

## AIR HANDLING UNIT SCHEDULE

TAG	LOCATION	SERVICE	BASIS OF DESIGN		SUPPLY FAN				RETURN FAN		ENERGY RECOVERY		DX COOLING COIL							ELECTRIC HEATING COIL			REHEAT COIL		
			MANUFACTURER	MODEL	SA (CFM)	HP (EA)	OA (CFM)	ESP (IN WG)	RA (CFM)	ESP (IN WG)	TYPE	SUMMER LAT DB/WB	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB	LAT DB/WB	EER	CONDENSER ROWS	FPI	TOTAL CAPACITY (MBH)	EAT DB	LAT	TYPE	MRC (LB/HR)	LAT DB/WB
AHU - 1	ON GRADE	CADET BARRACK	TRANE	NOTE 15	2400	1.5	400	2.00	2000	1.50	-	-	133.1	87.7	77.8/64.8	44.7/44.7	11.1	2	14	51.0	71	91	HOT GAS	41.38	77/58.6
AHU - 2	ON GRADE	LATRINE	TRANE	NOTE 15	4400	5.0	4400	2.00	3850	1.50	TOTAL ENTHALPY	79.3/66.3	264.4	161.6	79.3/66.3	44.4/44.2	15.3	3	12	82.0	65	82	HOT GAS	185.61	64.4/53.31
AHU - 3	ON GRADE	CADET BARRACK	TRANE	NOTE 15	4800	4.0	800	2.00	4000	1.50	-	-	261.6	172.8	77.8/64.8	45.2/45.2	9.1	2	14	82.0	71	87	HOT GAS	80.17	62.8/53.2

## AIR HANDLING UNIT SCHEDULE (CONT.)

TAG	AIR COOLED CONDENSER					ELECTRICAL DATA			NOTES
	FANS			COMPRESSORS		RPM	BHP	V/PH/Hz	
	QTY.	HP (EA)	FLA (EA)	QTY.	RLA (EA)				
AHU - 1	2	1.00	4.20	2	20	1757	1.25	208/3/60	1, 2, 3, 4, 5, 6, 7, 8, 11, 12,13, 15, 16
AHU - 2	3	1.00	4.20	2	48	1231	1.39	208/3/60	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12,14, 15, 16
AHU - 3	3	1.00	4.20	2	48	1718	4.4	208/3/60	1, 2, 3, 4, 5, 6, 7, 8, 11, 12,13, 15, 16

NOTES:

- NOTES:
1. COORDINATE DUCT ROUTING AND CONNECTIONS WITH FIELD CONDITIONS.
  2. PROVIDE AMCA CLASS 1 LOW LEAKAGE DAMPERS, EACH WITH A DEDICATED/INDEPENDENT MOTORIZED DAMPER ACTUATOR(S).
  3. PROVIDE MANUFACTURER'S FACTORY APPLIED COATING ON EQUIPMENT CASING AND COILS.
  4. PROVIDE DEDICATED EQUIPMENT CONTROLLER, SOURCE CODE PROGRAMMING, GRAPHICS, AND INTEGRATION AS NECESSARY FOR EACH UNIT.
  5. COORDINATE INPUT/OUTPUT SIGNALS BETWEEN EQUIPMENT AND FIELD CONTROL DEVICES.
  6. PROVIDE ACCESSORIES AND APPURTENANCES FOR INSTALLING UNITS.
  7. PROVIDE SINGLE POINT POWER CONNECTION WITH FACTORY MOUNTED AND WIRED NON-FUSED DISCONNECT SWITCH NEMA 4X RATED SUITABLE FOR OUTSIDE USE.
  8. PROVIDE PACKAGED, VARIABLE VOLUME AIR HANDLING UNIT, WITH DIRECT EXPANSION COOLING, ELECTRIC HEATING, MIXING BOX, AND ECONOMIZER CONTROL.
  9. PROVIDE PACKAGED, VARIABLE VOLUME DEDICATED OUTSIDE AIR HANDLING UNIT, WITH DIRECT EXPANSION COOLING, ELECTRIC PREHEAT, HOT GAS REHEAT, ELECTRIC BACK-UP HEAT, AND TOTAL ENTHALPY RECOVERY WHEEL.
  10. PROVIDE TOTAL ENTHALPY ENERGY RECOVERY WHEEL WITH ALUMINUM FRAME CONSTRUCTION AND VARIABLE SPEED ROTATION CONTROL.
  11. PROVIDE MERV 8 PRE-FILTER, MERV 13 FINAL FILTER.
  12. PROVIDE 36" CURB WITH SUPPLY AND RETURN DUCT PENETRATIONS.
  13. COIL ENTERING AIR TEMPERATURES ARE MIXED AIR TEMPERATURES. OUTSIDE AIR COOLING DESIGN TEMPERATURE OF 92°F DB/75°F WB AND HEATING DESIGN OF 50°F.
  14. COIL ENTERING AIR TEMPERATURES ARE AFTER ENERGY RECOVERY WHEEL. OUTSIDE AIR COOLING DESIGN TEMPERATURE OF 92°F DB/75°F WB AND HEATING DESIGN OF 50°F.
  15. THE MANUFACTURER LISTED IS THE BASIS OF DESIGN. ALTERNATIVE UNITS SHALL BE APPROVED BY THE GOVERNMENT, HOWEVER, MODIFICATIONS OF THE DESIGN DOCUMENTS TO FIT AN ALTERNATIVE UNIT AND COORDINATION OF DUCTWORK AND ASSOCIATED ELECTRICAL AND CIVIL UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE BASIS OF DESIGN MODEL NUMBERS ARE AS FOLLOWS: AHU-1 IS MODEL OADG012C1-DAB10JC00-C1AE00000-11D00002C-A00C03AA00-AA1B010AA-00AE00000; AHU-2 IS MODEL OAKD300A3-D1B400JN-D3C00AAG6JL1B52E3B0C0; AHU-3 IS MODEL OAGD300A3-C1B400CC-D3E00AG9002001E3C1A0.
  16. LAT OFF THE COOLING COIL SHALL NOT EXCEED 50°F.

## DUCTWORK INSULATION SCHEDULE

SERVICE	INSULATION TYPE	INSULATION THICKNESS (IN)	LOCATION	JACKET	NOTES
SUPPLY AIR - INDOOR	FLEXIBLE ELASTOMERIC	2"	CONCEALED	ALL SERVICE JACKET	
SUPPLY AIR - INDOOR	FLEXIBLE ELASTOMERIC	2"	CONCEALED	PVC JACKET	
SUPPLY AIR - OUTDOOR	FLEXIBLE ELASTOMERIC	2.5"	EXPOSED	PVC OR ALUMINUM JACKET	
RETURN AIR - OUTDOOR	FLEXIBLE ELASTOMERIC	1"	ALL	PVC OR ALUMINUM JACKET	
EXHAUST AIR - OUTDOOR	FLEXIBLE ELASTOMERIC	1"	ALL	PVC OR ALUMINUM JACKET	

## AIR DEVICE SCHEDULE

TAG	SERVICE	BASIS OF DESIGN		MAX AIRFLOW (CFM)	MODULE SIZE (IN)	NECK SIZE (IN)	NO. OF SLOTS	SLOT WIDTH (IN)	BORDER TYPE	PATTERN	NOTES
		MANUFACTURER	MODEL								
EG - 1	EXHAUST	PRICE	PDR	700 CFM	24 x 24	22 x 10	-	-	CEILING MOUNTED PLASTER RING	PERFORATED	1, 2, 3, 4, 5
EG - 2	EXHAUST	PRICE	PDR	300 CFM	12 x 12	10 x 10	-	-	CEILING MOUNTED PLASTER RING	PERFORATED	1, 2, 3, 4, 5
RG - 1	OUTDOOR AIR	GREENHECK	ECD-401	900 CFM	VARIES	-	-	-	DUCT MOUNTED	45 DEFLECTION	2, 5, 7
SG - 1	SUPPLY	PRICE	540S	130 CFM	8 x 6	8 x 6	-	-	SIDEWALL	45 DEFLECTION	1, 2, 3, 4, 5, 6
SG - 2	SUPPLY	PRICE	RSD	175 CFM	24 x 24	8"	-	-	CEILING MOUNTED PLASTER RING	SWIRL	1, 2, 3, 4, 5
SG - 3	SUPPLY	PRICE	540S	155 CFM	8 x 8	8 x 8	-	-	SIDEWALL	45 DEFLECTION	1, 2, 3, 4, 5
SG - 4	SUPPLY	PRICE	TBD2	250 CFM	48x6	8"	2	1-1/2	CEILING MOUNTED PLASTER RING	1-WAY	1, 2, 3, 4, 5

NOTES:

- NOTES:
1. COORDINATE FRAME STYLE AND TYPE WITH CEILING TYPE.
  2. PROVIDE MANUFACTURER'S MOUNTING HARDWARE AND FRAME.
  3. PROVIDE ALUMINUM AIR DEVICE.
  4. MOUNT RACK & PINION CONTROLLER ON DIFFUSER FOR CABLE OPERATED DAMPER.
  5. THE MANUFACTURER LISTED IS THE BASIS OF DESIGN. ALTERNATIVE AIR DEVICES SHALL BE APPROVED BY THE GOVERNMENT.
  6. PROVIDE INTEGRAL FACE DAMPER.
  7. PROVIDE LOUVER WITH OPERABLE BLADES.

## AIR-COOLED CONDENSING UNIT SCHEDULE

MARK	SERVING	BASIS OF DESIGN		AIRFLOW RATE (CFM)	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	CONDENSER						NOTES	
		MANUFACTURER	MODEL				AMB TEMP °F	REFRIGERANT	COMPRESSORS			CONDENSER FANS		
									QTY	RLA (EA)	MCA	QTY		FLA (EA)
ACCU-1	UTILITY ROOM	DAIKIN	RXL09QMVJU	1105	9000	10900.0	95.0	R-410A	1	8.5	9.5	1	0.2	1, 2, 3

NOTES:

- NOTES:
1. PROVIDE UNIT DISCONNECT.
  2. PROVIDE WITH PRE-CHARGED REFRIGERANT LINE SET AND THERMOSTAT.
  3. THE MANUFACTURER LISTED IS THE BASIS OF DESIGN. ALTERNATIVE UNITS SHALL BE APPROVED BY THE GOVERNMENT, HOWEVER, MODIFICATIONS OF THE DESIGN DOCUMENTS TO FIT AN ALTERNATIVE UNIT AND COORDINATION OF ASSOCIATED ELECTRICAL, TELECOM, AND FIRE PROTECTION UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

## AIR-CONDITIONER SCHEDULE

MARK	SERVING	BASIS OF DESIGN		COOLING CAPACITY						HEATING CAPACITY				ELECTRICAL DATA				WEIGHT (LBS)	NOTES
		MANUFACTURER	MODEL	REFRIGERANT	CFM	TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/H)	EAT DB/WB	LAT DB/WB	TYPE	TOTAL CAPACITY (BTU/H)	EAT DB	LAT DB	V	PH	Hz	FLA		
AC-1	UTILITY ROOM	DAIKIN	FTX09NMVJU	R-410A	417	9000.0	8170	95/75	80/67	HEAT PUMP	10900.0	47	70	208	1	60	0.20	18.00	1, 2

## NOTES:

- NOTES:
1. PROVIDE UNIT DISCONNECT.
  2. THE MANUFACTURER LISTED IS THE BASIS OF DESIGN. ALTERNATIVE UNITS SHALL BE APPROVED BY THE GOVERNMENT, HOWEVER, MODIFICATIONS OF THE DESIGN DOCUMENTS TO FIT AN ALTERNATIVE UNIT AND COORDINATION OF ASSOCIATED ELECTRICAL, TELECOM, AND FIRE PROTECTION UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

## DEHUMIDIFIER SCHEDULE

MARK	SERVING	BASIS OF DESIGN		LBS/HR	ELECTRICAL DATA			DIMENSIONS (L x W x H)	WEIGHT (LBS)	NOTES
		MANUFACTURER	MODEL		V	Ph	Hz			
DH-1	ARMORY	FRIGIDAIRE	FFAP7033T1	3	115	1	60	12 x 15 x 24	54	1, 2, 3

NOTES:

1. PROVIDE DRAINAGE PIPE FROM INTEGRATED CONDENSATE PUMP TO GRADE.
2. PROVIDE INTEGRATED HUMIDITY CONTROLS WITH RELATIVE HUMIDITY SETPOINT AND AUTOMATIC SHUTOFF.
3. THE MANUFACTURER LISTED IS THE BASIS OF DESIGN. ALTERNATIVE UNITS SHALL BE APPROVED BY THE GOVERNMENT.



**US Army Corps  
of Engineers ®**

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<b>JACOBS' / EWING COLE</b>	US ARMY CORPS OF ENGINEERS		DESIGNED BY: DL	ISSUE DATE: DECEMBER 15, 2020
			DRAWN BY: AH	SOLICITATION NO.:
			CHECKED BY: DS	CONTRACT NO.: W91ZDS-19-D-0010
			SUBMITTED BY:	
			DATE:	

WEST POINT, NY  
REVITALIZATION OF CAMP BUCKNER

## HVAC SCHEDULE

**SHEET ID**

M-601