

ROOF EXHAUST FANS SCHEDULE

FAN DESIGNATION	BUILDING	E-23-1	E-23-2	E-23-3	E-12-1	E-8-1	E-8-2
AREA SERVED	NAME	23 / CHILLER	23/CENTRAL PLANT	23 / GENERATOR	12 / MECH	8	8
MANUFACTURER	NAME	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	NO.	GB-220-15	G-095-D	GB-200-15	G-070-VG	G-133-A	G-133-A
SERVICE	TYPE	EXHAUST	EXHAUST	EXHAUST	VENTILATION	EXHAUST	EXHAUST
AIR QUANTITY	CFM	2,800 / 6,000	350	5,000	250	2,100	2,100
STATIC PRESSURE	IN. W.G.	0.375 / 0.625	0.625	0.625	0.375	0.625	0.625
FAN SPEED	RPM	520 / 900	1,494	1,070	1,702	1,690	1,690
FAN DRIVE	TYPE	BELT	DIRECT	BELT	DIRECT	DIRECT	DIRECT
MOTOR	HP	1-1/2	1/8	1-1/2	1/8	1/2	1/2
ELECTRICAL	V / PH / 50Hz	480 / 3	115 / 1	480 / 3	115 / 1	480 / 3	480 / 3
DAMPER CONTROL	TYPE	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC
FAN CONTROL	INTERLOCK	AHU-23-1	AHU-23-1	CIRC. BREAKER	AHU-8-1	AHU-8-2	
WEIGHT	LBS.	127	20	107	31	58	58

FAN DESIGNATION	BUILDING	E-8-3	E-8-4	E-10-1	E-10-2	E-10-3	E-10-4
AREA SERVED	NAME	8	8	10	10	10	10
MANUFACTURER	NAME	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	NO.	G-133-A	G-133-A	G-133-A	G-133-A	G-133-A	G-133-A
SERVICE	TYPE	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST
AIR QUANTITY	CFM	2,100	2,100	2,100	2,100	2,100	2,100
STATIC PRESSURE	IN. W.G.	0.625	0.625	0.625	0.625	0.625	0.625
FAN SPEED	RPM	1,690	1,690	1,690	1,690	1,690	1,690
FAN DRIVE	TYPE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOTOR	HP	1/2	1/2	1/2	1/2	1/2	1/2
ELECTRICAL	V / PH / 60Hz	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3
DAMPER CONTROL	TYPE	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC
FAN CONTROL	INTERLOCK	AHU-8-3	AHU-8-4	AHU-10-1	AHU-10-2	AHU-10-3	AHU-10-4
WEIGHT	LBS.	58	58	58	58	58	58

NOTES:

- EACH ROOF EXHAUST FAN SHALL BE PROVIDED WITH THE FOLLOWING ACCESSORIES:
 - COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH SIZED PER NEC FOR ALL FANS WITH MOTORS 1/4 HP AND ABOVE UNLESS OTHERWISE NOTED.
 - RELAYS, SIZED AS REQUIRED, FOR ALL FANS 1/8 HP AND LESS. RELAYS SHALL BE LOCATED IN EMB PANELS OR SEPARATE ENCLOSURES. PROVIDE DISCONNECT/TOGGLE SWITCH.
 - PRE-FABRICATED ROOF CURB IF REQUIRED. VERIFY SLOPE OF ROOF.
 - AUTOMATIC DAMPER AND BIRD SCREEN.
- FAN INTERLOCK WITH AIR HANDLING UNIT SHOWN IS TO BE PERFORMED BY THE EMS CONTRACTOR.
- ALL DIRECT DRIVE FANS SHALL BE FURNISHED WITH VARIABLE SPEED CONTROLLERS.
- ROOF EXHAUST FAN E-23-1 SERVING CHILLER ROOM IS 2-SPEED AND SHALL BE CONTROLLED BY A VARIABLE FREQUENCY DRIVE RATED FOR 65,000 AC MIN. LOW SPEED IS FOR GENERAL AIR CONDITIONING AND HIGH SPEED IS TO REMOVE REFRIGERANT FROM THE EQUIPMENT ROOM. EXHAUST FAN SHALL RUN IN LOW SPEED WHILE AHU-23-1 IS AT LOW SPEED VFD SETTING AND SHALL GO TO HIGH SPEED UPON DETECTION OF REFRIGERANT AND AHU-23-1 VFD GOES TO HIGH SPEED SETTING. THE VFD'S FOR THE EXHAUST FAN AND THE AHU SHALL HAVE FREQUENCIES SET BY THE TEST AND BALANCE CONTRACTOR TO CORRESPOND TO THE SCHEDULED AIR QUANTITIES.
- ROOF EXHAUST FAN E-23-3 SERVING GENERATOR ROOM SHALL BE PROVIDED WITH A STARTER/H.O.A. SWITCH RATED FOR 65,000 AC MINIMUM.
- ROOF EXHAUST FAN E-12-1 SHALL BE SET ON EXISTING ROOF CURB. PROVIDE CURB ADAPTER AS REQUIRED.
- ROOF EXHAUST FANS AT BUILDINGS 8 AND 10 SHALL BE SET ON EXISTING ROOF CURBS OF REMOVED ENERGY RECOVERY UNITS. EACH CURB CAP SHALL BE CUSTOM FABRICATED TO FIT OVER EXISTING CURB (FIELD VERIFY DIMENSIONS). CURB CAP SHALL BE WALKABLE, REINFORCED ALUMINUM AND SHALL BE SLOPED FOR DRAINAGE. LOCATION OF FAN SHALL BE CAREFULLY COORDINATED WITH EXISTING EXHAUST DUCT.

IN-LINE EXHAUST FANS SCHEDULE

FAN DESIGNATION	BUILDING	E-1-1	E-1-2	E-1-3	E-1-4
AREA SERVED	NAME	1 / EQUIPMENT RM	1 / EQUIPMENT RM	1 / EQUIPMENT RM	1 / EQUIPMENT RM
MANUFACTURER	NAME	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	NO.	BSQ-180-15	BSQ-180-15	BSQ-180-15	BSQ-180-15
SERVICE	TYPE	EXHAUST	EXHAUST	EXHAUST	EXHAUST
AIR QUANTITY	CFM	3,700	3,700	3,700	3,700
STATIC PRESSURE	IN. W.G.	1.1	1.1	1.1	1.1
FAN SPEED	RPM	1,234	1,234	1,234	1,234
FAN DRIVE	TYPE	BELT	BELT	BELT	BELT
MOTOR	HP	1-1/2	1-1/2	1-1/2	1-1/2
ELECTRICAL	V / PH / 60Hz	480 / 3	480 / 3	480 / 3	480 / 3
DAMPER CONTROL	TYPE	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC
FAN CONTROL	INTERLOCK	AHU-1-1	AHU-1-2	AHU-1-3	AHU-1-4
WEIGHT	LBS.	234	234	234	234

NOTES:

- PROVIDE HANGING RODS AND VIBRATION ISOLATORS.
- DISCONNECT SWITCH/STARTER PROVIDED BY ELECTRICAL CONTRACTOR.

IN-LINE SUPPLY FAN SCHEDULE

FAN DESIGNATION	BUILDING	SF-1-1
AREA SERVED	NAME	1 / EQUIPMENT RM
MANUFACTURER	NAME	GREENHECK
MODEL	NO.	SO-98-VG
SERVICE	TYPE	OUTSIDE AIR SUPPLY
AIR QUANTITY	CFM	350
STATIC PRESSURE	IN. W.G.	1.7
FAN SPEED	RPM	2,174
FAN DRIVE	TYPE	DIRECT
MOTOR	HP	3/4
ELECTRICAL	V / PH / 60Hz	115 / 1
DAMPER CONTROL	TYPE	NONE
FAN CONTROL	INTERLOCK	FCU-1-1
WEIGHT	LBS.	58

NOTES:

- PROVIDE HANGING RODS AND VIBRATION ISOLATORS.
- PROVIDE TOGGLE SWITCH.
- PROVIDE SPEED CONTROLLER.
- PROVIDE INSULATED HOUSING, 1" THICK.
- STARTER PROVIDED BY OWNER.

100% OUTSIDE AIR PRE-COOLING COIL SCHEDULE

MARK	AIRFLOW (CFM)	DAIKIN McQUAY MODEL	L x W x H (IN)	WEIGHT (LB)	CHILLED WATER COIL															MIN. ROWS		MAX. FPI	PIPE SIZE (IN.)	CONTROL VALVE SIZE (IN.)	CONTROL VALVE Cv & P.D. (Cv / F.T.)	FILTER	TYPE	FILTER			
					Sensible Capacity (Btu/hr)	Total Capacity (Btu/hr)	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	FACE VEL. (FPM)	A.P.D. (IN/20)	EWT (F)	LWT (F)	FLOW RATE (GPM)	WATER P.D. (FT H2O)	DEPTH (IN)	CLEAN PD (IN H2O)	DIRTY PD (IN H2O)	MEAN PD (IN H2O)											
PCC-1-1	4,500	CAC010GBAC	42 x 64 x 36	696	184,419	385,644	93.0	79.0	55.5	55.3	471	1.10	44.0	55.8	65.6	13.9	6	10	2-1/2	2	46 / 3.9	FLAT PANEL	MERV 8	2	0.29	1	0.65				
PCC-1-2	4,150	CAC010GBAC	42 x 64 x 36	696	171,703	359,778	93.0	79.0	55.2	55.0	434	0.97	44.0	56.0	60.0	11.8	6	10	2-1/2	2	46 / 3.9	FLAT PANEL	MERV 8	2	0.29	1	0.65				
PCC-1-3	4,150	CAC010GBAC	42 x 64 x 36	696	171,703	359,778	93.0	79.0	55.2	55.0	434	0.97	44.0	56.0	60.0	11.8	6	10	2-1/2	2	46 / 3.9	FLAT PANEL	MERV 8	2	0.29	1	0.65				
PCC-1-4	4,150	CAC010GBAC	42 x 64 x 36	696	171,703	359,778	93.0	79.0	55.2	55.0	434	0.97	44.0	56.0	60.0	11.8	6	10	2-1/2	2	46 / 3.9	FLAT PANEL	MERV 8	2	0.29	1	0.65				
PCC-2-1	1,900	CAC006GBAC	42 x 52 x 30	474	67,498	137,642	93.0	79.0	60.5	59.9	334	0.40	44.0	55.7	23.6	6.1	4	9	2	1-1/2	19 / 3.6	FLAT PANEL	MERV 8	2	0.14	1	0.57				
PCC-2-2	1,900	CAC006GBAC	42 x 52 x 30	474	67,498	137,642	93.0	79.0	60.5	59.9	334	0.40	44.0	55.7	23.6	6.1	4	9	2	1-1/2	19 / 3.6	FLAT PANEL	MERV 8	2	0.14	1	0.57				
PCC-2-3	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-2-4	1,900	CAC006GBAC	42 x 52 x 30	474	67,498	137,642	93.0	79.0	60.5	59.9	334	0.40	44.0	55.7	23.6	6.1	4	9	2	1-1/2	19 / 3.6	FLAT PANEL	MERV 8	2	0.14	1	0.57				
PCC-3-1	5,000	CAC014GBAM	40 x 52 x 58	942	212,812	448,309	93.0	79.0	54.1	53.9	440	1.34	44.0	55.9	75.5	9.6	8	8	2-1/2	2	46 / 6.2	FLAT PANEL	MERV 8	2	0.18	1	0.58				
PCC-3-2	5,000	CAC014GBAM	40 x 52 x 58	942	212,812	448,309	93.0	79.0	54.1	53.9	440	1.34	44.0	55.9	75.5	9.6	8	8	2-1/2	2	46 / 6.2	FLAT PANEL	MERV 8	2	0.18	1	0.58				
PCC-3-3	5,000	CAC014GBAM	40 x 52 x 58	942	212,812	448,309	93.0	79.0	54.1	53.9	440	1.34	44.0	55.9	75.5	9.6	8	8	2-1/2	2	46 / 6.2	FLAT PANEL	MERV 8	2	0.18	1	0.58				
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PCC-4-1	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-4-2	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-4-3	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-4-4	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-5-1	1,900	CAC006GBAC	42 x 52 x 30	474	67,498	137,642	93.0	79.0	60.5	59.9	334	0.40	44.0	55.7	23.6	6.1	4	9	2	1-1/2	19 / 3.6	FLAT PANEL	MERV 8	2	0.14	1	0.57				
PCC-5-2	1,900	CAC006GBAC	42 x 52 x 30	474	67,498	137,642	93.0	79.0	60.5	59.9	334	0.40	44.0	55.7	23.6	6.1	4	9	2	1-1/2	19 / 3.6	FLAT PANEL	MERV 8	2	0.14	1	0.57				
PCC-5-3	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.6	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-5-4	1,900	CAC006GBAC	42 x 52 x 30	474	67,498	137,642	93.0	79.0	60.5	59.9	334	0.40	44.0	55.7	23.6	6.1	4	9	2	1-1/2	19 / 3.6	FLAT PANEL	MERV 8	2	0.14	1	0.57				
PCC-6-1	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-6-2	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-6-3	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-6-4	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-7-1	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-7-2	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-7-3	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-7-4	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-8-1	2,500	CAC007GBAM	42 x 40 x 42	539	99,041	205,446	93.0	79.0	56.8	56.6	404	0.81	44.0	55.9	34.5	7.7	6	9	2	1-1/2	19 / 7.6	FLAT PANEL	MERV 8	2	0.20	1	0.60				
PCC-8-2	2,500	CAC007GBAM	42 x 40 x 42	539	99,041	205,446	93.0	79.0	56.8	56.6	404	0.81	44.0	55.9	34.5	7.7	6	9	2	1-1/2	19 / 7.6	FLAT PANEL	MERV 8	2	0.20	1	0.60				
PCC-8-3	2,500	CAC007GBAM	42 x 40 x 42	539	99,041	205,446	93.0	79.0	56.8	56.6	404	0.81	44.0	55.9	34.5	7.7	6	9	2	1-1/2	19 / 7.6	FLAT PANEL	MERV 8	2	0.20	1	0.60				
PCC-8-4	2,500	CAC007GBAM	42 x 40 x 42	539	99,041	205,446	93.0	79.0	56.8	56.6	404	0.81	44.0	55.9	34.5	7.7	6	9	2	1-1/2	19 / 7.6	FLAT PANEL	MERV 8	2	0.20	1	0.60				
PCC-9-1	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-9-2	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
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PCC-9-4	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-10-1	2,500	CAC007GBAM	42 x 40 x 42	539	99,041	205,446	93.0	79.0	56.8	56.6	404	0.81	44.0	55.9	34.5	7.7	6	9	2	1-1/2	19 / 7.6	FLAT PANEL	MERV 8	2	0.20	1	0.60				
PCC-10-2	2,500	CAC007GBAM	42 x 40 x 42	539	99,041	205,446	93.0	79.0	56.8	56.6	404	0.81	44.0	55.9	34.5	7.7	6	9	2	1-1/2	19 / 7.6	FLAT PANEL	MERV 8	2	0.20	1	0.60				
PCC-10-3	2,500	CAC007GBAM	42 x 40 x 42	539	99,041	205,446	93.0	79.0	56.8	56.6	404	0.81	44.0	55.9	34.5	7.7	6	9	2	1-1/2	19 / 7.6	FLAT PANEL	MERV 8	2	0.20	1	0.60				
PCC-10-4	2,500	CAC007GBAM	42 x 40 x 42	539	99,041	205,446	93.0	79.0	56.8	56.6	404	0.81	44.0	55.9	34.5	7.7	6	9	2	1-1/2	19 / 7.6	FLAT PANEL	MERV 8	2	0.20	1	0.60				
PCC-11-1	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-11-2	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-11-3	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-11-4	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-12-1	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-12-2	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10	2	1-1/2	19 / 3.9	FLAT PANEL	MERV 8	2	0.15	1	0.57				
PCC-12-3	2,000	CAC006GBAC	42 x 52 x 30	477	72,408	147,745	93.0	79.0	59.9	59.4	352	0.47	44.0	56.0	24.6	6.6	4	10</													

DIRECT DRIVE HORIZONTAL FAN COIL UNIT SCHEDULE

GENERAL														ELECTRIC HEAT										CHILLED WATER COIL										FILTER		WEIGHT					
MARK	MANUFACTURER	MODEL	UNIT SIZE	FAN SPEED	AIRFLOW CFM	OA CFM	EXT. S.P. IN. W.G.	MOTOR SPEED RPM	MOTOR (QTY) HP	V/PH/Hz	FAN AMPS	WATTS	NUMBER FANS	EAT FDB	LAT FDB	AIR PRESS. DROP IN. W.G.	KW	VOLTAGE	STEPS NO./KW EA.	HEATING AMPS	ELECTRIC HEAT CONFIGURATION	EAT FDB	EAT FWB	LAT FDB	LAT FWB	SENSIBLE CAPACITY BTU/HR	TOTAL CAPACITY BTU/HR	EW F	LWT F	FLUID FLOW GPM	FLUID PD FT. W.G.	AIR P.D. IN. W.G.	MIN. ROWS	MAX. FPI	PIPE SIZE (IN.)		CONTROL VALVE SIZE (IN.)	CONTROL VALVE Cv & P.D. (Cv / FT.)	TYPE	THICKNESS IN.	
FCU-2	Enviro-Tec	HPP	10	High	750	150	0.28	1,075	(1) 1/4	277/1/60	2	450	1	63.6	84.9	0.02	5	277/1/60	1 / 5	18.05	PRE HEAT / DRAW THRU	78.1	65.7	53.4	53.0	20,520	28,630	44.0	56.1	4.7	2.23	0.23	6	10	1	1/2	3 / 5.7	MERV 8	1	164	
FCU-4	Enviro-Tec	HPP	12	Low	900	200	0.35	2 @ 1,075	(2) 1/8	277/1/60	2	480	2	63.1	84.2	0.01	6	277/1/60	2 / 3	21.66	PRE HEAT / DRAW THRU	78.6	66.7	55.0	53.9	23,640	35,440	44.0	56.0	5.9	7.87	0.17	4	10	1	3/4	4.7 / 3.6	MERV 8	1	191	
FCU-5	Enviro-Tec	HPP	10	High	750	150	0.28	1,075	(1) 1/4	277/1/60	2	450	1	63.6	84.9	0.02	5	277/1/60	1 / 5	18.05	PRE HEAT / DRAW THRU	78.1	65.7	53.4	53.0	20,520	28,630	44.0	56.1	4.7	2.23	0.23	6	10	1	1/2	3 / 5.7	MERV 8	1	164	
FCU-6	Enviro-Tec	HPP	12	Low	900	200	0.35	2 @ 1,075	(2) 1/8	277/1/60	2	480	2	63.1	84.2	0.01	6	277/1/60	2 / 3	21.66	PRE HEAT / DRAW THRU	78.6	66.7	55.0	53.9	23,640	35,440	44.0	56.0	5.9	7.87	0.17	4	10	1	3/4	4.7 / 3.6	MERV 8	1	191	
FCU-7	Enviro-Tec	HPP	12	Low	900	200	0.35	2 @ 1,075	(2) 1/8	277/1/60	2	480	2	63.1	84.2	0.01	6	277/1/60	2 / 3	21.66	PRE HEAT / DRAW THRU	78.6	66.7	55.0	53.9	23,640	35,440	44.0	56.0	5.9	7.87	0.17	4	10	1	3/4	4.7 / 3.6	MERV 8	1	191	
FCU-8	Enviro-Tec	HPP	12	Low	900	200	0.44	2 @ 1,075	(2) 1/8	277/1/60	2	480	2	63.6	83.6	0.01	5	277/1/60	2 / 2.5	18.05	PRE HEAT / DRAW THRU	79.5	67.7	55.4	54.5	21,510	33,070	44.0	55.9	5.5	3.82	0.14	4	10	1	1/2	3 / 7.8	MERV 8	1	144	
FCU-9	Enviro-Tec	HPP	12	Low	900	200	0.35	2 @ 1,075	(2) 1/8	277/1/60	2	480	2	63.1	84.2	0.01	6	277/1/60	2 / 3	21.66	PRE HEAT / DRAW THRU	78.6	66.7	55.0	53.9	23,640	35,440	44.0	56.0	5.9	7.87	0.17	4	10	1	3/4	4.7 / 3.6	MERV 8	1	191	
FCU-10	Enviro-Tec	HPP	12	Low	900	200	0.44	2 @ 1,075	(2) 1/8	277/1/60	2	480	2	63.6	83.6	0.01	5	277/1/60	2 / 2.5	18.05	PRE HEAT / DRAW THRU	79.5	67.7	55.4	54.5	21,510	33,070	44.0	55.9	5.5	3.82	0.14	4	10	1	1/2	3 / 7.8	MERV 8	1	144	
FCU-11	Enviro-Tec	HPP	12	Low	900	200	0.35	2 @ 1,075	(2) 1/8	277/1/60	2	480	2	63.1	84.2	0.01	6	277/1/60	2 / 3	21.66	PRE HEAT / DRAW THRU	78.6	66.7	55.0	53.9	23,640	35,440	44.0	56.0	5.9	7.87	0.17	4	10	1	3/4	4.7 / 3.6	MERV 8	1	191	
FCU-12	Enviro-Tec	HPP	12	Low	900	200	0.35	2 @ 1,075	(2) 1/8	277/1/60	2	480	2	63.1	84.2	0.01	6	277/1/60	2 / 3	21.66	PRE HEAT / DRAW THRU	78.6	66.7	55.0	53.9	23,640	35,440	44.0	56.0	5.9	7.87	0.17	4	10	1	3/4	4.7 / 3.6	MERV 8	1	191	
FCU-18-1	Enviro-Tec	HPP	20	High	1,500	300	0.53	2 @ 1,075	(2) 1/4	277/1/60	4	900	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	78.6	66.8	55.7	54.5	36,160	57,030	44.0	56.0	9.4	6.5	0.17	4	10	1-1/4	3/4	7.4 / 3.7	MERV 8	1	243
FCU-18-2	Enviro-Tec	HPP	8	High	550	150	0.37	1,000	(1) 1/4	277/1/60	1.3	383	1	61.6	84.6	0.01	4	277/1/60	1 / 4	14.44	PRE HEAT / DRAW THRU	80.2	68.1	56.0	55.1	14,830	22,630	44.0	56.0	3.6	3.64	0.14	4	10	3/4	1/2	3 / 3.7	MERV 8	1	150	

NOTES:

- BASIS OF DESIGN IS ENVIRO-TEC MODEL HPP.
- PROVIDED GALVANIZED STEEL CONSTRUCTION.
- PROVIDE 1/2" THICK INTERNAL FOIL FACED FIBERGLASS INSULATION, 1.4 PCF DENSITY MEETING NFPA 90A AND UL 181, MECHANICALLY FASTENED.
- PROVIDE IAQ STAINLESS STEEL DRAIN PAN WITH EXTERNAL INSULATION AND STAINLESS STEEL CHILLED WATER COIL CASINGS
- PROVIDE AN INTEGRAL FILTER RACK WITH TWO (2) SETS OF MERV 8 PLEATED FILTERS
- PROVIDE A FORWARD CURVED, DWDI CENTRIFUGAL TYPE 3 SPEED PSC MOTOR.
- PROVIDE A UNIT START/STOP RELAY, FAN OPERATING RELAY & 277V/24V TRANSFORMER.
- PROVIDE A CONDENSATE OVERFLOW SWITCH IN DRAIN PAN.
- PROVIDE A FUSED DOOR INTERLOCKING DISCONNECT SWITCH (SINGLE POINT POWER) FAN COIL SHALL BE ETL LISTED.
- PROVIDE A MANUFACTURER'S STANDARD FIRST YEAR PARTS ONLY WARRANTY FROM DATE OF EQUIPMENT START-UP NOT TO EXCEED EIGHTEEN (18) MONTHS FROM DATE OF SHIPMENT, WHICHEVER OCCURS FIRST
- CHILLED WATER CONTROL VALVES ARE 2-WAY CHARACTERIZED CONTROL VALVES BY BELIMO OR APPROVED EQUAL

BELT DRIVE VERTICAL BLOWER COIL UNIT SCHEDULE

GENERAL															CHILLED WATER COIL															ELECTRIC HEAT															FILTER		WEIGHT
MARK	MANUFACTURER	MODEL	UNIT SIZE	AIRFLOW (CFM)	OA (CFM)	MAX. FACE VELOCITY (FPM)	TSP (IN.)	ESP (IN.)	MOTOR RPM	MOTOR BHP	MOTOR HP	VOLTAGE	FAN AMPS	WATTS	EAT FDB	EAT FWB	LAT FDB	LAT FWB	SENSIBLE CAPACITY	TOTAL CAPACITY	EW F	LWT F	WATER FLOW (GPM)	WATER P.D. (FT)	AIR P.D. (IN. W.G.)	MIN. ROWS	MAX FPI	PIPE SIZE (IN.)	CONTROL VALVE SIZE (IN.)	CV & P.D. (Cv / FT.)	EAT FDB	LAT FDB	AIR P.D. (IN. W.G.)	KW	VOLTAGE	STEPS	HEATING AMPS	CONFIGURATION	TYPE	THICKNESS (IN.)							
FCU-1-1	ENVIRO-TEC	VB	25	2,500	300	440	1.40	0.75	816	1.08	1 1/2	460/3/60	2.5	942	72.5	61.6	56.3	54.7	46,480	54,510	44.0	56.1	9	2.44	0.30	4	12	1-1/4	1	7.4 / 3.4	66.1	85.8	0.02	15	460/3/60	2	18.83	REHEAT/BLOW THRU	MERV 8	1	424						
FCU-3-1	ENVIRO-TEC	VR	25	2,700	300	475	1.62	0.95	878	1.44	1 1/2	460/5/60	2.5	1,256	76.7	64.6	56.6	55.0	59,990	78,610	44.0	56.0	13.1	4.38	0.38	4	12	1-1/4	1	7.4 / 7.2	66.6	84.2	0.02	15	460/3/60	2	18.83	REHEAT/BLOW THRU	MERV 8	1	424						

NOTES:

- BASIS OF DESIGN IS ENVIRO-TEC MODELS VB AND VR.
- PROVIDED GALVANIZED STEEL 18 GAUGE CONSTRUCTION.
- PROVIDE 1" THICK INTERNAL FOIL FACED FIBERGLASS INSULATION, 1.6 PCF DENSITY MEETING NFPA 90A AND UL 181, MECHANICALLY FASTENED.
- PROVIDE IAQ STAINLESS STEEL DRAIN PAN WITH EXTERNAL INSULATION AND STAINLESS STEEL COIL CASINGS.
- PROVIDE AN INTEGRAL FRONT ACCESS FILTER RACK WITH TWO (2) SETS OF MERV 8 PLEATED FILTERS.
- PROVIDE A FORWARD CURVED, DWDI CENTRIFUGAL TYPE FAN.
- PROVIDE A STARTER, MOTOR FUSING, ELECTRIC HEATER FUSING AND 460V/24V 75VA TRANSFORMER.
- PROVIDE A CONDENSATE OVERFLOW SWITCH IN DRAIN PAN.
- PROVIDE A NON-FUSED DOOR INTERLOCKING DISCONNECT SWITCH (SINGLE POINT POWER). BLOWER COIL SHALL BE ETL LISTED.
- PROVIDE A MANUFACTURER'S STANDARD FIRST YEAR PARTS ONLY WARRANTY FROM DATE OF EQUIPMENT START-UP NOT TO EXCEED EIGHTEEN (18) MONTHS FROM DATE OF SHIPMENT, WHICHEVER OCCURS FIRST
- PROVIDE FCU-1-1 WITH BOTTOM RETURN AIR INLET.
- PROVIDE FCU-3-1 WITH REAR RETURN AIR INLET.
- CHILLED WATER CONTROL VALVES ARE 2-WAY CHARACTERIZED CONTROL VALVES BY BELIMO OR APPROVED EQUAL

DIRECT DRIVE VERTICAL FAN COIL UNIT SCHEDULE

GENERAL														CHILLED WATER COIL										ELECTRIC HEAT										FILTER		WEIGHT				
MARK	MANUFACTURER	MODEL	UNIT SIZE	FAN SPEED	AIRFLOW (CFM)	OA (CFM)	ESP (IN.)	MOTOR RPM	MOTOR (QTY) HP	VOLTAGE	FAN AMPS	WATTS	NO. FANS	EAT FDB	EAT FWB	LAT FDB	LAT FWB	SENSIBLE CAPACITY	TOTAL CAPACITY	EW F	LWT F	WATER FLOW (GPM)	WATER P.D. (FT)	AIR P.D. (IN. W.G.)	MIN. ROWS	MAX. FPI	PIPE SIZE (IN.)	CONTROL VALVE SIZE (IN.)	CONTROL VALVE Cv & P.D. (Cv / F.T.)	EAT FDB	LAT FDB	AIR P.D. (IN. W.G.)	KW	VOLTAGE	STEPS		HEATING AMPS	CONFIGURATION	TYPE	THICKNESS (IN.)
FCU-1-2	ENVIRO-TEC	CDVB	10	MEDIUM	800	50	0.52	1,051	(1) 1/4	277/1/60	1.9	526	1	73.6	61.7	56.3	54.0	15,250	17,920	44	56	3.0	6.33	0.11	3	10	3/4	1/2	1.9 / 5.8	65.9	89.0	0.02	3.5	277/1/60	1	12.64	REHEAT/BLOW THRU	MERV 8	1	138
FCU-3-2	ENVIRO-TEC	CDVB	4	LOW	350	50	0.5	1,107	(1) 1/8	277/1/60	0.9	249	1	77.4	64.4	54.3	53.5	8,920	11,330	44	56	1.8	2.65	0.15	4	12	3/4	1/2	1.2 / 3.8	65.7	97.3	0.01	3.5	277/1/60	1	12.64	REHEAT/BLOW THRU	MERV 8	1	106

NOTES:

- BASIS OF DESIGN ENVIRO-TEC MODEL CDVB.
- PROVIDED GALVANIZED STEEL CONSTRUCTION.
- PROVIDE 1/2" THICK INTERNAL FOIL FACED FIBERGLASS INSULATION, 1.4 PCF DENSITY MEETING NFPA 90A AND UL 181, MECHANICALLY FASTENED.
- PROVIDE IAQ STAINLESS STEEL DRAIN PAN WITH EXTERNAL INSULATION AND STAINLESS STEEL COIL CASINGS.
- PROVIDE AN INTEGRAL FILTER RACK WITH TWO (2) SETS OF MERV 8 PLEATED FILTERS.
- PROVIDE A FORWARD CURVED, DWDI CENTRIFUGAL TYPE FAN AND 3 SPEED PSC MOTOR.
- PROVIDE A UNIT START/STOP RELAY, FAN OPERATING RELAY & 277V/24V TRANSFORMER.
- PROVIDE A CONDENSATE OVERFLOW SWITCH IN DRAIN PAN.
- PROVIDE A NON-FUSED DOOR INTERLOCKING DISCONNECT SWITCH (SINGLE POINT POWER). FAN COIL SHALL BE ETL LISTED..
- PROVIDE A MANUFACTURER'S STANDARD FIRST YEAR PARTS ONLY WARRANTY FROM DATE OF EQUIPMENT START-UP NOT TO EXCEED EIGHTEEN (18) MONTHS FROM DATE OF SHIPMENT, WHICHEVER OCCURS FIRST.
- PROVIDE WITH BOTTOM RETURN AIR INLET.
- CHILLED WATER CONTROL VALVES ARE 2-WAY CHARACTERIZED CONTROL VALVES BY BELIMO OR APPROVED EQUAL

RECORD DRAWING - 11/16/2017

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

DATE: 11-16-17

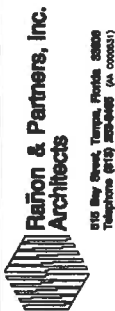
REVIEWED:

DESIGNED BY:

CHECKED BY:



FALKENBURG ROAD JAIL EXPANSION - PHASE VIA
CENTRAL ENERGY AND GENERATOR BUILDING
Tampa, Florida
CIP No. 170149



SHEET NUMBER
MO.5

VARIABLE FREQUENCY DRIVE SCHEDULE

MARK	SERVING	MANUFACTURER	MODEL	H.P.	APPROX VFD SETTING (Hz)	VOLTS/PH/Hz	3 CONTACTOR BY-PASS	FUSED DISCONNECT	DIMENSIONS HxWxD (in)	CONFIGURATION	WEIGHT (LBS)	NOTES
VFD-1-1	AHU-1-1	EXISTING TO REMAN		10.0	55.71	460/3/60	N/A	N/A	N/A	N/A	N/A	N/A
VFD-1-2	AHU-1-2	EXISTING TO REMAN		10.0	55.71	460/3/60	N/A	N/A	N/A	N/A	N/A	N/A
VFD-1-3	AHU-1-3	EXISTING TO REMAN		10.0	55.71	460/3/60	N/A	N/A	N/A	N/A	N/A	N/A
VFD-1-4	AHU-1-4	EXISTING TO REMAN		10.0	55.37	460/3/60	N/A	N/A	N/A	N/A	N/A	N/A
VFD-2-1	AHU-2-1	DANFOSS	VL-T-HVAC	7.5	63.79	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-2-2	AHU-2-2	DANFOSS	VL-T-HVAC	7.5	63.79	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-2-3	AHU-2-3	DANFOSS	VL-T-HVAC	7.5	63.85	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-2-4	AHU-2-4	DANFOSS	VL-T-HVAC	7.5	63.85	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-3-1	AHU-3-1	DANFOSS	VL-T-HVAC	10.0	53.56	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-3-2	AHU-3-2	DANFOSS	VL-T-HVAC	10.0	53.56	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-3-3	AHU-3-3	DANFOSS	VL-T-HVAC	10.0	53.56	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-3-4	AHU-3-4	DANFOSS	VL-T-HVAC	10.0	52.58	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-4-1	AHU-4-1	DANFOSS	VL-T-HVAC	10.0	64.88	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-4-2	AHU-4-2	DANFOSS	VL-T-HVAC	10.0	64.34	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-4-3	AHU-4-3	DANFOSS	VL-T-HVAC	10.0	64.91	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-4-4	AHU-4-4	DANFOSS	VL-T-HVAC	10.0	65.12	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-5-1	AHU-5-1	DANFOSS	VL-T-HVAC	7.5	63.79	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-5-2	AHU-5-2	DANFOSS	VL-T-HVAC	7.5	63.79	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-5-3	AHU-5-3	DANFOSS	VL-T-HVAC	7.5	63.85	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-5-4	AHU-5-4	DANFOSS	VL-T-HVAC	7.5	63.85	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-6-1	AHU-6-1	DANFOSS	VL-T-HVAC	10.0	64.88	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-6-2	AHU-6-2	DANFOSS	VL-T-HVAC	10.0	64.34	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-6-3	AHU-6-3	DANFOSS	VL-T-HVAC	10.0	64.91	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-6-4	AHU-6-4	DANFOSS	VL-T-HVAC	10.0	65.12	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-7-1	AHU-7-1	DANFOSS	VL-T-HVAC	10.0	64.88	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-7-2	AHU-7-2	DANFOSS	VL-T-HVAC	10.0	64.34	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-7-3	AHU-7-3	DANFOSS	VL-T-HVAC	10.0	64.91	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-7-4	AHU-7-4	DANFOSS	VL-T-HVAC	10.0	65.12	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-8-1	AHU-8-1	DANFOSS	VL-T-HVAC	7.5	61.39	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-8-2	AHU-8-2	DANFOSS	VL-T-HVAC	7.5	62.31	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-8-3	AHU-8-3	DANFOSS	VL-T-HVAC	7.5	60.09	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-8-4	AHU-8-4	DANFOSS	VL-T-HVAC	7.5	60.09	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-9-1	AHU-9-1	DANFOSS	VL-T-HVAC	10.0	64.88	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-9-2	AHU-9-2	DANFOSS	VL-T-HVAC	10.0	64.34	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-9-3	AHU-9-3	DANFOSS	VL-T-HVAC	10.0	64.91	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-9-4	AHU-9-4	DANFOSS	VL-T-HVAC	10.0	65.12	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-10-1	AHU-10-1	DANFOSS	VL-T-HVAC	7.5	61.39	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-10-2	AHU-10-2	DANFOSS	VL-T-HVAC	7.5	62.31	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-10-3	AHU-10-3	DANFOSS	VL-T-HVAC	7.5	60.09	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-10-4	AHU-10-4	DANFOSS	VL-T-HVAC	7.5	60.09	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-11-1	AHU-11-1	DANFOSS	VL-T-HVAC	10.0	64.88	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-11-2	AHU-11-2	DANFOSS	VL-T-HVAC	10.0	64.34	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-11-3	AHU-11-3	DANFOSS	VL-T-HVAC	10.0	64.91	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-11-4	AHU-11-4	DANFOSS	VL-T-HVAC	10.0	65.12	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-12-1	AHU-12-1	DANFOSS	VL-T-HVAC	10.0	64.88	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-12-2	AHU-12-2	DANFOSS	VL-T-HVAC	10.0	64.34	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-12-3	AHU-12-3	DANFOSS	VL-T-HVAC	10.0	64.91	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-12-4	AHU-12-4	DANFOSS	VL-T-HVAC	10.0	65.12	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-13-1	AHU-13-1	DANFOSS	VL-T-HVAC	20.0	62.59	460/3/60	YES	YES	41.8 x 9.1 x 16	VERTICAL	84.0	1 - 12
VFD-14-1	AHU-14-1	DANFOSS	VL-T-HVAC	3.0	TBD	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-14-2	AHU-14-2	DANFOSS	VL-T-HVAC	5.0	TBD	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-14-3	AHU-14-3	DANFOSS	VL-T-HVAC	3.0	TBD	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-14-4	AHU-14-4	DANFOSS	VL-T-HVAC	7.5	58.08	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-14-5	AHU-14-5	DANFOSS	VL-T-HVAC	7.5	57.54	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-14-6	AHU-14-6	DANFOSS	VL-T-HVAC	3.0	TBD	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-14-7	AHU-14-7	DANFOSS	VL-T-HVAC	5.0	TBD	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-15-1	AHU-15-1	DANFOSS	VL-T-HVAC	3.0	78.93	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-15-2	AHU-15-2	DANFOSS	VL-T-HVAC	20.0	52.99	460/3/60	YES	YES	41.8 x 9.1 x 16	VERTICAL	84.0	1 - 12
VFD-16-1	AHU-16-1	DANFOSS	VL-T-HVAC	7.5	63.34	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-16-2	AHU-16-2	DANFOSS	VL-T-HVAC	7.5	58.38	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-16-3	AHU-16-3	DANFOSS	VL-T-HVAC	7.5	63.70	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-16-4	AHU-16-4	DANFOSS	VL-T-HVAC	7.5	63.16	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-17-1	AHU-17-1	DANFOSS	VL-T-HVAC	10.0	57.78	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-17-2	AHU-17-2	DANFOSS	VL-T-HVAC	10.0	59.51	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-21-1	AHU-21-1	DANFOSS	VL-T-HVAC	7.5	60.36	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-22-1	AHU-22-1	DANFOSS	VL-T-HVAC	7.5	60.84	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-22-2	AHU-22-2	DANFOSS	VL-T-HVAC	5.0	66.68	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-22-3	AHU-22-3	DANFOSS	VL-T-HVAC	3.0	82.27	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-22-4	AHU-22-4	EXISTING TO REMAN		5.0	77.09	460/3/60	N/A	N/A	N/A	VERTICAL	N/A	N/A
VFD-22-5	AHU-22-5	DANFOSS	VL-T-HVAC	15.0	64.33	460/3/60	YES	YES	41.8 x 9.1 x 16	VERTICAL	84.0	1 - 12
VFD-22-6	AHU-22-6	DANFOSS	VL-T-HVAC	15.0	54.23	460/3/60	YES	YES	41.8 x 9.1 x 16	VERTICAL	84.0	1 - 12
VFD-23-1	AHU-23-1	DANFOSS	VL-T-HVAC	5.0	63.00	460/3/60	YES	YES	31.74 x 7.63 x 8.27	VERTICAL	35.0	1 - 12
VFD-CT-1	CT-1	DANFOSS	VL-T-HVAC	100	TBD	460/3/60	YES	YES	59.6 x 15.1 x 18.0	VERTICAL	350.0	1 - 12
VFD-CT-2	CT-2	DANFOSS	VL-T-HVAC	100	TBD	460/3/60	YES	YES	59.6 x 15.1 x 18.0	VERTICAL	350.0	1 - 12
VFD-P-1	P-1	DANFOSS	VL-T-HVAC	100	TBD	460/3/60	YES	YES	59.6 x 15.1 x 18.0	SIDE BY SIDE	450.0	1 - 12
VFD-P-2	P-2	DANFOSS	VL-T-HVAC	100	TBD	460/3/60	YES	YES	59.6 x 15.1 x 18.0	SIDE BY SIDE	450.0	1 - 12
VFD-P-3	P-3	DANFOSS	VL-T-HVAC	75	TBD	460						

CHILLED WATER ZONE PUMPS SCHEDULE

PUMP DESIGNATION		ZP-1	ZP-2	ZP-3	ZP-4	ZP-5	ZP-6	ZP-7	ZP-8	ZP-9
LOCATION	BUILDING	1 / MECH	2 / MECH	3 / MECH	4 / MECH	5 / MECH	6 / MECH	7 / MECH	8 / MECH	9 / MECH
MANUFACTURER	NAME	TACO	TACO	TACO	TACO	TACO	TACO	TACO	TACO	TACO
MODEL	NO.									
SERVICE	TYPE	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER
PUMP TYPE	CENTRIFUGAL	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE
CAPACITY	GPM	350	190	550	375	180	210	170	210	210
TOTAL DYNAMIC HEAD	FT. W.G.	48	45	78	63	47	53	53	53	53
PUMP MOTOR	HP	7-1/2	5	20	10	5	7-1/2	7-1/2	5	7-1/2
ELECTRICAL SERVICE	V / PH / Hz	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60
PUMP SPEED	RPM	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
SHAFT SEAL	TYPE	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
IMPELLER DIAMETER	INCHES	7.875	7.25	10.625	8.625	7.375	7.875	7.875	7.875	7.875
MINIMUM PUMP EFFICIENCY	%	70.33	67.09	67.56	71.91	67.51	69.41	69.41	67.06	69.41

PUMP DESIGNATION		ZP-10	ZP-11	ZP-12	ZP-13	ZP-16	ZP-17	ZP-22-1	ZP-22-2	
LOCATION	BUILDING	10 / MECH	11 / MECH	12 / MECH	13 / MECH	16 / MECH	17 / MECH	22 / MECH	22 / MECH	
MANUFACTURER	NAME	TACO	TACO	TACO	TACO	TACO	TACO	TACO	TACO	
MODEL	NO.									
SERVICE	TYPE	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	CHILLED WATER	
PUMP TYPE	CENTRIFUGAL	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE	IN-LINE	
CAPACITY	GPM	170	210	210	115	260	175	110	155	
TOTAL DYNAMIC HEAD	FT. W.G.	53	53	53	43	60	46	52	40	
PUMP MOTOR	HP	5	7-1/2	7-1/2	3	7-1/2	5	5	3	
ELECTRICAL SERVICE	V / PH / Hz	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	
PUMP SPEED	RPM	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	
SHAFT SEAL	TYPE	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	
IMPELLER DIAMETER	INCHES	7.625	7.875	7.875	7.0	8.5	7.25	7.625	6.75	
MINIMUM PUMP EFFICIENCY	%	67.06	69.41	69.41	68.98	70.87	66.61	68.87	72.07	

NOTES:

1. BASIS OF DESIGN IS BELL & GOSSETT SERIES 80 IN-LINE.
2. PROVIDE BUNA-CARBON/CERAMIC SEAL.
3. PROVIDE PREMIUM EFFICIENCY ODP VFD DUTY TYPE MOTORS WITH SHAFT GROUNDING RING ON EACH MOTOR.
4. EACH PUMP SHALL BE CONTROLLED BY A VARIABLE FREQUENCY DRIVE.

SPLIT SYSTEM A/C UNIT SCHEDULE

INDOOR UNIT		
DESIGNATION	MARK	AC-1
AREA SERVED	BLDG NO. / ROOM	9/903a MAT. STORAGE
MANUFACTURER	NAME	FRIEDRICH
MINI SPLIT SYSTEM MODEL	NO.	M09C1H
MODEL	NO.	MW09C1H / WALL
TOTAL AIR QUANTITY	CFM	217/253/294/329
OUTSIDE AIR QUANTITY	CFM	-
AIR ENTERING COOLING COIL	FDB / FWB	80 / 67
AIR LEAVING COOLING COIL	FDB / FWB	55 / 54
SENSIBLE COOLING CAPACITY	BTUH	-
TOTAL COOLING CAPACITY	BTUH	9,000
ROWS & FINS PER INCH	NO. / NO.	-
EVAPORATOR TEMPERATURE	F	-
WEIGHT	LBS.	24

AIR COOLED CONDENSING UNIT		
DESIGNATION	MARK	CJ-1
MANUFACTURER	NAME	FRIEDRICH
MODEL	NO.	M09C1H
REFRIGERANT	TYPE	R-410A
COOLING CAPACITY	BTUH	9,000
AMBIENT AIR TEMPERATURE	F	95
SUCTION TEMPERATURE	F	45
COMPRESSOR	NO. / RLA EACH	-
UNLOADING	STEP / MIN.	-
CONDENSER FANS	NO. / RLA EACH	-
ELECTRICAL SERVICE	V / # / 60Hz	115 / 1
MINIMUM CIRCUIT AMPACITY	AMPS	15
MAXIMUM FUSE SIZE	AMPS	25
UNIT EER	SEER	22.0
SUCTION CONNECTION	SIZE - IN.	3/8
LIQUID CONNECTION	SIZE - IN.	1/4
UNIT WEIGHT	LBS	80

NOTES:

1. DUCTLESS SPLIT SYSTEMS HAVE SINGLE POINT ELECTRICAL CONNECTION AT CONDENSING UNIT.
2. REFRIGERANT PIPE SIZING TO BE CONFIRMED BY MANUFACTURER'S REPRESENTATIVE.

ELECTRIC DUCT HEATER SCHEDULE

DESIGNATION		EDH-4-1A	EDH-4-1B	EDH-4-2A	EDH-4-2B	EDH-4-3A	EDH-4-3B	EDH-4-4A	EDH-4-4B	EDH-14-1	EDH-14-2	EDH-14-3	EDH-14-4
LOCATION	BUILDING	4	4	4	4	4	4	4	4	14	14	14	14
DUCT SIZE	INCHES	42 X 24	24 X 20	42 X 24	24 X 20	44 X 20	26 X 20	44 X 20	26 X 20	14 X 12.25	22 X 20.25	14 X 12.25	-
AIR QUANTITY - MAX.	CFM	5,625	3,450	5,625	3,450	5,200	3,450	5,200	3,450	4,300	2,700	2,500	7,500
ELECTRIC HEATER	KW	38	24	38	24	35	24	35	24	18	30	18	36
STEPS	NO.	1	1	1	1	1	1	1	1	1	1	1	1
ELECTRICAL SERVICE	V / PH / Hz	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60

DESIGNATION		EDH-14-5	EDH-14-7	EDH-16-1A	EDH-16-1B	EDH-16-1C	EDH-16-1D	EDH-16-2A	EDH-16-2B	EDH-16-2C	EDH-16-2D	EDH-16-3A	EDH-16-3B
LOCATION	BUILDING	14	14	16	16	16	16	16	16	16	16	16	16
DUCT SIZE	INCHES	-	20 X 16.75	22 X 16	20 X 12	20 X 16	20 X 16	22 X 16	20 X 12	20 X 16	20 X 16	22 X 20	18 X 14
AIR QUANTITY - MAX.	CFM	7,500	4,200	1,650	2,250	2,750	1,650	2,250	1,950	1,800	2,100	2,700	1,850
ELECTRIC HEATER	KW	50	28	15	18	20	15	18	16	15	18	26	18
STEPS	NO.	1	1	1	1	1	1	1	1	1	1	1	1
ELECTRICAL SERVICE	V / PH / Hz	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60

DESIGNATION		EDH-16-3C	EDH-16-3D	EDH-16-4A	EDH-16-4B	EDH-16-4C	EDH-16-4D	EDH-17-1A	EDH-17-1B	EDH-17-2A	EDH-17-2B	EDH-21	
LOCATION	BUILDING	16	16	16	16	16	16	17	17	17	17	21	
DUCT SIZE	INCHES	18 X 14	16 X 28	22 X 20	18 X 14	18 X 14	16 X 28	44 X 18	38 X 18	44 X 18	38 X 18	60 X 18	
AIR QUANTITY - MAX.	CFM	1,850	2,700	2,700	1,850	1,750	2,700	4,650	5,350	4,850	5,550	6,700	
ELECTRIC HEATER	KW	18	28	26	18	18	26	44	50	44	52	35	
STEPS	NO.	1	1	1	1	1	1	1	1	1	1	1	
ELECTRICAL SERVICE	V / PH / Hz	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	

NOTES:

1. ELECTRIC HEATER SHALL BE BEL THERMAL UNITS INC., MODEL MRS.
2. PROVIDE AUTOMATIC RESET THERMAL CUT OUT TO INTERRUPT CURRENT FLOW TO THE ELEMENTS FOR SECONDARY OVER TEMPERATURE PROTECTION.
3. PROVIDE AIRFLOW DEVICE TO ENSURE INTERLOCK BETWEEN THE HEATER AND THE SUPPLY FAN.
4. PROVIDE SCR CONTROL.
5. ELECTRIC HEATERS EDH-14-1, EDH-14-2, EDH-14-3, EDH-14-5 AND EDH-14-7 ARE OVER THE BLOWER TYPE. COORDINATE SIZE WITH AIR HANDLING UNIT DISCHARGE OPENING SIZE.
6. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
7. PROVIDE SCR CONTROL.
8. TYPICAL ELECTRIC DUCT HEATERS ARE AS FOLLOWS:
EDH-4-1A: EDH-6-1A, EDH-7-1A, EDH-9-1A, EDH-11-1A AND EDH-12-1A
EDH-4-1B: EDH-6-1B, EDH-7-1B, EDH-9-1B, EDH-11-1B AND EDH-12-1B
EDH-4-2A: EDH-6-2A, EDH-7-2A, EDH-9-2A, EDH-11-2A AND EDH-12-2A
EDH-4-2B: EDH-6-2B, EDH-7-2B, EDH-9-2B, EDH-11-2B AND EDH-12-2B
EDH-4-3A: EDH-6-3A, EDH-7-3A, EDH-9-3A, EDH-11-3A AND EDH-12-3A
EDH-4-3B: EDH-6-3B, EDH-7-3B, EDH-9-3B, EDH-11-3B AND EDH-12-3B
EDH-4-4A: EDH-6-4A, EDH-7-4A, EDH-9-4A, EDH-11-4A AND EDH-12-4A
EDH-4-4B: EDH-6-4B, EDH-7-4B, EDH-9-4B, EDH-11-4B AND EDH-12-4B
9. SEE FLOOR PLANS FOR ORIENTATION OF HEATERS AND CONTROL PANEL LOCATIONS.
10. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) 12"x12" ACCESS DOORS IN DUCT AT EACH ELECTRIC DUCT HEATER, ONE ON EACH SIDE OF HEATER.

RECORD DRAWING - 11/16/2017

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

DATE: 11-16-17
REVIEWED: BW
DRAWN BY: BW
CHECKED BY: FO



FALKENBURG ROAD JAIL EXPANSION - PHASE VIIA
CENTRAL ENERGY AND GENERATOR BUILDING
Tampa, Florida
CP No.: 79148

Raon & Partners, Inc.
Architects
616 Bay Street, Tampa, Florida 33606
Telephone (813) 288-6665 (in central)

SHEET NUMBER
M0.6

AIR HANDLING UNITS SCHEDULE

MARK	DAIKIN McQUAY MODEL	CONFIGURATION	L x W x H (IN)	WEIGHT (LB)	TOTAL AIR (CFM)	OUTDOOR AIR (CFM)	TYPE	CONSTRUCTION	QTY	CLASS	SUPPLY FAN					HP	MOTOR STARTER/CONTROL	APPROX VFD SETTING (Hz)	CHILLED WATER COIL																		FILTER					
											RPM	BHP	E.S.P. (IN.H ₂ O)	T.S.P. (IN.H ₂ O)	V/PH/Hz				SENSIBLE CAPACITY (BTU/HR)	TOTAL CAPACITY (BTU/HR)	ENT. AIR TEMP (°F)	ENT. AIR TEMP (°F)	LEA. AIR TEMP (°F)	LEA. AIR TEMP (°F)	FACE VELOCITY (FPM)	AIR P.D. (IN. H ₂ O)	ENT. (F)	LWT (F)	FLOW RATE (GPM)	WATER P.D. (IN. H ₂ O)	MIN. ROWS	MAX. FPM	PIPE SIZE (IN.)	CONTROL VALVE SIZE (IN.)	CONTROL VALVE Cv & P.D. (Cv / FT.)	FILTER RACK GEOMETRY	TYPE	DEPTH (IN)	CLEAN PD (IN. H ₂ O)	DIRTY PD (IN. H ₂ O)	MEAN PD (IN. H ₂ O)	
AHU-1-1	CAH021GDCG	HORIZONTAL	92 x 82 x 58	2,300	10,500	4,150	DDPL24-12BL	ALUMINUM	1	2	1,625	7.34	1.25	2.46	460/3/60	10	1,750	VFD	55.71	119,408	144,562	67.0	59.9	56.6	55.1	522	0.44	44.0	55.9	24.1	2.6	4	9	2	1-1/2	19 / 3.8	FLAT PANEL	MERV 8	2	0.31	1	0.65
AHU-1-2	CAH021GDCG	HORIZONTAL	92 x 82 x 58	2,300	10,500	4,150	DDPL24-12BL	ALUMINUM	1	2	1,625	7.34	1.25	2.46	460/3/60	10	1,750	VFD	55.71	119,408	144,562	67.0	59.9	56.6	55.1	522	0.44	44.0	55.9	24.1	2.6	4	9	2	1-1/2	19 / 3.8	FLAT PANEL	MERV 8	2	0.31	1	0.65
AHU-1-3	CAH021GDCG	HORIZONTAL	92 x 82 x 58	2,322	10,500	4,150	DDPL24-12BL	ALUMINUM	1	2	1,625	7.34	1.25	2.46	460/3/60	10	1,750	VFD	55.71	119,408	144,562	67.0	59.8	56.6	55.0	522	0.44	44.0	55.8	24.2	2.6	4	9	2	1-1/2	19 / 3.8	FLAT PANEL	MERV 8	2	0.31	1	0.65
AHU-1-4	CAH021GDCG	HORIZONTAL	92 x 82 x 58	2,300	10,500	4,150	DDPL24-12BL	ALUMINUM	1	2	1,625	7.34	1.25	2.46	460/3/60	10	1,750	VFD	55.37	119,408	143,281	67.0	59.8	56.6	55.0	522	0.44	44.0	55.8	24.2	2.6	4	9	2	1-1/2	19 / 3.8	FLAT PANEL	MERV 8	2	0.31	1	0.65
AHU-2-1	CAH021GDCG	HORIZONTAL	88 x 82 x 58	2,146	9,000	1,900	DDPL22-12BL	ALUMINUM	1	2	1,860	6.59	1.25	2.40	460/3/60	7.5	1,750	VFD	63.79	133,907	156,430	71.2	61.8	57.4	55.8	442	0.44	44.0	55.9	26.4	2.4	3	10	2	1-1/2	19 / 4.5	FLAT PANEL	MERV 8	2	0.25	1	0.62
AHU-2-2	CAH021GDCG	HORIZONTAL	88 x 82 x 58	2,146	9,000	1,900	DDPL22-12BL	ALUMINUM	1	2	1,860	6.59	1.25	2.40	460/3/60	7.5	1,750	VFD	63.79	134,388	159,345	71.3	62.0	57.5	55.9	442	0.44	44.0	55.8	26.9	2.5	3	10	2	1-1/2	19 / 4.6	FLAT PANEL	MERV 8	2	0.25	1	0.62
AHU-2-3	CAH017GDCG	HORIZONTAL	88 x 80 x 52	1,960	8,800	2,000	DDPL22-12BL	ALUMINUM	1	2	1,862	6.77	1.25	2.63	460/3/60	7.5	1,750	VFD	63.85	129,359	152,556	71.0	61.9	57.4	56.0	519	0.61	44.0	55.8	25.8	3.8	3	11	2	1-1/2	19 / 4.3	FLAT PANEL	MERV 8	2	0.31	1	0.66
AHU-2-4	CAH017GDCG	HORIZONTAL	88 x 80 x 52	1,960	8,800	2,000	DDPL22-12BL	ALUMINUM	1	2	1,862	6.77	1.25	2.63	460/3/60	7.5	1,750	VFD	63.85	132,022	155,444	71.3	62.0	57.4	56.0	519	0.61	44.0	55.8	26.3	3.9	3	11	2	1-1/2	19 / 4.4	FLAT PANEL	MERV 8	2	0.31	1	0.66
AHU-3-1	CAH025GDCG	HORIZONTAL	92 x 86 x 66	2,523	11,600	5,000	DDPL24-12BL	ALUMINUM	1	2	1,760	9.10	1.25	2.67	460/3/60	10	1,750	VFD	53.56	96,676	103,372	65.9	58.9	58.1	55.8	477	0.40	44.0	56.1	16.9	0.9	3	8	1-1/2	1	10 / 7.2	FLAT PANEL	MERV 8	2	0.28	1	0.64
AHU-3-2	CAH025GDCG	HORIZONTAL	92 x 86 x 66	2,523	11,600	5,000	DDPL24-12BL	ALUMINUM	1	2	1,760	9.10	1.25	2.67	460/3/60	10	1,750	VFD	53.56	97,894	102,290	65.9	58.9	58.2	55.8	477	0.40	44.0	56.1	16.9	0.9	3	8	1-1/2	1	10 / 6.6	FLAT PANEL	MERV 8	2	0.28	1	0.64
AHU-3-3	CAH025GDCG	HORIZONTAL	92 x 86 x 66	2,523	11,600	5,000	DDPL24-12BL	ALUMINUM	1	2	1,760	9.10	1.25	2.67	460/3/60	10	1,750	VFD	53.56	97,363	102,137	65.8	58.9	58.1	55.8	477	0.40	44.0	56.1	16.9	0.9	3	8	1-1/2	1	10 / 6.6	FLAT PANEL	MERV 8	2	0.28	1	0.64
AHU-3-4	CAH025GDCG	HORIZONTAL	92 x 86 x 66	2,543	11,600	5,000	DDPL24-12BL	ALUMINUM	1	2	1,747	8.82	1.25	2.55	460/3/60	10	1,750	VFD	52.58	97,286	102,219	65.9	58.9	58.2	55.8	477	0.28	44.0	56.1	16.9	0.9	3	10	1-1/2	1	10 / 6.6	FLAT PANEL	MERV 8	2	0.28	1	0.64
AHU-4-1	CAH021GDCG	HORIZONTAL	88 x 82 x 58	2,140	9,000	2,000	DDPL22-12BL	ALUMINUM	1	2	1,892	7.05	1.50	2.65	460/3/60	10	1,750	VFD	64.88	135,920	166,718	71.5	62.4	57.5	56.1	442	0.44	44.0	55.7	28.5	2.8	3	10	2	1-1/2	19 / 5.2	FLAT PANEL	MERV 8	2	0.25	1	0.62
AHU-4-2	CAH021GDCG	HORIZONTAL	88 x 82 x 58	2,141	8,900	2,000	DDPL22-12BL	ALUMINUM	1	2	1,876	6.89	1.50	2.63	460/3/60	10	1,750	VFD	64.34	134,169	164,225	71.5	62.4	57.6	56.1	437	0.43	44.0	55.8	27.9	2.7	3	10	2	1-1/2	19 / 5.0	FLAT PANEL	MERV 8	2	0.24	1	0.62
AHU-4-3	CAH017GDCG	HORIZONTAL	88 x 80 x 52	1,964	8,800	2,000	DDPL22-12BL	ALUMINUM	1	2	1,893	7.22	1.50	2.68	460/3/60	10	1,750	VFD	64.91	133,033	161,587	71.5	62.4	57.5	56.2	519	0.61	44.0	55.7	27.6	4.3	3	11	2	1-1/2	19 / 4.9	FLAT PANEL	MERV 8	2	0.31	1	0.66
AHU-4-4	CAH017GDCG	HORIZONTAL	88 x 80 x 52	2,007	8,800	2,000	DDPL22-12BL	ALUMINUM	1	2	1,899	7.31	1.50	2.93	460/3/60	10	1,750	VFD	65.12	137,215	170,369	71.4	62.2	57.0	55.6	519	0.66	44.0	56.0	28.4	5.5	4	8	2	1-1/2	19 / 5.2	FLAT PANEL	MERV 8	2	0.31	1	0.66
AHU-5-1	CAH021GDCG	HORIZONTAL	88 x 82 x 58	2,146	9,000	1,900	DDPL22-12BL	ALUMINUM	1	2	1,860	6.59	1.25	2.40	460/3/60	7.5	1,750	VFD	63.79	133,907	156,430	71.2	61.8	57.4	55.8	442	0.44	44.0	55.9	26.4	2.4	3	10	2	1-1/2	19 / 4.5	FLAT PANEL	MERV 8	2	0.25	1	0.62
AHU-5-2	CAH021GDCG	HORIZONTAL	88 x 82 x 58	2,146	9,000	1,900	DDPL22-12BL	ALUMINUM	1	2	1,860	6.59	1.25	2.40	460/3/60	7.5	1,750	VFD	63.79	134,388	159,345	71.3	62.0	57.5	55.9	442	0.44	44.0	55.8	26.9	2.5	3	10	2	1-1/2	19 / 4.6	FLAT PANEL	MERV 8	2	0.25	1	0.62
AHU-5-3	CAH017GDCG	HORIZONTAL	88 x 80 x 52	1,960	8,800	2,000	DDPL22-12BL	ALUMINUM	1	2	1,862	6.77	1.25	2.63	460/3/60	7.5	1,750	VFD	63.85	129,359	152,556	71.0	61.9	57.4	56.0	519	0.61	44.0	55.8	25.8	3.8	3	11	2	1-1/2	19 / 4.3	FLAT PANEL	MERV 8	2	0.31	1	0.66
AHU-5-4	CAH017GDCG	HORIZONTAL	88 x 80 x 52	1,960	8,800	2,000	DDPL22-12BL	ALUMINUM	1	2	1,862	6.77	1.25	2.63	460/3/60	7.5	1,750	VFD	63.85	132,022	155,444	71.3	62.0	57.4	56.0	519	0.61	44.0	55.8	26.3	3.9	3	11	2	1-1/2	19 / 4.4	FLAT PANEL	MERV 8	2	0.31	1	0.66
AHU-6-1	CAH021GDCG	HORIZONTAL	88 x 82 x 58	2,140	9,000	2,000	DDPL22-12BL	ALUMINUM	1	2	1,892	7.05	1.50	2.65	460/3/60	10	1,750	VFD	64.88	135,920	166,718	71.5	62.4	57.5	56.1	442	0.44	44.0	55.7	28.5	2.8	3	10	2	1-1/2	19 / 5.2	FLAT PANEL	MERV 8	2	0.25	1	