

AIR HANDLING UNIT			
DESIGNATION	AC-1		
MANUFACTURER/MODEL	MCQUAY CAH0500DAC		
UNIT CONFIGURATION	HORIZONTAL DRAW THRU		
CASING INSULATION	2 INCHES - 3 PCF DENSITY		
ISOLATION TYPE	2" SPRING		
MAXIMUM UNIT LENGTH	32'-4"		
MAXIMUM UNIT WIDTH	10'		
MAXIMUM UNIT HEIGHT (INCLUDES BASE RAIL)	7'-6"		
MAXIMUM OPERATING WEIGHT (LBS.)	14,400		
BASE RAIL HEIGHT (INCHES)	6		
MIXING BOX	CASING LINER	SOLID	
	SECTION AIR PRESSURE DROP (INCHES W.G.)	0.09	
	TOP DAMPER TYPE	PARALLEL BLADE	
	BACK DAMPER TYPE	PARALLEL BLADE	
	ACCESS DOORS	DRIVE SIDE	
	AIRFLOW LENGTH (INCHES)	40	
	ACCESSORIES	MARINE LIGHT, VIEW PORT	
COMBINATION FLAT FILTER SECTION	AIR FLOW (CFM)	25500	
	FACE VELOCITY	464	
	PRE-FILTER DEPTH (INCHES)	2	
	PRE-FILTER TYPE	PLEATED	
	PRE-FILTER MERV RATING	8	
	PRE-FILTER INITIAL AIR PRESSURE DROP (INCHES W.G.)	0.36	
	PRE-FILTER FINAL AIR PRESSURE DROP (INCHES W.G.)	1.0	
	FILTER DEPTH (INCHES)	12	
	FILTER TYPE	CARTRIDGE	
	FILTER MERV RATING	14	
	FILTER INITIAL AIR PRESSURE DROP (INCHES W.G.)	0.52	
	FILTER FINAL AIR PRESSURE DROP (INCHES W.G.)	1.2	
	CASING LINER	SOLID	
	ACCESS DOORS	DRIVE SIDE	
	AIRFLOW LENGTH (INCHES)	22	
ACCESSORIES	FILTER GAUGE		
INTEGRAL FACE AND BYPASS STEAM PREHEAT COIL	AIR FLOW (CFM)	25,500	
	COIL FACE VELOCITY (FPM)	732	
	ROWS	1	
	FIN SPACING (FINS PER FOOT)	144	
	ENTERING AIR TEMPERATURE (DB DEG. F)	14	
	LEAVING AIR TEMPERATURE (DB DEG. F)	57.1	
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.25	
	ENTERING STEAM PRESSURE TO CONTROL VALVE (PSIG)	15	
	STEAM FLOW RATE (LBS/HR)	1223	
	SENSIBLE HEAT TRANSFER (MBH)	1186	
	CASING LINER	SOLID	
	ACCESS DOORS	NONE	
	AIRFLOW LENGTH (INCHES)	36	
	ACCESS SECTION	CASING LINER	SOLID
		SECTION AIR PRESSURE DROP (INCHES W.G.)	0.00
ACCESS DOORS		DRIVE SIDE ONLY	
ACCESSORIES		MARINE LIGHT	
AIRFLOW LENGTH (INCHES)		24	
CHILLED WATER COIL	AIR FLOW (CFM)	25,500	
	COIL FACE VELOCITY (FPM)	440	
	ROWS	8	
	FIN SPACING (FINS PER FOOT)	120	
	ENTERING AIR TEMPERATURE (DB/WB DEG. F.)	88/66	
	LEAVING AIR TEMPERATURE (DB/WB DEG. F.)	50.6/50.1	
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.72	
	ENTERING CHILLED WATER TEMPERATURE (DEG. F.)	45.0	
	LEAVING CHILLED WATER TEMPERATURE (DEG. F.)	55.0	
	CHILLED WATER FLOW (GPM)	237.8	
	COIL WATER PRESSURE DROP (FEET W.G.)	10.7	
	TOTAL HEAT TRANSFER (MBH)	1182.3	
	SENSIBLE HEAT TRANSFER (MBH)	1043.7	
	CASING LINER	SOLID	
	ACCESS DOORS	NONE	
	DRAIN PAN	STAINLESS STEEL SLOPED IAO	
	ACCESSORIES	UV LIGHTS, MARINE LIGHT	
	ACCESS DOOR	DRIVE SIDE	
	AIRFLOW LENGTH (INCHES)	54	
FAN SECTION	FAN TYPE	AIRFOIL / CLASS II	
	AIR FLOW (CFM)	25,500	
	TOTAL STATIC PRESSURE (INCHES W.G.)	7.47	
	EXTERNAL STATIC PRESSURE (INCHES W.G.)	2.5	
	FAN RPM	1409	
	FAN BHP	41.42	
	MOTOR HP	50	
	MOTOR EFFICIENCY (%)	PREMIUM	
	MOTOR VOLTAGE / PHASE	460 / 3	
	CASING LINER	SOLID	
	ACCESS DOORS	DRIVE SIDE ONLY	
	SECTION ACCESSORIES	FAN KILL SWITCH, MARINE LIGHT	
	FAN ACCESSORIES	THRUST RESTRAINTS	
AIRFLOW LENGTH (INCHES)	80		
DIFFUSER SECTION	CASING LINER	SOLID	
	SECTION AIR PRESSURE DROP (INCHES W.G.)	0.15	
	ACCESS DOORS	NONE	
	ACCESSORIES	NONE	
	AIRFLOW LENGTH (INCHES)	30	
ACCESS SECTION	CASING LINER	SOLID	
	SECTION AIR PRESSURE DROP (INCHES W.G.)	0.00	
	ACCESS DOORS	DRIVE SIDE ONLY	
	ACCESSORIES	MARINE LIGHT	
	AIRFLOW LENGTH (INCHES)	36	
COMBINATION FINAL FILTER SECTION	AIR FLOW (CFM)	25500	
	FACE VELOCITY	499	
	PRE-FILTER DEPTH (INCHES)	2	
	PRE-FILTER TYPE	PLEATED	
	PRE-FILTER MERV RATING	7	
	PRE-FILTER INITIAL AIR PRESSURE DROP (INCHES W.G.)	0.25	
	PRE-FILTER FINAL AIR PRESSURE DROP (INCHES W.G.)	1.0	
	FILTER DEPTH (INCHES)	12	
	FILTER TYPE	CARTRIDGE	
	FILTER MERV RATING	17	
	FILTER INITIAL AIR PRESSURE DROP (INCHES W.G.)	0.89	
	FILTER FINAL AIR PRESSURE DROP (INCHES W.G.)	1.5	
	CASING LINER	SOLID	
	ACCESS DOORS	DRIVE SIDE	
	AIRFLOW LENGTH (INCHES)	16	
ACCESSORIES	FILTER GAUGE		
DISCHARGE PLENUM	CASING LINER	SOLID	
	ACCESS DOORS	DRIVE SIDE ONLY	
	ACCESSORIES	MARINE LIGHT, SMOKE DAMPER	
	AIRFLOW LENGTH (INCHES)	50	
	DISCHARGE OPENING	TOP	
SOUND POWER LEVELS (CASING INLET AND OUTLET)	63 (DB TO <sup>1/2</sup> WATTS)	94 / 95	
	125 (DB TO <sup>1/2</sup> WATTS)	96 / 97	
	250 (DB TO <sup>1/2</sup> WATTS)	96 / 94	
	500 (DB TO <sup>1/2</sup> WATTS)	91 / 89	
	1000 (DB TO <sup>1/2</sup> WATTS)	84 / 79	
	2000 (DB TO <sup>1/2</sup> WATTS)	74 / 69	
	4000 (DB TO <sup>1/2</sup> WATTS)	65 / 57	
	8000 (DB TO <sup>1/2</sup> WATTS)	50 / 51	

DUCT CONSTRUCTION						
DUCT APPLICATION	SMACNA DUCT PRESSURE CLASS	FLEXIBLE DUCT SMACNA PRESSURE CLASS	SMACNA DUCT SEAL CLASS	ROUND/FLAT OVAL DUCT SMACNA LEAKAGE CLASS	RECTANGULAR DUCT SMACNA LEAKAGE CLASS	SMACNA DUCT CLEANLINESS LEVEL
SUPPLY DUCT FROM VAV AHU TO AIR TERMINALS	+4	+10	A	3	6	C
SUPPLY DUCT FROM AIR TERMINALS TO DIFFUSER	+1	+10	C	12	24	C
CV AHU/COU/BSU TO DIFFUSER	+1	+10	C	12	24	C
RETURN DUCT	-2	-2	C	12	24	C
EXHAUST DUCT	-3	-2	B	6	12	C
VENTILATION DUCT	-2	-2	C	12	24	C

SINGLE DUCT SUPPLY AIR TERMINALS WITH REHEAT COILS									HEATING WATER COIL												
DESIGNATION	SERVES	REFERENCE PRODUCT	INLET SIZE (INCHES)	OCCUPIED COOLING MAX. AIRFLOW (CFM)	OCCUPIED COOLING MIN. AIRFLOW (CFM)	UNOCCUPIED COOLING MAX. AIRFLOW (CFM)	UNOCCUPIED COOLING MIN. AIRFLOW (CFM)	TERMINAL 3 PRESSURE DROP (INCHES H <sub>2</sub> O)	OCCUPIED HEATING MAX. AIR FLOW (CFM)	OCCUPIED HEATING MIN. AIR FLOW (CFM)	UNOCCUPIED HEATING MAX. AIR FLOW (CFM)	UNOCCUPIED HEATING MIN. AIR FLOW (CFM)	ROWS	EAT (DEG. F)	LAT (DEG. F)	EWI (DEG. F)	LWT (DEG. F)	GPM	WPD (FEET)	MBH	REMARKS
1F101	ELEVATOR EQUIP. 1F-101	TITUS DESV	10	680	0	680	0	0.18	340	0	340	0	2	55	109	160	140	2.0	0.7	19.6	PROVIDE OCCUPANCY SENSOR
1F102	WAITING 1F-102	TITUS DESV	10	990	400	750	0	0.34	450	450	450	0	2	55	104	160	140	2.4	0.9	23.6	
1F193A	CORRIDOR 1F-193	TITUS DESV	6	240	240	240	240	0.09	240	240	240	240	2	55	102	160	140	1.2	0.4	11.9	
1F193B	CORRIDOR 1F-193	TITUS DESV	6	400	400	400	400	0.22	400	400	400	400	2	55	93	160	140	1.6	0.6	16.3	
1F107	TLT 1F-107, TLT 1F-106,	TITUS DESV	6	120	120	120	120	0.03	120	120	120	120	2	55	114	160	140	0.8	0.2	7.5	PROVIDE OCCUPANCY SENSOR
1F108	RESP 1F-108	TITUS DESV	6	180	160	160	160	0.05	160	160	160	160	2	55	109	160	140	0.9	0.2	9.2	
1F110	SHELL 1F-110	TITUS DESV	6	170	0	170	0	0.05	170	0	170	0	2	55	108	160	140	1.0	0.2	9.5	
1F111	ISOLATION ICU 1F-111	TITUS DESV	8	630	630	550	210	0.30	630	630	550	210	2	55	92	160	140	2.5	1.8	25	
1F114	ICU 1F-114	TITUS DESV	6	370	370	370	370	0.19	370	370	370	370	2	55	94	160	140	1.6	0.6	15.6	OCCUPIED VALUES FOR ISOLATION MODE. FOR NORMAL OPERATION MODE OCCUPIED MAX IS 550, OCCUPIED MIN IS 350
1F141A	NURSE STATION 1F-141	TITUS DESV	10	990	760	990	760	0.34	760	760	760	760	2	55	95	160	140	3.3	1.7	32.6	
1F141B	NURSE STATION 1F-141	TITUS DESV	10	990	760	990	760	0.34	760	760	760	760	2	55	95	160	140	3.3	1.7	32.6	
1F115	ICU 1F-115	TITUS DESV	8	610	610	610	610	0.28	610	610	610	610	2	55	93	160	140	2.5	1.8	24.6	
1F116	ICU 1F-116	TITUS DESV	8	430	430	430	430	0.15	430	430	430	430	2	55	99	160	140	2.0	1.2	20	
1F153	MED 1F-153, NOUR 1F-154	TITUS DESV	6	340	340	340	340	0.17	340	340	340	340	2	55	96	160	140	1.5	0.5	14.8	
1F117	ICU 1F-117	TITUS DESV	6	340	340	340	340	0.17	340	340	340	340	2	55	96	160	140	1.5	0.5	14.8	
1F118	ICU 1F-118	TITUS DESV	8	440	440	440	440	0.16	440	440	440	440	2	55	98	160	140	2.0	1.3	20.3	
1F119	ICU 1F-119	TITUS DESV	8	510	510	510	510	0.21	510	510	510	510	2	55	96	160	140	2.2	1.5	22.2	
1F120	ICU 1F-120	TITUS DESV	6	310	310	310	310	0.14	310	310	310	310	2	55	97	160	140	1.4	0.5	14.0	
C194	CORRIDOR C-194	TITUS DESV	6	200	200	200	200	0.07	200	200	200	200	2	55	105	160	140	1.1	0.3	10.6	
1F121	ICU 1F-121	TITUS DESV	8	490	490	490	490	0.19	490	490	490	490	2	55	96	160	140	2.2	1.4	21.6	
1F122	ICU 1F-122	TITUS DESV	6	360	360	360	360	0.18	360	360	360	360	2	55	95	160	140	1.5	0.6	15.3	
1F123	ICU 1F-123	TITUS DESV	6	290	290	290	290	0.13	290	290	290	290	2	55	98	160	140	0.13	0.5	13.7	
1F124	ICU 1F-124	TITUS DESV	6	370	370	370	370	0.19	370	370	370	370	2	55	94	160	140	1.6	0.6	15.6	
1F125	ICU 1F-125	TITUS DESV	8	510	510	510	510	0.21	510	510	510	510	2	55	96	160	140	2.2	1.5	22.2	
1F152A	NURSE STATION 1F-152	TITUS DESV	10	1140	870	1140	870	0.44	870	870	870	870	2	55	93	160	140	3.5	1.9	35.3	
1F155	LOCKER/BREAK ROOM 1F-155	TITUS DESV	10	670	500	670	500	0.17	500	500	500	500	2	55	102	160	140	2.5	1.1	25.3	PROVIDE OCCUPANCY SENSOR
1F156	WORKROOM/HOUSE STAFF 1F-156	TITUS DESV	6	180	80	180	0	0.05	180	80	180	0	2	55	107	160	140	1.0	0.3	9.9	PROVIDE OCCUPANCY SENSOR
1F157	MED 1F-157, NOUR 1F-156	TITUS DESV	6	340	340	340	340	0.17	340	340	340	340	2	55	96	160	140	1.5	0.5	14.8	PROVIDE OCCUPANCY SENSOR
1F151	HALL 1F-151, STOR 1F-139	TITUS DESV	6	120	0	120	0	0.03	120	0	120	0	2	55	114	160	140	0.8	0.2	7.5	
1F144	CLASSROOM/CONF 1F-144	TITUS DESV	6	310	310	310	310	0.14	310	310	310	310	2	55	97	160	140	1.4	0.5	14.0	
1F140	SOILED UTIL 1F-137 CLEAN UTIL 1F-140	TITUS DESV	8	510	510	510	510	0.21	510	510	510	510	2	55	96	160	140	2.2	1.5	22.2	
1F138	ELEC 1F-138	TITUS DESV	6	260	0	260	0	0.10	-	-	-	-	-	-	-	-	-	-	-	-	
1F145	SOILED UTIL 1F-146 CLEAN UTIL 1F-145	TITUS DESV	8	510	510	510	510	0.21	510	510	510	510	2	55	96	160	140	2.2	1.5	22.2	
1F126	ICU 1F-126	TITUS DESV	6	300	300	300	300	0.13	300	300	300	300	2	55	98	160	140	1.4	0.5	13.7	
1F127	ICU 1F-127	TITUS DESV	8	500	500	500	500	0.20	500	500	500	500	2	55	96	160	140	2.2	1.5	22.2	
1F128	ICU 1F-128	TITUS DESV	6	350	350	350	350	0.18	350	350	350	350	2	55	95	160	140	1.5	0.5	15.1	
1F152B	NURSE STATION 1F-152	TITUS DESV	10	1140	870	1140	870	0.44	870	870	870	870	2	55	93	160	140	3.5	1.9	35.3	OCCUPIED VALUES FOR ISOLATION MODE. FOR NORMAL OPERATION MODE OCCUPIED MAX IS 560, OCCUPIED MIN IS 360
1F129	ICU 1F-129	TITUS DESV	6	280	280	280	280	0.12	280	280	280	280	2	55	99	160	140	1.3	0.4	13.2	
1F149	SLEEP 1F-148, SLEEP 1F-147 HALL 1F-149, TOILET 1F-150	TITUS DESV	6	280	280	280	280	0.12	280	280	280	280	2	55	99	160	140	1.3	0.4	13.2	
1F93C	CORRIDOR 1F-139	TITUS DESV	6	120	120	120	120	0.03	120	120	120	120	2	55	114	160	140	0.8	0.2	7.5	
1F132	ISOLATION ICU 1F-132	TITUS DESV	8	640	640	560	220	0.31	640	640	560	220	2	55	92	160	140	2.5	1.9	25.3	
1F103	SHELL 1F-103	TITUS DESV	10	730	0	730	0	0.20	370	0	370	0	2	55	108	160	140	2.1	1.3	20.8	PROVIDE OCCUPANCY SENSOR
1F133	HEAD NURSE 1F-133	TITUS DESV	6	140	100	140	0	0.03	140	100	140	0	2	55	118	160	140	0.7	0.1	6.7	
1F104	COMM 1F-104	TITUS DESV	6	200	0	200	0	0.10	-	-	-	-	-	-	-	-	-	-	-	-	
1F135	PHYS OFFICE 1F-135	TITUS DESV	6	160	100	160	0	0.04	130	100	130	0	2	55	118	160	140	0.7	0.1	6.7	
1F136	RESIDENT DIRECTOR 1F-136 LOCKERS 2F-100, TLT 2F-101 VESTIBULE 2F-102, SHELL 2F-103	TITUS DESV	6	140	100	140	0	0.03	120	100	120	0	2	55	118	160	140	0.7	0.1	6.7	PROVIDE OCCUPANCY SENSOR
2F100		TITUS DESV	8	450	450	450	450	0.16	450	450	450	450	2	55	98	160	140	2.1	1.3	20.6	
GF144	RO ROOM GF-144	TITUS DESV	6	130	0	130	0	0.03	130	0	130	0	2	55	112	160	140	0.8	0.2	8.0	