GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
BS1	BATHROOM AIR PURIFICATION UNIT	5.44" X 16"	ALUMINUM	STAINLESS STEEL	GYP CEILING	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD
CD2	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	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	24" X 24"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	
RG3	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-14	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE INTEGRAL OBD

VIROGUARD SCHEDULE

TAG	QUANITITY	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

FAN SCHEDULE

TAG	DRIVE TYPE	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	3200 CFM	1.20 in-wg	400	3 HP	208/3/60	HS	GC	CAPTIVE-AIRE	DU240HFA	FURNISHED WITH DISCONNECT AND VENTED ROOF CURB
EF-2	DIRECT	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

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW		HEATING CAPACTIY				APPROXIMATE WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		SUPPLY FLOW [CFM]	E.S.P. [in. W.C.]	INPUT [MBH]	OUTPUT [MBH]	MAXIMUM TURNDOWN	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	MAKEUP AIR UNIT	2650	0.80	168	155	12.5:1	16 °F	650	2 HP	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-G10	FURNISHED WITH DISCONNECT, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

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
CU-2	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER
CU-3	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER
CU-4	OUTDOOR VRF HEAT PUMP WITH HEAT RECOVERY SYSTEM	20	2	1	R410A	110.1 lbs	1235	125 A	75.0 A	208/3/60	HES	LL GC	MITSUBISHI	TURYE-2403AN40AN	FURNISHED WITH TWINNING KIT, BC CONTROLLER, LOW AMBIENT KIT, AND HAIL GUARD. ELECTRICAL REQUIREMENTS ARE FOR EACH OF TWO SECTIONS.

VRF AIR HANDLING UNITS

TAG	QTY	DESCRIPTION	NOMINAL CAPACITY [TONS]	AIRFLOW		COOLING CAPACITY		NUMBER OF CIRCUITS	HEATING CAPACITY		APPROXIMATE WEIGHT [lbs]	ELECTRICAL			BASIS FOR DESIGN		REMARKS
				TOTAL [CFM]	OA [CFM]	TOTAL [MBH]	COND. EAT [Deg. F]		HEATING CAPACITY [MBH]	HEATING EAT [Deg. F]		MOCP	FLA	V/P/H	MANUFACTURER	MODEL	
AH-BC	1	VRF BRANCH CONTROLLER									150			208/1/60			
AHU-1	1	KITCHEN VRF INDOOR DUCTED UNIT	8	2950	0	87	98	1	58	67	240	15 A	8.2 A	208/1/60	MITSUBISHI	PEFY-P096MH140A	PROVIDE EXTERNAL CONDENSATE PUMP, VIBRATION ISOLATORS
AHU-2	1	DINING VRF DUCTED UNIT	8	2950	600	82	98	1	58	57	240	15 A	8.2 A	208/1/60	MITSUBISHI	PEFY-P096MH140A	PROVIDE EXTERNAL CONDENSATE PUMP, VIBRATION ISOLATORS
AHU-3	1	DINING VRF DUCTED UNIT	4	1300	200	48	98	1	48	57	100	15 A	5.7 A	208/1/60	MITSUBISHI	PEFY-P048MA144A	PROVIDE EXTERNAL CONDENSATE PUMP, VIBRATION ISOLATORS
AHU-4	1	VRF WALL-MOUNT INDOOR UNIT	1.5	440	0	16	98	1	11	57	50	15 A	0.4 A	208/1/60	MITSUBISHI	PKFY-P18NHMU-E	PROVIDE EXTERNAL CONDENSATE PUMP
AHU-5	1	VRF WALL-MOUNT INDOOR UNIT	1.5	440	0	16	98	1	11	57	50	15 A	0.4 A	208/1/60	MITSUBISHI	PKFY-P18NHMU-E	PROVIDE EXTERNAL CONDENSATE PUMP

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM							PERFORATED SUPPLY PLENUMS										NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			AIRFLOW [CFM]	SP [in. W.C]	DUCT COLLARS			LENGTH	WIDTH	SP [in. W.C.]	SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH	MAU PLENUM				AC PLENUM										
					NO.	WIDTH	LENGTH						AIRFLOW [CFM]	DUCT COLLARS			AIRFLOW [CFM]	DUCT COLLARS									
														NO.	WIDTH	LENGTH		NO.	DIAMETER					MANUFACTURER	MODEL	
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°F	3200	0.86	2	10"	15"	14' - 3"	4' - 3"	0.2	15' - 3"	22"	1950	3	10"	28"	800	7	8"	10	1200	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH 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

AIR BALANCE SCHEDULE

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
AHU-1	2950	2950	0	0
AHU-2	2950	2350	0	600
AHU-3	1300	1100	0	200
AHU-4	440	440	0	0
AHU-5	440	440	0	0
EF-1	0	0	3200	-3200
EF-2	0	0	150	-150
MAU-1	2650	0	0	2650
Net Pressurization [CFM]				100

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.

VRF PRE-INSTALLATION REQUIREMENTS

1. INSTALLING CONTRACTORS MUST BE CERTIFIED TO INSTALL MITSUBISHI VRF SYSTEMS THROUGH THE CITY MULTI ESSENTIALS 3-DAY TRAINING COURSE. SUCCESSFUL COMPLETION OF THE COURSE FROM THE INSTALLING CONTRACTOR EXTENDS THE STANDARD 5-YEAR WARRANTY ON THE INSTALLED EQUIPMENT TO 10 YEARS. COST AND DETAIL CAN BE FOUND AT: WWW.MITSUBISHIPRO.COM/TRAINING
2. CONTRACTOR TO VERIFY AS-BUILT PIPING LENGTH TO PROVIDE TO TRANE PRIOR TO RELEASE OF EQUIPMENT. AS-BUILT PIPING LENGTHS ARE REQUIRED TO ENSURE PROPER PIPE SIZE, ACCURATE ADDITIONAL REFRIGERANT CHARGE AND ARE REQUIRED FOR EXTENDED WARRANTY.

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