

ROOFTOP UNIT SCHEDULE															
MARK	AREA SERVED	CFM	O.A. CFM	E.S.P. (in w.c.)	COOLING CAPACITY (BTUH)		E.A.T.		AMBIENT (°F)	HEATING CAPACITY (MBH)		ELECTRICAL		STANDARD OF PERFORMANCE	
					SENSIBLE	TOTAL	DB	WB		INPUT	OUTPUT	VOLTAGE	MCA		MAX FUSE
RTU-1	MEETING 1	2400	1000	0.5	53,600	12,000	80	61	95	120	91	208/3/60	321	50	TRANE YSC-072
RTU-2	MEETING 2	2400	1000	0.6	53,600	12,000	80	61	95	120	91	208/3/60	321	50	TRANE YSC-072
RTU-3	MEETING 3	2400	1000	0.5	53,600	12,000	80	61	95	120	91	208/3/60	321	50	TRANE YSC-072
RTU-4	PREFUNCTION	5000	1000	0.8	106,000	14,000	80	61	95	150	122	208/3/60	63	80	TRANE YCD-150
RTU-5	BOARD ROOM	1200	300	0.5	26,200	31,400	80	61	95	80	64	208/3/60	18.6	25	TRANE YSC-036
RTU-6	BREAKOUT 2	1600	500	0.5	31,900	49,000	80	61	95	80	64	208/3/60	23.9	35	TRANE YSC-048
RTU-7	LOBBY	3600	500	0.6	72,903	99,815	76	65	95	135	105	208/3/60	59.0	70	TRANE YSC-120
RTU-8	B-O-H	2000	100	0.8	48,200	63,300	80	61	95	80	64	208/3/60	31.5	50	TRANE YSC-060
RTU-9	ELEVATOR	2400	250	0.8	53,600	12,000	80	61	95	120	91	208/3/60	321	50	TRANE YSC-072

1. ALL UNITS SHALL BE PROVIDED WITH AUTO C/O ELECTRONIC THERMOSTAT WITH LED READOUT AND LOCKING COVER.
2. THERMOSTATS SHALL PROVIDE (2) STAGES OF COOLING WHERE APPLICABLE.
3. THERMOSTATS SHALL BE LOCATED IN A SECURE LOCATION WITH A REMOTE SENSOR IN THE SPACE AT RTU-1 & 9.
4. ALL UNITS 15 TONS AND LARGER SHALL HAVE MULTIPLE COMPRESSORS.
5. PROVIDE A MANUAL OUTSIDE AIR DAMPER WITH WEATHERHEAD AT RTU-5, 6, 7, 8 & 9.
6. PROVIDE A MOTORIZED OUTSIDE AIR DAMPER WITH WEATHERHEAD AT RTU-1, 2, 3 & 4.
7. CONTROL MOTORIZED OUTSIDE AIR DAMPER WITH CARBON MONOXIDE SENSOR LOCATED IN THE RETURN DUCT.
8. ALL UNITS SHALL HAVE TYPED OFF CONTROL.
9. ALL UNITS SHALL HAVE A CRANKCASE HEATER.
10. ALL UNITS SHALL HAVE (2) SETS OF FILTERS.
11. ALL UNITS SHALL BE INSTALLED ON 14" HIGH ROOF CURBS.
12. ALL UNITS SHALL HAVE HINGED ACCESS DOORS WITH HAND OPERATED FASTENERS.
13. ALL UNITS SHALL HAVE LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES.
14. ALL UNITS SHALL HAVE WARRANTIES AS FOLLOWS: PARTS - 1 YEAR, COMPRESSORS - 5 YEARS, HEAT EXCHANGER - 10 YEARS.
15. ALL UNITS SHALL HAVE A SMOKE DETECTOR IN THE UNITS RETURN FOR SHUTDOWN IN ACCORDANCE WITH LOCAL CODE AND NFPA.
16. TOTAL O.A. AT RTU-1, 2, 3 IS 1000 CFM, 500 CFM AT UNIT AND 500 CFM FROM MAU-1.
17. TOTAL O.A. AT RTU-5, 6 IS 500 CFM, 250 CFM AT UNIT AND 250 CFM FROM MAU-1.

AIR HANDLING UNIT SCHEDULE																
MARK	LOCATION	CFM	O.A. CFM	E.S.P.	COOLING CAPACITY (BTUH)		ENT. AIR		A'MBIENT	ELECTRICAL DATA				STANDARD OF PERFORMANCE		
					SENSIBLE	TOTAL	DB	WB		VOLTAGE	HEATER (WATTS)	MCA	MAX. FUSE			
											CKT 1	CKT 2	CKT 1	CKT 2		
AHU-1	LAUNDRY	2000	200	0.60	42500	56500	80	61	95	208/1/60	11530	48	26	50	30	TRANE TUE-063
AHU-2	KITCHEN	3000	500	0.60	65500	90200	80	61	95	208/3/60	18110	72	82	80	90	TRANE TUE-090
AHU-3	RESTAURANT	4000	450	0.50	81400	121900	80	61	95	208/3/60	261200	98	113	100	125	TRANE TUE-120
AHU-4	ADMIN.	1200	100	0.50	21800	36200	80	61	95	208/3/60	1200	31	XX	40	XX	TRANE TUE-040
AHU-5	EXERCISE	1200	200	0.50	21800	36200	80	61	95	208/3/60	1200	31	XX	40	XX	TRANE TUE-040
AHU-6	GUEST SIXTH	600	0	0.25	8310	10510	75	61	95	208/1/60	3000	15	XX	15	XX	FIRST CO 194X-3

1. PROVIDE AUTO C/O ELECTRONIC THERMOSTAT WITH LOCKING COVER.
2. THERMOSTAT SHALL PROVIDE 2 STAGE COOLING WHERE APPLICABLE.
3. THERMOSTAT SHALL BE LOCATED IN A SECURE LOCATION WITH A REMOTE SENSOR IN THE SPACE AT AHU-3 & 5.
4. ALL UNITS 15 TONS AND LARGER SHALL HAVE MULTIPLE COMPRESSORS.
5. PROVIDE (2) SETS OF FILTERS WITH EACH SYSTEM.
6. PROVIDE A SMOKE DETECTOR (BY THE ELECTRIC CONTRACTOR) IN THE RETURN AIR, (PRIOR TO ANY MIXING OF FILTERS), FOR UNIT SHUTDOWN IN ACCORDANCE WITH CODE AT AHU-1, 2, 3, 4 & 5.
7. EXTEND 1/2" TRAPPED CONDENSATE TO OUTLET BY PLUMBER.
8. EXTEND TYPE L ACR COPPER TO CONDENSING UNIT, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
9. THERMOSTAT AT AHU-6 SHALL BE INCOM E4 SMARTSTAT.
10. PROVIDE MANUFACTURERS STANDARD RETURN/ACCESS PANEL BELOW AHU-6, PAINT PER ARCHITECTS INSTRUCTIONS.
1. THE HEAT EXCHANGER FOR THE POOL WATER HEATER SHALL BE COAXIAL.
2. LINES SIZES: HOT GAS = 1/8", LIQUID = 5/8"
3. REFRIGERANT (R-22) CHARGE FIELD CHARGE = 3#P (BASED ON A RUN OF 0-10 FT. VERTICAL, 1-40 FT. HORIZONTAL, TOTAL RUN NOT TO EXCEED 50 FT.)
4. ENSURE THERE IS CLEARANCE AROUND THE PERIMETER OF THE CONDENSER EQUAL TO ITS WIDTH
5. PROVIDE TRAPS AT ALL ELEVATION CHANGES AND EVERY 20 FT OF RISER.
6. PROVIDE A SEPARATE POWER SUPPLY TO THE OUTDOOR CONDENSER.
7. DISCONNECTS BY DIV 16.
8. UNIT ORIENTATION SHALL BE "VERTICAL-FLOOR MOUNTED" WITH DIRECT DRIVE FAN.
9. UNIT SHALL INCLUDE A MOTORIZED O/A DAMPER WITH TIME-CLOCK.

HEAT PUMP UNIT SCHEDULE								
MARK	COOLING CAPACITY (BTUH)		AMBIENT	EFFICIENCY SEER	ELECTRICAL DATA			STANDARD OF PERFORMANCE
	SENSIBLE	TOTAL			VOLTAGE	MCA	MAX. FUSE	
CJ-1	42500	56500	95	13.00	208/3/60	24	40	TRANE 2TUA30060
CJ-2	65500	90200	95	13.00	208/3/60	31	60	TRANE TUA4090
CJ-3	81400	121900	95	13.00	208/3/60	48	80	TRANE TUA120
CJ-4	21800	36200	95	14.50	208/3/60	11	25	TRANE 2TUA30236
CJ-5	21800	36200	95	14.50	208/3/60	11	25	TRANE 2TUA30236
CJ-6	8310	10510	95	13.00	208/1/60	8	15	TRANE 2TUB30218

1. MOUNT UNITS ON ROOF ON 4" THICK CONCRETE PAD WITH CHAMFERED EDGES, SLOPE 1/8" PER FOOT AWAY FROM BUILDING.
2. MOUNT UNITS ON ROOF ON PVC EQUIPMENT PAD. PROVIDE WALK TREAD BELOW PAD.
3. CONNECT TO INDOOR UNIT WITH TYPE "L" ACR COPPER, SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE ALL REFRIGERATION ACCESSORIES AS REQUIRED.
5. ALL UNITS SHALL HAVE CRANKCASE HEATERS.
1. THE HEAT EXCHANGER FOR THE POOL WATER HEATER SHALL BE COAXIAL.
2. LINES SIZES: HOT GAS = 1/8", LIQUID = 5/8"
3. REFRIGERANT (R-22) CHARGE FIELD CHARGE = 3#P (BASED ON A RUN OF 0-10 FT. VERTICAL, 1-40 FT. HORIZONTAL, TOTAL RUN NOT TO EXCEED 50 FT.)
4. ENSURE THERE IS CLEARANCE AROUND THE PERIMETER OF THE CONDENSER EQUAL TO ITS WIDTH
5. PROVIDE TRAPS AT ALL ELEVATION CHANGES AND EVERY 20 FT OF RISER.
6. PROVIDE A SEPARATE POWER SUPPLY TO THE OUTDOOR CONDENSER.
7. DISCONNECTS BY DIV 16.
8. UNIT ORIENTATION SHALL BE "VERTICAL-FLOOR MOUNTED" WITH DIRECT DRIVE FAN.
9. UNIT SHALL INCLUDE A MOTORIZED O/A DAMPER WITH TIME-CLOCK.

FAN SCHEDULE

MARK	LOCATION	TYPE	CFM	T.S.P. (IN. W.C.)	RPM	ELECTRICAL		MAX. BONES	STANDARD OF PERFORMANCE	REMARKS
						VOLTAGE	HP/ (W)			
F-1	HOOD EXHAUST	UTILITY SET	4790	1250	XX	208/3/60	2	18	GREENHECK SUB-120	3, 4, 6, 7, 9, 10, 12, 20, 29
F-2	WATER HEATER	WALL PROP.	750	0.125	1550	115/1/60	1/2	6	GREENHECK 550-10	3, 13, 18, 19
F-3	MEETING	ROOF CENT.	150	0.125	985	115/1/60	1/30	1	GREENHECK G-070-D	1, 3, 14, 15, 16, 17
F-4	MEETING	ROOF CENT.	150	0.125	985	115/1/60	1/30	1	GREENHECK G-070-D	1, 3, 14, 15, 16, 17
F-5	WATER HEATER	I-N-LINE	500	0.250	1500	115/1/60	1/10	8	GREENHECK 50-020-D	3, 13, 20, 24, 25
F-6	FIRE	CLG. CENT.	200	0.125	846	115/1/60	(83)	2	GREENHECK 5P-A250	3, 13, 15, 20, 21
F-7	LAUNDRY	CLG. CENT.	75	0.315	761	115/1/60	(80)	2	GREENHECK 5P-B10	3, 16, 20, 22
F-8	HOOD MAU	I-N-LINE	3360	0.625	1095	208/3/60	1	15	GREENHECK B50-180-10	3, 4, 20, 23, 24, 25
F-9	DISHWASHER	WALL CENT.	900	0.815	1662	115/1/60	1/4	10	GREENHECK CU-101-A	3, 14, 15, 16, 26, 27
F-10	TOILETS	ROOF CENT.	125	0.315	181	115/1/60	1/4	5	GREENHECK GB-141-A	1, 3, 14, 22
F-11	EXERCISE	WALL CENT.	300	0.125	1460	115/1/60	1/20	5	GREENHECK CU-070-D	3, 14, 16, 22
F-12	POOL	WALL CENT.	500	0.250	1250	115/1/60	1/35	6	GREENHECK CU-090-G	3, 14, 16, 22
F-13	POOL EQUIPMENT	FILTER SUPPLY	650	0.125	378	115/1/60	1/4	2	GREENHECK RSFF-1000-4	1, 3, 13, 19
F-14	POOL MECHANICAL	FILTER SUPPLY	650	0.125	378	115/1/60	1/4	2	GREENHECK RSFF-1000-4	1, 3, 13, 19
F-A	GUEST ROOM	CLG. CENT.	35	0.125	435	115/1/60	(45)	1	GREENHECK 5P-B10	3, 12, 15, 16, 20
F-B	TOUER	ROOF CENT.	125	0.250	196	115/1/60	1/30	4	GREENHECK G-065-D	1, 3, 14, 16, 22
F-C	TOUER	ROOF CENT.	250	0.250	178	115/1/60	1/30	4	GREENHECK G-070-D	1, 3, 14, 16, 22
F-V	VENDING	CLG. CENT.	150	0.100	1030	115/1/60	(125)	4	GREENHECK 5P-3	3, 13, 15, 16, 20

1. ROOF CURB
2. VENTED EXTENSION
3. DISCONNECT
4. STARTER
5. HINGE KIT
6. NON-STICK WHEEL
1. CLEAN OUT PORT
2. CURB SEAL
3. DRAIN/GREASE TRAP
4. DISCONNECT
5. HINGE KIT
6. NON-STICK WHEEL
1. CONTROL WITH THERMOSTAT
2. BIRDSCREEN
3. BACKDRAFT DAMPER
4. DISCONNECT
5. CONTROL WITH SWITCH AT HOOD
6. FAN MOUNTED MOTION SENSOR
1. MOTORIZED DAMPER
2. NEOPRENE ISOLATORS
3. WALL DISCHARGE
4. DISCONNECT WITH F-1
5. INSULATED HOUSING
1. FILTER (2") BOX
2. INTERLOCK WITH DISHWASHER
3. 21.5 MINUTE DELAY TO OFF
4. EQUIPMENT RAILS
5. INTERLOCK WITH F-1
6. 23.40" HIGH DISCHARGE

DUCT FURNACE SCHEDULE

AIR HANDLING UNIT SCHEDULE											HEAT PUMP SCHEDULE											
MARK	LOCATION	STYLE	CFM	O.A. CFM	E.S.P.	COOLING CAPACITY (BTUH)		ENT. AIR		VOLTAGE	STANDARD OF PERFORMANCE	MARK	COOLING CAPACITY (BTUH)		EFFICIENCY		HEATING		ELECTRICAL DATA			STANDARD OF PERFORMANCE
						SENSIBLE	TOTAL	DB	WB				SENSIBLE	TOTAL	A'MBIENT	SEER	REV. CYCLE AT 14 DEG. F	MCA	MAX. FUSE	VOLTAGE		
DX-A	SUITE SHOP	CONCEALED	246	0	NA	6000	8500	80	61	208/1/60	DAIKIN FDXS09DVJU	CU-A	6000	8500	95	16.00	5800	61	15	208-230/1	DAIKIN RXS09DVJU	
DX-B	ELEVATOR	WALL HUNG	242	0	NA	8100	11500	80	61	208/1/60	DAIKIN FTXS12DVJU	CU-B	8100	11500	95	16.00	6560	73	15	208-230/1	DAIKIN RXS12DVJU	
DX-C	COMPUTER	WALL HUNG	242	0	NA	8100	11500	80	61	208/1/60	DAIKIN FTXS12DVJU	CU-C	8100	11500	95	16.00	6560	73	15	208-230/1	DAIKIN RXS12DVJU	
DX-D	ELEVATOR	WALL HUNG	242	0	NA	8100	11500	80	61	208/1/60	DAIKIN FTXS12DVJU	CU-D	8100	11500	95	16.00	6560	73	15	208-230/1	DAIKIN RXS12DVJU	
DX-E	A/V ROOM	WALL HUNG	242	0	NA	8100	11500	80	61	208/1/60	DAIKIN FTXS12DVJU	CU-E	8100	11500	95	16.00	6560	73	15	208-230/1	DAIKIN RXS12DVJU	

1. EXTEND ACR COPPER TO CONDENSING UNIT, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PIPING CONNECTION AT UNIT TO BE DEEP FLARE ONLY.
3. EXTEND 1/2" TRAPPED CONDENSATE (1" ARMAFLEX INSULATION) TO OUTLET BY PLUMBER.
4. ELEVATOR, COMPUTER & SUITE SHOP EQUIPMENT SHALL HAVE PRIORITY OVER LOCATION OF DX UNIT, COORDINATE PRIOR TO ROUGH-IN.
5. POWER IS FROM CONDENSING UNIT, REFER TO CONDENSING UNIT SCHEDULE FOR ELECTRICAL DATA.
6. PROVIDE REMOTE WIRELESS THERMOSTAT WITH LOSS PREVENTION CHAIN.
7. MAX. REFRIGERANT LINE LENGTH IS 66 FEET INCLUDING A MAXIMUM RISE OF 49 FEET.
8. COOLING AND HEATING CAPACITIES ARE NET ACCOUNTING FOR BOTH INDOOR AND OUTDOOR UNITS.
1. THE HEAT EXCHANGER FOR THE POOL WATER HEATER SHALL BE COAXIAL.
2. LINES SIZES: HOT GAS = 1/8", LIQUID = 5/8"
3. REFRIGERANT (R-22) CHARGE FIELD CHARGE = 3#P (BASED ON A RUN OF 0-10 FT. VERTICAL, 1-40 FT. HORIZONTAL, TOTAL RUN NOT TO EXCEED 50 FT.)
4. ENSURE THERE IS CLEARANCE AROUND THE PERIMETER OF THE CONDENSER EQUAL TO ITS WIDTH
5. PROVIDE TRAPS AT ALL ELEVATION CHANGES AND EVERY 20 FT OF RISER.
6. PROVIDE A SEPARATE POWER SUPPLY TO THE OUTDOOR CONDENSER.
7. DISCONNECTS BY DIV 16.
8. UNIT ORIENTATION SHALL BE "VERTICAL-FLOOR MOUNTED" WITH DIRECT DRIVE FAN.
9. UNIT SHALL INCLUDE A MOTORIZED O/A DAMPER WITH TIME-CLOCK.
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AIR DISTRIBUTION SCHEDULE

MARK	APPLICATION	TYPE	THROW	CEILING	CONSTRUCTION	FINISH	STANDARD OF PERFORMANCE	REMARKS
911	SUPPLY	LOUVER FACE	1-W	LAY-IN	ALUMINUM	WHITE	METALAIRES 5000	1, 2
912	SUPPLY	LOUVER FACE	2-W	LAY-IN	ALUMINUM	WHITE	METALAIRES 5000	1, 2
913	SUPPLY	LOUVER FACE	3-W	LAY-IN	ALUMINUM	WHITE	METALAIRES 5000	1, 2
914	SUPPLY	LOUVER FACE	4-W	LAY-IN	ALUMINUM	WHITE	METALAIRES 5000	1, 2
921	SUPPLY	LOUVER FACE	1-W	SHEETROCK	ALUMINUM	WHITE	METALAIRES 5000	1, 2, 4
922	SUPPLY	LOUVER FACE	2-W	SHEETROCK	ALUMINUM	WHITE	METALAIRES 5000	1, 2, 4
923	SUPPLY	LOUVER FACE	3-W	SHEETROCK	ALUMINUM	WHITE	METALAIRES 5000	1, 2, 4
924	SUPPLY	LOUVER FACE	4-W	SHEETROCK	ALUMINUM	WHITE	METALAIRES 5000	1, 2, 4
9U	SUPPLY	DOUBLE DEFL	4-W	SIDEWALL	ALUMINUM	WHITE	METALAIRES V4004D	1
9L	SUPPLY	LINEAR	15 DEG	SHEETROCK	ALUMINUM	ALUMINUM	METALAIRES 2000	1, 2
9T	SUPPLY	THERMAFUSER	4-W	LAY-IN	ALUMINUM	WHITE	ACUTHERM TF-14C	1, 2, 3
9I	RETURN	FIXED BLADE	---	LAY-IN	ALUMINUM	WHITE	METALAIRES RH-TB	2
9R	RETURN	FIXED BLADE	---	SHEETROCK	ALUMINUM	WHITE	METALAIRES RH	2, 4
93	RETURN	LINEAR	---	SHEETROCK	ALUMINUM	WHITE	METALAIRES 2000	1, 2
E1	EXHAUST	FIXED BLADE	---	LAY-IN	ALUMINUM	WHITE	METALAIRES RH-TB	2
E2	EXHAUST	FIXED BLADE	---	SHEETROCK	ALUMINUM	WHITE	METALAIRES RH-D	1, 2, 4
D.G.	DOOR GRILLE	DBL FLANGE	---	---	ALUMINUM	ALUMINUM	METALAIRES DG-DF	-
LOUVER	INTAKE/EXH	DRAINABLE	---	---	ALUMINUM	FER ARCH	GREENHECK ESD-202	-