

REGISTER, GRILLE AND DIFFUSER SCHEDULE

UNIT MARK	MFR. & MODEL*	REMARKS
CD-1	KRUEGER MODEL SHPC KRUEGER 5S85H	FULL LOUVER FACE WITH TYPE 23 FRAME, 18x18 TO ROUND DUCT COLLAR AND OPPOSED BLADE DAMPER
SAR	KRUEGER MODEL 5885V	DOUBLE REFLECTION SUPPLY GRILLE WITH OPPOSED BLADE DAMPER, FULLY ADJUSTABLE.
SAR -1	KRUEGER MODEL 5885H	DOUBLE REFLECTION SUPPLY GRILLE WITH OPPOSED BLADE DAMPER, FULLY ADJUSTABLE, ALUMINUM
RAG-EAG	KRUEGER 5S85H	LOUVERED FACE RETURN AIR GRILLE WITH, SIZE AS INDICATED ON PLANS, FRAME STYLE AS REQUIRED.
RAG-1	KRUEGER 5S85H	ALUMINUM LOUVERED FACE RETURN AIR GRILLE WITH, SIZE AS INDICATED ON PLANS, FRAME STYLE AS REQUIRED.
TFHC	THERMAFUSER	AUTO CHANGE OVER VAV HEATING COOLING CEILING DIFFUSER
LD-1	KRUEGER SERIES 1910	LINEAR SLOT DIFFUSER WITH 1" SLOTS, AND FRAME STYLE C SURFACE MOUNTED

NOTES: -FD DENOTES FIRE DAMPER OR CEILING RADIATION DAMPERS.  
CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING W/ ARCHITECTURAL REFLECTED CEILING PLAN AND FURNISHED FRAME STYLES AS REQUIRED.

HEATING AND AIR CONDITIONING SCHEDULE

AIR HANDLING UNIT											CONDENSING UNIT						
UNIT MARK	MFR. & MODEL	DESIGN CFM	O. S. A. CFM	TOTAL COOLING	SENSIBLE COOLING	E. S. P.	VOLTAGE	H. P.	ELEC. KW	HT. MCA	MFG & MODEL	M. C. A.	COMP. R. L. A.	FAN F. L. A.	VOTAGE	REMARKS	
												M. O. P.					
AHU-1	TRANE 2TEC3048A	1200	220	35,000	25,800	.8"	208/3/60	½	11.53	44	CU-1 TRANE 2TTA3036A3	15/25	9.6	1.4	208/3/60	COMPLETE W/ WALL MOUNTED T'STAT WITH TIME DELAY AND HARD START KIT.	
AHU-2	TRANE 2TEC3060A	1800	435	59,000	43,000	.7"	208/3/60	1	17	69	CU-2 TRANE 2TTA3060A3	27/45	17.3	1.2	208/3/60	COMPLETE W/ WALL MOUNTED 2-STAGE HTS. T'STAT WITH TIME DELAY AND HARD START KIT.	
AHU-3	TRANE 2TEC3060A	1800	600	59,000	43,000	.7"	208/1/60	1	14.42 2-STAGE	39/52	CU-3 TRANE 2TTA3060A3	27/45	17.3	1.2	208/3/60	COMPLETE W/ WALL MOUNTED 2-STAGE HTS. T'STAT WITH TIME DELAY AND HARD START KIT.	
AHU-4	TRANE 2TEC3030A	800	--	22,400	17,300	.5"	208/3/60	1/3	5.76	28	CU-4 TRANE 2TTB3024A1	11/20	8.7	0.9	208/1/60	COMPLETE W/ WALL MOUNTED T'STAT WITH TIME DELAY AND HARD START KIT.	
AHU-5	TRANE 2TEC3048A	1400	400	42,500	32,400	.7"	208/3/60	½	11.53	44	CU-5 TRANE 2TTA3042A3	18/30	9.6	1.4	208/3/60	COMPLETE W/ WALL MOUNTED T'STAT WITH TIME DELAY AND HARD START KIT.	
AHU-6	TRANE 2TEC3036A	1000	200	27,600	21,600	.6"	208/1/60	1/3	7.2	45	CU-6 TRANE 2TTA3030A3	13/20	6.8	0.7	208/3/60	COMPLETE W/ WALL MOUNTED T'STAT WITH TIME DELAY AND HARD START KIT.	
AHU-7 AHU-8	TRANE	800	--	17,300	13,300	.2"	240/1/60	⅓	5.0	30	CU-7 & 8 TRANE 2TTB3024A1	11/20	5.8	0.6	208/1/60	COMPLETE W/ WALL MOUNTED T'STAT WITH TIME DELAY AND HARD START KIT.	

NOTES: 1. CONTRACTOR SHALL EXAMINE AND COORDINATE WITH ALL COMPONENTS OF BUILDING CONSTRUCTION PRIOR TO LOCATING AND SETTING OF H.V.A.C. EQUIPMENT AND NOTIFY ARCHITECT OF ANY CONFLICT.  
2. ALL AHU'S RATED 2000 CFM OR GREATER SHALL HAVE SMOKE DETECTORS IN THE RETURN AIR DUCT TO SOUND FIRE ALARM AND SHUT DOWN UNIT.

PTAC AIR CONDITIONER SCHEDULE

MARK	TOTAL CFM	O. S. A. CFM	COOLING COIL DATA				ELECTRIC HEATER		ELECTRICAL DATA (MCA)	EER	MAX FUSE	REMARKS	COMMENTS	
			ENT. AIR DB F	AIR WB F	TOTAL CAPACITY	AMB	KW	VOLTAGE						
PTAC	270	80	80°F	67°F	9,000	95°F	2.09	208/1/60	10.0	208/1/60	12.0	15 AMPS	G.E. MODEL AZ38H09D	
PTAC-1	310	80	80°F	67°F	14,300	95°F	4.09	208/1/60	19.7	208/1/60	10.2	30 AMPS	G.E. MODEL AZ38H14D	

NOTES:  
ACCESSORIES:  
1. ELECTRICAL SUBBASE  
2. CONDENSATION EVAPORATION SYSTEM AND SECONDARY DRAIN KIT, EXTEND AND CONNECT TO DRAIN PIPE PROVIDED BY PLUMBER, COORDINATE WITH PLUMBER  
3. CONTROLS SHALL PREVENT OPERATION OF COMPRESSOR AND ELECTRIC HEAT AT THE SAME TIME  
4. ARCHITECTURAL DECORATIVE LOUVER, AS MANUFACTURED BY RELIABLE PRODUCTS, LOUVERS SHALL BE CONSTRUCTED OF ALUMINUM WITH CUSTOM FINISH AS DIRECTED BY THE ARCHITECT  
5. REMOTE MOUNTED THERMOSTAT, EQUAL TO INNCOM MODEL E4-SMART DIGITAL THERMOSTAT. REMOTE THERMOSTAT DOES NOT REQUIRE CONDUIT.

ROOFTOP UNIT SCHEDULE

MARK	MFR. & MODEL	TOTAL CFM	TOTAL COOLING	SENSIBLE COOLING MBH	HEATING INPUT KW	E. S. P.	H. P.	FRPM	VOLTAGE	MCA	MOP	WT	NOTES
RTU-1,2,3	TRANE TSC-060	1840	62.0	45.7	17	1.0	1.0	1750	208/3	67.8	70	550*	1

NOTES:  
1. PROVIDE ROOF CURB, MANUAL OUTDOOR AIR DAMPER, TWO (2) SETS 2" FAR 30/30 FILTERS, ELECTRIC HEAT MODULE.  
2. BALANCE OUTDOOR AIR TO 900 CFM.

POOL UNIT SCHEDULE

INDOOR UNIT					UNIT MTD ELECTRIC HEAT										POOL WATER HTR.		ELECTRICAL						
MARK	MFR. & MODEL	TOTAL CFM	Q. S. A CFM	E. S. P.	TEMP. /HUMIDITY				VOLTAGE	KW	AMPS	COMP. QTY.	REF QTY	CKT	NET SENSIBLE COOLING	MOTOR REMOVAL LBS/HR	GPM	PD (PSIG)	VOLTAGE	MCA	MAX FUSE		
					SPACE TEMP	MAX. RH	RM. RH	POOL SQ. FT.														POOL TEMP	
PDU-1	SERESCO NE-007-PV	3400	350	1"	80	50		501	84	208/3/60	30	83.27	1	1		55,300	30	12	5	208/3/60	142	150	
OUTDOOR UNIT																							
MARK	MFR. & MODEL	VOLTAGE	H. P.	UNIT MCA	UNIT MOP																		
PDU-1	SERESCO NC-010-012	208/3/60	1.5	6	15																		

POOL UNIT NOTES:

1. THE HEAT EXCHANGER FOR THE POOL WATER HEATER SHALL BE COAXIAL.
2. LINE SIZES: HOT GAS-¾", LIQUID-¾"
3. REFRIGERANT (R-22) CHARGE (LBS.): FIELD CHARGE- 38# (BASED ON RUN OF 0-10 FT. VERTICAL & 40 FT. HORIZONTAL; TOTAL RUN NOT TO EXCEED 50 FT.) UNIT CHARGE- 10# (VERTICAL) OR 14# (FIELD) CHARGE (LBS.): FIELD CHARGE- 38# (BASED ON RUN OF 0-10 FT. VERTICAL & 40 FT. HORIZONTAL; TOTAL RUN NOT TO EXCEED 50 FT.) UNIT CHARGE- 10# (VERTICAL) OR 14# (FIELD) CHARGE (LBS.): FIELD CHARGE- 38# (BASED ON RUN OF 0-10 FT. VERTICAL & 40 FT. HORIZONTAL; TOTAL RUN NOT TO EXCEED 50 FT.) UNIT CHARGE- 10# (VERTICAL) OR 14# (FIELD) CHARGE (LBS.): FIELD CHARGE- 38# (BASED ON RUN OF 0-10 FT. VERTICAL & 40 FT. HORIZONTAL; TOTAL RUN NOT TO EXCEED 50 FT.) UNIT CHARGE- 10# (VERTICAL) OR 14# (FIELD) CHARGE (LBS.): FIELD CHARGE- 38# (BASED ON RUN OF 0-10 FT. VERTICAL & 40 FT. HORIZONTAL; TOTAL RUN NOT TO EXCEED 50 FT.) UNIT CHARGE- 10# (VERTICAL) OR 14# (FIELD) CHARGE (LBS.): FIELD CHARGE- 38# (BASED ON RUN OF 0-10 FT. VERTICAL & 40 FT. HORIZONTAL; TOTAL RUN NOT TO EXCEED 50 FT.) 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POOL UNIT NOTES:

1. THE HEAT EXCHANGER FOR THE POOL WATER HEATER SHALL BE COAXIAL.  
2. LINE SIZES: HOT GAS-¾"; LIQUID-¾"  
3. REFRIGERANT (R-22) CHARGE (LBS.): FIELD CHARGE+ 38\* (BASED ON RUN OF 0-10 FT. VERTICAL & 40 FT. HORIZONTAL; TOTAL RUN NOT TO EXCEED 50 FT.)  
4. UNIT ORIENTATION SHALL BE "VERTICAL-FLOOR MOUNTED" WITH DIRECT DRIVE FAN, 5-YEAR WARRANTY ON THE COMPRESSOR AND 5-YEAR WARRANTY ON THE COILS.  
5. UNIT SHALL INCLUDE A MANUAL O/A DAMPER.  
6. CONTROL SEQUENCE:  
UNIT SHALL HAVE A USER FRIENDLY ELECTRONIC CONTROL MONITOR WITH ROOM THERMOSTAT AND HUMIDITY CONTROL AND UNIT TROUBLE-SHOOTING CAPABILITY. CONTROL AND SERVICE POINTS MONITORED SHALL BE: AT TEMP, HUMIDITY, WATER TEMPS, REFRIGERANT HI AND LO PRESSURE SENSOR FAILURES, LOW WATER FULT, ANTI-SHORT-CYCLE CONTROL, AND COMMUNICATION FAULT. MONITORING SHALL BE ACCOMPLISHED BY PLACING ALL THE TEMP AND HUMIDITY SENSORS IN THE UNIT AND MONITORING WITH A DIGITAL DISPLAY CONTROLLER THAT IS UNIT MOUNTED--THE PANEL SHALL INCLUDE ALL SET POINTS FOR OPERATION. CONTROLLER SHALL BE CAPABLE OF UPDATING THRU A COMPUTER CONNECTION OR INTERNET CONNECTION. CONTROLLER SHALL BE CAPABLE OF MONITORING OVER AN INTERNET CONNECTION AT THE OPTION OF THE OWNER AT A LATER DATE.  
7. UNIT SHALL INCLUDE INTEGRAL ELECTRIC SPACE HEATING WITH SINGLE POINT CONNECTION.  
8. UNIT SHALL HAVE FACTORY TRAINED STARTUP SERVICE.  
9. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

FAN SCHEDULE

MARK	DESCRIPTION	ROOM SERVED
EF-1,2,3,4 5,6,10,14,15,16,17	GREENHECK MODEL G-80-G ROOF MOUNTED EXHAUST FAN, 300 CFM @ .375" ESP, 1/30 HP @ 120 V. COMPLETE W/ BIRDSCREEN, BACKDRAFT DAMPER, DISCONNECT, ROOF CURB AND VARIABLE SPEED CONTROLLER.	GUEST ROOM TOILETS
EF-7,8,9,11,12,13	GREENHECK MODEL G-95-G ROOF MOUNTED EXHAUST FAN, 600 CFM @ .375" ESP, 1/12 HP @ 120 V. COMPLETE W/ BIRDSCREEN, BACKDRAFT DAMPER, DISCONNECT, ROOF CURB AND VARIABLE SPEED CONTROLLER.	GUEST ROOM TOILETS
EF-18 EF-19	GREENHECK MODEL G-85-G ROOF MOUNTED EXHAUST FAN, 375 CFM @ .375" ESP, 1/30 HP @ 120 V. COMPLETE W/ BIRDSCREEN, BACKDRAFT DAMPER, DISCONNECT, ROOF CURB AND VARIABLE SPEED CONTROLLER.	GUEST ROOM TOILETS
EF-18	GREENHECK MODEL SP-224 CEILING MOUNTED FAN, 175 CFM @ .375, 83 WATTS, 120 VOLTS. EXHAUST FAN TO RUN CONTINUOUSLY	FITNESS TOILETS/VENDING
EF-19	GREENHECK MODEL SP-224, CEILING MOUNTED EXHAUST FAN, 220 CFM @ .125" SP, 83 WATTS @ 120 VOLT. EXHAUST FAN TO RUN CONTINUOUSLY	COMPUTER ROOM
EF-20	GREENHECK MODEL SP-250, CEILING MOUNTED EXHAUST FAN, 405 CFM @ .125" SP, 121 WATTS @ 120 VOLT W/ T'STAT SET AT 90 DEGREES F.	ELECTRICAL ROOM
EF-21	GREENHECK MODEL G-95-G ROOF MOUNTED EXHAUST FAN, 400 CFM @ .375" ESP, 1/12 HP @ 120 V. COMPLETE W/ BIRDSCREEN, BACKDRAFT DAMPER, DISCONNECT, ROOF CURB AND VARIABLE SPEED CONTROLLER. EXHAUST FAN TO RUN CONTINUOUSLY	PUBLIC TOILET
EF-22	GREENHECK MODEL GW-95-G ROOF MOUNTED EXHAUST FAN, 400 CFM @ .375" ESP, 1/12 HP @ 120 V. COMPLETE W/ BIRDSCREEN, BACKDRAFT DAMPER, DISCONNECT, ROOF CURB AND VARIABLE SPEED CONTROLLER, INTERLOCK W/ PDU-1 W/ OVERRIDE SWITCH ON WALL OF POOL EQUIPMENT ROOM..	
EF-GR	GREENHECK MODEL SP-7, CEILING MOUNTED FAN, 75 CFM @ .375" ESP, 80 WATTS, 120 V., WITH INTEGRAL GRILLE, DISCONNECT SWITCH.	EACH GUEST TOILET

\* ALL EXHAUST DUCT SHALL BE METAL DUCT. NO FLEX PERMITTED.

ELECTRIC HEATER SCHEDULE

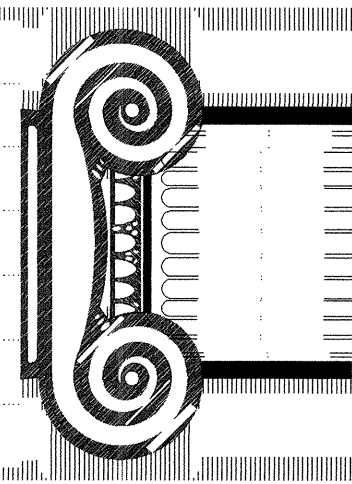
UNIT MARK	AREA SERVED	MANUF. MODEL #	INPUT HEAT CAPACITY	VOLTS/ PHASE	NOTES	COMMENTS
EW-1	STORAGE	AWH-05	5	208/1	1	
EBH-1	STAIRS	BB-01	1	208/1	1	

NOTES:  
1. INTEGRAL THERMOSTAT AND DISCONNECT SWITCH.

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Drawn:

Approved:

2/22/08 REVISED PER HAMPTON REVIEW

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Job:

Date: 12-07-07

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