

AIR HANDLING UNIT SCHEDULE																																
GENERAL INFORMATION				MECHANICAL REQUIREMENTS												ELECTRICAL REQUIREMENTS																
				SUPPLY FAN																										RETURN FAN		AIR BLENDER
UNIT NO.	LOCATION	SERVES	MANUFACTURER & MODEL#	CFM	O.A. CFM	TOTAL SP (IN)	ESP (IN)	RPM	BHP	HP	WHEEL SIZE (IN)	TYPE	MODEL NO.	APD (IN)	COIL TAG	COIL TAG	COIL TAG	COIL TAG	MECH. REMARKS	VOLTPH	MIN. CKT. AMP	WIRE SIZE	TYPE	SIZE	LOCATION	CNTRL. DVC.	AUX.	BY	CONTROL	DISCONNECT TYPE	BY	ELEC REMARKS
5-AHU-36	1ST MECHANICAL	2ND FLOOR	TRANE PCC	10,000	3,350	7.4	2.00	2489	19.0	2 @ 10 HP	20.00	PLENUM	5-RF-36	TRANE	0.121	5-PH-36	5-HC-36	5-CC-36	1,2,3	4803	31.5	8	E1	-	-	-	-	-	-	E2	DIV 23	E3
5-AHU-37	1ST MECHANICAL	3RD FLOOR	TRANE PCC	10,000	10,000	7.0	2.00	2173	17.5	2 @ 10 HP	22.25	PLENUM	5-RF-37	TRANE	0.097	5-PH-37	5-HC-37	5-CC-37	1,2,3	4803	31.5	8	E1	-	-	-	-	-	-	E2	DIV 23	E3
5-AHU-38	RM 215	2ND SOUTH	TRANE PCC	4,000	1,350	6.5	3.00	3502	7.1	10 HP	12.00	AF	-	-	-	5-HC-38	5-CC-38		1.4	4803	17.5	12	E1	-	-	-	-	-	-	E2	DIV 23	
MECH. REMARKS: 1. UNIT SHALL BE HORIZONTAL DRAW THROUGH, MEDIUM-HIGH PRESSURE. 2. APPROXIMATE SIZE IS 47 1/2" LONG X 100" WIDE X 68" TALL. 3. PROVIDE UNIT WITH MIXING BOX, AIR BLENDER, PREFILTER, INSPECTION, PREFILTER, ACCESS, STEAM PREHEAT, INSPECTION, STEAM HEAT, INSPECTION, STEAM HUMIDIFIER, COOLING COIL, FAN, AFTER FILTER, DISCHARGE PLENUM.																				ELEC. REMARKS: E1: VFD BY DIV. 23 E2: DISCONNECT FURNISHED INTEGRAL WITH VFD E3: PROVIDE SINGLE POINT CONNECTION TO A SINGLE VFD TO OPERATE TWO FANS												

AIR COOLED CHILLER SCHEDULE																																
MECHANICAL REQUIREMENTS																		ELECTRICAL REQUIREMENTS														
UNIT NO.	LOCATION	MANUFACTURER & MODEL#	NOMINAL TONS	TYPE	UNIT KW	ACTUAL TONS	GPM	EWT	LWT	WPD	AMB TEMP	COND TEMP	REF	FLUID	COND. TAGS	REF CIR#	COMP TYPE	CAPACITY STEPS	MEGH REMARKS	STARTER								DISCONNECT		ELEC. REMARKS		
																				VOLTPH	MIN. CKT. AMP	WIRE SIZE	TYPE	SIZE	LOCATION	CNTRL DVC.	AUX.	BY	CONTROL	TYPE	BY	
5-CH-36	MECH	MULTISTACK (4) MST0X9H2A	280	WTR	262.2	233.7	431.1	55	42	8.7	95	125	R-410A	WATER	5-CU-36	8	SCROLL	8 EQUAL STEPS	1.2,3	4803	388.0	E1	-	-	-	-	-	-	-	E2	DIV 26	
MECH. REMARKS: 1. PERFORMANCE BASED ON 100% WATER. 2. PROVIDE UNIT DISCONNECT AND SINGLE POINT POWER CONNECTION. 3. REFRIGERANT CONDENSERS ARE LOCATED ON ROOF.																																
ELEC. REMARKS: E1: TWO PARALLEL SETS OF (3-#250KCMIL & 1-#1 GND IN 2 1/2" C). E2: 600A/3P, HEAVY DUTY, NON-FUSED DISCONNECT SWITCH.																																

COOLING COIL SCHEDULE																				
MECHANICAL REQUIREMENTS																				
DESIG	SERVES	MANUFACT. DESIG.	TYPE	CLG CFM	OA CFM	%OA	AIR SIDE				APD	TOTAL MBH	SENSIBLE MBH	WATER SIDE						MECH REMARKS
							ENT AIR		LVG AIR					EWT	LWT	GPM	WPD	PIPE SIZE	ROWS	
							DB	WB	DB	WB										
5-CC-36	5-AHU-36	TRANE	CW	10,000	3,350	33.3%	82	66.0	51.5	51.1	0.76	440.5	335.7	42.0	55.0	67.5	4.6	8	1	
5-CC-37	5-AHU-37	TRANE	CW	10,000	10,000	100.0%	95	74.0	52.0	51.6	0.62	729.3	475.8	42.0	55.0	111.8	9.0	8	1	
5-CC-38	5-AHU-38	TRANE	CW	4,000	1,350	33.3%	82	66.0	52.0	51.8	0.81	168.9	132.0	42.0	55.0	33.7	7.2	4	1	

MECH. REMARKS:  
1. 100% WATER.

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HEATING COIL SCHEDULE																		
MECHANICAL REQUIREMENTS																		
DESIG	SERVES	MANUFACT. DESIG	HTG CFM	OA CFM	%OA	AIR SIDE				WATER SIDE				PIPE SIZE	ROWS	HEATING FLUID	MECH REMARKS	
						EAT	LAT	APD	MBH	EWI	LWT	GPM	WPD					
5-PH-36	AHU-36	TRANE	10,000	3,350	33%	25	45.0	0.069	216.9	180	135	10.2	0.28		1	30% PG	1	
5-HC-36	AHU-36	TRANE	10,000	3,350	33%	40	71.8	0.072	344.8	180	160	34.4	4.54		1	WATER	2	
5-PH-37	AHU-37	TRANE	10,000	10,000	100%	-20	45.0	0.069	704.9	180	160	73.9	10.71		1	30% PG	1	
5-HC-37	AHU-37	TRANE	10,000	10,000	100%	40	75.0	0.052	379.6	180	160	37.9	4.39		1	WATER	2	
5-PH-38	AHU-38	TRANE	4,000	1,350	33%	25	51.7	0.079	116.0	180	160	12.2	0.5		1	30% PG	1	
5-HC-38	AHU-38	TRANE	4,000	1,350	33%	40	71.7	0.152	137.4	180	160	13.7	2.01		1	WATER	2	

MECH. REMARKS:  
1. HEATING PERFORMANCE BASED ON 30% PROPYLENE GLYCOL.  
2. HEATING PERFORMANCE BASED ON 100% WATER.

5. HX-1 AND HX-2 SHALL BE STACKED. PROVIDE SUPPORT STAND. SEE DETAIL.  
6. HX-3 AND HX-4 SHALL BE STACKED. PROVIDE SUPPORT STAND. SEE DETAIL.

AIR COOLED CONDENSER SCHEDULE

MECHANICAL REQUIREMENTS												ELECTRICAL REQUIREMENTS												
UNIT NO.	LOCATION	SERVES	MANUFACTURER & MODEL#	COOLING CAP. MBH	TONS	AMB. TEMP. (DEG. F)	TEMPERATUR DIFF. (DEG. F)	CONDENSER		REFRIGERANT TYPE	MECH REMARKS	VOLT/PH	MIN. CKT. AMP	WIRE SIZE	STARTER						DISCONNECT		ELEC REMARKS	
								FAN(S)	HP (EA)						TYPE	SIZE	LOCATION	CNTRL. DVC.	AUX.	BY	CONTROL	TYPE		BY
5-CU-36A	ROOF	5-CH-36	MULTISTACK ASRC-70	855	70	95	25	4	1.5	R-410A	1,2,3	4803	16.9	10	E1	-	-	-	-	-	-	E2	DIV 26	
5-CU-36B	ROOF	5-CH-36	MULTISTACK ASRC-70	855	70	95	25	4	1.5	R-410A	1,2,3	4803	16.9	10	E1	-	-	-	-	-	-	E2	DIV 26	
5-CU-36C	ROOF	5-CH-36	MULTISTACK ASRC-70	855	70	95	25	4	1.5	R-410A	1,2,3	4803	16.9	10	E1	-	-	-	-	-	-	E2	DIV 26	
5-CU-36D	ROOF	5-CH-36	MULTISTACK ASRC-70	855	70	95	25	4	1.5	R-410A	1,2,3	4803	16.9	10	E1	-	-	-	-	-	-	E2	DIV 26	

MECH. REMARKS:  
1. COOLING CAPACITY BASED ON 25 DEGREE TEMP DIFFERENCE.  
2. USED WITH CHILLER 5-CH-36 IN MECHANICAL ROOM.  
3. EACH CONDENSER HAS DUAL INDEPENDENT REFRIGERANT CIRCUITS WITH 2-1/8" REFRIGERANT CONNECTIONS.

ELEC. REMARKS:  
E1. STARTER FURNISHED/INTEGRAL WITH UNIT.  
E2. 30A/3P, HEAVY DUTY, NON-FUSIBLE DISCONNECT SWITCH.

EXHAUST FAN & POWER ROOF VENT SCHEDULE																											
MECHANICAL REQUIREMENTS														ELECTRICAL REQUIREMENTS													
UNIT NO.	LOCATION	SERVES	MANUFACTURER & MODEL NO.	CFM	TOTAL H2O	SONES	WINDBAND EXIT VOLUME	WINDBAND OV	EFF. PLUME HEIGHT (FT)	RPM	BHP	HP	MECH REMARKS	VOLT/PH	MIN. CKT. AMP	WIRE SIZE	TYPE	SIZE	LOCATION	CNTRL. DVC.	AUX.	BY	CONTROL	DISCONNECT TYPE	BY	ELEC REMARKS	
5-EF-36	ROOF	GENERAL	GREENHECK GB-180-15	3,000	1.0	13.3	-	-	-	1085	0.93	1.5	1	4803	3.8	12	-	-	-	-	-	-	-	-	-	-	
5-EF-37	ROOF	RM 230 & 334	GREENHECK GB-161HP-15	1,200	2.0	16.9	-	-	-	1606	0.83	1.5	1	4803	3.8	12	-	-	-	-	-	-	-	-	-	-	
5-EF-38	ROOF	RM 237 & 341	GREENHECK GB-161HP-15	1,200	2.0	16.9	-	-	-	1606	0.83	1.5	1	4803	3.8	12	-	-	-	-	-	-	-	-	-	-	
5-EF-39A	ROOF	3RD FLOOR	GREENHECK VECTOR-MD-30-2-75-HV-HPW	10,000	2.15	-	46.724	3027.0	62.8	1770	32.79	40	2.3	4803	65.0	6	E1	-	-	-	-	-	-	-	-	-	E2
5-EF-39B	ROOF	3RD FLOOR	GREENHECK VECTOR-MD-30-2-75-HV-HPW	10,000	2.15	-	46.724	3027.0	62.8	1770	32.79	40	2.3	4803	65.0	6	E1	-	-	-	-	-	-	-	-	-	E2
5-EF-40	2ND SOUTH	2ND SOUTH	GREENHECK SQ-95-VG	350	0.75	8.8	-	-	-	1723	0.13	0.25	4	1151			-	-	-	-	-	-	-	-	-		

MECH. REMARKS:  
1. PROVIDE BIRDSCREEN, GRAVITY BACKRAFT DAMPER AND 16" HIGH ROOF CURB.  
2. PROVIDE EXHAUST PLENUM WITH BYPASS DAMPERS.  
3. FANS SHALL BE SET UP FOR FULL REDUNDANCY FOR ISOLATION USE.  
4. PROVIDE UNIT MOUNTED DISCONNECT AND VARIABLE SPEED FAN MOTOR.

ELEC. REMARKS:  
E1: VFD BY DIV. 23  
E2: PROVIDE CONTROL WIRING TO ATS#6 FOR SEQUENCE

MECH REMARKS:

1. PROVIDE BIRDSCREEN, GRAVITY BACKDRAFT DAMPER AND 16" HIGH ROOF CURB.

2. PROVIDE EXHAUST PLENUM WITH BYPASS DAMPERS

3. FANS SHALL BE SET UP FOR FULL REDUNDANCY FOR FAN OIL USE

4. PROVIDE UNIT MOUNTED DISCONNECT AND VARIABLE SPEED FAN MOTOR.

HEAT RECOVERY COIL SCHEDULE

MECHANICAL REQUIREMENTS

HEATING AIR SIDE AND WATER SIDE

COOLING AIR SIDE AND WATER SIDE

DESIG

SERVES

MANUFACT. DESIG.

CFM

FACE SIZE

ROWS

MBH

EAT

LAT

APD

GPM

EWI

LWT

WPD

MBH

EAT

LAT

APD

GPM

EWI

LWT

WPD

MECH REMARKS

5-HRC-36E

AHU-36

TRANE W

10,000

60" X 30"

6

143.21

65.0

51.9

1.05

40.0

30.5

38.9

4.6

37.47

75.0

78.5

1.05

40.0

83.6

81.5

2.8

1

5-HRC-36S

AHU-36

TRANE W

3,400

60" X 30"

6

143.21

-20.0

18.8

0.17

40.0

38.9

30.5

5.3

37.47

95.0

85.1

0.17

40.0

81.5

83.6

2.7

1, 2

5-HRC-37E

AHU-37

TRANE W

10,000

60" X 30"

6

143.36

65.0

51.8

1.05

40.0

30.4

38.9

4.6

52.65

75.0

79.9

1.05

40.0

86.8

83.7

2.7

1

5-HRC-37S

AHU-37

TRANE W

10,000

60" X 30"

6

134.31

-20.0

-7.6

1.05

12.0

38.9

11.9

2.2

52.65

95.0

90.3

1.05

40.0

83.7

86.8

2.7

1, 2

ELEC REMARKS:

E1. VFD BY DIV. 23

E2. PROVIDE CONTROL WIRING TO ATT