

FAN COIL UNIT SCHEDULE																									BASIS OF DESIGN: CARRIER			
SYMBOL	FAN DATA				ELECTRICAL DATA		COOLING COIL (30% PROPYLENE GLYCOL)										HEATING COIL (REHEAT POSITION)								AREA SERVED	MODEL	REMARKS	
	CFM	DESIGN O.A. (MIN.)	E.S.P.	H.P.	VOLTAGE/PHASE	MCA	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	GPM	EWI (°F)	LWT (°F)	WPD	BRANCH PIPING SIZE	EAT (°F)	LAT (°F)	CAPACITY MBH	GPM	EWI (°F)	LWT (°F)	WPD				BRANCH PIPING SIZE
FC-1	240	15	.30"	—	120-1-60	5.9	75.6	62.8	56.5	55.0	7.7	7.0	1.9	42.0	51.0	1.40'	3/4"	69.2	97.6	7.4	1.0	150.0	135.0	0.80'	3/4"	GYM OFFICE	42DCA06	—

- NOTES: 1. MODEL NUMBERS ARE INDICATED FOR REFERENCE ONLY. THE DUTIES AND CAPACITIES ARE TO BE USED FOR FINAL UNIT SELECTION BY THE MANUFACTURER.
2. REFER TO PLANS FOR UNIT CONFIGURATIONS. UNITS WITH THE SAME SYMBOL NUMBER MAY HAVE LEFT OR RIGHT HAND CONNECTIONS AND/OR REQUIRE DIFFERENT CONFIGURATIONS.
3. PROVIDE EACH UNIT WITH FILTER RACK, EXTENDED DRAIN PAN, FIELD INSTALLED DRIP LIP AND NON-FUSED DISCONNECT SWITCH.
4. PROVIDE EACH UNIT WITH A CONDENSATE DRAIN PAN HIGH WATER LEVEL SENSOR.
5. PROVIDE AN AIR PURIFICATION SYSTEM IN EACH FAN COIL UNIT, PLASMA AIR 600 SERIES.

KITCHEN VENTILATION SYSTEM SCHEDULE														BASIS OF DESIGN: CAPTIVEAIRE		
SYMBOL	SUPPLY FAN				ELECTRICAL			HEATING			ZONES	FAN UNIT MODEL NO.	BLOWER MODEL NO.	HOUSING MODEL NO.	MAX. OPERATING WEIGHT	REMARKS
	CFM	E.S.P.	H P	RPM	ELEC.	MCA	MOP	MBH INPUT	MBH OUTPUT	TEMP. RISE °F						
KVS-1	3000	1.31"	3	1426	460-3-60	5.4	15	334.3	270.1	74.0	12.8	A2-IBT-400-20D	20MF-2-MOD	A2-IBT-400	1500 lbs.	

- NOTES: 1. PROVIDE EACH UNIT WITH THE FOLLOWING OPTIONS:
- STANDARD ELECTRICAL CONNECTION (MAIN AND CONTROL PANEL) FOR STANDING POWER - SINGLE MODULE. IF A NON-DVS PREWIRE IS USED ON THE IBT HEATER, THE #26, #47, "NS", "MA", OR "E2" OPTION PREWIRE MUST BE SELECTED. DO NOT PROVIDE SUPPLY STARTER IN PREWIRE.
 - INLET PRESSURE GAUGE, 0-35".
 - MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, FOR EACH FURNACE.
 - EXTRA SET OF BELTS.
- HIGH PRESSURE GAS SWITCH FOR SIZE "1F" WITH 2 FURNACES.
 - LOW PRESSURE GAS SWITCH.
 - CONVENIENCE OUTLET (GFCI), 15 AMP - POWER SUPPLY BY OTHERS.
 - SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD).
 - THREE PHASE ONLY.
 - DOWNFLOW DISCHARGE.
 - MOTORIZED BACKDRAFT DAMPER ON OUTSIDE AIR INTAKE.
 - ALUMINUM MESH WASHABLE/REUSABLE OUTSIDE AIR INTAKE FILTER.
- GAS BURNER MUST BE INDIRECT-FIRED, PUSH-THROUGH TYPE.
 - INVERTER TYPE MOTOR WITH VFD CONTROL.
 - FULLY INSULATED 24" HIGH SLOPED ROOF EQUIPMENT CURB AND EQUIPMENT RAIL SYSTEM, FIELD VERIFY ROOF SLOPE PRIOR TO ORDERING EQUIPMENT CURB & RAIL.
 - EXTERNAL MOUNTED DISCONNECT SWITCH.
 - INSULATED BLOWER SECTION.
 - HEATING DRAIN SYSTEM FOR BOTH FURNACES.
 - CLOSED FILTER SWITCH WITH NOTIFICATION ON HMI.
 - LOAD REACTOR MOUNTED IN FAN.

KITCHEN VENTILATION FAN SCHEDULE										BASIS OF DESIGN: CAPTIVEAIRE		
SYMBOL	EXHAUST FAN				ELECTRICAL		TYPE	SONES	CONTROL	MODEL	MAX. OPERATING WEIGHT	REMARKS
	CFM	E.S.P.	H P	RPM	ELEC.	FLA						
KEF-1	5000	.63"	3	762	460-3-60	4.6	UPBLAST	13.0	INTERLOCK WITH KVS-1	DU240HFA	450 lbs.	

- NOTES: 1. PROVIDE EACH UNIT WITH THE FOLLOWING OPTIONS:
- EXTRA SET OF BELTS.
 - GREASE BOX.
 - LOAD REACTOR MOUNTED IN FAN.
- INVERTER TYPE MOTOR FOR VFD CONTROL.
 - HINGED AND VENTED 24" HIGH SLOPED ROOF EQUIPMENT CURB, FIELD VERIFY ROOF SLOPE PRIOR TO ORDERING EQUIPMENT CURB.
 - EXTERNAL MOUNTED DISCONNECT SWITCH.

PERFORATED SUPPLY PLENUM(S)											BASIS OF DESIGN: CAPTIVEAIRE		
SYMBOL	POSITION	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)					MODEL	HOOD CONSTRUCTION	REMARKS
						WIDTH	LENGTH	DIA.	CFM	S.P.			
SP-1	FRONT	120"	14"	6"	MUA	12"	28"	—	750	0.18"	146 MISC-PSP	430 STAINLESS STEEL WHERE EXPOSED	
					MUA	12"	28"	—	750	0.18"			
SP-2	FRONT	120"	14"	6"	MUA	12"	28"	—	750	0.18"	146 MISC-PSP	430 STAINLESS STEEL WHERE EXPOSED	
					MUA	12"	28"	—	750	0.18"			

- NOTE: 1. PROVIDE EACH PLENUM WITH 23.5% OPEN STAINLESS STEEL PERFORATED SUPPLY AIR PANELS.

AIR SEPARATOR SCHEDULE						BASIS OF DESIGN: BELL & GOSSETT		
SYMBOL	GPM	WPD	INLET/OUTLET SIZE	MODEL	REMARKS			
AS-1	360	0.9'	5"	RL-5	—			
AS-2	360	1.0'	5"	RL-5	—			

AIR COOLED CONDENSING UNIT SCHEDULE													
SYMBOL	ASSOCIATED INDOOR UNIT	MBH	AMBIENT TEMP.	COMPRESSOR STAGES	ELECTRICAL			WEIGHT LBS	REFRIG.	MODEL	MFG'R.	REMARKS	
					VOLTAGE/PHASE	MCA	MOP						
CU-1	DAC-1	12.0	95°F	VARIABLE	208-1-60	11.0	15	100	R410-A	PUY-A12NKA7-BS	mitsubishi	—	
CU-2	DAC-2	12.0	95°F	VARIABLE	208-1-60	11.0	15	100	R410-A	PUY-A12NKA7-BS	mitsubishi	—	
CU-3	DAC-3	24.0	95°F	VARIABLE	208-1-60	19.0	25	180	R410-A	PUY-A24NHA7-BS	mitsubishi	—	
CU-4	PAH-7	115.7	95°F	3	460-3-60	18.0	25	550	R410-A	38AUD	CARRIER	—	

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2. PROVIDE CU-1, 2 & 3 WITH VARIABLE SPEED INVERTER-DRIVEN COMPRESSOR, CRANK CASE HEATER, WIND BAFFLE(S), HAIL GUARDS AND LOW AMBIENT CONTROLS FOR OPERATION DOWN TO -40°F.
3. PROVIDE CU-4 WITH LOUVER HAIL GUARDS, LOW AMBIENT CONTROLS FOR OPERATION DOWN TO -20° F AND NON-FUSED DISCONNECT SWITCH.

DUCTLESS AIR CONDITIONER SCHEDULE											BASIS OF DESIGN: MITSUBISHI	
SYMBOL	DESCRIPTION	CFM	NOM. COOLING MBH	HEATING MBH	MCA	HACR BRKR.	ELEC.	MODEL	REFRIG. PIPING SIZES		OPTIONS	
									LIQUID	SUCTION		
DAC-1	WALL EVAP.	375	12.0	—	1.0	N/A	208-1-60	PKA-A12LA	1/4"	1/2"	PROVIDE W/ CONDENSATE PUMP	
DAC-2	WALL EVAP.	375	12.0	—	1.0	N/A	208-1-60	PKA-A12LA	1/4"	1/2"	PROVIDE W/ CONDENSATE PUMP	
DAC-3	WALL EVAP.	700	24.0	—	1.0	N/A	208-1-60	PKA-A24KA7	3/8"	5/8"	PROVIDE W/ CONDENSATE PUMP	

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2. PROVIDE ALL UNITS WITH A WIRED WALL MOUNTED REMOTE CONTROLLER/THERMOSTAT.

FINNED TUBE SCHEDULE														BASIS OF DESIGN: SIGMA		
SYMBOL	NOMINAL CAPACITY (BTU/LF) *SEE NOTE 3	CAPACITY AT DESIGN CONDITIONS (BTU/LF)	GPM	WPD	EAT °F	EWI °F	ROWS	FIN SIZE SIZE	FINS PER INCH	ENCLOSURE DIMENSIONS		BRANCH PIPING SIZE	RETURN PIPE HANGER IN ENCLOSURE	MODEL	ENCLOSURE FINISH	REMARKS
										H	D					
FT-1	1375	797	2.0	1.5'	65	150	1	4"x4"	48	12"	5.25"	3/4"	NO	SWE-S	STD. BAKED ENAMEL	MOUNT INVERTED
FT-2	2329	1350	5.5	2.1'	65	150	1	4"x4"	48	N/A	N/A	1"	NO	44C100	NO ENCLOSURE	PROVIDE ELEM. SUPPORTS

- NOTES: 1. PROVIDE MANUFACTURER'S KNOB DAMPER ON UNITS WITH ENCLOSURE.
2. PROVIDE MANUFACTURER'S ACCESS DOORS, END CAPS, WALL TRIM AND FULL BACK PANEL ON UNITS WITH ENCLOSURE.
3. NOMINAL CAPACITY BASED ON 180°F AVERAGE WATER TEMPERATURE & 65°F ENTERING AIR TEMPERATURE.

PUMP SCHEDULE										BASIS OF DESIGN: BELL & GOSSETT	
SYMBOL	SYSTEM	GPM	HEAD	MOTOR DATA			EFFICIENCY	SERIES	MODEL	REMARKS	
				H.P.	RPM	ELECTRICAL					
P-1A	HEATING	360	110'	20	1705	460-3-60	77%	e1510	3EB	-	
P-1B	HEATING	360	110'	20	1705	460-3-60	77%	e1510	3EB	-	
P-2A	COOLING	360	123'	25	1620	460-3-60	72%	e1510	3GB	SELECT USING 30% PROPYLENE GLYCOL	
P-2B	COOLING	360	123'	25	1620	460-3-60	72%	e1510	3GB	SELECT USING 30% PROPYLENE GLYCOL	

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2. PUMPS ARE TO BE OPERATING AND STANDBY OPERATION.
3. PROVIDE A NON-OVERLOADING MOTOR AND VARIABLE FREQUENCY DRIVE FOR EACH PUMP.

GRAVITY VENTILATOR SCHEDULE							BASIS OF DESIGN: LOREN COOK		
SYMBOL	CFM	SP	DUTY	ROOF OPENING SIZE	DAMPER TYPE	MODEL	REMARKS		
QAI-1	820	0.04"	INTAKE	12"x12"	MOD	GI	—		
QAI-2	1400	0.05"	INTAKE	12"x18"	MOD	GI	—		
QAI-3	2750	0.10"	INTAKE	12"x36"	MOD	GI	—		
RV-1	100	0.05"	EXHAUST	8"	BDD	GRSRB	—		
RV-2	1400	0.05"	RELIEF	12"x12"	MOD	GR	—		
RV-3	2750	0.06"	RELIEF	12"x36"	MOD	GR	—		
RV-4	4300	0.10"	RELIEF	24"x30"	MOD	GR	—		

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2. PROVIDE WITH A 18" HIGH ROOF CURB, DAMPER & BIRD SCREEN, FOR ALL ROOF CURBS INSTALLED ON SLOPED ROOF AREAS, FIELD VERIFY ROOF SLOPE PRIOR TO ORDERING ROOF CURB.

SLOT / LINEAR DIFFUSER SCHEDULE									
SYMBOL	SLOT CHARACTERISTICS			PLENUM INLET DIA.	MANUFACTURER	MODEL	MAXIMUM N.C.	MAXIMUM PRESSURE DROP	REMARKS
	LENGTH	# OF SLOTS	SLOT WIDTH						
SD1	48"	2	1/2"	6"	TITUS	MPI-37	<20	0.06"	PROVIDE WITH 2-WAY ADJUSTABLE BLOW PATTERN AND TYPE 2A FLANGED BORDER

- NOTE: 1. FURNISH DIFFUSERS WITH INLET PLENUM WITH INTERIOR INSULATION, FIELD INSULATE ALL SUPPLY AIR PLENUM END CAPS.
2. SLOT DIFFUSERS SHALL RUN CONTINUOUS, PROVIDE WITH ALIGNMENT PINS/STRIPS, END BORDERS AND ALL REQUIRED HARDWARE NEEDED TO COMPLETE INSTALLATION.

GRILLE AND REGISTER SCHEDULE							
SYMBOL	SIZE	MODEL	MAXIMUM N.C.	MAXIMUM PRESSURE DROP	BORDER TYPE	MANUFACTURER	REMARKS
G1	6x6	350FL	<20	0.08	LAY-IN	TITUS	—
G2	8x8	350FL	<20	0.08	LAY-IN	TITUS	—
G3	10x10	350FL	<20	0.08	LAY-IN	TITUS	—
G4	12x12	350FL	<20	0.08	LAY-IN	TITUS	—
G5	14x14	350FL	<20	0.08	LAY-IN	TITUS	—
G6	16x16	350FL	<20	0.08	LAY-IN	TITUS	—
G7	18x18	350FL	<20	0.08	LAY-IN	TITUS	—
G8	20x20	350FL	<20	0.08	LAY-IN	TITUS	—
G9	22x22	350FL	<20	0.08	LAY-IN	TITUS	—
G11	24x36	33RS	<20	0.05	SURFACE	TITUS	—
G12	18x48	33RS	<20	0.02	SURFACE	TITUS	—
G13	22x46	350FS	<20	0.08	LAYIN	TITUS	—
G14	24x18	33RL	<20	0.08	SURFACE	TITUS	—
G15	24x48	30RS	<20	0.08	SURFACE	TITUS	—
G16	24x36	33RL	<20	0.08	SURFACE	TITUS	—
G17	12x20	50F	<20	0.08	SURFACE	TITUS	—
G18	10x10	33R	<20	0.08	SURFACE	TITUS	—
G19	6x6	350FL	<20	0.08	SURFACE	TITUS	—
G20	6x8	350FL	<20	0.08	SURFACE	TITUS	—
G21	18x24	350FL	<20	0.08	SURFACE	TITUS	—
G22	12x42	350FS	<20	0.08	SURFACE	TITUS	—
G23	12x12	350FS	<20	0.08	SURFACE	TITUS	—
R1	12x6	—	<20	0.08	SURFACE	TITUS	PROVIDE WITH OPPOSED BLADE DAMPER