

Victoria Buildings | Albert Street | Lockwood | Huddersfield | HD1 3PR Tel : 01484 422625 Fax : 01484 430959

Project Details			
Our Reference	QA4264GT REV1	Project Reference	Barnsley Ward 13
AHU Reference	Supply & Extract Ahu	Prepared By	Gary Tingle

Unit Construction			
Location	external	Roof Fitted	Yes
Panel Type	Insulated Double Skin. Galv inner / Platisol outer	Panel Depth	50mm
Access Panels	Hinged and Lockable	Frame	Recycled Aluminium Pentapost
Base	150mm	Base	Fabricated, Painted Finish
AHU Manufactured to HTM03 Standard			

Supply Section

Inlet Section			
Inlet Type	Louvre	Finish	damper - motor by others

Access Section	
Viewport and Bulkhead Light Fitted	

Frost Section			
Type	LPHW	Tubes/Fins	Copper/bare tube
Face Velocity m/s	2	Rows/Fins Per In	
Air On Db °C	-7	Flow/Return Temp °C	80/50
Air Off Db °C	5	Flow Rate l/s	0.38
Duty KW	46.83	Water Pressure Drop KPa	10

Filter Section		Viewport and Bulkhead Light Fitted	
Primary Filters		Spare Set	n/a
Type	Panel	Withdrawal	front
Grade	G4	Gauge Type	Minihelic

Heat Recovery Section			
Type	Plate	Arrangement	double deck
Efficiency	86.7	Pressure Drop Pa	
Supply Air On °C	5	Return Air On °C	25
Supply Air Off °C	22.3	Exhaust Air Off °C	
Duty KW	66.4	Stainless Steel Drain Tray	Fitted
Face and Bypass	Fitted		

Supply Fan Section		Viewport and Bulkhead Light Fitted	
Arrangement	2 x EC Direct Drive Plug	Fan Both fans run together to achieve duty	
Air Volume m³/s	3.2	Fan Speed rpm	2528
External Static Pa	300	Abs Power KW	5.58
Total Static Pa	1111	Motor Power KW	6.9 10.6 amps flc
Fan Type	2 x 400 AQ23 68	Motor Type	EC 0 to 10 v control
Induct Sound power lvl	82,7,87,88,90,89,87,81	Voltage	415/3/50
		Wired To Isolator	Yes

Cooling Section			
Type	CW	Tubes/Fins	Copper/Copper/Etam
Face Velocity m/s	2	Flow/Return Temp °C	6/12
Air On Db/Wb °C	30/50%	Flow Rate l/s	3.43
Air Off Db/Wb °C	16/15	Water Pressure Drop KPa	25
Duty KW	86.09	Drain Tray	Stainless steel - extended
		Eliminators	Fitted

Access Section	
Viewport and Bulkhead Light Fitted	

Heating Section			
Type	LPHW	Tubes/Fins	Copper/Copper
Face Velocity m/s	2	Rows/Fins Per In	
Air On Db °C	10	Flow/Return Temp °C	80/50
Air Off Db °C	25	Flow Rate l/s	0.48
Duty KW	58.83	Water Pressure Drop KPa	5

Filter Section		Viewport and Bulkhead Light Fitted	
Secondary Filters		Spare Set	n/a
Type	Bag	Withdrawal	front
Grade	F7	Gauge Type	Minihelic

Outlet Section			
Outlet Type	Damper. Motor by others	Finish	Spigot

Extract Section

Inlet Section			
Inlet Type	Spigot	Finish	damper - motor by others

Filter Section		Viewport and Bulkhead Light Fitted	
Primary Filters		Spare Set	n/a
Type	Panel	Withdrawal	front
Grade	G4	Gauge Type	Minihelic

Extract Fan Section		Viewport and Bulkhead Light Fitted	
Arrangement	EC Direct Drive Plug Fan		
Air Volume m ³ /s	3.2	Fan Speed rpm	2789
External Static Pa	300	Abs Power KW	3.96
Total Static Pa	730	Motor Power KW	4.5 7 amps flc
Fan Type	2 x 355 bc 9202	Motor Type	EC 0 to 10 v control
Induct Sound power lvl	85,76,85,87,91,89,85,80	Voltage	415/3/50
		Wired To Isolator	Yes

Heat Recovery Section	
See supply section for details	

Access Section		Viewport and Bulkhead Light Fitted	

Outlet Section			
Outlet Type	Damper. Motor by others	Finish	Cowl

Special Instructions			
n/a			

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LAYOUT DRAWING ONLY

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Unit Dimensions mm					
	Height	Width	Length	Number of Sections	
Approx mm	2550 inc base & roof	2300	9000	2	

Roof	Yes	Depth mm	100
Base Frame	Yes	Depth mm	150

Fres Air Inlet	Louvre	Supply Outlet	Spigot	Return Air Inlet	spigot	Extract Outlet	Cowl
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