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VIROGUARD SCHEDULE							
TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	14" x 14"	CAPTIVE-AIRE DUBSHFA	TDC	GC	ENVIROMATIC

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	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

AIR TERMINAL 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 WITH INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	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	
RG3	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-12	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE WITH INTEGRAL OBD

FAN SCHEDULE												
TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL		
EF-1	UPBLAST UL762 EXHAUST FAN	2,550 CFM	1.20 in-wg	400 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DJ180HFA	DIRECT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB	
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB	

CONDENSING UNIT SCHEDULE														
TAG	DESCRIPTION	NUMBER OF COMPRESSORS		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		CIRCUITS	TYPE	CHARGE	MOC		FLA	V/P/H	MANUFACTURER			MODEL		
CU-1	CONDENSING UNIT - WALK-IN COOLER	1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/3/60	WCS	GC	HARFORD	KPCL99M20P-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER	0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9F	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER	0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5F	FURNISHED WITH ICE MAKER

MAKEUP AIR UNIT SCHEDULE														
TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,300 CFM	0.75 in-wg	225,000 Btu/h	220,000 Btu/h	5 °F	650 lb	1 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

KITCHEN HOOD SCHEDULE																									
TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM						PERFORATED SUPPLY PLENUMS						NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS				
			AIRFLOW	E.S.P.	DUCT COLLARS		LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	WIDTH	AIRFLOW	DUCT COLLARS					DIAMETER	MANUFACTURER		MODEL			
					NO.	WIDTH								NO.									WIDTH		
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	2,550 CFM	0.97 in-wg	1	10"	2' - 0"	12' - 9"	4' - 3"	13' - 9"	1' - 7"	1,300 CFM	3	6"	2' - 4"	700 CFM	6	8"	8	1,150 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 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

ROOFTOP UNIT SCHEDULE																											
TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW			NET COOLING CAPACITY				HEATING CAPACITY			NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
				TOTAL	OA	E.S.P.	TOTAL	SENSIBLE	EAT		COND. EAT	INPUT	OUTPUT	EAT	COMPRESSORS	CIRCUITS	TYPE		CHARGE	MOC	FLA			V/P/H	MANUFACTURER		MODEL
									DB	WB																	
RTU-1	KITCHEN ROOFTOP UNIT	8.5 ton	11	3,000 CFM	500 CFM	0.80 in-wg	88,020 Btu/h	67,400 Btu/h	77.6 °F	63.8 °F	105 °F	120,000 Btu/h	97,200 Btu/h	58.8 °F	2	2	R-410A	9.5 lb	1,450 lb	60 A	48 A	208/3/60	HES	GC	TRANE	YSJ102	FURNISHED WITH COMP. ENTHALPY ECON. WITH CLASS 1 MOTORIZED DAMPERS, BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10 ton	11	3,500 CFM	1,000 CFM	0.80 in-wg	102,760 Btu/h	93,720 Btu/h	81.1 °F	63.6 °F	105 °F	200,000 Btu/h	160,200 Btu/h	51.2 °F	2	2	R-410A	10.1 lb	1,500 lb	70 A	54 A	208/3/60	HES	GC	TRANE	YSJ120	HORIZONTAL DISCHARGE UNIT. FURNISHED WITH COMP. ENTHALPY ECON. WITH CLASS 1 MOTORIZED DAMPERS, BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE

### ECONOMIZER FUNCTIONS

- ECONOMIZERS ARE CONFIGURED FOR PARTIAL COOLING OPERATION EVEN WHERE ADDITIONAL MECHANICAL COOLING IS REQUIRED TO MEET THE LOAD.
- WITH MULTIPLE-STAGE EQUIPMENT, CONTROLS ARE CONFIGURED WITH AIR ECONOMIZERS WITH THE FIRST STAGE OF COOLING.
- USE OF ECONOMIZER SHALL NOT INCREASE BUILDING HEATING ENERGY USAGE.
- MODULATING OUTDOOR AIR AND RETURN AIR DAMPERS ARE CONFIGURED TO PROVIDE UP TO 100% OUTDOOR AIR FOR COOLING.
- CONTROL OF ECONOMIZER DAMPERS IS NOT BASED ONLY ON MIXED AIR TEMPERATURE; OR EXCEPTION APPLIED FOR SYSTEMS WITH COOLING CAPACITY ≤ 65 MBH.
- HIGH LIMIT SHUTOFF FOR COMPARATIVE ENTHALPY ECONOMIZER SHALL BE WHEN THE OUTDOOR AIR ENTHALPY EXCEEDS THE RETURN AIR ENTHALPY, OR 75°F.
- RELIEF AIR OUTLETS ARE SIZED AND CONFIGURED TO RELIEVE EXCESS BUILDING AIR DURING AIR ECONOMIZER OPERATION TO PREVENT BUILDING OVER-PRESSURIZATION.
- RELIEF AIR OUTLETS ARE LOCATED TO AVOID RECIRCULATION INTO THE BUILDING.

### CONTROL FUNCTIONS

- THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- 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 CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM. THIS SHALL INCLUDE AUTOMATIC START CONTROLS TO BRING THE SPACE UP TO DESIGN TEMPERATURE JUST PRIOR TO SCHEDULED OCCUPANCY, AND STOP CONTROLS TO REDUCE THE HEATING SETPOINT AND INCREASE COOLING SETPOINT BY 2°F PRIOR TO SCHEDULED OCCUPIED PERIODS.
- PROVIDE DOOR SWITCHES FOR ALL DOORS THAT LEAD TO THE EXTERIOR. WHEN THE DOOR HAS BEEN OPEN FOR GREATER THAN FIVE MINUTES, THE HEATING AND COOLING TO THE SPACE SHALL BE DISABLED.

AIR BALANCE SCHEDULE				
TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	2,550 CFM	-2,550 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,300 CFM	0 CFM	0 CFM	1,300 CFM
RTU-1	3,000 CFM	2,500 CFM	0 CFM	500 CFM
RTU-2	3,500 CFM	2,500 CFM	0 CFM	1,000 CFM
NET PRESSURIZATION				100 CFM

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