray4 S Steel Removable draintraFace Velocity1.09m/sAir Pressure Drop6.00PaAccessoriesVersion Steel Cel Heat S and a small nitrogen Carl refrigeration components and works by others.Traffolyte Component labelSteel Removable draintraCoil is selected for uses as a severse Cycle Heat Pump (Initial selection only - design approval required)Initial Steel Removable draintraI (One) Circuit DX R410A Cooling / Heating CoilHeating cycle air off: 20°Initial Steel Removable draintraHeating cycle air off: 20°Heating Coiling / Heating CoilInitial Steel Removable draintraPlenum SectionCheck to ensure Condensers selected match with the above DX CoilAccessoriesAccessoriesAccessoriesAccessoriesAccessoriesFactory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted viewportFactory fitted viewportConstructionAccessoriesFactory fitted viewportFactory fitted viewportColspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan=16"AccessoriesFactory fitted viewportFactory fitted viewportColspan="5">Colspan="5">Colspan=16"	•				
Evaporating Temp       6.0       °C       Drain Tray       4 S Steel Removable draintra         Face Velocity       1.09       m/s       Steel Removable draintra         Air Pressure Drop       6.00       Pa       Steel Removable draintra         Accessories	-		kPa		
Face Velocity       1.09       m/s         Air Pressure Drop       6.00       Pa         Accessories       DX coil supplied with capped ends and a small nitrogen charge. All refrigeration components and works by others. Traffolyte Component label       Coll is selected for use as a Reverse Cycle Heat Pump (Initial selection only - design approval required)         1 (One) Circuit DX R410A Cooling / Heating Coil       Heating cycle air on: 12°C         Heating cycle air of: 20°C       Heating Coil is selected match with the above DX Coil         Plenum Section       Second match with the above DX Coil         Plenum Section       Non         Length       500         Accessories       Right         Accessories       Accessories         Accessories       Right         Accessories       Accessories         Accessories       Accessories         Right Prace       Construction         Right Iternal bulkhead light (60W) wired to an IP66 external switch         Factory fitted viewport       Grade       ePM 155%(ISO16890)         Mean       121       Pa       Media       ABS Frame/Glass Fibre Media         Recommended dirty       200       Pa       Withdrawal       Front         Size 1 / Qty       1 x492 x592 x 292 mm       Size 1 / Qty       1 x492 x592 x 292 mm <td>-</td> <td></td> <td></td> <td></td> <td></td>	-				
Air Pressure Drop 6.00 Pa   Accessories   DX coil supplied with capped and a small nitrogen charge. All refrigeration components and works by others.   Traffolyte Component label   Coil is selected for use as a kersee Cycle Heat Pump (Initration Selection only - design approval required)   1 (One) Circuit DX R4100 Cooling/ Heating Coil   Heating cycle air on: 12C   Heating			-	Drain may	
Accessories       Accessories       Accessories       Accessories         Coli supplied with capped ands and a small nitrogen charge. All refrigeration components and works by others.       State of the second	,				
DX coil supplied with capped ends and a small nitrogen charge. All refrigeration components and works by others. Traffolyte Component label Coil is selected for use as a Reverse Cycle Heat Pump (Initial selection only - design approval required) 1 (One) Circuit DX R410A Cooling / Heating Coil Heating cycle air off: 20°C Heating cycle air off: 20°C Heating cycle duty: 3.9 Internal Volume: 3.1 litres Check to ensure Condensers selected match with the above DX Coil <b>Plenum Section</b> Length 500 mm Access Side Right <b>Access Porthole Fitted</b> Traffolyte label - Access Pothole Fitted Traffolyte label - Access Foctory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead Ight (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead Ight (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead Ight (60W) wired IP46 Internal Switch Factory fitted IP44 Internal bulkhead Ight (60W) IP46 Internal bulkhead Ight (60W) IP46	Accessories				
Length Access Side500mmAccess SideRightAccessoriesStateAccess Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted viewportStateRigid FilterConstructionClean Pd41Pa121PaMediaRecommended dirty200PaWithdrawal Size 1 / QtyFront Size 1 / QtySize 1 / Qty1 x 492 x 592 x 292 mm	DX coil supplied with capped Traffolyte Component label Coil is selected for use as a 1 (One) Circuit DX R410A C Heating cycle air on: 12'C Heating cycle air off: 20'C Heating cycle duty: 3.9 Internal Volume: 3.1 litres	Reverse Cycle Heat Pump ooling / Heating Coil	(Initial selection only - de		5.
Access SideRightAccesss Porthole Fitted Traffolyte label - Accesss Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted viewportConstructionRigid FilterConstructionClean Pd41PaAlogeePM1 55%(ISO16890)Mean121PaRecommended dirty200PaWithdrawal Size 1 / QtyFront Size 1 / QtyAccess SideRight	Plenum Section				
Accessories         Access Porthole Fitted         Traffolyte label - Access         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted viewport         Rigid Filter       Construction         Clean Pd       41       Pa       Grade       ePM1 55%(ISO16890)         Mean       121       Pa       Media       ABS Frame/Glass Fibre Media         Recommended dirty       200       Pa       Withdrawal       Front         Size 1 / Qty       1 x 492 x 592 x 292 mm       Size 1 / Qty       1 x 492 x 592 x 292 mm	Length	500	mm		
Accesss Porthole Fitted         Traffolyte label - Access         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted viewport         Construction         Clean Pd         41       Pa         Mean       121         Pa       Media         Recommended dirty       200         Pa       Withdrawal         Size 1 / Qty       1 x 492 x 592 x 292 mm	Access Side	Right			
Traffolyte label - Access         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted viewport         Construction         Clean Pd       41       Pa       Grade       ePM1 55%(ISO16890)         Mean       121       Pa       Media       ABS Frame/Glass Fibre Media         Recommended dirty       200       Pa       Withdrawal       Front         Size 1 / Qty       1 x 492 x 592 x 292 mm       Size 1 / Qty       1 x 492 x 592 x 292 mm	Accessories				
Clean Pd41PaGradeePM1 55%(ISO16890)Mean121PaMediaABS Frame/Glass Fibre MediaRecommended dirty200PaWithdrawalFrontSize 1 / Qty1 x 492 x 592 x 292 mmSize 1 / QtySize 1 / Qty	Traffolyte label - Access	ulkhead light (60W) wired to	o an IP66 external switch		
Clean Pd41PaGradeePM1 55%(ISO16890)Mean121PaMediaABS Frame/Glass Fibre MediaRecommended dirty200PaWithdrawalFrontSize 1 / Qty1 x 492 x 592 x 292 mmSize 1 / QtySize 1 / Qty	Pigid Filter			Construction	
Mean       121       Pa       Media       ABS Frame/Glass Fibre Media         Recommended dirty       200       Pa       Withdrawal       Front         Size 1 / Qty       1 x 492 x 592 x 292 mm       Front		44	Do		oDM1 659( (ISO10000)
Recommended dirty     200     Pa     Withdrawal     Front       Size 1 / Qty     1 x 492 x 592 x 292 mm					
Size 1 / Qty 1 x 492 x 592 x 292 mm					
·	Recommended dirty	200	Ра		
	Factory fitted Dwyer Miniheli	ic gauge (Range 0-500 Pa)			

Factory fitted Dwyer Minihelic gauge (Range 0-500 Pa) Traffolyte Component label



Project: Quotation Reference:	Royal Free Hospital Q10201			
Date:	22 Nov 2018			
Customer Unit Reference	AHU-1	Serving	AHU 01 Supply	
Unit Reference	Q10201-01-2			
Model Reference	Non-standard			
Indirect Humidifier			Construction	
Humidification Required	30.40	kg/h	Control	Proportional-MODbus
Duty	26.3	kW		
Drain Pan			Construction	
Size	1060 mm		Material	Stainless Steel
Accessories				
Access Porthole Fitted				
Distributor pipes will be facto	bry fitted.			
Humidifier supplied factory fi	itted to the side of the AHU.			
Humidifier supplied in a Wea	ather-proof enclosure factor	y fitted to the side of the AHU.		
Manufacturers site attendan	ce for commisioning of Hun	nidifier (see additional costs)		
Traffolyte Component label				
Factory fitted IP44 Internal b	ulkhead light (60W) wired t	o an IP66 external switch		
Factory fitted viewport				
Drain Tray			Туре	Standard
			Width	1060 mm
			Material	Stainless Steel
			Connection Side	Right
Outlet Section			Construction	
Component	Damper - Spigot		Casing	Aluminium EN AW6060 T6
Air Pressure Drop	0.00	Ра	Control	Manual
Accessories				

#### Accessories

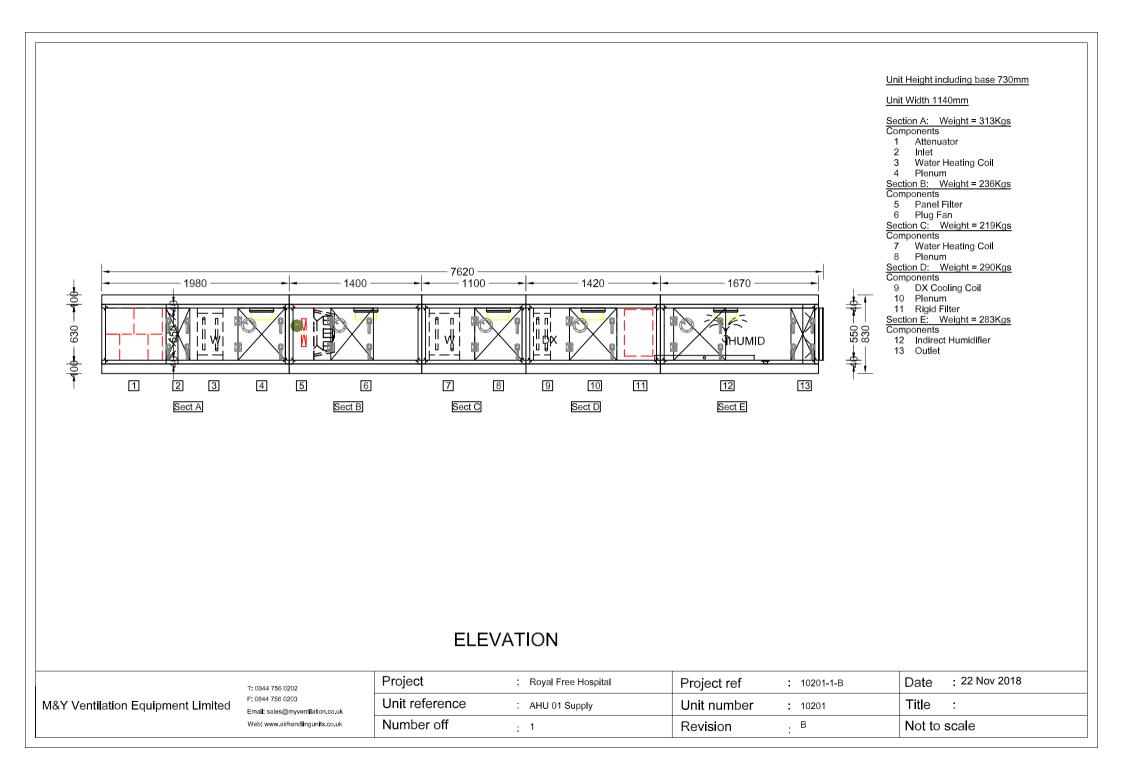
Damper fitted with quadrant for manual adjustment (Air Balancing by others)

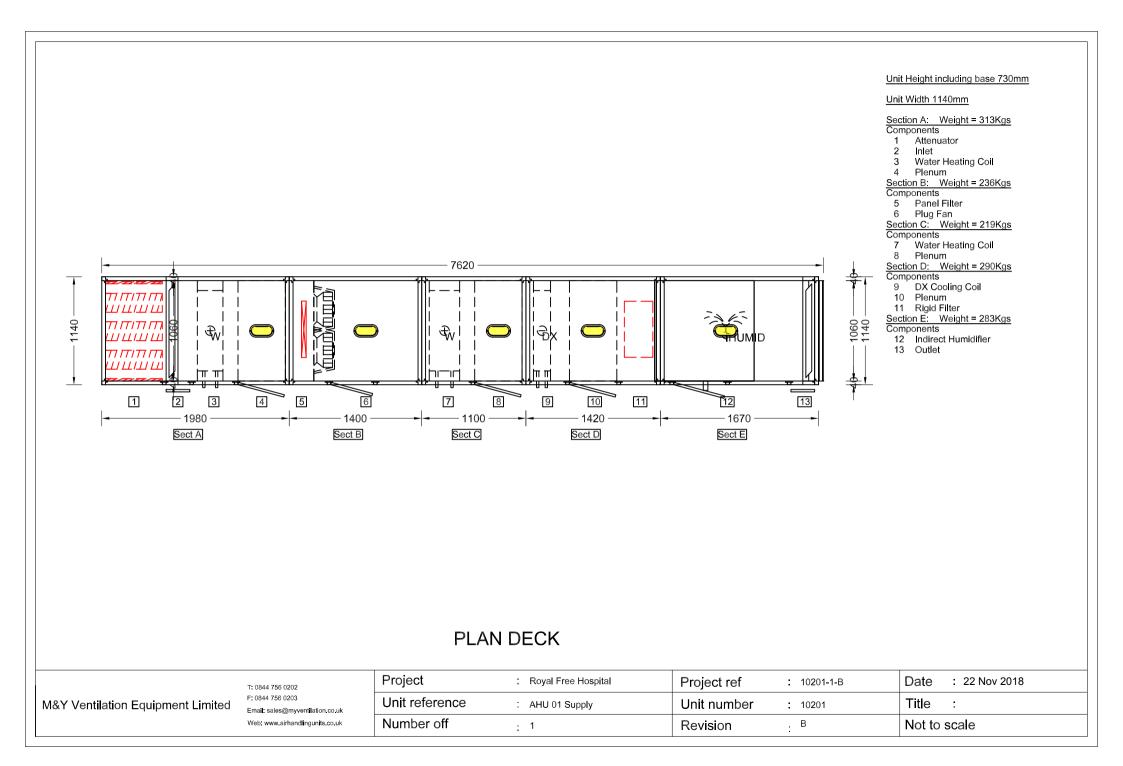


Project: Quotation Reference: Date:	Royal Free H Q10201 22 Nov 2018								
Customer Unit Reference	AHU-1		Serving		AHU 01	Supply			
Unit Reference	Q10201-01-2	2							
Model Reference	Non-standard	Ł							
AHU Acoustic Data:									
Acoustic Data (Supply Far	Sound Powe	r Level):							
Frequency(Hz)	63	125	250	500	1K	2K	4K	8K	
Supply Fan Inlet Lw (dB):	78	74	76	72	67	67	63	58	
Supply Fan Outlet Lw (dB):	79	78	81	75	77	76	70	65	
Acoustic Data (Attenuator	Insertion Los	s - Supply	):						
Frequency(Hz)	63	125	250	500	1K	2K	4K	8K	
Static Insertion Loss (dB)	3	7	14	28	37	37	29	24	

The In-duct Sound Power Level Spectra are in dB re-1pW.

The fan sound power levels shown above do not include for the effects of mounting the fans within the AHU section(s). Please allow for the additional correction of 6db across the spectrum.







Water Flow Rate

Air Pressure Drop

0.22

12.00

## **TECHNICAL SPECIFICATION SHEET**

Project: Quotation Reference: Date:	Royal Free Hospital Q10201 22 Nov 2018			
Customer Unit Reference Unit Reference	<b>AHU-2</b> Q10201-02-2	Serving	AHU 2 Supply & Extract	
Model Reference	AD41250			
AHU Details				
esign Supply Air Volume	0.8	m³/s		
External Static Pressure	300	Pa		
Init Velocity	1.16	m/s		
esign Extract Air Volume	1.2	m³/s		
xternal Static Pressure	300	Pa		
Init Velocity	1.74	m/s		
nergy Use				
	Supply on Clean Filters	Extract on Clean Filters	Overall	
pecific Fan Power	0.86	1.18	1.76	kW/(m <sup>3</sup> /s)
				· · ·
HU Construction	10 mm		Construction	External
ramework	40 mm Anodized		Unit Location Weather Roof	External
ramework Coating Panel Depth	Anodized 25 mm		Baseframe	MICA Duo Pitch Roof 100 x 50 PFC
external Panel Finish	GWG Plastisol 0.9mm		Leakage Class	L3
iternal Panel Finsh	Galv Sheet 0.9mm		Leakaye Glass	LJ
anel Insulation	Mineral Wool 25mm			
verall Unit Dimensions	Longth	Width	Height	Weight (Per Unit)
	Length 8520 mm	1240 mm	1260 mm	1938 kg
	0020 11111	1240 11111	1200 mm	1950 Kg
ection Weights and Dime	nsions			
ection No.	Length	Width	Height	Weight Approx +/-5%
	2450 mm	1240 mm	630 mm	360 kg
	1890 mm	1240 mm	630 mm	405 kg
	2310 mm	1240 mm	630 mm	380 kg
)	1870 mm	1240 mm	630 mm	318 kg
	1520 mm	1240 mm	630 mm	291 kg
	1120 mm	1240 mm	630 mm	185 kg
ttenuator			Construction	
уре	AHU Mounted		Splitter Thickness	200 mm
irway Velocity	3.79	m/sec	Length of Splitter	600 mm
ir PD	8.00	Pa	Splitter Insulation	Mineral Wool
ir way	100.00	mm	Splitter Face	Full Length - Standard
ize H X W	550.00x1160.00	mm		
ccessories				
	a resultant noise level withir	the space - Acoustic analysis	s to be carried out by others.	
nlet Section			Construction	
Component	Damper		Casing	Aluminium EN AW6060 T6
ir Pressure Drop	1.00	Ра	Control	Extended Spindle
ccessories				
Damper actuators to be prov Traffolyte Component label	vided and fitted by others.			
leating Coil			Construction	
vir On / Off	-5.00/5.0	°C/°C	Casing Material	Inox 304 1.5 mm
Duty	9.70	kW	Tube Material	CU
Vater(Inlet)/(Outlet)	82.00/71.00	°C/°C	Fin Material	No Fins
Vater PD	12.98	kPa	Connection Size	1 x 3/4"(F) / 1 x 3/4"(R)
Vatar Elaus Data	0.00			

L/s

Ра



Unit Reference       Q10201-02-2         Model Reference       AD41250         Accessories       Valve and actuator to be supplied and fitted by others         Traffolyte Component label       mm         Plenum Section       Image: Component label         Length       500       mm         Accessories       Right       Image: Component label         Accessories       Right       Image: Component label         Accessories       Construction       Image: Component label         Accessories       State	
Valve and actuator to be supplied and fitted by others Traffolyte Component label Plenum Section Length 500 mm Access Side Right Accesss Side Right Accesss Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Viewport Panel Filter Clean PD 35 Pa Grade Mean 93 Pa Media Recommended dirty 150 Pa Withdraw Size 1 / C Access Porthole Fitted Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Com	upply & Extract
Traffolyte Component label         Plenum Section         access Side       Right         Access Side         Access Side       Right         Access Sole         Access Sole       Right         Access Porthole Fitted         Traffolyte label - Access       Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted Viewport       Zonstrue         Construe         Clean PD       35         Recommended dirty       150         Pa       Media         Recommended dirty       150         Paccess Porthole Fitted         Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa)         Traffolyte Component label         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted IP44 Internal 0         Supply Fan - Dual Fan (100%-100%)       Construe         Design Air Volume       0.8       m³/s       Impeller	
Length500mmAccess SideRightAccess SideRightAccess SoleRightAccess Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted viewportPanel FilterConstruct 	
Access Side Right Access Side Right Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Viewport Panel Filter Clean PD 35 Pan Grade Mean 93 Pa Media Recommended dirty 150 Pa Media Recommended dirty 150 Pa Media Recommended dirty 150 Pa Media Recommended light (60W) wired to an IP66 external switch Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Fraffolyte Component label Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Fraffolyte Component label Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted Viewport Supply Fan - Dual Fan (100%-100%) Construct Supply Fan - Dual Fan (100%-100%) Construct Constr	
Access Porthole Fitted       Construct         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch       Factory fitted viewport         Panel Filter       Construct         Clean PD       35       Pa       Grade         Wean       93       Pa       Media         Recommended dirty       150       Pa       Withdraw         Size 1 / O       Accessories       Vieta Sugge (Range 0-250 Pa)       Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa)         Traffolyte Component label       Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch       Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch       Factory fitted viewport       Construct         Supply Fan - Dual Fan (100%-100%)       Construct       Construct       Supply Fan - Dual Fan (100%-100%)       Construct         Design Air Volume       0.8       m³/s       Impeller       Internal I         Total Fan Resistance       811       Pa       Internal I       Fan Speed       2695       r/min         Frequency @ Design Speed       37.03       Hz       Maximum Fan Speed       3640       r/min       Factor       Konstruct         Maximum Fan Speed       3640	
Traffolyte label - Access         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted viewport         Construct         Construct         Construct         Construct         Construct         Construct         Construct         Construct         Mean       93       Pa       Media         Recommended dirty       150       Pa       Withdraw         Accessories         Access Porthole Fitted         Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa)       Internal Switch         Traffolyte Component label         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Satory fitted Viewport       Construct         Supply Fan - Dual Fan (100%-100%)       Construct         Design Air Volume       0.8       m³/s       Impeller         Total Fan Resistance       811       Pa       Minermal I<	
Clean PD35PaGradeMean93PaMediaRecommended dirty150PaWithdraw Size 1 / CAccessoriesAccess Porthole FittedFactory fitted Dwyer Minihelic gauge (Range 0-250 Pa)Traffolyte Component labelFactory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switchFactory fitted ViewportConstructSupply Fan - Dual Fan (100%-100%)Design Air Volume0.8Design Air Volume0.8Fan Speed2695r/minFrequency @ Design Speed37.03HzMax Frequency50.0HzMaximum Fan Speed3640r/minEfficiency63.42Motor DataKonstruct	
Mean93PaMediaRecommended dirty150PaWithdraw Size 1 / 0AccessoriesAccess Porthole FittedFactory fitted Dwyer Minihelic gauge (Range 0-250 Pa)Fraffolyte Component labelFactory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switchFactory fitted viewportConstructSupply Fan - Dual Fan (100%)ConstructDesign Air Volume0.80.8m³/sImpellerFotal Fan Resistance811Fan Speed26957/minFrequency @ Design Speed37.03Max Frequency50.0Maximum Fan Speed364063.42%	tion
Access Porthole Fitted         Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa)         Traffolyte Component label         Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted viewport         Supply Fan - Dual Fan (100%-100%)         Construct         Design Air Volume       0.8         811       Pa         Total Fan Resistance       811         Fan Speed       2695         Frequency @ Design Speed       37.03         Max Frequency       50.0         Maximum Fan Speed       3640         Fificiency       63.42         Motor Data       Construct	
Access Porthole Fitted Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa) Traffolyte Component label Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted viewport <b>Supply Fan - Dual Fan (100%-100%)</b> Construct Design Air Volume 0.8 m³/s Impeller Total Fan Resistance 811 Pa Internal Is Fan Speed 2695 r/min Frequency Design Speed 37.03 Hz Max Frequency 50.0 Hz Maximum Fan Speed 3640 r/min Efficiency 63.42 %	
Factory fitted Dwyer Minihelic gauge (Range 0-250 Pa)         Fraffolyte Component label       Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch         Factory fitted Viewport       Construct         Supply Fan - Dual Fan (100%-100%)       m³/s       Impeller         Design Air Volume       0.8       m³/s       Impeller         Total Fan Resistance       811       Pa       Internal Is         Fan Speed       2695       r/min         Frequency @ Design Speed       37.03       Hz         Max Frequency       50.0       Hz         Maximum Fan Speed       3640       r/min         Efficiency       63.42       %	
Design Air Volume0.8m³/sImpellerTotal Fan Resistance811PaInternal IFan Speed2695r/minFrequency @ Design Speed37.03HzMax Frequency50.0HzMaximum Fan Speed3640r/minEfficiency63.42%Motor DataConstruct	
Total Fan Resistance811PaInternal IsFan Speed2695r/minFrequency @ Design Speed37.03HzMax Frequency50.0HzMaximum Fan Speed3640r/minEfficiency63.42%Motor DataConstruct	tion
Notor Data Construc	Backward Curve solation Rubber
	tion
FLC3.20AmpsTypeTotal Input Power1.02kWMotor Power2.50kWMotor Speed3640r/minElectrical Supply400/3/50.00	EC
Accessories Access Porthole Fitted	

Removable wire mesh guard is fitted behind the fan access door.

Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch

Factory fitted viewport

Traffolyte Component label

Motor details above are per fan (where multiple fans have been selected)

Inlet Flexible Connection

Factory Fitted Inlet Guard

Backdraft Damper will be fitted to fan

The EC fan will be wired to an externally mounted IP66 rated isolator and IP54 terminal box with integral speed potentiometer. Terminals for BMS connections.



Project:	Royal Free Hospital			
Quotation Reference:	Q10201			
Date:	22 Nov 2018			
Customer Unit Reference	AHU-2	Serving	AHU 2 Supply & Extra	ct
Unit Reference	Q10201-02-2			
Model Reference	AD41250			
Plenum Section				
Length	500	mm		
Access Side	Right			
Accessories				
Access Porthole Fitted				
Traffolyte label - Access				
Factory fitted IP44 Internal b	oulkhead light (60W) wired	to an IP66 external swite	ch	
Factory fitted viewport				
Heating Coil			Construction	
Air On / Off	5.00/12.1	°C/°C	Casing Material	Inox 304 1.5 mm
Duty	6.88	kW	Tube Material	CU
Water(Inlet)/(Outlet)	14.00/10.80	°C/°C	Fin Material	CU-0.10
Water PD	12.99	kPa	Connection Size	1 x 3/4"(F) / 1 x 3/4"(R)
Water Flow Rate	0.57	L/s		
Air Pressure Drop	83.00	Pa		
Accessories				
Run around coil selection co Runaround coil pump and ir Valve and actuator to be su Traffoldo Component lobel	nter-connecting pipework of	designed, supplied and in		
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label	nter-connecting pipework of	designed, supplied and in		
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label <b>Plenum Section</b>	nter-connecting pipework of	designed, supplied and in		
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label <b>Plenum Section</b> Length	nter-connecting pipework of pplied and fitted by others	designed, supplied and in		
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label <b>Plenum Section</b> Length Access Side	nter-connecting pipework of pplied and fitted by others	designed, supplied and in		
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label	nter-connecting pipework of pplied and fitted by others	designed, supplied and in		
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label <b>Plenum Section</b> Length Access Side <b>Accessories</b>	nter-connecting pipework of pplied and fitted by others	designed, supplied and in		
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Accessories Access Porthole Fitted Traffolyte label - Access	500 Right	designed, supplied and in	stalled by others.	
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b	500 Right	designed, supplied and in	stalled by others.	
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport	500 Right	designed, supplied and in	stalled by others.	
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil	500 Right	designed, supplied and in	stalled by others.	Stainless Steel 304
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb)	500 Right bulkhead light (60W) wired	mm to an IP66 external swite	stalled by others.	Stainless Steel 304 Copper
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb)	500 Right bulkhead light (60W) wired	mm to an IP66 external switc	ch Construction Casing Material	
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty	500 Right bulkhead light (60W) wired 30.00/20.00 18.0/16.1	mm designed, supplied and in mm d to an IP66 external switc °C/°C °C/°C	ch Construction Casing Material Tube Material	Copper Copper/PreTinned
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal to Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD	500 Right 30.00/20.00 18.0/16.1 11.63 R410a 10	designed, supplied and in mm d to an IP66 external switc °C/°C °C/°C kW kPa	ch Construction Casing Material Tube Material Fin Material Connection Size Eliminators	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(F not needed - Not Incl.
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD Evaporating Temp	500 Right 30.00/20.00 18.0/16.1 11.63 R410a 10 6.0	mm mm °C/°C °C/°C °C/°C kW kPa °C	ch Construction Casing Material Tube Material Fin Material Connection Size	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(F not needed - Not Incl.
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD Evaporating Temp Face Velocity	500 Right 30.00/20.00 18.0/16.1 11.63 R410a 10 6.0 1.74	designed, supplied and in mm I to an IP66 external switc °C/°C °C/°C kW kPa °C m/s	ch Construction Casing Material Tube Material Fin Material Connection Size Eliminators	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(F not needed - Not Incl.
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD Evaporating Temp Face Velocity	500 Right 30.00/20.00 18.0/16.1 11.63 R410a 10 6.0	mm mm °C/°C °C/°C °C/°C kW kPa °C	ch Construction Casing Material Tube Material Fin Material Connection Size Eliminators	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(F not needed - Not Incl.
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD Evaporating Temp Face Velocity Air Pressure Drop Accessories	500 Right 500/Right 30.00/20.00 18.0/16.1 11.63 R410a 10 6.0 1.74 15.00	designed, supplied and in mm I to an IP66 external switc °C/°C °C/°C kW kPa °C m/s Pa	ch Construction Casing Material Tube Material Fin Material Connection Size Eliminators Drain Tray	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(F
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD Evaporating Temp Face Velocity Air Pressure Drop Accessories Coil is selected for use as a	500 Right 500/20.00 18.0/16.1 11.63 R410a 10 6.0 1.74 15.00 Reverse Cycle Heat Pum	mm mm d to an IP66 external switc °C/°C °C/°C °C/°C kW kPa °C m/s Pa	ch Construction Casing Material Tube Material Fin Material Fin Material Connection Size Eliminators Drain Tray design approval required)	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(F not needed - Not Incl. 4 S Steel Removable draintray
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal to Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD Evaporating Temp Face Velocity Air Pressure Drop Accessories Coil is selected for use as a DX coil supplied with cappe	500 Right 500/20.00 18.0/16.1 11.63 R410a 10 6.0 1.74 15.00 Reverse Cycle Heat Pum	mm mm d to an IP66 external switc °C/°C °C/°C °C/°C kW kPa °C m/s Pa	ch Construction Casing Material Tube Material Fin Material Connection Size Eliminators Drain Tray	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(F not needed - Not Incl. 4 S Steel Removable draintray
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal & Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD Evaporating Temp Face Velocity Air Pressure Drop Accessories Coil is selected for use as a DX coil supplied with capper Traffolyte Component label	500 Right 30.00/20.00 18.0/16.1 11.63 R410a 10 6.0 1.74 15.00 Reverse Cycle Heat Pum d ends and a small nitroge	mm mm d to an IP66 external switc °C/°C °C/°C °C/°C kW kPa °C m/s Pa	ch Construction Casing Material Tube Material Fin Material Fin Material Connection Size Eliminators Drain Tray design approval required)	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(F not needed - Not Incl. 4 S Steel Removable draintray
Runaround coil pump and ir Valve and actuator to be su Traffolyte Component label Plenum Section Length Access Side Access Side Access Porthole Fitted Traffolyte label - Access Factory fitted IP44 Internal b Factory fitted viewport DX Cooling Coil Air On (db/wb) Air Off (db/wb) Duty Refrigerant Refrigerant PD Evaporating Temp Face Velocity Air Pressure Drop Accessories Coil is selected for use as a DX coil supplied with cappe	500 Right 30.00/20.00 18.0/16.1 11.63 R410a 10 6.0 1.74 15.00 Reverse Cycle Heat Pum d ends and a small nitroge	mm mm d to an IP66 external switc °C/°C °C/°C °C/°C kW kPa °C m/s Pa	ch Construction Casing Material Tube Material Fin Material Fin Material Connection Size Eliminators Drain Tray design approval required)	Copper Copper/PreTinned 1 x 1 x 1,1/8"(F) / 1 x 1 x 1/2"(f not needed - Not Incl. 4 S Steel Removable draintray

#### **Plenum Section**

Length	500	mm
Access Side	Right	



Ventilation Equipment Ltd				
Project: Quotation Reference: Date:	Royal Free Hospital Q10201 22 Nov 2018			
Customer Unit Reference	AHU-2	Serving	AHU 2 Supply & Extract	
Unit Reference Model Reference	Q10201-02-2 AD41250			
Accessories				
Access Porthole Fitted				
Traffolyte label - Access				
Factory fitted IP44 Internal b Factory fitted viewport	oulkhead light (60W) wired to	an IP66 external switch		
Bag Filter			Construction	
Clean PD	44	Pa	Grade	ePM1 70%(ISO16890)
Mean	122	Pa	Media	25mm Galv Frame/Glass Fibr
Recommended dirty	200	Pa	Withdrawal	Side
·····,			Size 1 / Qty	2 x 595 x 495 x 635 mm
Accessories				
Access Porthole Fitted				
Factory fitted Dwyer Miniheli	ic gauge (Range 0-500 Pa)			
Traffolyte Component label				
Factory fitted IP44 Internal b	ulkhead light (60W) wired to	an IP66 external switch		
Factory fitted viewport	<b>J J J J J J J J J J</b>			
Indirect Humidifier			Construction	
Humidification Required	30.40	kg/h	Control	Proportional-MODbus
Duty	26.3	kW	Control	
Drain Pan			Construction	
Size	1160 mm		Material	Stainless Steel
Accessories				
Access Porthole Fitted				
	an ditta d			
Distributor pipes will be factor	•			
		emote to the AHU by others.		
		umidifier - Installation on site re	mote to AHU by others.	
Humidifier supplied factory fi				
		fitted to the side of the AHU.		
Manufacturers site attendan	ce for commisioning of Humi	idifier (see additional costs)		
Traffolyte Component label				
Factory fitted IP44 Internal b	ulkhead light (60W) wired to	an IP66 external switch		
Factory fitted viewport				
Drain Tray			Туре	Standard
			Width	1160 mm
			Material	Stainless Steel
			Connection Side	Right
Outlet Section			Construction	
Component	Damper - Spigot		Casing	Aluminium EN AW6060 T6
Air Pressure Drop	1.00	Ра	Control	Manual
Accessories				
Damper fitted with quadrant	for manual adjustment (Air E	Balancing by others)		
Traffolyte Component label				
Inlet Section			Construction	
Component	Damper - Spigot		Casing	Aluminium EN AW6060 T6
Air Pressure Drop	1.00	Ра	Control	Manual
Accessories				
Traffolyte Component label				
	for manual adjustment (Air E	Balancing by others)		
Factory fitted IP44 Internal b				

Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch



Project: Quotation Reference:	Royal Free Hospital Q10201 22 Nov 2018			
Date:				
Customer Unit Referenc		Serving	AHU 2 Supply & Extra	act
Unit Reference	Q10201-02-2			
Model Reference	AD41250			
Panel Filter			Construction	
Clean PD	53	Pa	Grade	Coarse 70%(ISO16890)
Mean	101	Pa	Media	Card Frame-Cotton/Synthetic Me
Recommended dirty	150	Pa	Withdrawal	Front
			Size 1 / Qty	2 x 595 x 495 x 47 mm
Accessories				
Access Porthole Fitted Factory fitted Dwyer Minih Traffolyte Component labe	elic gauge (Range 0-250 P el	a)		
Chilled Water Coil			Construction	
Air On (db/wb)	30.00/20.00	°C/°C	Casing Material	Inox 304 1.5 mm
Air Off (db/wb)	14.0/14.0	°C/°C	Tube Material	CU
Duty	25.88	kW	Fin Material	CU-0.10
Water(Inlet)/(Outlet)	10.80/14.00	°C/°C	Connection Size	1 x 1 1/2"(F) / 1 x 1 1/2"(R)
Water PD	25.31	kPa	Eliminators	Integrated into coil
Water Flow Rate	1.93	L/s	Drain Tray	Sloped 304 1.5
Face Velocity	2.84	m/s	-	
Air Pressure Drop	223.00	Pa		
Accessories				
Run around coil selection	compliant to ERP2018 (Eco	odesign directive 1253/20	14)	

Runaround coil pump and inter-connecting pipework designed, supplied and installed by others.

Valve and actuator to be supplied and fitted by others

Traffolyte Component label

#### Exhaust Fan - Dual Fan (100%-100%)

Exhaust Fan - Dual Fan (10	00%-100%)		Construction	
Design Air Volume	1.2	m³/s	Impeller	Backward Curve
Total Fan Resistance	796	Pa	Internal Isolation	Rubber
Fan Speed	3198	r/min		
Frequency @ Design Speed	43.93	Hz		
Max Frequency	50.0	Hz		
Maximum Fan Speed	3640	r/min		
Efficiency	61.09	%		
Motor Data			Construction	
FLC	3.20	Amps	Туре	EC
Total Input Power	1.56	kW		
Motor Power	2.50	kW		
Motor Speed	3640	r/min		
Electrical Supply	400/3/50.00			

#### Accessories

Access Porthole Fitted

Fan Healthy Contacts (For integration in to the controls system) Removable wire mesh guard is fitted behind the fan access door. Factory fitted IP44 Internal bulkhead light (60W) wired to an IP66 external switch Factory fitted viewport Traffolyte Component label Motor details above are per fan (where multiple fans have been selected) Inlet Flexible Connection Factory Fitted Inlet Guard Backdraft Damper will be fitted to fan The EC fan will be wired to an externally mounted IP66 rated isolator and IP54 terminal box with integral speed potentiometer. Terminals for BMS connections.



Project: Quotation Reference: Date:	Royal Free Hospital Q10201 22 Nov 2018			
Customer Unit Reference	AHU-2	Serving	AHU 2 Supply & Ex	ktract
Unit Reference	Q10201-02-2			
Model Reference	AD41250			
Outlet Section			Construction	
Component	Damper - Powdercoated	Louvre - EWB50	Casing	Aluminium EN AW6060 T6
Air Pressure Drop	30.00	Pa	Control	Extended Spindle
Accessories				

Damper actuators to be provided and fitted by others. Traffolyte Component label

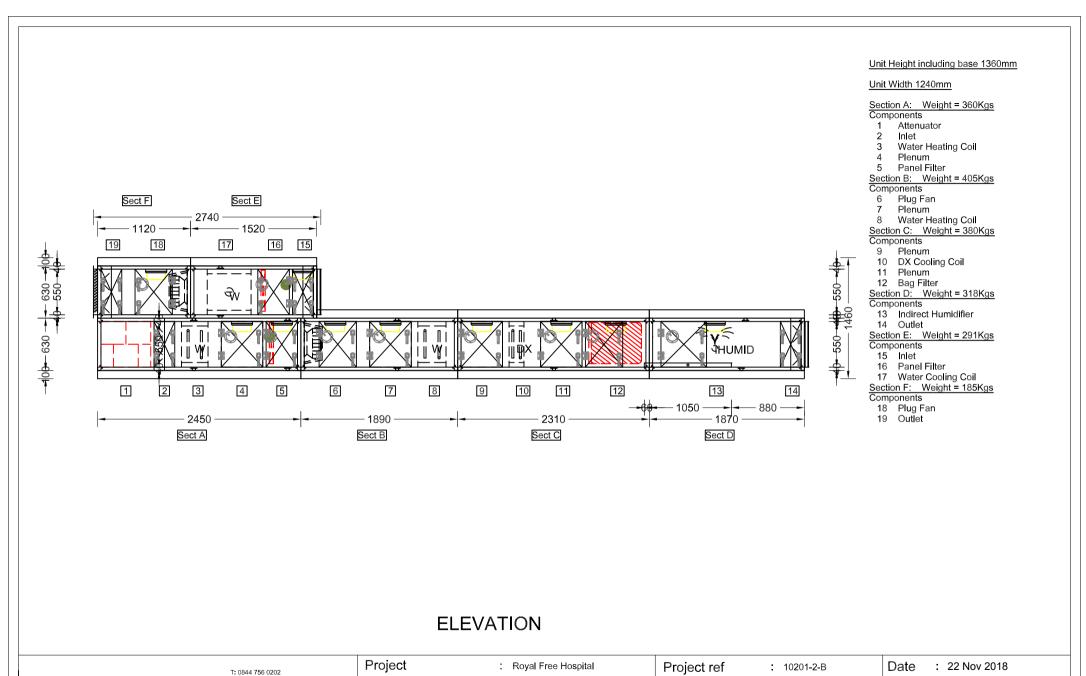




Project: Quotation Reference: Date:	Royal Free H Q10201 22 Nov 2018	·						
Customer Unit Reference	AHU-2		Serving		AHU 2 Sup	oply & Extract		
Unit Reference	Q10201-02-2							
Model Reference	AD41250							
AHU Acoustic Data:								
Acoustic Data (Supply Far	n Sound Powe	r Level):						
Frequency(Hz)	63	125	250	500	1K	2K	4K	8K
Supply Fan Inlet Lw (dB):	67	66	73	73	70	70	66	62
Supply Fan Outlet Lw (dB):	69	69	77	77	80	78	74	70
Acoustic Data (Extract Far	n Sound Powe	r Level):						
Frequency(Hz)	63	125	250	500	1K	2K	4K	8K
Extract Fan Inlet Lw (dB)	73	71	77	81	76	75	72	68
Extract Fan Outlet Lw (dB)	74	73	81	84	86	84	79	76
Acoustic Data (Attenuator	Insertion Los	s - Supply):						
Frequency(Hz)	63	125	250	500	1K	2K	4K	8K
Static Insertion Loss (dB)	3	7	14	28	37	37	29	24

The In-duct Sound Power Level Spectra are in dB re-1pW.

The fan sound power levels shown above do not include for the effects of mounting the fans within the AHU section(s). Please allow for the additional correction of 6db across the spectrum.



F: 0844 756 0203 Unit reference M&Y Ventilation Equipment Limited Email: sales@myventilation.co.uk Number off

Web: www.airhandlingunits.co.uk

: 1

AHU 2 Supply & Extract

Unit number

Revision

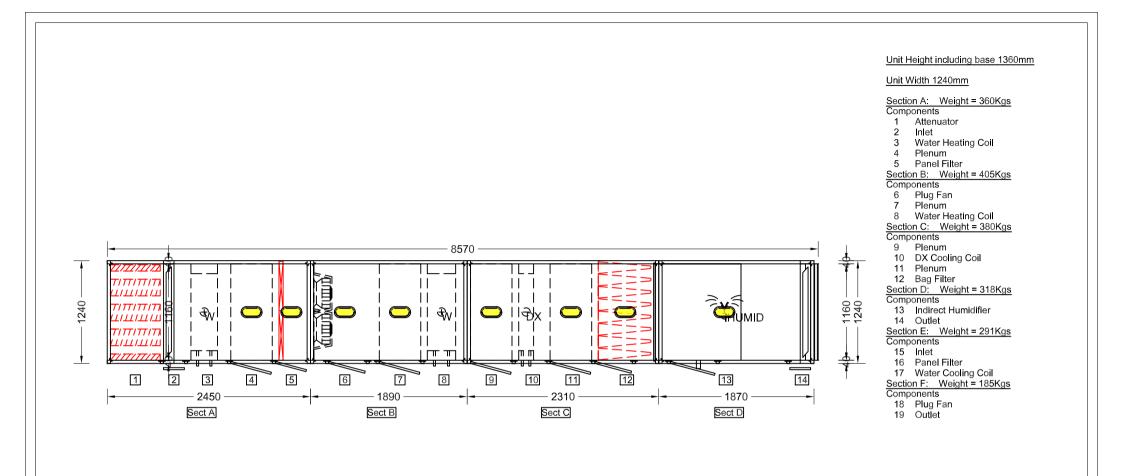
: 10201

В

Title

1

Not to scale



#### PLAN LOWER DECK

M&Y Ventilation Equipment Limited	T: 0844 756 0202 F: 0844 756 0203 Email: sales@myventilation.co.uk Web: www.airhandlingunits.co.uk	Project	: Royal Free Hospital	Project ref : 10	D201-2-B Date	: 22 Nov 2018
		Unit reference	AHU 2 Supply & Extract	Unit number : 10	D201 Title	:
		Number off	<u>;</u> 1	Revision B	Not to	scale

#### Unit Height including base 1360mm

#### Unit Width 1240mm

Ŧ	-		- 2740		-  ↓
	19	18	17	16 15	
	-		- 2740		-
	Se	ct F	Sect E		

Section A: Weight = 360Kgs Components 1 Attenuator 2 Inlet 3 Water Heating Coil 4 Plenum 5 Panel Filter Section B: Weight = 405Kgs Components 6 Plug Fan 7 Plenum 8 Water Heating Coil Section C: Weight = 380Kgs Components 9 Plenum 10 DX Cooling Coil 11 Plenum 12 Bag Filter Section D: Weight = 318Kgs Components 13 Indirect Humidifier 14 Outlet Section E: Weight = 291Kgs Components 15 Inlet 16 Panel Filter 17 Water Cooling Coil Section F: Weight = 185Kgs Components 18 Plug Fan 19 Outlet

#### PLAN UPPER DECK

M&Y Ventilation Equipment Limited	T: 0844 756 0202 F: 0844 756 0203 Email: sales@myventilation.co.uk Web: www.airhandlingunits.co.uk	Project	Royal Free Hospital	Project ref : 10201-2-B	Date : 22 Nov 2018
		Unit reference	AHU 2 Supply & Extract	Unit number : 10201	Title :
		Number off	: 1	Revision B	Not to scale