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

A. 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.

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 CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.

C. 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.

D. 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.

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	18" X 18"	CAPTIVE-AIRE DU240HFA	TDC	GC	ENVIROMATIC

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
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.

FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL MOTOR POWER	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
EF-1	UPBLAST UL762 EXHAUST FAN	3,200 CFM	1.20 in-wg	400 lb	3 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DU240HFA	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	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL MOCP	ELECTRICAL FLA	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
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	KPCL99MZOP-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 INPUT	HEATING OUTPUT	HEATING EAT	WEIGHT	ELECTRICAL MOTOR POWER	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,950 CFM	0.80 in-wg	225,000 Btu/h	220,000 Btu/h	21 °F	650 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-G10	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 AIRFLOW	EXHAUST PLENUM E.S.P.	EXHAUST PLENUM DUCT COLLARS NO.	EXHAUST PLENUM DUCT COLLARS WIDTH	EXHAUST PLENUM DUCT COLLARS LENGTH	PERFORATED SUPPLY PLENUMS LENGTH	PERFORATED SUPPLY PLENUMS WIDTH	PERFORATED SUPPLY PLENUMS LENGTH	PERFORATED SUPPLY PLENUMS WIDTH	MAU PLENUM AIRFLOW	MAU PLENUM DUCT COLLARS NO.	MAU PLENUM DUCT COLLARS WIDTH	MAU PLENUM DUCT COLLARS LENGTH	AC PLENUM AIRFLOW	AC PLENUM DUCT COLLARS NO.	AC PLENUM DUCT COLLARS DIAMETER	NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	3,200 CFM	0.86 in-wg	2	10"	1' - 3"	14' - 3"	4' - 3"	15' - 3"	1' - 10"	1,950 CFM	4	10"	2' - 0"	800 CFM	7	8"	10	1,200 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH QUARTER 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 TOTAL	AIRFLOW OA	AIRFLOW E.S.P.	NET COOLING CAPACITY TOTAL	NET COOLING CAPACITY SENSIBLE	NET COOLING CAPACITY EAT DB	NET COOLING CAPACITY EAT WB	NET COOLING CAPACITY COND. EAT	HEATING CAPACITY INPUT	HEATING CAPACITY OUTPUT	HEATING CAPACITY EAT	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	MOTOR POWER (HORSEPOWER)	WEIGHT	ELECTRICAL MOCP	ELECTRICAL FLA	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
RTU-1	KITCHEN ROOFTOP UNIT	6 ton	11	2,400 CFM	500 CFM	0.80 in-wg	71,190 Btu/h	54,410 Btu/h	75.7 °F	63.3 °F	90 °F	120,000 Btu/h	97,200 Btu/h	60.0 °F	2	2	R-410A	9 lb	3.1	1,400 lb	50 A	38 A	208/3/60	HES	GC	TRANE	YSJ072	FURNISHED WITH COMP. ENTHALPY ECONOMIZER WITH CLASS 1 MOTORIZED DAMPERS, BAROMETRIC RELIEF AND FAULT DETECTION AND DIAGNOSTICS, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, MULTI-SPEED FAN., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, UNIT-MOUNTED CONVENIENCE RECEPTACLE & THREE STAGE OF COMPRESSOR OPERATION.
RTU-2	DINING ROOM ROOFTOP UNIT	7.5 ton	11	3,000 CFM	1,000 CFM	0.80 in-wg	87,530 Btu/h	70,000 Btu/h	76.3 °F	63.2 °F	90 °F	150,000 Btu/h	121,500 Btu/h	54.0 °F	2	2	R-410A	9 lb	3.1	1,450 lb	50 A	42 A	208/3/60	HES	GC	TRANE	YSJ090	FURNISHED WITH COMP. ENTHALPY ECONOMIZER WITH CLASS 1 MOTORIZED DAMPERS, BAROMETRIC RELIEF AND FAULT DETECTION AND DIAGNOSTICS, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, MULTI-SPEED FAN., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, UNIT-MOUNTED CONVENIENCE RECEPTACLE & THREE STAGE OF COMPRESSOR OPERATION.

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	NOTES
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
CD3	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4320A TYPE S	PROVIDE WITH INTEGRAL OBD
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

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	3,200 CFM	-3,200 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,950 CFM	0 CFM	0 CFM	1,950 CFM
RTU-1	2,400 CFM	1,900 CFM	0 CFM	500 CFM
RTU-2	3,000 CFM	2,000 CFM	0 CFM	1,000 CFM
NET PRESSURIZATION				100 CFM

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Issue Record:

01/13/2023	PERMIT SUBMITTAL

Revisions:

Drawn: JAE
Checked: JAE

Project No.
220073

Contents:
HVAC SCHEDULES

M600