

AIR HANDLING UNIT SCHEDULE															
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIR FLOW	AIR FLOW			SUPPLY FAN MARK	EXHAUST FAN MARK	FILTER MARK	PREHEAT COIL MARK	COOLING COIL MARK	REHEAT COIL	HUMIDIFIER MARK	REMARKS
					SUPPLY	MIN OA	RETURN								
					CFM	CFM	CFM								
AH-1 BNHUF-01	ROOF	BLDG 1N	ROOF AHU	VAV	8970	2185	6785	SF -1	EXF-1	F-1, F-2	SHC-1	CWCW-1	AT VAV BOX	STEAM	BY TRANE/THYBAR OR EQUIVALENT SEE ADDITIONAL INFORMATION BELOW
REMARKS: <div>1. REMOVABLE COIL ACCESS PANEL, EACH COIL MODULE</div> <div>2. FACTORY INSTALLED AND WIRED, FULLY PROGRAMMABLE, BACNET, DDC CONTROLS COMPLETE WITH ALL END-DEVICES, SENSORS AND ACTUATORS.</div> <div>3. TRANE CATALYTIC AIR CLEANER (SEE ADDITIONAL INFORMATION UNDER AIR FILTER SCHEDULE.)</div> <div>4. DYNAMIC 2" AIR CLEANERS -97% AIRBORNE PARTICULATE REMOVAL, 0.3MM AND GREATER, MAX FILTER PRESS DROP: 0.31"W.G. @ 300FPM CLEAN. E.C. SHALL PROVIDE 115V/1 OR 208/3 POWER TO FILTER CONTROL MODULE.</div> <div>5. DIRECT DRY PLENUM SUPPLY FAN</div> <div>6. SS CC CASING, SS CC DRAINPAN, SS DRAINPAN IN HUMI SECTION.</div> <div>7. INTEGRAL FACE AND BYPASS STEAM HEATING COIL</div> <div>8. FACTORY INSTALLED VFDS - 3 YEAR PARTS AND LABOR WARRANTY ON VFDS</div> <div>9. ASHRAE 111 CLASS 6 LEAKAGE CASING (<1.0 PERCENT LEAKAGE) AND PANEL DEFLECTION LESS THAN 0.0042 INCHES AT +/- 8 INCHES W.G.</div> <div>10. 2-INCH R13 FOAM-INJECTED CASING, DOUBLE WALLED CONSTRUCTION, NO THROUGH-METAL CASING, THERMAL BREAKS DOORS, TR-VALUE OF 0.6.</div> <div>11. 6" INTEGRAL BASE RAIL</div> <div>12. 14" CURB</div>															

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CHILLED WATER COOLING COIL SCHEDULE																	
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW	MAX FACE VELOCITY	APD	EAT		LAT		TOTAL CAPACITY	SENSIBLE CAPACITY	CHILLED WATER				REMARKS
							Db	Wb	Db	Wb			FLOW	EWT	LWT	WPD	
							CFM	FPM	IN WG	°F			°F	°F	°F	MBH	
CWCC-1	AH-1/ BN10RF-01	IN	AH-1/ BN10RF-01	8670	521	0.915	97	76	55	54.75	640.53	407.54	106.38	44	56	19.84	SEE ADDITIONAL INFORMATION UNDER AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	RATING @ 0.3 MICRONS	AIR FLOW	APO		HOUSING TYPE	CARTRIDGES		REMARKS
						INITIAL	CHANGEOVER		#	SIZE	
						CFM	IN			IN	
F-1	AH-1 BN10RF-01	BLDG IN	AH-1 BN10RF-01	97%	8970	0.31	0.75	ANGLED	4 8	16X25X2 16X20X2	1
F-2	AH-1 BN10RF-01	BLDG IN	AH-1 BN10RF-01	-	8970	-	-	-	-	-	SEE BELOW

F-2 NOTES:
THE CATALYTIC AIR CLEANER SYSTEM SHALL BE A THREE PART INTEGRAL ASSEMBLY FOR TREATMENT OF AIR BY: (1) HIGH EFFICIENCY PARTICLE FILTRATION (2) ULTRAVIOLET GERMICIDAL IRRADIATION (UVG) USING UV-C LAMPS AND FIXTURES; AND (3) PHOTOCATALYTIC OXIDATION (PCO) CATALYST MEDIA USING TITANIUM DIOXIDE (TiO2).

- HIGH EFFICIENCY PARTICLE FILTERS SHALL REMOVE 97% OF PARTICULATE 0.3 MICRONS OR GREATER. FILTERS ARE POSITIONED UPSTREAM OF THE PCO MEDIA.
- UV-C LAMPS AND BALLASTS DESIGNED SPECIFICALLY TO PROVIDE TYPE-C ULTRAVIOLET LIGHT WITH A WAVELENGTH AT OR NEAR 253.7 ANGSTROMS AND SHALL NOT PRODUCE ANY OZONE. LAMPS SHALL BE TEFLOX-COATED TO REDUCE BREAKAGE. SUFFICIENT LAMPS SHALL BE PROVIDED AND POSITIONED CENTER POINT THROUGH THE MEDIA EQUIVALENT FROM EDGES SO AS TO ACHIEVE A MINIMUM AVERAGE OF 9.5 MILLIWATTS PER SQUARE INCH OF UV-C LIGHT, UPSTREAM AND DOWNSTREAM, ACROSS ALL EXPOSED SURFACES OF THE PCO MEDIA. LAMP UV OUTPUT SHALL NOT DROP BELOW 9.5 MILLIWATTS PER SQUARE INCH OVER THEIR USABLE 12000 HR LIFE.
- THE CATALYST MEDIA SHALL CONSIST OF SIX-INCH DEEP (DIRECTION OF AIRFLOW) GRID WITH FACE AREA TO MATCH CASING OPENING, ONE PLEAT PER INCH (NOMINAL), AND COATED WITH 40-200 NANOMETER TiO2. THE COMPLETE PCO MEDIA BANK ASSEMBLY SHALL BE HOUSED IN A GALVANIZED OR STAINLESS STEEL CASING AND PLACED IN THE AIR HANDLER PERPENDICULAR TO THE AIRFLOW. MEDIA SHALL HAVE AN INTERNAL MECHANISM TO ELIMINATE THE SILICA PRODUCED BY THE OXIDATION OF ETHANOL.
- ALL UV LAMPS AND PCO MEDIA SHALL BE REMOVABLE FROM OUTSIDE THE AHU CASING THROUGH A SIDE ACCESS DOOR FOR MAINTENANCE PURPOSES.
- AN AIR FLOW SWITCH SHALL BE WIRED INTO THE CONTROL CIRCUIT TO DISABLE THE UV LIGHTS WHEN THE AHU FAN IS NOT RUNNING.
- ELECTRICAL FIXTURES SHALL MEET THE UL DRIP PROOF DESIGN CRITERIA. FIXTURES SHALL HAVE BEEN TESTED AND RECOGNIZED BY UL/C-UL UNDER CATEGORY CODE ABOK (ACCESSORIES, AIR DUCT MOUNTED), UL STANDARDS 1995.
- ALL POLYMERIC MATERIALS THAT COME INTO DIRECT OR INDIRECT (REFLECTED) CONTACT WITH UV-C LIGHT SHALL BE TESTED AND CERTIFIED AS UV-C TOLERANT. ANY NON-CONFORMING CONSTRUCTION MATERIALS OR COMPONENTS WITHIN THE EXPOSURE ZONE SHALL BE COMPLETELY SHIELDED FROM THE UV-C LIGHT USING A CERTIFIED UV-C TOLERANT MATERIAL. UV-C TOLERANCE IS DEFINED AS BEING CAPABLE OF PERFORMING ITS INTENDED DUTY FOR A MINIMUM OF 20 YEARS.

FAN SCHEDULE																				
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW	TSP	FAN						MOTOR ELECTRICAL							CONTROL SEQUENCE	SONES
				CFM	IN H2O	TYPE	ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER	MIN % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER		PHASE	VOLT	RPM	SPEED CONTROL			
								IN				BHP	HP							
SF-1	AHU-1 BN10RF-01	BLDG 1N	SUPPLY FAN	8970	4.3	PLENUM FAN	FRONT OF AHU-1-1N	22.25	91.7	DIRECT	2084	9.6	10	3	208	1800	VFD	-	-	
EXF-1	AHU-1 BN10RF-01	BLDG 1N	EXHAUST FAN	8970	1.687	PLENUM FAN	REAR OF AHU-1-1N	20	89.5	DIRECT	1375	4.636	5	3	208	1800	VFD	-	-	
EF 1-1N	ROOF	1N11A, 1N23, 1N17, 1N18, 1N24B, 1N24C	BLDG	1000	0.5	CENTRIFUGAL	DOWNBLAST			BELT	1540	0.21	1/4	1	120	1660	CONSTANT	CONSTANTLY RUNNING	9.0	
EF 2-1N	STORAGE 1N5	WAITING 1N6	BLDG	1000	0.375	CENTRIFUGAL INLINE	INLINE HORIZ. DISCHARGE			BELT	1450	0.39	1/2	1	208	1655	CONSTANT	CONSTANTLY RUNNING	14.6	
EF 3-1N	TOILET 1N4	1N25, 1N3, 1N4	BLDG	350	0.5	CENTRIFUGAL INLINE	INLINE HORIZ. DISCHARGE			BELT	1499	0.06	1/4	1	120	1775	CONSTANT	CONSTANTLY RUNNING	7.6	
EF 4-1N	ROOF	1N200B	BLDG	200	0.5	CENTRIFUGAL	DOWNBLAST			BELT	1435	0.08	1/6	1	120	1435	CONSTANT	CONSTANTLY RUNNING	8.9	
EF 1-1E	EQUIPMENT STORAGE E103	WAITING E101	BLDG	1200	0.5	CENTRIFUGAL INLINE	INLINE HORIZ. DISCHARGE			BELT	1040	0.31	1/3	1	120	1170	CONSTANT	CONSTANTLY RUNNING	10.2	
EF 2-1E	EQUIPMENT STORAGE E103	SURGE MODE EXHAUST	BLDG	3290	0.75	CENTRIFUGAL INLINE	INLINE HORIZ. DISCHARGE			BELT	1140	0.85	1.0	1	208	1282	CONSTANT	SURGE MODE	15.2	
EF 5-1N	TOILET 1N4	1N25, 1N3, 1N4	BLDG	350	0.5	CENTRIFUGAL INLINE	INLINE HORIZ. DISCHARGE			BELT	1499	0.06	1/4	1	120	1775	CONSTANT	CONSTANTLY RUNNING	7.6	
EF 6-1N	ROOF	1N21, 1N22	BLDG	500	0.375	CENTRIFUGAL	DOWNBLAST			BELT	1140	0.07	1/6	1	120	1056	CONSTANT	CONSTANTLY RUNNING	9.4	

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