PACKAGED ROOFTOP A.C. UNIT SCHEDULE (GAS/ELEC)

MARK	SERVES	TYPE	CFM	O.A. CFM	FAN				EVAPORATOR					CONDENSER			INDERECT GAS FIRED HX				ELEC. CHAR.		MOCP	MCA	MANUFACTURER	MODEL	WEIGHT (LBS)	TONS	EER /SEER	REMARKS
					MOTOR	E.S.P.	B.H.P.	RPM	E.A.T. db	E.A.T. wb	L.A.T. db	L.A.T. wb	MBH TOTAL	MBH SENS.	AMB.	NO. FANS	H.P.	E.A.T. db	L.A.T. db	MBH INPUT	MBH OUTPUT	VOLTS	PHASE							
RTU-1	MAIN SALES	CONSTANT VOLUME	23,000	7,100	BELT	1.5"	19.4	933	77.9	65.4	46.9	46.3	964,915	613,877	95	8	1.0	53.3	50.9	1,600	1,280	460	3	200	188	SEASONS-4	1RJK47-0804 PN16 - 23SE	17,250	80	11.5	①②⑨④⑤⑧
RTU-2	AIR ENTRANCE	CONSTANT VOLUME	20,000	–	BELT	2.25"	(2)@8.83	1196	–	–	–	–	–	–	–	–	–	60.0	89.2	780	631.8	460	3	70	49	AAON	RN-031-0-0000-3B9	3920	–	11.0	⑤③⑭
RTU-3	VESTIBULE	CONSTANT VOLUME	2000	200	BELT	1.0"	1.65	1444	76.7	65.3	56.7	55.3	63.3	43.2	95	1	.25	60.7	103.9	115/82	93.15	460	3	20	14.7	CARRIER	48HJE006-6-HQ	900	5	13	①②④⑤
RTU-4	SEATING AREA 1	CONSTANT VOLUME	5000	1000	BELT	.8"	4.50	1151	77.0	66.0	57.0	56.6	147.7	104.1	95	2	.25	53.4	90.4	250/200	200	460	3	35	29.1	CARRIER	48HJE014-6-HQ	1300	12.5	9.60	①②④⑤
RTU-5	SEATING AREA 2	CONSTANT VOLUME	3000	600	BELT	1.0"	2.48	900	81.1	65.3	58.0	55.5	89.7	74.8	95	1	.25	53.4	99.0	180/120	147.6	460	3	25	19.2	CARRIER	48HJE008-6-HQ	1200	7.5	11.0	①②④⑤
RTU-6	KITCHEN	CONSTANT VOLUME	4450	4450	BELT	1.0"	2.43	1171	95.0	76.0	57.8	57.2	269.8	167.2	95	2	1.0	-5.0	81.9	550	457	460	3	60	50	REZNOR	RDDA-230-550	2500	22.5	10.9	①②⑤⑥⑦⑭

NOTE: SELECTIONS ARE BASED ON CARRIER EQUIPMENT, ACCEPTABLE ALTERNATIVE MANUFACTURERS ARE TRANE AND YORK.

REMARKS:

① CONTRACTOR SHALL FURNISH AND INSTALL UNIT WITH FACTORY ROOF CURB. LEVEL UNITS AS REQUIRED TO ADJUST FOR ROOF SLOPE. CURB IS NOT REQUIRED FOR RTU-1.

② PROVIDE FULL SIZE CONDENSATE DRAIN PIPING.

③ PROVIDE UNIT WITH HOT GAS REHEAT, HEAT RECLAIM AND ALL CONTROLS.

④ UNIT FURNISHED WITH OUTSIDE AIR ECONOMIZER WITH FACTORY MOUNTED DIFFERENTIAL ENTHALPY CONTROLS, AND BAROMETRIC RELIEF.

⑤ FURNISH GAS PRESSURE REGULATOR AS REQ'D. TO INTERFACE WITH 14" W.C. GAS PRESSURE AND RTU MIN/MAX INLET PRESSURE REQUIREMENTS.

⑥ PROVIDE UNIT WITH HOT GAS BYPASS AND ALL CONTROLS.

⑦ PROVIDE UNIT WITH O.A. RELATIVE HUMIDITY TRANSMITTER AND DOWN FLOW ROOF CURB MPCU31.

⑧ UNIT SHALL BE MOUNTED ON DUNNAGE, BLANK-OFF AND SEAL UNDERSIDE OF UNIT SUCH THAT THERE IS NO EXPOSED INSULATION AND WATER INTRUSION.

⑨ CONTRACTOR SHALL FURNISH AND INSTALL UNIT WITH FACTORY ROOF CURB SUPPLIED WITH UNIT. LEVEL UNITS AS REQUIRED TO ADJUST FOR ROOF SLOPE.

⑩ CONTRACTOR SHALL FURNISH AND INSTALL UNIT WITH409 STAINLESS STEEL HEAT EXCHANGER AND 6:1 MODULATING GAS VALVE.

GAS HEATER SCHEDULE

MARK	SERVES	MOTOR HP	CFM	VOLTS/ PHASE	FLUE SIZE	INPUT MBH	OUTPUT MBH	MANUFACTURER	MODEL	REMARKS
GUH-1	RECIEVING	0.25	1537	120/1ø	4"	125	99.6	REZNOR	UDAP-125	①②③④⑤

NOTE: SELECTIONS ARE BASED ON REZNOR EQUIPMENT, ACCEPTABLE ALTERNATIVE MANUFACTURERS ARE STERLING AND MODINE.

REMARKS:

① PROVIDE WITH CLI THERMOSTAT.

② PROVIDE WITH CMI GAURD.

③ PROVIDE WITH CEILING SUSPENSION KIT.

④ PROVIDE WITH FACTORY ROOF CONCENTRIC VENT TERMINATION KIT.

⑤ PROVIDE GAS REGULATOR FOR 14" W.C. GAS PRESSURE.

GAS FIRED MAKE-UP AIR UNIT

UNIT MARK	MUA-1	MUA-2	MUA-3
AREA SERVED	HOOD H-1,1A,1B	HOOD H-6,6A	HOOD H-7
CFM	5363	2840	3010
E.S.P. INCHES W.G.	1.0"	1.0"	1.0"
MOTOR HP	5.0	1.5	1.5
FAN RPM	1025	689	715
VOLTS/PHASE	460/3ø	460/3ø	460/3ø
MBH OUTPUT	405	214	227
MODEL NO.	A2-0.500-G15	A1-0.500-G15	A2-0.500-G15
MANUFACTURER	CAPTIVEAIRE	CAPTIVEAIRE	CAPTIVEAIRE
REMARKS	①⑤③④⑤⑥⑦	①②③④⑤⑥⑦	①②③④⑤⑥⑦

NOTE: SELECTIONS ARE BASED ON CAPTIVEAIRE EQUIPMENT, ACCEPTABLE ALTERNATIVE MANUFACTURER IS REZNOR.

REMARKS:

① PROVIDE WITH MOTORIZED BACKDRAFT DAMPER.

② PROVIDE WITH INSULATED CURB.

③ PROVIDE SLOPED FILTER INTAKE W/ WEATHERHOOD & BIRDSCREEN.

④ PROVIDE WITH 2-STAGE FURNACE CONTOL.

⑤ PROVIDE WITH CONTROL CENTER W/DISC, STARTERS.

⑥ PROVIDE WITH FREEZESTAT – BLOWER.

⑦ PROVIDE GAS REGULATOR FOR 14" W.C. GAS PRESSURE.

ELECTRIC WALL MNTD. UNIT HEATER SCHEDULE

MARK	SERVICE	LOCATION	VOLT/PHASE	HEAT OUTPUT (WATTS)	MANUFACTURER	MODEL NO.	REMARKS
EWH-1	WOMENS 216	WALL	277/1ø	4000	QMARK	AWH4407	①②③
EWH-2	MENS 217	WALL	277/1ø	4000	QMARK	AWH4407	①②③
EWH-3	STAIR #1	WALL	277/1ø	4000	QMARK	AWH4407	①②③
EWH-4	STAIR #2	WALL	277/1ø	4000	QMARK	AWH4407	①②③

NOTE: SELECTIONS ARE BASED ON QMARK EQUIPMENT, ACCEPTABLE ALTERNATIVE MANUFACTURERS ARE MARKEL AND CHROMALOX.

REMARKS:

① PROVIDE UNIT WITH INTERGRAL TAMPER-PROOF THERMOSTAT.

② PROVIDE UNIT WITH RECESSED MOUNTINC BOX OPTION.

③ COORDINATE FINAL MOUNTING LOCATION WITH ARCHITECT.

ELECTRIC UNIT HEATER SCHEDULE

MARK	SERVICE	LOCATION	VOLT/PHASE	HEAT OUTPUT (WATTS)	MANUFACTURER	MODEL NO.	REMARKS
EUH-1	ELEC. RM.	SEE PLAN	480/3ø	5000	QMARK	MUH0541	①②③④
EUH-1	WATER RM.	SEE PLAN	480/3ø	5000	QMARK	MUH0541	①②③④

NOTE: SELECTIONS ARE BASED ON QMARK EQUIPMENT, ACCEPTABLE ALTERNATIVE MANUFACTURERS ARE MARKEL AND CHROMALOX.

REMARKS:

① PROVIDE WITH WALL-MOUNTED TSTAT.

② COORDINATE MOUNTING LOCATION IN ROOM WITH ARCHITECT AND ELECTRICIAN.

③ PROVIDE WITH FACTORY MOUNTING BRACKET, MODEL #MMB10.

④ PROVIDE WITH SUMMER FAN SWITCH, MODEL #MCFS.

AC UNIT SCHEDULE - COOLING ONLY DX SPLIT SYSTEM

MARK	SERVES	CFM SUPPLY/OA	FAN HP	"E.S.P.	COOLING TOTAL MBH	COOLING SENS. MBH	SEER	LVG. AIR* DB	LVG. AIR* WB	FAN SECTION VOLT/PHASE	FAN SECTION MCA	FAN SECTION MAX FUSE	FAN SECTION MODEL No.	FAN SECTION WEIGHT	CONDENSING UNIT (CU) MARK	CONDENSING UNIT (CU) VOLT/PHASE	CONDENSING UNIT (CU) MCA	CONDENSING UNIT (CU) MAX FUSE	CONDENSING UNIT (CU) MODEL No.	CONDENSING UNIT (CU) WEIGHT	REMARKS
A/C-1	ELEV. MACH RM.	726	1/8	–	22.6	18.0	10.5	60	58	208-230/1	--	--	40BNB024	27.5	CU-1	208-230/1	19	30	38BNB024	187	①②③④
A/C-2	I.S ROOM #221	726	1/10	–	18.6	14.8	10.0	60	58	208-230/1	--	--	40BNB018	27.5	CU-2	208-230/1	11	15	38BNB018	143	①②③④
A/C-3	BEER/WINE STOR.	726	1/10	–	18.6	14.8	10.0	60	58	208-230/1	--	--	40BNB018	27.5	CU-3	208-230/1	11	15	38BNB018	143	①②③④

NOTE: SELECTION IS BASED ON CARRIER. OTHER ACCEPTABLE MANUFACTURER'S ARE TRANE, SANYO AND MITSUBISHI.

REMARKS:

① PROVIDE UNIT WITH LOW AMBIENT KIT.

② FILTER DRIER AND CRANKCASE HEATER. CONTRACTOR TO ALSO PROVIDE UNIT WITH CONDENSATE PUMP, MODEL # 3325-900-064.

③ MCA AND MOCP ARE FOR BOTH INDOOR AND OUTDOOR EQUIPMENT.

④ THE TOTAL RUNS OF REFRIGERANT PIPING ARE BASED ON THE SPECIFIED EQUIPMENT AS MANUFACTURED BY CARRIER. IF SUBSTITUTED EQUIPMENT IS USED OR TOTAL EQUIVALENT LENGTH EXCEEDS 35 FEET, CONTRACTOR SHALL VERIFY WITH MANUFACTURERS FOR ACCEPTABLE TOTAL RUN LENGTH. INSTALLATION OF EQUIPMENT & REFRIGERANT PIPING WILL BE BASED ON MANUFACTURERS LONG LINE APPLICATION DATA SPECIFICATIONS AND SHALL NOT COMPROMISE WARRANTY PERIOD.

BRANCH DUCT SIZE CHART

DUCT SIZE	CFM RANGE
6" ø	0 – 100 CFM
8" ø	101 – 240 CFM
10" ø	241 – 340 CFM
12" ø	341 – 450 CFM
14" ø	451 – 800 CFM
16" ø	801 – 1200 CFM

AIR DEVICE SCHEDULE

MARK	DUTY	TYPE	VOLUME CONTROL	SIZE FACE	SIZE NECK	MAN.	MODEL No.	REMARKS
A	SUPPLY	LAY-IN	DUCT	24X24	④	TITUS	TDC	①②④
B	RETURN	LAY-IN	DUCT	12X12	11-3/4X11-3/4	TITUS	50F	①②
C	RETURN	LAY-IN	DUCT	14X14	13-3/4X13-3/4	TITUS	50F	①②
D	SUPPLY	LAY-IN	DUCT	12X12	④	TITUS	TDC	①②④⑥
E	EXHAUST	LAY-IN	OBD	12X12	11-3/4X11-3/4	TITUS	50F	①②
F	RETURN	SIDEWALL	OBD	18X18	17-1/2X17-1/2	TITUS	23RL	①②
G	SUPPLY	SIDEWALL	OBD	14X6	13-1/2X5-1/2	TITUS	301R	①②
H	RETURN	SIDEWALL	OBD	48X24	47-1/2X23-1/2	TITUS	23RL	①②
I	RETURN	SIDEWALL	OBD	42X30	41-1/2X31-1/2	TITUS	23RL	①②
J	RETURN	SIDEWALL	OBD	28X28	27-1/2X27-1/2	TITUS	23RL	①②
K	SUPPLY	SIDEWALL	DUCT	30X6	26-3/4X5-3/4	TITUS	300R	①②③
L	SUPPLY	SIDEWALL	DUCT	24X6	23-3/4X5-3/4	TITUS	301RL	①②③
M	RETURN	LAY-IN	DUCT	24X24	23-3/4X23-3/4	TITUS	50F	①②

NOTE: SELECTIONS ARE BASED ON TITUS, ACCEPTABLE ALTERNATIVE MANUFACTURERS ARE METALAIRE AND PRICE.

REMARKS:

① FRAME STYLE TO MATCH ARCHITECTURAL CEILING TYPE.

② STANDARD WHITE (PAINTABLE) FINISH. CONTRACTOR TO COORDINATE AND PAINT FINAL FINISH W/ ARCHITECT.

③ PROVIDE WITH 22.5° DEFLECTION.

④ SEE BRANCH DUCT SIZING CHART.

⑤ PROVIDE WITH 1/2" SPACE & 30° DEFLECTION.

⑥ PROVIDE WITH 3-WAY CORNER BLOW & DIRECTIONAL ADJUSTMENTS.

AIR CURTAIN SCHEDULE

MARK	SERVES	MOTOR HP	CFM	FPM	VOLTS/ PHASE	MANUFACTURER	MODEL	REMARKS
AC-1	ENTRANCE DOOR	(1) 3/4	966	2700	480/1ø	BERNER	STF1048A	②③⑥
AC-2	ENTRANCE DOOR	(1) 3/4	966	2700	480/1ø	BERNER	STF1048A	②③⑥
AC-3	SEATING AREA	(1) 3/4	978	2700	480/1ø	BERNER	STF1042A	②③⑥
AC-4	RECIEVING DOOR	(3) 1/2	5,364	3400	480/3ø	BERNER	FSA3108A	①④⑤⑥

NOTE: SELECTIONS ARE BASED ON BERNER EQUIPMENT, ACCEPTABLE ALTERNATIVE MANUFACTURERS ARE KING AND MARS.

REMARKS:

① PROVIDE WITH STANDARD AUTOMATIC DOOR SWITCH.

② PROVIDE WITH STAINLESS STEEL FINISH.

③ PROVIDE WITH MAGNETIC REED SWITCH, 24 V TRANSFORMER, TIME DELAY RELAY (SET AT 60 SECONDS).

④ PROVIDE WITH STANDARD WHITE FINISH.

⑤ PROVIDE WITH FACTORY MOUNTED STARTER PANEL. WITH NEMA 4-12 ENCLOSURE.

⑥ PROVIDE WITH MANUAL ON/OFF POWER SWITCH. VERIFY SWITCH MOUNTING LOCATION WITH ARCHITECT.

AIR CURTAIN SCHEDULE (ALTERNATE #1)

MARK	SERVES	MOTOR HP	CFM	FPM	VOLTS/ PHASE	MANUFACTURER	MODEL	REMARKS
AC-5	ENTRANCE DOOR	(1) 3/4	966	2700	480/1ø	BERNER	STF1048A	①②③

NOTE: SELECTIONS ARE BASED ON BERNER EQUIPMENT, ACCEPTABLE ALTERNATIVE MANUFACTURERS ARE KING AND MARS.

REMARKS:

① PROVIDE WITH STAINLESS STEEL FINISH.

② PROVIDE WITH MAGNETIC REED SWITCH, 24 V TRANSFORMER, TIME DELAY RELAY (SET AT 60 SECONDS).

③ PROVIDE WITH MANUAL ON/OFF POWER SWITCH. VERIFY SWITCH MOUNTING LOCATION WITH ARCHITECT.

KITCHEN HOOD EXHAUST SCHEDULE

UNIT ID	MODEL NO.	SERVICE	DIMENSIONS LENGTH	DEPTH	HEIGHT	EXHAUST DUCT COLLAR	SUPPLY DUCT COLLAR	EXHAUST CFM	SUPPLY CFM	LIGHTS	REMARKS
H-1L	6724-ND-AC-PSP	COOKING LINE	134"	67"	24	24"X10"	(2)20"X10"	2513	1712	2	①②③④⑤⑦⑧⑨⑪
H-1M	6724-ND-AC-PSP	COOKING LINE	160"	67"	24"	(2)16"X10"	(3)16"X10"	3333	2001	3	①②③④⑦⑧⑨⑪
H-1R	6724-ND-AC-PSP	COOKING LINE	120"	67"	24"	21"X10"	(2)20"X10"	2250	1650	2	①②③④⑦⑧⑨⑪
H-2	6924-ND	BAKERY	62"	69"	24"	9"X9"	--	1033	–	–	①③④⑨⑪
H-3	5424-ND-2	ROTTISERIE/BROILER	89"	54"	24"	17"X10"	--	1854	--	1	①②③④⑦⑧⑨⑫
H-4	4824-VH1-G	DISHWASHER	96"	48"	24"	(2)10"X10"	--	1400	--	--	①②⑤⑨⑮
H-5	--	PIZZA OVEN	PROVIDED BY OVEN MANUFACTURER								
H-6	6624-NDI-2-PSP-F	PASTA LINE	85"	66"	24"	21"X14"	(4)16"X10"	3150	2300	4	①②③④⑦⑧⑨⑪⑬
H-6A	6024-ND-2-PSP-F	PASTA LINE	36"	60"	24"	7"X7"	16"X10"	600	540	1	①②③④⑦⑧⑨⑪
H-7	6024-NDI-2-PSP-FB	ASIAN BBQ	114"	60"	24"	24"X14"	(4)20"X10"	3563	3012	6	①②③④⑦⑧⑨⑪⑫
H-8	3624-VH1-G	SMOKER	96"	36"	24"	11"X11"	--	1400	--	--	①③④⑦⑧⑮
H-9	5124-NDI	DELI GRILL	60"	51"	24"	11"X14"	--	2500	--	--	①②③④⑦⑧⑨⑪

REMARKS:

① HOOD SELECTION BASED ON CAPTIVEAIRE.

② PROVIDE W/ GREASE CUP.

③ PROVIDE EXHAUST AIR BALANCING BAFFLE.

④ PROVIDE 20X20 STAINLESS STEEL FILTERS.

⑤ PROVIDE W/ CONDENSATE DRAIN CONNECTION.

⑥ PROVIDE REMOTE ELECTRICAL CONTROL PANEL MOUNTED IN UL LISTED UTILITY CABINET, INTERLOCK WITH H-1L, H-1M, H-1R, KEF-1 KEF-1A, KEF-1B AND MUA-1.

⑦ PROVIDE PRE-PIPED UL LISTED FIRE PROTECTION SYSTEM, AND HOOD FIRE SUPPRESSION PANEL W/ CABLE RELEASE MANUAL STATION AND MECHANICAL RELEASE GAS VALVE.

⑧ PROVIDE W/ HOOD MOUNTED INCANDESENT LIGHT FIXTURES AND BULBS WITH HOOD MOUNTED SWITCHES.

⑨ PROVIDE ENCLOSURE PANELS, IF NECESSARY, SIZED TO EXTEND FROM HOOD TOP TO CEILING.

⑩ 18 GA.TYPE 304 STAINLESS STEEL WHERE EXPOSED.

⑪ PROVIDE REMOTE ELECTRICAL CONTROL PANEL MOUNTED IN UL LISTED UTILITY CABINET, INTERLOCK WITH H-6, H-6A, KEF-6 KEF-6A AND MUA-2.

⑫ PROVIDE REMOTE ELECTRICAL CONTROL PANEL MOUNTED IN UL LISTED UTILITY CABINET. INTERLOCK WITH H-7, KEF-7 AND MUA-3.

AIR HANDLING UNIT SCHEDULE

FURNACE UNIT NO.	AHU-1	AHU-2	AHU-3,7,8	AHU-4	AHU-5	AHU-6	AHU-9
SERVICE	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
LOCATION	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
FUEL TYPE	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
HEATING INPUT (MBH)	40.0	40.0	60.0	100.0	60.0	40.0	60.0
HEATING OUTPUT (MBH)	37.0	37.0	56.0	93.0	56.0	37.0	56.0
BLOWER TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
TOTAL CFM/O.A	800/160	800/160	1200/240	1600/320	1000/200	800/160	1200/240
EXT. STATIC PRESS. (IWG)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
FAN HP	1/3	1/3	1/2	1/2	1/3	1/3	1/2
FAN DRIVE TYPE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
FAN RPM	1100	1100	1100	1100	1100	1100	1100
DRAFT TYPE	FAN ASSISTED	FAN ASSISTED	FAN ASSISTED	FAN ASSISTED	FAN ASSISTED	FAN ASSISTED	FAN ASSISTED
AFUE, %	92.1	92.1	92.1	92.1	92.1	92.1	92.1
ELECT. CHARA. (V/PH/HZ)	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
MCA	6.1	6.1	9.5	10.2	7.1	6.1	9.5
MOCP	20	20	20	20	20	20	20
LOCAL DISCONNECT ONLY	YES	YES	YES	YES	YES	YES	YES
VIBRATION ISOLATORS	INERTIA PADS	INERTIA PADS	INERTIA PADS	INERTIA PADS	INERTIA PADS	INERTIA PADS	INERTIA PADS
UNIT WEIGHT (LBS)	165.0	165.0	175.0	219.0	175.0	165.0	175.0
FURN. MODEL/COIL MODEL	58MCB040-08	58MCB040-08	58MCB60-16	58MCB100-16	58MCB060-12	58MCB040-08	58MCB60-16
DX COOLING COIL MODEL	CK38KA024017	CK58KA018017	CK38KA042017	CK38KA048017	----	----	----
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
REMARKS	①②③④⑤	①②③④⑤	①②③④⑤	①②③④⑤	②③④⑤	②③④⑤	②③④⑤

① PROVIDE WITH VERTICAL/HORIZ. EVAP. COIL SCHEDULED HERE BY CARRIER, OR EQUAL. COIL SHALL BE FIELD-INSTALLED AND SHALL HAVE AN INSULATED METAL CASING TO FIT FURNACE DISCHARGE. PROVIDE REF. CHARGE AND INSULATED PIPING TO CONDENSING UNIT.

② PROVIDE DIRECT-VENT FURNACE WITH GAS AND WATER TIGHT FLUE, UL LISTED VENT CAPS, AND COMBUSTION AIR INTAKE DUCT. PROVIDE CONCENTRIC VENT KIT MODEL #KGAVT0501CVT. FOR 2" CONNECTIONS OR #KGAVT0601CVT FOR 8" CONNECTIONS AS RECOMMENDED BY MANUFACTURER.

③ PROVIDE CONDENSATE PUMP. SEE HVAC PLANS FOR REQUIRED LOCATIONS.

④ PROVIDE MANUFACTURER'S PROGRAMMABLE TSTAT AND LOCKING TAMPERPROOF ENCLOSURE.

⑤ PROVIDE MANUFACTURER'S SIDE FILTER RACK AND 1" FILTER.

CONDENSING UNIT SCHEDULE

MARK	EVAPORATOR	SERVES	VOLT/PHASE	MCA	MANUFACTURER	MODEL No.	TONS	SEER*	WEIGHT
COND-1	AHU-1	SEE PLANS	208/1ø	28.5	CARRIER	24APA348	4.0	13.0	241
COND-2	AHU-2,6	SEE PLANS	208/1ø	16.5	CARRIER	24APA324	2.0	13.0	140
COND-3,7,8	AHU-3,7,8,9	SEE PLANS	208/1ø	25.9	CARRIER	24APA342	3.5	13.0	230
COND-4	AHU-4	SEE PLANS	208/1ø	18.7	CARRIER	24APA330	2.5	13.0	158

MECHANICAL LEGEND

SUPPLY DUCT
90 DEGREE RECTANGULAR ELBOW UP WITH DOUBLE THICKNESS TURNING VANES.

RETURN DUCT
90 DEGREE RECTANGULAR ELBOW UP WITH DOUBLE THICKNESS TURNING VANES.

EXHAUST DUCT
90 DEGREE RECTANGULAR ELBOW UP WITH DOUBLE THICKNESS TURNING VANES.

FRESH AIR DUCT
90 DEGREE RECTANGULAR ELBOW UP WITH DOUBLE THICKNESS TURNING VANES.

RADIUS ELBOW
90 DEGREE ROUND ELBOW WITH DOUBLE THICKNESS TURNING VANES.

SUPPLY DUCT
90 DEGREE RECTANGULAR ELBOW DOWN WITH DOUBLE THICKNESS TURNING VANES.

RETURN DUCT
90 DEGREE RECTANGULAR ELBOW DOWN WITH DOUBLE THICKNESS TURNING VANES.

EXHAUST DUCT
90 DEGREE RECTANGULAR ELBOW DOWN WITH DOUBLE THICKNESS TURNING VANES.

FRESH AIR DUCT
90 DEGREE RECTANGULAR ELBOW DOWN WITH DOUBLE THICKNESS TURNING VANES.

RECTANGULAR ELBOW
90 DEGREE SQUARE ELBOW WITH DOUBLE THICKNESS TURNING VANES.

FD/SD — COMBINATION FIRE AND SMOKE DAMPER:

VOLUME DAMPER:

SUPPLY DIFFUSER: FOUR-WAY

SUPPLY DIFFUSER: THREE-WAY

SUPPLY DIFFUSER: TWO-WAY

SUPPLY DIFFUSER: ONE-WAY

RETURN GRILLE:

EXHAUST GRILLE:

SUPPLY AIR ARROW:

RETURN AIR ARROW:

EXHAUST AIR ARROW:

THERMOSTAT (WALL): SYSTEM BEING SERVED

SENSOR (WALL): SYSTEM BEING SERVED

MECH. EQUIP TAG:

– DUCT MOUNTED SMOKE DETECTOR

– MOTORIZED DAMPER

– WALL MOUNTED FAN SPEED CONTROLER

SYMBOLS/ABBREVIATIONS

GENERAL ABBREVIATIONS

A	COMPRESSED AIR	KW	KILOWATT
ACCU	AIR COOLED CONDENSING UNIT	LAT	LEAVING AIR TEMPERATURE
ACD	AUTOMATIC CONTROL DAMPER	LD	LINEAR DIFFUSER
ACU	AIR CONDITIONING UNIT	LF	LINEAR FEET
AD	ACCESS DOOR	LOUV	LOUVER
ADD'L	ADDITIONAL	LVDR	LOUVERED DOOR
ADL	ACOUSTICAL DUCT LINER	LWT	LEAVING WATER TEMPERATURE
AF	AIR FILTER		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLER UNIT		
AP	ACCESS PANEL	MCC	MOTOR CONTROL CENTER
ARCH	ARCHITECT	MD	MOTORIZED DAMPER
ATC	AUTOMATIC TEMPERATURE CONTROL	MECH	MECHANICAL
AVS	AIR VOLUME TRAVERSE STATION	MEZZ	MEZZANINE
		MFR	MANUFACTURER
BDD	BACKDRAFT DAMPER	MIN	MINIMUM
BHP	BRAKE HORSEPOWER	MTD	MOUNTED
BLDG	BUILDING	N/A	NOT APPLICABLE
BOD	BOTTOM OF DUCT	NC	NORMALLY CLOSED
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BSMT	BASEMENT	NO	NORMALLY OPEN
		NO.	NUMBER
CACU	COMPUTER ROOM AIR CONDITIONING UNIT	NTS	NOT TO SCALE
CC	COOLING COIL		
CD	CEILING DIFFUSER	OA	OUTSIDE AIR
CF	CEILING FAN	OAI	OUTSIDE AIR INTAKE
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CL	CENTERLINE	OED	OPEN END DUCT
CLG	CEILING		
CO	CLEAN-OUT		
COL	COLUMN	P	PUMP
CONC	CONCRETE	PCF	POUNDS PER CUBIC FOOT
CONTR	CONTRACTOR	PD	PRESSURE DROP
CP	CONDENSATE PUMP	PLBG	PLUMBING
CTS	COOLING TOWER SUPPLY	POS	PROVIDED BY OTHER SECTION
CTR	COOLING TOWER RETURN	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
CUF	CUBIC FEET	PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
CUH	CABINET UNIT HEATER	PSIG	POUNDS PER SQUARE INCH GAUGE
CWS	CONDENSER WATER SUPPLY TO AC UNIT		
CWR	CONDENSER WATER RETURN FROM AC UNIT		
CV	CONSTANT VOLUME SUPPLY AIR TERMINAL	RET	RETURN
		REQ'D	REQUIRED
D	DRAIN	REQ'S	REQUIREMENTS
DB	DRY BULB TEMPERATURE	RF	RETURN FAN
DC	DRY COOLER	RG	RETURN GRILLE
DDC	DIRECT DIGITAL CONTROL	RH	RELATIVE HUMIDITY
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	RHC	REHEAT COIL
DH	DUCT HEATER	RLF	RELIEF
DIA	DIAMETER	RM	ROOM
DIFF	DIFFUSER	RPM	REVOLUTIONS PER MINUTE
DIM	DIMENSION	RR	RETURN REGISTER
DN	DOWN	RTU	ROOF TOP UNIT
DX	DIRECT EXPANSION		
		SA	SOUND ATTENUATOR
EA	EACH	SCH	SCHEDULE
EAT	ENTERING AIR TEMPERATURE	SCR	SCREEN
EF	EXHAUST FAN	SD	SMOKE DAMPER
EFF	EFFICIENCY	SDET	SMOKE DETECTOR
EG	EXHAUST GRILLE	SF	SUPPLY FAN
EHC	ELECTRICAL HEATING COIL	SFD	COMBINATION AUTOMATIC SMOKE/FIRE DAMPER WITH ACCESS DOOR
ELEC	ELECTRICAL	SG	SUPPLY GRILLE
ELEV	ELEVATION	SPECS	SPECIFICATIONS
EMER	EMERGENCY	SQ	SQUARE
ER	EXHAUST REGISTER	SQFT	SQUARE FEET
ESP	EXTERNAL STATIC PRESSURE	SR	SUPPLY REGISTER
EUH	ELECTRIC UNIT HEATER	SS	STAINLESS STEEL
EXH	EXHAUST	STDBY	STANDBY POWER
EXP	EXPANSION	STL	STEEL
		SUP	SUPPLY
FA	FREE AREA	T	TEMPERATURE
FAI	FRESH AIR INTAKE	TA	THROW-AWAY
FB	FAN BOX	TAV	THERMOSTATIC AIR VENT
FC	FLEX CONNECTOR	TD	TRANSFER DUCT
FD	FIRE DAMPER	TEL	TELEPHONE
FG	FIBERGLASS	TEMP	TEMPERATURE
FLEX	FLEXIBLE	TF	TRANSFER FAN
FLRDR	FLOOR DRAIN	TG	TRANSFER GRILLE
FOP	FIREFIGHTERS OVERRIDE PANEL	TOD	TOP OF DUCT
FPM	FEET PER MINUTE	TOP	TOP OF PIPE
FT	FEET	TR	TRANSFER
FURN	FURNISHED	TYP	TYPICAL
G	GAS		
GA	GAUGE		
GAL	GALLONS	UC	UNDERCUT DOOR
GALV	GALVANIZED	UH	UNIT HEATER
GC	GENERAL CONTRACTOR	UV	UNIT VENTILATION
GIV	GRAVITY INTA