

KITCHEN HOOD SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL	HOOD SIZE	EXHAUST AIR				MAKE-UP AIR				FILTERS				LIGHTS		FIRE SUPPRESSION SYSTEM		ELECTRICAL				WEIGHT				
					EXHAUST (CFM)	EXHAUST S.P. (IN. WC)	NUMBER OF CONNECTIONS	EXHAUST CONNECTIO N SIZE	MAKE-UP (CFM)	MAKE-UP S.P. (IN. WC)	NUMBER OF CONNECTIONS	MAKE-UP CONNECTIO N SIZE	PLENUM LOCATION S	PLENUM SIZES	LENGTH	HEIGHT	QUANTITY	TYPE	MATERIAL	EFFICIENCY @ 9 MICRONS	QUANTITY	TYPE	TYPE	MANUF.		LIGHTING CIRCUIT	CONTROL CIRCUIT	EXHAUST FAN	MAKE-UP FAN
H-1	SINGLE ISLAND	CAPTIVEAIRE	ND-2W/PSP-FB	180"x64"	4,035	0.747	2	16"	3,430	0.129	6	29"x10"	BACK & FRONT	180"x12"	16"	20"	11	S BAFFLE	STAINLESS STEEL	90%	5	L55 INCANDESCENT	AUTOMATIC WET CHEMICAL	ANSUL	1201/60	1201/60	208/360	208/360	1 THRU 13

NOTES/ACCESSORIES:
1. DEMAND CONTROL VENTILATION SYSTEM WITH VFD'S FOR EXHAUST AND MAKE-UP FANS. 6. PROVIDE AND INSTALL SEISMIC RESTRAINT CABLES FOR HOOD.
2. PROVIDE LINE REACTORS WITH VFD'S. 7. HOOD DIMENSION SHOWN DOES NOT INCLUDE UTILITY CABINET.
3. SUPPLY PLENUMS SHALL HAVE PERFORATED SUPPLY GRILLES.
4. END MOUNTED UTILITY CABINET FOR CONTROLS AND FIRE SUPPRESSION SYSTEM.
5. INTERLOCK WITH SHUNT TRIP BREAKER FOR COOKING EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.

100% OA SPLIT SYSTEM HEAT PUMP SYSTEM SCHEDULE

EQUIPMENT NUMBER	MANUF.	MODEL	INDOOR UNIT (AHU)												OUTDOOR UNIT (HP)						NOTES AND ACCESSORIES								
			AIRFLOW (CFM)	E.S.P. (IN. WC)	T.S.P. (IN. WC)	SUPPLY FAN DIA (INCHES)	SUPPLY FAN RPM	BHP	MOTOR HP	ELECTRICAL (V/PH/Hz)	TOTAL (MBH)	SENSE (MBH)	COIL E.A.T. ('F DBWB)	COIL L.A.T. ('F DBWB)	ROWS	COIL FACE VELOCITY (FPM)	HEATING @ 47°F	AUX. ELECTRIC HEAT (KW)	HOT GAS RE-HEAT COIL CAPACITY (MBH)	MCA		MOCP	V/PH/Hz	MODEL	# OF COMPRESSORS	# OF REFRIGERANT CIRCUITS	MCA	MOCP	V/PH/Hz
AHU-1/HP-1	AAON	H3-ARB-8-0-141D	500	0.75	1.27	11.2	2,032	0.18	1.1	208/3/60	35.1	21.5	96/76	53.59/53.66	4	240	36.6	10.5	10	39.0	40	208/3/60	CFA-003-A-0-0-D	2	2	42.0	50	208/3/60	1 THRU 17
AHU-2/HP-2	AAON	H3-ARB-8-0-162C	1,595	1.0	2.21	15.9	1,638	1.00	2.3	208/3/60	106.9	66.3	96/76	55.34/55/14	6	450	118.1	21.0	28	75.0	80	208/3/60	CFA-003-A-0-0-D	2	2	42.0	50	208/3/60	1 THRU 16

* ACCEPTABLE ALTERNATE MANUFACTURES: ADDISON
NOTES/ACCESSORIES:
1. LEAD COMPRESSOR SHALL BE VARIABLE CAPACITY DIGITAL SCROLL COMPRESSOR. 6. PHASE & BROWNOUT PROTECTION FOR OUTDOOR UNIT. 11. REMOTE LCD CONTROL PANEL, MOUNT IN MECHANICAL ROOM 147. 16. OA DAMPER SHALL BE LOW LEAK TYPE AND SHALL HAVE 5% OR LESS LEAKAGE AT 1.0" W.G.
2. DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INJECTED INSULATION. 7. MOTORIZED OUTSIDE AIR DAMPER. 12. MERV 13 FILTERS.
3. MODULATING HOT GAS REHEAT. 8. SPRING ISOLATORS FOR AIR HANDLING UNIT. 13. REFRIGERANT PIPING SPECIALTIES (TRAPS, FILTER DRYERS, RECEIVERS, ETC) AS REQUIRED BY THE MANUFACTURER.
4. BACKWARD INCLINED SUPPLY FAN WITH VFD. 9. AUXILIARY CONDENSATE DRAIN PAN WITH FLOAT SWITCH WIRED FOR UNIT SHUTDOWN. 14. DUAL REFRIGERATION CIRCUITS; DUAL COMPRESSORS. 17. LOUVERED COIL GUARDS.
5. ECM CONDENSER FAN MOTOR HEAD PRESSURE CONTROL. 10. FIELD INSTALLED SUPPLY AIR TEMP. SENSOR, OA TEMPERATURE SENSOR, OA HUMIDITY SENSOR. 15. SUPPLY FAN MOTORS SHALL MEET NEMA PREMIUM ENERGY EFFICIENT MOTOR PROGRAM.

VRF BRANCH SELECTOR SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	POWER SUPPLY			OPER. WT. (LBS)
			ELECT. CHAR. (V/PH/Hz)	MCA	MOCP	
BS-1-1	DAIKIN	BS60S4TVJ	208/1/60	0.6	15	68
BS-2-1	DAIKIN	BS60S4TVJ	208/1/60	0.6	15	68
BS-2-2	DAIKIN	BS40S4TVJ	208/1/60	0.4	15	49
BS-2-3	DAIKIN	BS40S4TVJ	208/1/60	0.6	15	68

* ACCEPTABLE ALTERNATE MANUFACTURES: TRANE, LG, SAMSUNG
NOTES/ACCESSORIES:
1. INSTALL PER MANUFACTURER'S REQUIREMENTS.
2. PROVIDE AND INSTALL SEISMIC RESTRAINTS.

VRF HEAT PUMP SYSTEM (WITH HEAT RECOVERY) SCHEDULE

EQUIPMENT NUMBER	AREA SERVED	MANUF.	INDOOR UNIT MODEL	INDOOR UNIT				OUTDOOR UNIT				NOTES AND ACCESSORIES										
				TOTAL (MBH)	SENSE (MBH)	HEATING (MBH)	AIRFLOW (CFM)	EQUIPMENT NUMBER	MODEL NUMBER	MANUF.	CAPACITY (MBH)		EER	POWER SUPPLY (ELECT. CHAR. V/PH/Hz)	OPER. WT. (LBS)							
IU-1-1	OFFICES A,B,C	DAIKIN	FXMQ18P6VJU	14.2	13.1	6.0	585	75	208/1/60	1.6	15	79	VRF-1	REYQ96TJU	DAIKIN	77.1	13.1	208/3/60	38.0	45	703	1 THRU 10
IU-1-2	LOBBY 100, DIR. 101, ADMIN. 103	DAIKIN	FXMQ18P6VJU	12.0	11.9	8.4	335	85	208/1/60	1.6	15	79										
IU-1-3	CORRIDOR 107 & 118/ALCOVE 108	DAIKIN	FXTQ24P6VJU	14.1	11.8	3.5	470	100	208/1/60	1.6	15	145										
IU-1-4	OFFICES D,E,F	DAIKIN	FXMQ18P6VJU	13.4	12.5	6.0	565	75	208/1/60	1.6	15	79										
IU-1-5	133 BREAKROOM	DAIKIN	FXQ015M1VJ9	7.5	-	4.0	388	-	208/1/60	0.8	15	42										
IU-2-1	156 COMPUTER LAB	DAIKIN	FXTQ48P6VJU	27.0	27.0	4.0	1,600	150	208/1/60	6.0	15	176										
IU-2-2	154 CLASSROOM	DAIKIN	FXTQ24P6VJU	13.5	13.5	4.0	800	120	208/1/60	1.6	15	145										
IU-2-3	153 CLASSROOM	DAIKIN	FXTQ24P6VJU	15.6	15.5	4.0	800	120	208/1/60	1.6	15	145										
IU-2-4	152 CLASSROOM	DAIKIN	FXTQ24P6VJU	17.3	15.2	4.0	1,000	150	208/1/60	2.4	15	145										
IU-2-5	141, 146, 150 OFFICES	DAIKIN	FXQ039TAVJUA	7.3	6.0	0.5	300	30	208/1/60	4.9	15	119										
IU-2-6	144 WELLNESS	DAIKIN	FXTQ18P6VJU	12.0	8.4	0.5	600	45	208/1/60	1.9	15	119										
IU-2-7	134 CULINARY	DAIKIN	FXTQ18P6VJU	31.4	28.0	1.0	1,600	150	208/1/60	6.0	15	167										
IU-2-8	RESTROOMS, CORRIDOR	DAIKIN	FXTQ18P6VJU	19.0	19.0	6.0	1,200	135	208/1/60	3.3	15	145										
IU-2-9	131 LEADERSHIP TRAINING	DAIKIN	FXTQ18P6VJU	19.1	16.8	6.0	1,000	150	208/1/60	2.4	15	145										
IU-2-10	136 ARTS & CRAFTS	DAIKIN	FXTQ18P6VJU	19.3	16.8	6.0	1,000	150	208/1/60	2.4	15	145										
IU-2-11	139A CONFERENCE	DAIKIN	FXTQ18P6VJU	16.9	15.2	5.0	1,000	125	208/1/60	2.4	15	145										
IU-2-12	139B CONFERENCE	DAIKIN	FXTQ18P6VJU	17.1	15.3	5.0	1,000	125	208/1/60	2.4	15	145										
IU-2-13	139C CONFERENCE	DAIKIN	FXTQ18P6VJU	18.2	16.5	7.0	1,000	125	208/1/60	2.4	15	145										

* ACCEPTABLE ALTERNATE MANUFACTURES: TRANE, LG, SAMSUNG
COOLING AND HEATING CAPACITIES SHOWN ARE THE REQUIRED CAPACITIES THE UNITS MUST MEET BASED PERFORMANCE OF THE UNITS WITH ACTUAL PIPING CONFIGURATION.
UNIT RINGS AND PERFORMANCE SHALL BE BASED ON OUTDOOR TEMPERATURES OF 95°F SUMMER AND 22° WINTER, INDOOR TEMPERATURES OF 75°F/50%RH SUMMER AND 70°F WINTER.
NOTES/ACCESSORIES:
1. PROVIDE WIRED PROGRAMMABLE ROOM TEMPERATURE CONTROLLER (WITH TEMPERATURE SENSOR) FOR EACH INDOOR UNIT.
2. PROVIDE TOUCH SCREEN CENTRAL CONTROL PANEL, LOCATE IN OFFICE.
3. PROVIDE FACTORY BRANCH FITTINGS FOR ALL REFRIGERANT BRANCH LINE CONNECTIONS.
4. PIPING AND INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS & MANUFACTURER'S REQUIREMENTS.
5. PROVIDE GLOBAL PLASMA SOLUTIONS MODEL FC BI-POLAR IONIZATION UNIT FOR ALL CEILING CASSETTE UNITS.
6. PROVIDE GLOBAL PLASMA SOLUTIONS MODEL RVI BI-POLAR IONIZATION UNIT FOR ALL DUCTED INDOOR UNITS.
7. PROVIDE ISOLATION VALVES AT EACH OUTDOOR UNIT AND AT EACH INLET AND OUTLET AT ALL BRANCH SELECTORS.
8. PROVIDE CONDENSATE PUMP WITH CEILING CASSETTE AND HORIZONTAL CONCEALED INDOOR UNITS.
9. PROVIDE FILTER HOUSINGS WITH MERV 13 FILTERS FOR ALL DUCTED UNITS.
10. PROVIDE SEISMIC RESTRAINT CABLES FOR EACH CEILING CASSETTE AND HORIZONTAL CONCEALED INDOOR UNIT.

ELECTRIC HEATER SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	KW	ELECTRICAL (V/PH/Hz)	ACCESSORIES
EH-1	REDD-I	AFA240D	3.0	208/1/60	1,2,3

EQUAL PRODUCTS BY MARKEL & O-MARK.
ACCESSORIES:
1. RECESS MOUNTED
2. TAMPER-PROOF THERMOSTAT
3. FACTORY DISCONNECT

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	CORRECTION	FACE	MANUF.	MODEL	NO.	ACCESSORIES
SA	SUPPLY AIR FAN	8"Ø48"	20"Ø48"	TITUS	TDC	16	1
SB	4.0WAT	8"Ø48"	20"Ø48"	TITUS	TDC	20	1
SC	SUPPLY AIR FAN	12"Ø48"	30"Ø48"	TITUS	TDC	16	1
SD	SUPPLY AIR FAN	12"Ø48"	24"Ø48"	TITUS	TDC	25	1
SE	SUPPLY AIR FAN	12"Ø48"	12"Ø48"	TITUS	TDC	30	1
SA	SUPPLY AIR FAN	8"Ø48"	14"Ø48"	TITUS	TDC	16	2,4
SB	SUPPLY AIR FAN	8"Ø48"	14"Ø48"	TITUS	TDC	20	2,4
SA	RETURN AIR FAN	20"Ø48"	20"Ø48"	TITUS	350RL	+16	2
SB	RETURN AIR FAN	24"Ø48"	24"Ø48"	TITUS	350RL	+15	1,3
SC	SUPPLY AIR FAN	24"Ø48"	24"Ø48"	TITUS	350RL	+11	2
SA	EXHAUST	8"Ø48"	24"Ø48"	TITUS	350RL	+15	2,3

EQUAL PRODUCTS BY: PRICE, METALAIR, TITUS, TUTTLE & BAILEY, VALOR
ALL PRODUCTS SHALL BE WHITE COLOR UNLESS NOTED OTHERWISE.
ALL DIFFUSERS AND GRILLES SHALL HAVE A PRESSURE DROP OF 0.31 OR LESS AT DESIGN AIR FLOWING.
ACCESSORIES:
1. LAY-FL GELING
2. SURFACE MOUNT
3. 7" DEEP PLENUM
4. BEVELED.

EXHAUST FAN SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	AIRFLOW	E.S.P. (IN. WC)	FAN RPM	DRIVE	MOTOR WATTS OR HP	SONES	ELECTRICAL (V/PH/Hz)	ACCESSORIES
EF-1	PENN-BARRY	ZJ1	75	0.375	677	DIRECT	77 W	3.0	115/1/60	1,2,3,4
EF-2	PENN-BARRY	ZJ1	75	0.375	677	DIRECT	77 W	3.0	115/1/60	1,2,3,4
EF-3	PENN-BARRY	ZJ1	75	0.375	677	DIRECT	77 W	3.0	115/1/60	1,2,3,4
EF-4	PENN-BARRY	SK115SRC	600	0.375	972	DIRECT	1/3 HP	3.2	115/1/60	1,2,3,5,6,11
EF-5	PENN-BARRY	WF24BH	4,635	1.25	948	BELT	2.0 HP	15.0	208/3/60	3,7,8,9,12
EF-6	PENN-BARRY	28H	200	0.75	1013	DIRECT	130 W	2.9	115/1/60	1,2,3,4,10

EQUAL PRODUCTS BY GREENECK, COOK, TWRN CITY, CARNES.
ACCESSORIES:
1. BACKDRAFT DAMPER 6. FLEX CONNECTIONS AND SPRING ISOLATORS 11. PROVIDE AND INSTALL SEISMIC RESTRAINT CABLES.
2. SPEED CONTROLLER 7. UL 782 RATED 12. SUPPLY FAN MOTOR SHALL MEET NEMA PREMIUM ENERGY EFFICIENT MOTOR PROGRAM.
3. FACTORY DISCONNECT 8. PROVIDE WITH GREASE CLIP
4. CEILING MOUNTED WITH GRILLE 9. INVERTER DUTY MOTOR
5. INSULATED CABINET 10. WALL MOUNTED THERMOSTAT

MAKE-UP AIR FAN SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	AIRFLOW	E.S.P. (IN. WC)	FAN RPM	DRIVE	MOTOR WATTS OR HP	SONES	ELECTRICAL (V/PH/Hz)	ACCESSORIES
MUAF-1	PENN-BARRY	SK205BC	3,430	1.25	1048	BELT	1.5 HP	13.8	208/3/60	1,2,3,5,6,7,8,9

EQUAL PRODUCTS BY GREENECK, COOK, TWRN CITY, CARNES.
ACCESSORIES:
1. INLET FILTER BOX WITH 2" MERV 13 FILTER 4. SPRING HANGING ISOLATORS 7. INVERTER DUTY MOTOR
2. AUTOMATIC BELT TENSIONER 5. INSULATED CABINET 8. MOTOR SHALL MEET NEMA PREMIUM ENERGY EFFICIENT MOTOR PROGRAM.
3. FLEX DUCT CONNECTORS 6. MOTOR COVER 9. PROVIDE MOTORIZED OA DAMPER. OA DAMPER SHALL BE LOW LEAK TYPE AND SHALL HAVE 5% OR LESS LEAKAGE AT 1.0" W.G.

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