

**SANITIZING EQUIPMENT SCHEDULE**

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	2	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

**MOTORIZED DAMPER SCHEDULE**

TAG	DUCT SIZE [in.]		OPERATION	FAIL POSITION	SPRING RETURN	CONTROL SIGNAL	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
	WIDTH	HEIGHT							MANUFACTURER	MODEL	
MD-1	10"	10"	2-POSITION	CLOSED	YES	24V	GC	GC	BELIMO	AFB24	COORDINATE SIZE WITH ACTUAL DUCT SIZE
MD-2	30"	14"	2-POSITION	CLOSED	YES	24V	GC	GC	BELIMO	AFB24	COORDINATE SIZE WITH ACTUAL DUCT SIZE
MD-3	26"	16"	2-POSITION	CLOSED	YES	24V	GC	GC	BELIMO	AFB24	COORDINATE SIZE WITH ACTUAL DUCT SIZE
MD-4	14"	12"	2-POSITION	CLOSED	YES	24V	GC	GC	BELIMO	AFB24	COORDINATE SIZE WITH ACTUAL DUCT SIZE

**GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE**

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD
CD3	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
CD4	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-12	PROVIDE FACE-ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE INTEGRAL OBD

**LOUVER SCHEDULE**

TAG	DESCRIPTION	SIZE	FREE AREA	FLOW	PRESSURE DROP	MATERIAL	FINISH	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
										MANUFACTURER	MODEL	
LV-1	DRAINABLE OA INTAKE LOUVER	48" X 48"	1.36 SF	2300 CFM	0.04 in-wg	ALUMINUM	TO MATCH WALL	EXT'G	EXT'G	EXT'G	EXT'G	WITH BIRD SCREEN & MOUNTING SYSTEM COMPATIBLE WITH WALL
LV-2	DRAINABLE EXHAUST LOUVER	72" X 24"	0.86 SF	2550 CFM	0.04 in-wg	ALUMINUM	TO MATCH WALL	EXT'G	EXT'G	EXT'G	EXT'G	WITH BIRD SCREEN & MOUNTING SYSTEM COMPATIBLE WITH WALL
LV-3	DRAINABLE EXHAUST LOUVER	24" X 24"	0.86 SF	150 CFM	0.04 in-wg	ALUMINUM	TO MATCH WALL	EXT'G	EXT'G	EXT'G	EXT'G	WITH BIRD SCREEN & MOUNTING SYSTEM COMPATIBLE WITH WALL

**FAN SCHEDULE**

TAG	DRIVE TYPE	SUPPLY FLOW [CFM]	EXHAUST FLOW [CFM]	E.S.P. [in W.C.]	WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
						MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	DIRECT	0 CFM	150 CFM	0.80 in-wg	50	0.42 HP	120/1/60	THS	GC	CAPTIVE-AIRE	CFA700CA	WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER, AND INLINE ADAPTER KIT
PCU-1	BELT	0 CFM	2550 CFM	3.00 in-wg	2010	5 HP	480/3/60	HS	GC	CAPTIVE-AIRE	KB18-PCU	COMBINATION FAN AND POLLUTION CONTROL UNIT WITH 4-STAGE FILTRATION AND ODOR CONTROL. SUPPLY UNIT W/ROOF CURB, DISCONNECT SWITCH, AND FIRE SUPPRESSION.
SF-1	DIRECT	1300 CFM	0 CFM	0.60 in-wg	200	2 HP	480/1/60	HS	GC	CAPTIVE-AIRE	SIF18DD	WITH DISCONNECT, MOTORIZED BACKDRAFT DAMPER AND VIBRATION ISOLATION HANGERS

**PUMP SCHEDULE**

TAG	DESCRIPTION	FLOW [GPM]	HEAD [FT]	WEIGHT [LBS]	SIZE		RPM	ELECTRICAL				BASIS FOR DESIGN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN	REMARKS
					SUCTION	DISCHARGE		MCA	MOCP	POWER	V/P/H					
CP-1	IN-LINE DIRECT COUPLED HYDRONIC PUMP	41	13.62	30	1 1/2"	1 1/2"	1725	2 A	15 A	120 V	120/1/60	BELL & GOSSETT	GC	GC	SERIES PR	SUPPLY UNIT WITH TRIPLE DUTY VALVE

**CONDENSING UNIT SCHEDULE**

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
								MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-404A		200	15 A	6.5 A	208/3/60	WCS	GC	HARFORD	PCL99MOP-3	FURNISHED WITH WALK-IN COOLER

**WATER SOURCE HEAT PUMP SCHEDULE**

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	EER	AIRFLOW			COOLING CAPACITY				HEATING CAPACITY				HEAT EXCHANGER		ELECTRICAL			BASIS FOR DESIGN		REMARKS		
				TOTAL [CFM]	OA [CFM]	ESP [in. W.C.]	NET TOTAL [MBH]	NET SENSIBLE [MBH]	EAT [Deg. F]	DB	WB	EWT [DEG. F]	HEATING OUTPUT MBH	HEATING EAT	W.P.D. [FT]	FLOW [GPM]	APPROXIMATE WEIGHT [lbs]	MOCP	FLA	V/P/H	FURNISHED BY		INSTALLED BY	
				NO.	WIDTH	LENGTH	LENGTH	WIDTH	SP [in. W.C.]	SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH	AIRFLOW [CFM]	NO.	WIDTH	LENGTH	AIRFLOW [CFM]	NO.	DIAMETER	NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY		INSTALLED BY	MANUFACTURER
HP-1	KITCHEN HEAT PUMP	10	14.5	3500	420	1.0	114	66	77	68	86	153.2	65.5	13.1	15.0	600	25 A	21.7 A	408/3/60	HES	GC	YORK	JCV120	FRONT RETURN, TOP SUPPLY. FURNISHED WITH HOSE KIT.
HP-2	DINING ROOM HEAT PUMP	8	15	2800	500	1.0	83	66	76	62	86	118.6	63.8	13.1	12.0	600	20 A	16.9 A	408/3/60	HES	GC	YORK	JCV096	FRONT RETURN, TOP SUPPLY. FURNISHED WITH HOSE KIT.
HP-3	DINING ROOM HEAT PUMP	6	15	2200	500	1.0	61	50	76	62	86	89.7	63.8	13.1	10.0	600	20 A	14.7 A	408/3/60	HES	GC	YORK	JCV072	FRONT RETURN, TOP SUPPLY. FURNISHED WITH HOSE KIT.

**KITCHEN HOOD SCHEDULE**

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM						PERFORATED SUPPLY PLENUMS										BASIS FOR DESIGN		REMARKS			
			DUCT COLLARS			LENGTH	WIDTH	SP [in. W.C.]	MAU PLENUM			AC PLENUM				NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY	INSTALLED BY	MANUFACTURER		MODEL		
			NO.	WIDTH	LENGTH				AIRFLOW [CFM]	NO.	WIDTH	LENGTH	AIRFLOW [CFM]	NO.	DIAMETER									
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°F	1	10"	24"	12' - 9"	4' - 3"	0.1	13' - 9"	19"	1300	3	6"	28"	700	6	8"	8	1100	HES	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH VERTICAL END PANELS, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

**VENTILATION SCHEDULE**

SPACE	AREA		CFM	PEOPLE			CFM	FIXTURE			MIN CFM		CFM PROVIDED	
	AREA	CFM/SF		PEOPLE/1000 SF	PEOPLE	CFM/PERSON		CFM	CFM	CFM	SUBTOTAL	EFFECT		MIN CFM REQUIRED
DINING RM	830	0.18	149.4	70	82	7.5	615	N/A	N/A	N/A	764.4	0.8	955.5	1000
KITCHEN	1200	0.12	144	20	24	7.5	180	N/A	N/A	N/A	324	0.8	405	483
OFFICE	46	0.06	2.76	5	1	5	N/A	N/A	N/A	N/A	7.76	0.8	9.7	17
RESTROOMS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	[50]	[100]	[100]	0.8	[125]	[150]

- NOTES:  
 1. VENTILATION RATE LISTED REGARDS EXHAUST AIR QUALITY.  
 2. EXHAUST RATE IS BASED ON CONTINUOUS FAN OPERATION.

**AIR BALANCE SCHEDULE**

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	150	-150
HP-1	3500	3080	0	420
HP-2	2800	2300	0	500
HP-3	2200	1700	0	500
PCU-1	0	0	2550	-2550
SF-1	1300	0	0	1300
Net Pressurization [CFM]				20

**CONTROL FUNCTIONS**

A. THE MAIN COOKING EXHAUST FAN (PCU-1) AND MAKE-UP AIR FAN (SF-1) SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND HOOD DUCT COLLAR TEMPERATURE SENSOR AND INCLUDES A FIRE PROTECTION OVERRIDE. UPON ACTIVATION OF THE HOOD SWITCH OR THE SENSING OF COOKING TEMPERATURES BY THE DUCT COLLAR TEMPERATURE SENSOR THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR FAN SHALL BE ENERGIZED. UPON ACTIVATION OF THE HOOD FIRE PROTECTION SYSTEM(S) THE SUPPLY AIR FANS SHALL BE DE-ENERGIZED AND THE OUTSIDE AIR DAMPERS SHALL FULLY CLOSE.

B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN TO A PRESET POSITION AND RETURN AIR DAMPERS SHALL CLOSE TO A PRESET POSITION WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON. OUTSIDE AIR DAMPERS SHALL BE FULLY CLOSED AND RETURN AIR DAMPERS FULLY OPEN DURING UNOCCUPIED PERIODS. UPON ACTIVATION OF THE HOOD FIRE PROTECTION SYSTEM(S) THE SUPPLY AIR FANS SHALL BE DE-ENERGIZED AND THE OUTSIDE AIR DAMPERS SHALL FULLY CLOSE.

C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

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FOR CONSTRUCTION

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Contents:  
 HVAC SCHEDULES

M600