ARUP

Equipment Data Sheet AIR HANDLING UNITS

Job Title:	Macdonald	Buchanan	House Spo	rts Institu	te	Jo	ob Number:	218598-01
Job Stage:	Contract		Status:	Contra	ct Issue		Made by:	JP
Revision:	C1		Date:	22/10	0/2012	C	checked by:	MA
Revision Description:								
Specification Type Ref	erence	AHU	J-03					
Туре		Supply	Extract					
Quantity		1	1					
Air Flow Rate	m³/s	1.3	1.3					
Unit External Resistan	ce Pa	200	200					

Construction Data

Cladding

Air Leakage Class (DW144)

Inner Panel Material

Outer Panel Material

Overall Data

Overall Length Overall Width Overall Height

Performance Data

Filter Section Filter Type Filter Group & Class

DX Coil

Total Coil Cooling Capacity Entering Air Temperature Leaving Air Temperature Total Coil Heating Capacity Entering Air Temperature Leaving Air Temperature Max Evaportaing temperature Min condensing temperature Liquid pipe size Gas pipe size Refrigerant type

Plate Heat Exchanger

Air on summer Air on winter Return air temp summer Return air temp winter Heat exchanger material Minimum Efficiency Summer by-pass

Fan

Fan Type
Speed Control
Drive Type
Total Fan Pressure
Fan Speed
Electrical Supply
Fan Efficiency
Total Efficiency
Absorbed Power
Motor Rating
Motor Speed
Starting Method
Starting Current
Full Load Running Current

50mm double-skin infil panels		
Class A		
Corrosion resistant steel		
Corrosion resistant steel		

mm	3900		
mm			
mm	1500		

Panel/Bag	Panel		
G4/F7	G4		

kW	10		
°C	28		
°C	22		
kW	20		
°C	8		
°C	18		
°C	4 to 8		
°C	60		
In			
In			
	R410A		

°C	30		
°C	-4		
°C	25		
°C	22		
	note 1		
%	60		
	No		

	Supply	Extract		
	Centrifugal	Centrifugal		
	Variable	Variable		
	Inverter	Inverter		
Pa				
V/Ø/Hz	415/3/50	415/3/50		
%				
%				
kW				
kW	1.5	1.1		
rpm	1430	1420		
A	3.3	2.5		
A	3.3	2.5		

ARUP

Equipment Data Sheet AIR HANDLING UNITS

Job Title:	Macdonald B	uchanan	House Spor	ts Institut	e	Jo	b Number:	218598-01
Job Stage:	Contract		Status:		ct Issue		Made by:	JP
Revision:	C1		Date:	22/10	/2012	С	hecked by:	MA
Revision Description:								
Noise & Vibration	Data	Supply	Extract					
Inlet	63 Hz	62	54					
	125 Hz	64	55					
In Duct	250 Hz	78	69					
Sound Power Level	500 Hz	71	62					
_w dB	1 kHz	70	61					
	2 kHz	67	57					
	4 kHz	62	52					
	8 kHz	62	52					
	_							
Discharge	63 Hz	53	59					
	125 Hz	56	64					
n Duct	250 Hz	66	74					
Sound Power Level	500 Hz	64	73					
.w dB	1 kHz	63	72					
	2 kHz	58	69					
	4 kHz	52	64					
	8 kHz	50	62					
		50					1	
Casing Radiated	63 Hz	53	53					
	125 Hz	55 62	55					
Downed Downer Lawal	250 Hz	62 46	62 46					
Sound Power Level	500 Hz	40 41						
.w dB	1 kHz	41	41 45					
	2 kHz 4 kHz	39	39					
	8 kHz	30	30					
an Anti Vibration Moun Particular Data Accessories Veatherproof Constructi Slazed Viewing Ports in Bulkhead Luminaires in Magnahelic Pressure Gat Photohelic Pressure Gat Manometers on Filters Motors Wired to Externa Fan Motor Located Out of Access Door Security Lo	ion Access Doors Access Sections auges on Filters uges on Filters I Isolators of Airstream	Yes	Yes Offered I	Required	Offered R		Offered	
Testing Performance Type Tests Works Performance Tes	3	Required						
Works Performand Noise Performance Test Pressure & Leakage Per Additional Informa	s formance Tests	Required		Dut	y Performanc	e Tests		
Manufacturer			ection Based aktwoods	-	Iternative	_	Iternative Moducel]