

	Flow	Return
Chilled Water Temperature (°C)	7	14
Heating Hot Water Temperature (°C)	50	30

AIR HANDLING UNIT SCHEDULE																										
DETAILS				AIR SIDE				COOLING						HEATING				FILTER				ELECTRICAL INPUT		SELECTION		
Reference	Stage	Location	Area Served	Supply Air (l/s)	Outdoor Air (l/s)	Min O/A for Demand Ventilation (l/s)	Est. Static Pressure (Pa)	Total Capacity (kW)	Sensible Capacity (kW)	Entering Air Temp. (°CDB)	Entering Air Temp. (°CWB)	Leaving Air Temp. (°CDB)	Chilled Water Flow (l/s)	Heating Capacity (kW)	Entering Air Temp. (°CDB)	Leaving Air Temp. (°CDB)	Heating Hot Water Flow (l/s)	AS 1324.1 Rating/Type	Max Face Velocity (m/s)	Min Filter Face Area (m ²)	Max initial press. drop (Pa)	Motor Size (kW)	No. of phases	Type of Fan	Design Selection or Approved Equivalent	Model
AHU-1-1	2	Plantroom 1	Offices LG1	2,090	377	176	500	33.5	30.0	26.8	17.9	14.1	1.14	21.9	16.7	26.0	0.26	F5 Deep Bed	2.5	0.84	45	4	3	EC Plug Fan	GJ Walker	ASH 27
AHU-1-2	2	Plantroom 1	East & Central Stacks	13,205	1,321	-	500	104.0	96.8	24.9	16.8	18.4	3.54	112.0	18.6	26.1	1.33	F5 Deep Bed	2.5	5.28	45	30	3	EC Plug Fan	GJ Walker	ASH 156
AHU-1-5	2	Plantroom 1	BOH LG2	2,549	695	170	500	40.1	37.7	27.8	18.2	14.7	1.36	38.0	14.6	27.8	0.45	F5 Deep Bed	2.5	1.02	45	5.5	3	EC Plug Fan	GJ Walker	ASH 32
AHU-1-6	2	Plantroom 1	Imaging Offices	1,703	236	110	500	25.4	23.3	26.4	17.7	14.3	0.86	18.1	17.7	27.1	0.22	F5 Deep Bed	2.5	0.68	45	4	3	EC Plug Fan	GJ Walker	ASH 23
AHU-1-7	2	Plantroom 1	Formed Collections	2,119	212	-	500	13.4	13.4	25.9	18.1	20.3	0.46	17.6	18.6	26.0	0.21	F5 Deep Bed	2.5	0.85	45	4	3	EC Plug Fan	GJ Walker	ASH 27
AHU-3-1	1	Plantroom 3	Lakeside Stack	10,109	1,011	-	500	69.1	63.5	24.9	16.8	19.3	2.35	84.1	18.6	26.0	1.00	F5 Deep Bed	2.5	4.04	45	18.5	3	EC Plug Fan	GJ Walker	ASH 110
AHU-3-3	1	Plantroom 3	Offices LG1/ LG2	7,738	917	428	500	136.0	125.0	26.4	17.2	12.0	4.63	95.0	18.2	29.1	1.13	F5 Deep Bed	2.5	3.10	45	18.5	3	EC Plug Fan	GJ Walker	ASH 80
AHU-3-4	1	Plantroom 3	Audio History	669	85	40	500	9.8	9.0	26.2	17.7	14.3	0.33	6.3	18.0	26.4	0.08	F5 Deep Bed	2.5	0.27	45	1.1	3	EC Plug Fan	GJ Walker	ASH 08
AHU-4-5	5	Plantroom 4A	O/H Tape Store	881	88	-	500	9.1	7.7	21.4	13.7	13.7	0.31	7.3	18.6	26.0	0.09	F5 Deep Bed	2.5	0.35	45	2.2	3	EC Plug Fan	GJ Walker	ASH 11
AHU-4-6	5	Plantroom 4	Ephemera	3,072	307	-	500	22.2	22.2	26.1	18.2	19.7	0.76	25.5	18.6	26.0	0.30	F5 Deep Bed	2.5	1.23	45	5.5	3	EC Plug Fan	GJ Walker	ASH 32
AHU-7-7	3	Plantroom 7	Offices L1/L3/L4 Perimeter	5,552	694	324	500	105.0	95.1	26.2	16.8	11.0	3.57	85.0	18.1	31.6	1.01	F5 Deep Bed	2.5	2.22	45	15	3	EC Plug Fan	GJ Walker	ASH 66
AHU-7-8	3	Plantroom 7	Offices L4 Internal	6,746	944	441	500	101.0	92.4	26.4	17.7	14.3	3.44	63.3	17.7	26.0	0.75	F5 Deep Bed	2.5	2.70	45	18.5	3	EC Plug Fan	GJ Walker	ASH 80
AHU-8-4	1	Plantroom 8	Manuscripts	2,277	228	-	500	25.6	25.6	26.7	18.4	16.7	0.87	23.7	18.6	27.8	0.28	F5 Deep Bed	2.5	0.91	45	4	3	EC Plug Fan	GJ Walker	ASH 27
AHU-10-1	4	Plantroom 10	Offices L1	2,927	552	258	500	47.6	42.4	26.9	17.9	14.1	1.62	40.4	13.8	25.0	0.48	F5 Deep Bed	2.5	1.17	45	5.5	3	EC Plug Fan	GJ Walker	ASH 32
AHU-10-2	4	Plantroom 10	Reading Rooms L2/L3	2,228	594	139	500	40.6	35.2	27.8	18.2	13.8	1.38	28.4	14.7	26.0	0.34	F5 Deep Bed	2.5	0.89	45	4	3	EC Plug Fan	GJ Walker	ASH 27
AHU-10-3	4	Plantroom 10	Asian Collections	9,150	916	-	500	45.2	40.2	24.7	16.8	20.8	1.54	76.2	18.6	26.0	0.91	F5 Deep Bed	2.5	3.66	45	18.5	3	EC Plug Fan	GJ Walker	ASH 110
AHU-10-4	4	Plantroom 10	Offices L3	3,846	795	371	500	81.5	71.3	27.4	17.5	11.0	2.77	56.5	16.1	29.1	0.67	F5 Deep Bed	2.5	1.54	45	7.5	3	EC Plug Fan	GJ Walker	ASH 41
AHU-10-5	4	Plantroom 10	Rare Collections	5,904	590	-	500	38.6	38.6	26.0	18.2	20.3	1.31	49.1	18.6	26.0	0.58	F5 Deep Bed	2.5	2.36	45	15	3	EC Plug Fan	GJ Walker	ASH 66
AHU-10-6	4	Plantroom 10	Offices L1	3,137	853	194	500	68.8	58.8	27.3	17.6	11.0	2.34	50.9	14.7	28.8	0.61	F5 Deep Bed	2.5	1.27	45	7.5	3	EC Plug Fan	GJ Walker	ASH 41
AHU-10-7	4	Plantroom 10	Public Areas	4,791	1,435	335	500	91.5	78.3	28.2	18.3	13.7	3.11	65.3	13.9	26.0	0.78	F5 Deep Bed	2.5	1.92	45	11	3	EC Plug Fan	GJ Walker	ASH 53
AHU-10-8	4	Plantroom 10	Offices L2	3,195	851	304	500	67.5	59.2	27.4	17.4	11.0	2.30	45.6	16.2	28.3	0.52	F5 Deep Bed	2.5	1.28	45	7.5	3	EC Plug Fan	GJ Walker	ASH 41
AHU-10-10																										
AHU-11-1	3	Plantroom 11	Level 2 Stack	7,312	731	-	500	55.9	50.3	25.4	16.6	19.3	1.90	60.8	18.6	26.0	0.72	F5 Deep Bed	2.5	2.92	45	18.5	3	EC Plug Fan	GJ Walker	ASH 86
AHU-11-2																										
AHU-11-3																										
AHU-11-4	3	Plantroom 11	Offices L1/L3 Internal	5,233	1,478	434	500	97.8	84.1	28.0	18.2	13.8	3.33	69.0	14.3	26.0	0.82	F5 Deep Bed	2.5	2.10	45	15	3	EC Plug Fan	GJ Walker	ASH 66
AHU-15-1	5	Plantroom 15	Quarantine	1,163	116	-	500	10.8	10.5	26.2	17.7	18.3	0.37	12.8	18.6	28.4	0.15	F5 Deep Bed	2.5	0.47	45	3	3	EC Plug Fan	GJ Walker	ASV18
AHU-16-1	1	Plantroom 16	Maps	4,177	418	-	500	33.6	33.6	26.2	18.2	19.1	1.14	34.7	18.6	26.0	0.41	F5 Deep Bed	2.5	1.67	45	11	3	EC Plug Fan	GJ Walker	ASH 53
NOTE: UNITS TO BE ASSEMBLED ON-SITE DUE TO ACCESS CONSTRAINTS.																										

SCHEDULE OF FAN COIL UNITS																											
Reference	Stage	Location	Stage	Air Flow Rate	Minimum Outdoor Air	Estimated Static Pressure	Cooling Coil					Heating Coil					Filter				Indicative Motor Size	Drive Type	Phase	Manufacturer or Approved Equal	Model		
							Capacity		On Coil	Off Coil	Chilled Flow	Capacity		On Coil	Off Coil	Hot Water			AS 1324.1 Rating/Type	Max Face Velocity						Min Filter Face Area	Max initial press. drop
							GTH	TSH				GTH	On Coil			Off Coil	Flow	Supply									
-	-			L/s	L/s	Pa	KW	KW	°C db	°C wb	°C db	L/s	KW	°C db	°C db	L/s	°C	°C		m/s	m²	Pa	KW		-		
FCU-LG2-1	LG2 Fitout	LG2	Meeting Room	191	120	100	5.4	4.3	31.6	19.4	11.7	0.18	5.1	6.2	30.0	0.06	50	30	F5 V-Form 50mm	1.2	0.16	19	0.15	DOL	Single	Temperzone	IMDL 90
FCU-LG2-2		LG2	Breakout / Specialist Scanning	480	122	100	7.7	6.6	27.3	18.0	15.1	0.26	8.1	15.0	30.0	0.10	50	30	F5 V-Form 50mm	1.2	0.40	19	0.23	DOL	Single	Temperzone	IMDL 130
FCU-LG2-3		LG2	Noisy Scanning / Image Review Room	374	72	115	6.3	5.6	26.7	17.8	13.4	0.21	5.7	16.5	30.0	0.07	50	30	F5 V-Form 50mm	1.2	0.31	19	0.23	DOL	Single	Temperzone	IMDL 130
FCU-LG2-4		LG2	SCC	500	38	125	7.5	7.2	25.4	17.4	12.8	0.26	7.2	19.2	31.9	0.09	50	30	F5 V-Form 50mm	1.2	0.42	19	0.43	EC	Single	Temperzone	IMDL 130
FCU-LG2-5		LG2	Collections Quarantine	193	130	100	4.0	3.8	32.0	19.5	14.7	0.14	5.4	5.1	30.0	0.06	50	30	F5 V-Form 50mm	1.2	0.16	19	0.15	DOL	Single	Temperzone	IMDL 90
FCU-LG2-6		LG2	Hazardous Material Scanning	175	125	100	3.1	2.9	32.2	19.6	17.5	0.11	5.1	4.1	30.0	0.06	50	30	F5 V-Form 50mm	1.2	0.15	19	0.15	DOL	Single	Temperzone	IMDL 90
FCU-LG1-10	1	LG1	Office Audio Visual	643	117	150	10.3	9.25	26.9	17.9	14.1	0.35	9.7	16.7	30.0	0.11	50	30	F5 V-Form 50mm	1.2	0.54	19	1.25	EC	Single	Temperzone	IMD 170

ATTENUATOR SCHEDULE									
Attenuator Ref	Equipment Serving	Location	Type	Air flow rate	Pressure Drop	Diameter	Manufacturer or approved Equal		
				l/s	Pa	mm	mm		
ATT-11.1	OAF Plantroom 11	Level 4	Circular	11,254	N/A	900	Fantech		
ATT-11.2	OAF Plantroom 11	Level 4	Circular	11,254	N/A	900	Fantech		
ATT-10.1	OAF Plantroom 10	Plantroom 8	Circular	27,370	N/A	2000	Fantech		
ATT-10.2	OAF Plantroom 10	Plantroom 8	Circular	27,370	N/A	2000	Fantech		

COOLING TOWER SCHEDULE				
Cooling Tower No.	CT-1	CT-2	CT-3	
Location	Roof Plantroom	Roof Plantroom	Roof Plantroom	
Cooling Tower Type	Open	Open	Open	
Flow type	Counterflow	Counterflow	Counterflow	
Heat Rejection (kW)	1600	1600	1600	
Entering Water Temp. (°C)	33	33	33	
Leaving Water Temp. (°C)	27	27	27	
Water Flow Rate (L/s)	63.5	63.5	63.5	
Design Ambient Conditions (°C DBWB)	35/20.5	35/20.5	35/20.5	
Fan Motor (kW)	18.64	18.64	18.64	
Make-up Water Flow Rate (L/s)		0.77	0.77	
	63	107	107	
	125	108	108	
	250	103	103	
	500	96	96	
	1000	92	92	
Sound Power (dB)				
	2000	88	88	
	4000	81	81	
	8000	76	76	
Centre Frequency (Hertz)				
Selection or approved equivalent		BAC PCT 1010-P3-N	BAC PCT 1010-P3-N	BAC PCT 1010-P3-N

SIDE STREAM FILTER SCHEDULE			
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