cot	pyright 2023	Hite associ	IR D	IST	R	IBUTION SCHEDULE
MARK	FACE SIZE	NECK SIZE	MFR/MODEL	CFM/FPM	NC	REMARKS
Α	24"x24"	12"x12"/12"ø	PRICE/AMD	500/500	<30	LAY-IN CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
В	24"x24"	9"×9"/10"ø	PRICE/AMD	275/500	<25	LAY-IN CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
B2	24"x24"	9"×9"/10"ø	PRICE/AMD	275/500	<25	SURFACE MOUNTED CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
BG	24"x24"	9"×9"/10"ø	PRICE/AMD	275/500	<25	SURFACE MOUNTED CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION. PROVIDE WITH INTEGRAL DAMPER.
С	24"x24"	6"x6"/8"ø	PRICE/AMD	125/500	<20	LAY-IN CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
D	18"×18"	15 <b>"</b> x15"	PRICE/AMD	500/400	<20	DUCT MOUNTED DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
Ε	10"x8"	8"x6"/8"ø	PRICE/620DAL	175/700	<30	SIDEWALL REGISTER WITH DOUBLE DEFLECTION, INTEGRAL DAMPER, AND 3/4" BLADE SPACING; ALUMINUM CONSTRUCTION
F	16"x8"	14"x6"/10"ø	PRICE/620DAL	300/700	<30	SIDEWALL REGISTER WITH DOUBLE DEFLECTION, INTEGRAL DAMPER, AND 3/4" BLADE SPACING; ALUMINUM CONSTRUCTION
G	16"x8"	14"x6"/10"ø	PRICE/620DAL	300/700	<30	DUCT MOUNTED REGISTER WITH DOUBLE DEFLECTION, INTEGRAL DAMPER, AND 3/4" BLADE SPACING; ALUMINUM CONSTRUCTION
S	8"x18"	6"x15"	PRICE/AHCD1D	300/500	<20	DUCT MOUNTED DRUM LOUVER WITH OPPOSED BLADE DAMPER AND POLE OPERATOR; ALUMINUM CONSTRUCTION
Т	8"x27"	6"x24"	PRICE/AHCD1D	500/500	<25	DUCT MOUNTED DRUM LOUVER WITH OPPOSED BLADE DAMPER AND POLE OPERATOR; ALUMINUM CONSTRUCTION
R1	24"x24"	12"x12"	PRICE/80TB	550/650	<20	LAY-IN EGG CRATE FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION
R1G	24"x24"	12"x12"	PRICE/80DAL	550/650	<20	SURFACE MOUNTED EGG CRATE FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION. PROVIDE WITH INTEGRAL DAMPER.
R2	24"x24"	22"×22"	PRICE/80TB	2000/700	<20	LAY-IN EGG CRATE FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION
R2G	24"x24"	22"x22"	PRICE/80DAL	2000/700	<20	SURFACE MOUNTED EGG CRATE FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION. PROVIDE WITH INTEGRAL DAMPER.
R3	10"x8"	8"x6"	PRICE/80DAL	200/800	<20	DUCT MOUNTED EGG CRATE FACE REGISTER WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION. PROVIDE WITH INTEGRAL DAMPER.
R4	16"x10"	14"x8"	PRICE/80DAL	450/700	<20	DUCT MOUNTED EGG CRATE FACE REGISTER WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION. PROVIDE WITH INTEGRAL DAMPER.
R5	16"x12"	14"×10"	PRICE/80DAL	600/800	<20	DUCT MOUNTED EGG CRATE FACE REGISTER WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION. PROVIDE WITH INTEGRAL DAMPER.
R6	20"x16"	18"x14"	PRICE/80DAL	1000/700	<20	DUCT MOUNTED EGG CRATE FACE REGISTER WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION. PROVIDE WITH INTEGRAL DAMPER.

NOTES:

(1) ALL FINISHES TO BE WHITE EXCEPT WHERE NOTED.

(2) KRUEGER, METAL\*AIRE, TUTTLE & BAILEY, TITUS & CARNES ARE CONSIDERED EQUIVALENTS.

(3) PROVIDE SQUARE TO ROUND TRANSITIONS WHERE REQUIRED.

(4) PROVIDE WHITE FINISH FASTENERS AS REQUIRED.

(5) PROVIDE MANUFACTURER'S LEVER OPERATED GRILLE MOUNTED DAMPER FOR ALL SUPPLY GRILLES/DIFFUSERS
THAT ARE INDICATED TO BE PROVIDED WITH INTEGRAL DAMPER.

(6) PROVIDE 2" FOIL FACED INSULATION OVER ALL SUPPLY REGISTER BACKS.

26"x22" 24"x20"

8) VALUES LISTED ARE MAXIMUM VALUES.

OPTIONAL STEEL FRAME.

(9) PROVIDE INSECT SCREEN FOR TYPE "XS".

7) M.C. SHALL PROVIDE RADIATION DAMPERS WHERE REQUIRED.

CONTRACTOR TO PROVIDE AND INSTALL RADIATION DAMPER AND THERMAL BLANKET. PROVIDE RETURN GRILLES WITH

				EXH	AUST FAN V	ENTILATOR SCHEDULE	
MARK	CFM	RPM	S.P.	ELECTRICAL	CONTROLS	MODEL NO./DESCRIPTION	NOTES
EF-A	100	1,053	0.250	115V / 0.18A	LOCAL OCCUPANCY SENSOR	GREENHECK NO. SP-A125 PREMIUM CEILING EXHAUST FAN	1,2,3,7
EF-B	150	708	0.250	115V / 0.46A	THERMOSTAT	GREENHECK NO. SP-A200 PREMIUM CEILING EXHAUST FAN	1,2,3,7
EF-C	200	836	0.250	115V / 0.46A	LOCAL SWITCH	GREENHECK NO. SP-A200 PREMIUM CEILING EXHAUST FAN	1,2,3,7
EF-D	250	999	0.250	115V / 0.56A	LOCAL SWITCH	GREENHECK NO. SP-A250 PREMIUM CEILING EXHAUST FAN	1,2,4,7
EF-E	300	907	0.250	115V / 1.7A	BMS	GREENHECK NO. SP-A410 PREMIUM CEILING EXHAUST FAN	1,2,4,7
EF-F	350	998	0.250	115V / 1.7A	BMS	GREENHECK NO. SP-A410 PREMIUM CEILING EXHAUST FAN	1,2,4,7
EF-G	350	777	0.250	115V / 4.9A	24/7 CONTINUOUS	GREENHECK NO. CSP-A710 DIRECT DRIVE INLINE EXHAUST FAN	1,2,4,7,8
EF-H	1,500	1,515	0.250	115V / 8.4A	LOCAL EMERGENCY SWITCH	GREENHECK NO. CSP-A1550 DIRECT DRIVE INLINE EXHAUST FAN	1,2,4,7
EF-I	150	1,298	0.250	115V / 1.3A	BMS	GREENHECK NO. CUE-070-VG DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	1,2,7
EF-J	200	1,384	0.250	115V / 1.3A	BMS	GREENHECK NO. CUE-070-VG DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	1,2,7
EF-K	250	1,504	0.250	115V / 1.3A	BMS	GREENHECK NO. CUE-070-VG DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	1,2,7
EF-L	250	1,504	0.250	115V / 1.3A	LOCAL SWITCH	GREENHECK NO. CUE-070-VG DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	1,2,7
EF-M	275	1,566	0.250	115V / 1.3A	BMS	GREENHECK NO. CUE-070-VG DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	1,2,7
EF-N	300	1,643	0.250	115V / 1.3A	BMS	GREENHECK NO. CUE-070-VG DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	1,2,7
EF-0	350	1,092	0.250	115V / 1.5A	BMS	GREENHECK NO. CUE-090-VG DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	1,2,7
EF-P	375	1,118	0.250	115V / 1.5A	-	GREENHECK NO. CUE-090-VG DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	1,2,7
EF-Q	1,600	1,158	0.250	115V / 10.3A	INTERLOCKED WITH HOOD	GREENHECK NO. CSP-A1750 DIRECT DRIVE INLINE EXHAUST FAN	1,2,5,7

NOTES:

(1) MODEL NUMBERS NOTED ARE GREENHECK EQUIPMENT, UNLESS OTHERWISE NOTED. EXHAUST FANS MEETING OR EXCEEDING PERFORMANCE DATA MANUFACTURED BY COOK OR CARNES ARE ACCEPTABLE SUBSTITUTES. ALL FANS SHALL HAVE UL LISTED LABELS AND OPTIONAL MOTOR COVERS.

(2) FURNISH AND INSTALL MRY'S SPEED CONTROLLER OR EQUIVALENT & ALL ACCESSORIES INDICATED ON DETAILS

(3) FURNISH AND INSTALL 10"x3" HOODED WALL CAP WITH INTEGRAL FLASHING, BDD, AND BIRD SCREEN, GREENHECK MODEL NO. WC OR EQUIVALENT.

(4) FURNISH AND INSTALL 18"x8" HOODED WALL CAP WITH INTEGRAL FLASHING, BDD, AND BIRD SCREEN, GREENHECK MODEL NO. WC OR EQUIVALENT.

(5) SEE LOUVER SCHEDULE.

(6) PROVIDE MANUFACTURER'S WALL MOUNT HOUSING W/ OSHA APPROVED MOTOR GUARD, INSTALLATION COLLAR, AND BDD

(7) SEE INSTALLATION DETAIL; SEE ALSO CONTROL SEQUENCE IN SPECIFICATIONS

(8) CHEMISTRY STORAGE AND PREP ROOM FAN SHALL OPERATE 24/7 CONTINUOUSLY.

(9) EF-Q SHALL BE ORIENTED SUCH THAT AIR IS SUPPLIED TO THE MAKE-UP AIR GRILLES ON FOODS

 NOTES

 1,2,3,7

 1,2,3,7

 1,2,3,7

 RTU-3

 1,2,4,7

 1,2,4,7

 1,2,4,7

 1,2,4,7

 VSU-1

 1,2,4,7

 VSU-2

 1,2,4,7

 VSU-3

 T FAN
 1,2,7

 VSU-8
 VSU-12

ABDREVIATIONS:
BDD: BACK DRAFT DAMPER
DPST: DOUBLE POLE SINGLE THROW SWITCH BY E.C.
CFM: AIR FLOW (cu ft/min)
NC: NOISE CRITERIA (sones)
EMS: ENERGY MANAGMENT SYSTEM

## ROOFTOP DOAS EQUIPMENT SCHEDULE EQUIPMENT MODEL AIRFLOW/FAN DATA ELECTRICAL DATA HEATING DATA EER NOTES WEIGHT ZONE CFM O.A. ESP TCL SC MODEL NUMBER VOLT/PH MCA MOCP HEATING INPUT HEATING OUTPUT FUEL 1,600 | 1,050 | 0.5 | 98.5 | 57.6 | TRANE OABD108A4 1,472 LBS 460V/3PH 20.7 NATURAL GAS 3,100 1,350 0.5 155.1 97.7 TRANE OADG012C3 3,102 LBS 460V/3PH 30.0 35 120.0 NATURAL GAS 2,650 1,375 0.5 153.7 91.7 TRANE OADG012C3 3,110 LBS 460V/3PH 29.4 35 150.0 120.0 NATURAL GAS 3,920 2,500 0.5 341.8 179.2 TRANE OAKD360E4 460V/3PH 63.3 80 3,635 LBS NATURAL GAS 240.0 4,430 4,430 0.5 394.8 204.3 TRANE OAND420E4 460V/3PH 65.4 80 5,369 LBS 350.0 280.0 NATURAL GAS 3,007 LBS 1,435 | 1,435 | 0.5 | 128.0 | 66.9 | TRANE OADGO10A3 120.0 NATURAL GAS 460V/3PH 24.9 30 1,535 | 1,535 | 0.5 | 131.2 | 69.0 | TRANE OADGO10A3 3,007 LBS 460V/3PH | 24.9 | 30 | 150.0 120.0 NATURAL GAS 3,062 LBS 2,185 2,185 0.5 192.5 100.5 TRANE OADG015A3 460V/3PH 34.8 45 NATURAL GAS 160.0 1,885 | 1,885 | 0.5 | 181.9 | 94.0 | TRANE OADGO15A3 3,059 LBS 460V/3PH 34.8 45 150.0 120.0 NATURAL GAS 2,770 | 2,770 | 0.5 | 244.5 | 127.4 | TRANE OADGO20A3 | 460V/3PH | 40.7 | 50 | 250.0 3,287 LBS 200.0 NATURAL GAS 13.8 3,325 3,325 0.5 283.4 149.6 TRANE OAKD264E4 460V/3PH 46.3 60 250.0 200.0 NATURAL GAS 3,491 LBS 6,000 6,000 0.5 547.6 286.1 TRANE OAND600E4 460V/3PH 97.1 5,867 LBS 110 400.0 NATURAL GAS

150.0

120.0

1) TOTAL COOLING LOAD, SENSIBLE COOLING LOAD, AND HEATING LOAD UNITS ARE MBtuh.

COOLING LOADS INCLUDES VENTILATION, HEAT FAN, & PLENUM HEAT GAIN DURING

NON-SIMULTANEOUS PEAK OPERATION W/O INCLUSION OF ZONE DIVERSITY.

2) SEE ALSO EQUIPMENT INSTALLATION DETAILS FOR ACCESSORIES, OPTIONS, ETC.

3) PROVIDE UNIT MFR'S CONDENSER COIL GUARD (METAL GRILLE W/PVC COATING).

4) HEATING LOAD UNITS ARE MBtuh. EXTERIOR DESIGN CONDITIONS: WINTER DRY BULB = 18^F, SUMMER DRY BULB = 95 ^F, SUMMER WET BULB = 75 ^F

5) CONTRACTOR RESPONSIBLE FOR LEFT OR RIGHT HAND MOTOR/BLOWER ASS'Y SELECTION

6) PROVIDE UNIT WITH DEMAND CONTROLLED VENTILATION AND MOTORIZED OUTSIDE AIR DAMPER.

7) PROVIDE UNITS WITH EQUAL STAGES OF HEATING AND COOLING. (EX: 15 TON = 7.5 TON x 2)

8) PROVIDE UNIT WITH POWERED CONVENIENCE OUTLET.

9) PROVIDE UNIT WITH BACNET CARD FOR CONNECTING TO VRV CONTROLLER.

10) PROVIDE UNIT WITH MODULATING HOT GAS REHEAT.

ABBREVIATIONS: SYS = SYSTEM

TCL = TOTAL COOLING LOAD (MBtuH)

SC = SENSIBLE COOLING (MBtuH)

HEAT= HEAT LOAD (MBtuH)

AUX= ELECTRIC HEAT STRIP (kW)

HP= MAXIMUM MOTOR HORSEPOWER

RLA = RATED LOAD AMPS

FLA = FAN MOTOR FULL LOAD AMPS

MCA = MINIMUM CKT CAPACITY

n/a = NOT APPLICABLE

STAGE= # OF HEAT STRIP STAGES

NATURAL GAS 14.4

3,058 LBS

D)	X CONDENS	ING/F	HEAT PUMP B	EQUIPMENT SCHEDULE
_	AIRFLOW/FAN DATA	HEATING COIL	EQUIPMENT MODEL NO.	ELECTRICAL DATA

				AIRFLOV	V/FAN [	DATA		HEATIN	G COIL	EQUIPMENT MO	EQUIPMENT MODEL NO.						ELECTR	RICAL DA	TA				
SYS	ZONE	CFM	O.A.	ESP	TCL	SC	EATdb	HEAT	GPM	OUTDOOR	INDOOR	OUTDOOR	MCA	MOCP	WEIGHT	INDOOR	MCA	моср	AUX	STAGE	EER	NOTES	WEIGHT
CU-2/AHU-2	15 TON	6000	1500	0.5	180.0	126.0	_	285.0	20.0	TRANE TTA18043D	TRANE TWE18043B	208V/3PH	65.0	80	705 LBS	208V/3PH	13.0	20	-	ı	11.2		900 LBS
HP-2/AHU-2	7.5 TON	3000	750	0.5	90.0	63.0	_	_	-	TRANE TWA09044D	TRANE TWE09044B	460V/3PH	15.0	20	421 LBS	460V/3PH	42.0	45	24.92 KW	2	11.2		380 LBS
CU-1/AHU-1	5 TON	2000	-	0.5	60.0	42.0	_	_	-	TRANE 4TWA4060A4000A	TRANE GAM5B0C60	460V/3PH	9.0	15	274 LBS	208V/3PH	46.0	50	10.8 KW	1	15 SEER		170 LBS
CU-3/AHU-3	3.5 TON	1400	-	0.5	42.0	29.4	_	_	-	TRANE 4TWA4042A4000A	TRANE GAM5B0C42	460V/3PH	8.0	15	208 LBS	208V/3PH	42.0	45	10.8 KW	1	15 SEER		153 LBS

1) TOTAL COOLING LOAD, SENSIBLE COOLING LOAD, AND HEATING LOAD UNITS ARE MBtuh.

COOLING LOADS INCLUDES VENTILATION, HEAT FAN, & PLENUM HEAT GAIN DURING

NON-SIMULTANEOUS PEAK OPERATION W/O INCLUSION OF ZONE DIVERSITY.

2) SEE ALSO EQUIPMENT INSTALLATION DETAILS FOR ACCESSORIES, OPTIONS, ETC.

PRICE/80DAL 1800/600 <20 DUCT MOUNTED EGG CRATE FACE REGISTER WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION. PROVIDE WITH INTEGRAL DAMPER.

3) PROVIDE UNIT MFR'S CONDENSER COIL GUARD (METAL GRILLE W/PVC COATING).
4) HEATING LOAD UNITS ARE MBtuh. EXTERIOR DESIGN CONDITIONS: WINTER DRY BULB = 18^F, SUMMER DRY BULB = 93 ^F, SUMMER WET BULB = 75 ^F
5) CONTRACTOR RESPONSIBLE FOR LEFT OR RIGHT HAND MOTOR/BLOWER ASS'Y SELECTION

6) PROVIDE UNIT WITH 7-DAY PROGRAMMABLE THERMOSTAT.
7) PROVIDE UNIT WITH BACNET CARD FOR CONNECTING TO BUILDING AUTOMATION SYSTEM.

8) PROVIDE UNIT WITH AUXILIARY EMERGENCY DRAIN PAN AND CONDENSATE FLOAT SWITCH MOUSHUT DOWN UNIT FAN AND CONDENSER UPON ACTIVATION.
 9) PROVIDE UNIT WITH DUAL REFRIGERANT CIRCUITS AND VARIABLE SPEED AIR HANDLING UNIT.

1	15 SEER 15 SEER		170 LBS
	SYS = SYSTEM ICL = TOTAL ( SC = SENSIB HEAT= HEAT L AUX= ELECTRIC HP= MAXIMUM RLA = RATED FLA = FAN MO MCA = MINIMUM ID/G = NOT AF	COOLING LOAD LE COOLING ( DAD (MBtuH) CHEAT STRIP MOTOR HORS LOAD AMPS TOR FULL LO M CKT CAPAC	(MBtuH)  (kW)  EPOWER  AD AMPS

			S	PL	.IT	SY	ST	EM	HEAT PUN	MP EQUIPN	<b>MENT</b>	S	CHI	EDU	LE (A	<b>\L</b> T	. B	ID)				
			0	).A.												ELECTF	RICAL DA	TA				
SYSTEM																						
AHU-1/HP-1	AUX GYM	6,000	250	2,500	0.5	180.0	126.0	_	TRANE TWA18044D	TRANE TWE18044B	460V/3PH	32.0	40	762 LBS	460V/3PH	51.0	60	29.92 KW	2	10.8	1-10	688 LBS
AHU-2/HP-2	AUX GYM	6,000	250	2,500	0.5	180.0	126.0	_	TRANE TWA18044D	TRANE TWE18044B	460V/3PH	32.0	40	762 LBS	460V/3PH	51.0	60	29.92 KW	2	10.8	1-10	688 LBS
AHU-3/HP-3	AUX GYM	1,200	200	_	0.5	36.0	25.2	_	TRANE 4TWA036A4000A	TRANE GAM5B0B36M31SB	460V/3PH	6.0	15	208 LBS	208V/1PH	48.0	50	7.2 KW	1	14 SEER	1-8	142 LBS
AHU-4/HP-4	AUX GYM	4,000	450	_	0.5	120.0	84.0	_	TRANE TWA12044D	TRANE TWE12044B	460V/3PH	18.0	25	433 LBS	460V/3PH	44.0	45	24.92 KW	2	11.2	1-10	408 LBS
NOTES:																		ABBRE\	MATIONS: S	ys = system		

1,800 | 1,800 | 0.5 | 154.7 | 81.2 | TRANE OADGO12A3 | 460V/3PH | 28.6 | 35 |

1) TOTAL COOLING LOAD, SENSIBLE COOLING LOAD, AND HEATING LOAD UNITS ARE MBtuh.
COOLING LOADS INCLUDES VENTILATION, HEAT FAN, & PLENUM HEAT GAIN DURING
NON-SIMILITANIFOLIS DEAK OPERATION, W. O. INCLUSION OF TONE DIVERSITY

NON-SIMULTANEOUS PEAK OPERATION W/O INCLUSION OF ZONE DIVERSITY.

2) SEE ALSO EQUIPMENT INSTALLATION DETAILS FOR ACCESSORIES, OPTIONS, ETC.

3) PROVIDE UNIT MFR'S CONDENSER COIL GUARD (METAL GRILLE W/PVC COATING).

4) HEATING LOAD UNITS ARE MBUH. EXTERIOR DESIGN CONDITIONS: WINTER DRY BULB = 18°F, SUMMER DRY BULB = 93 °F, SUMMER WET BULB = 75 °F
5) CONTRACTOR RESPONSIBLE FOR LEFT OR RIGHT HAND MOTOR/BLOWER ASS'Y SELECTION
6) PROVIDE UNIT WITH 7-DAY PROGRAMMABLE THERMOSTAT.

11) PROVIDE MANUFACTURER'S ROOF CURB.

12) WEIGHT LISTED ABOVE DOES NOT INCLUDE ROOF CURB.

7) PROVIDE UNIT WITH BACNET CARD OR BACNET THERMOSTAT FOR CONNECTING TO BUILDING CONTROL SYSTEM..

8) PROVIDE UNIT WITH AUXILIARY EMERGENCY DRAIN PAN AND CONDENSATE FLOAT SWITCH MOUNTED TO DRAIN PAN. FLOAT SWITCH SHALL

SHUT DOWN UNIT FAN AND CONDENSER UPON ACTIVATION.

9) PROVIDE UNIT WITH DEMAND CONTROLLED VENTILATION AND MOTORIZED OUTSIDE AIR DAMPER. PROVIDE AND INSTALL CARBON DIOXIDE SENSOR IN ZONE (WHERE INDICATED ON DRAWINGS) AND CONNECT BACK TO BUILDING CONTROL SYSTEM.

10) PROVIDE UNIT WITH DUAL REFRIGERANT CIRCUITS AND VARIABLE SPEED AIR HANDLING UNIT.

	ELEC	TRI	CL	JNI	T HEATER S	SCHEDU	LE	
TAG(S)	SERVICE	HEAT	мвн	CFM	MFR / MODEL NO.	ELECT	NOTES	WEIGHT
UH-1	SPR 842	3.3 kW	11.2	400	MARKEL NO. G1G5103N	277V/1PH/11.9A	1-3	25 LBS
UH-2	SPR 521	3.3 kW	11.2	400	MARKEL NO. G1G5103N	277V/1PH/11.9A	1-3	25 LBS
(2) UL LIS STERLIN	IG SHALL BE CONSIDER	s meeting ( Red equal	OR EXCEE	DING SPI	STAT. ECIFICATIONS MANUFACTURED BY ACKET WITH DUST SHIELD			

	LOUVER SCHEDULE														
MARK	SERVICE SIZE FREE CFM FPM ELECT CONTROL COLOR MODEL NO./DESCRIPTION NOTES														
LV-A	EXISTING GYM	60×60	13.99	7,000	500	N/A	N/A	TO BE DETERMINED	RUSKIN ELF375DXH	1-5					
LV-B	NEW BAND BUILDING	24×24	1.92	700	365	N/A	N/A	TO BE DETERMINED	RUSKIN ELF375DXH	1-5					
LV-C	NEW SCIENCE BUILDING	48×48	8.58	3,600	420	N/A	N/A	TO BE DETERMINED	RUSKIN ELF375DXH	1-5					
LV-D	FOODS LAB 404/408	48×24	4.05	1,600	395	N/A	N/A	TO BE DETERMINED	RUSKIN ELF375DXH	1-5					
LV-E	NEW GYM	48X30	5.0	2500	500	N/A	N/A	TO BE DETERMINED	RUSKIN 3LF375DXH	1-5					

OTES:

1) LOUVERS AND DAMPERS MEETING OR EXCEEDING SPECIFIED DATA, MANUFACTURED BY VENT PRODUCTS, NCA OR CESCO

2) PROVIDE EXTENDED SILL, CLIP ANGLES, & INSECT SCREEN.

3) SEE DETAILS



	DUC	T-F	RE	ES	SPLIT SYS	STEM EQ	UIPM	ΕN	T S	CHEDULE	
		CAPA	CITY DA	ATA	EQUIPMENT	MODEL NO.				ELECTRICAL DATA	
SYSTEM/TAG(S)	SERVES	SEER	CFM	TCL	OUTDOOR	INDOOR	OUTDOOR	MCA	МОСР	WEIGHT	NOT
DHP-1/DS-1	IDF ROOM 522B	23.1	399	12.0	TRANE NTXSST12A112A	TRANE NTXWST12A112A	208V/1PH	10.0	15	29 LBS INDOOR/97 LBS OUTDOOR	1-
DHP-2/DS-2	KITCHEN DRY STORAGE	23.1	399	12.0	TRANE NTXSST12A112A	TRANE NTXWST12A112A	208V/1PH	10.0	15	29 LBS INDOOR/97 LBS OUTDOOR	1-

1) TOTAL COOLING LOAD AND SENSIBLE COOLING LOAD ARE MBtuh.
2) MC SHALL WIRE INDOOR UNIT FROM OUTDOOR UNIT.
3) PROVIDE REMOTE CONTROL THERMOSTAT & SET FOR 80^F.
4) OUTDOOR UNITS MOUNTED ON PLATFORM FLOOR ADJACENT TO IDF ROOM.
5) PROVIDE UNIT WITH BACNET CARD FOR CONNECTING TO AND CONTROL BY THE BUILDING ENERGY MANAGEMENT SYSTEM (SEE SEQ OF OP)

EVIATIONS: SYS = SYSTEM

TCL = TOTAL COOLING LOAD (MBtuH)

SC = SENSIBLE COOLING (MBtuH)

RLA = RATED LOAD AMPS

FLA = FAN MOTOR FULL LOAD AMPS

MCA = MINIMUM CKT CAPACITY

TCL = TOTAL COOLING LOAD (MBtuH)
SC = SENSIBLE COOLING (MBtuH)

HEAT= HEAT LOAD (MBtuH)
AUX= ELECTRIC HEAT STRIP (kW)
HP= MAXIMUM MOTOR HORSEPOWER

RLA = RATED LOAD AMPS
FLA = FAN MOTOR FULL LOAD AMPS

MCA = MINIMUM CKT CAPACITY

n/a = NOT APPLICABLE STAGE= # OF HEAT STRIP STAGES

## ROOFTOP GASPACK EQUIPMENT SCHEDULE

NOTES:												ABBI	REVIATIONS: SYS =	SYSTEM		
RTU-2	EXIST. GYM	14,000	3,900	0.5	384.7	286.8	TRANE YCH420C4	460V/3PH	100.7	125	600.0	486.0	NATURAL GAS	10.7	_	5,116 LBS
RTU-1	EXIST. GYM	14,000	3,900	0.5	384.7	286.8	TRANE YCH420C4	460V/3PH	100.7	125	600.0	486.0	NATURAL GAS	10.7	_	5,116 LBS
SYS	ZONE	CFM	O.A.	ESP	TCL	sc	MODEL NUMBER	VOLT/PH	MCA	MOCP	HEATING INPUT	HEATING OUTPUT	FUEL	EER	NOTES	WEIGHT
			AIRFLO	W/FAN	DATA		EQUIPMENT MODEL NO.	ELECTF	RICAL DA	TA		HEATING DATA	<b>A</b>			

TOTAL COOLING LOAD, SENSIBLE COOLING LOAD, AND HEATING LOAD UNITS ARE MBtuh.
 COOLING LOADS INCLUDES VENTILATION, HEAT FAN, & PLENUM HEAT GAIN DURING
 NON-SIMULTANEOUS PEAK OPERATION w/o INCLUSION OF ZONE DIVERSITY.
 SEE ALSO EQUIPMENT INSTALLATION DETAILS FOR ACCESSORIES, OPTIONS, ETC.
 PROVIDE UNIT MFR'S CONDENSER COIL GUARD (METAL GRILLE w/PVC COATING).

4) HEATING LOAD UNITS ARE MBtuh. EXTERIOR DESIGN CONDITIONS: WINTER DRY BULB = 18°F, SUMMER DRY BULB = 95 °F, SUMMER WET BULB = 75 °F
5) CONTRACTOR RESPONSIBLE FOR LEFT OR RIGHT HAND MOTOR/BLOWER ASS'Y SELECTION
6) PROVIDE UNIT WITH DEMAND CONTROLLED VENTILATION AND MOTORIZED OUTSIDE AIR DAMPER.
7) PROVIDE UNITS WITH EQUAL STAGES OF HEATING AND COOLING. (EX: 15 TON = 7.5 TON x 2)

9) PROVIDE UNIT WITH BACNET CARD FOR CONNECTING TO BUILDING CONTROL SYSTEM.

SYS = SYSTEM
TCL = TOTAL COOLING LOAD (MBtuH)
SC = SENSIBLE COOLING (MBtuH)
HEAT= HEAT LOAD (MBtuH)
AUX= ELECTRIC HEAT STRIP (kW)
HP= MAXIMUM MOTOR HORSEPOWER
RLA = RATED LOAD AMPS
FLA = FAN MOTOR FULL LOAD AMPS
MCA = MINIMUM CKT CAPACITY
n/a = NOT APPLICABLE

## MODULAR AIR HANDLING UNIT EQUIPMENT SCHEDULE

   			4	EQUIPMENT DATA			R DATA	МОТС				NG DATA	HEATI							NG DATA	COOL				DATA	AIR [	SYSTEM	
خ ن ا	WEIGHT	NOTES	ROWS	MFR./MODEL NO.	DESCRIPTION	ELECT	МОСР	HP MCA	ESP	PD	РМ СОИГ	LWT	LAT	EAT	HEAT	CFM	PD	T CONN	PM LV	ΔTwb G	LATdb	EATdb	SC	TCL	OA	CFM	ZONE	TAG
	1,732 LB	1-14	6/2	TRANE/UCCA-17	VERTICAL AHU	460/3ф	30	10 17.7	1.25	10	3.5 2"	160.1	105.0	46.3	382.4	6000	10	0 2-1/2"	7.5 56	26.4 5	55.0	81.4	228.7	402	2800	8000	DINING ROOM 100	AHU-100A
<u>ן</u>	1,732 LB	1-14	6/2	TRANE/UCCA-17	VERTICAL AHU	460/3ф	30	10 17.7	1.25	10	3.5 2"	160.1	105.0	46.3	382.4	6000	10	0 2-1/2"	7.5 56	26.4 5	55.0	81.4	228.7	402	2800	8000	DINING ROOM 100	AHU-100B
<u>'</u>	762 LBS	1-14	6/2	TRANE/UCCA-08	HORIZONTAL AHU	208/3ф	50	5 28	1.25	10	2.5   1-1/4	160.3	105.0	54.5	123.3	2250	10	8 1-1/2"	6.5 55	23.9 1	55.0	78.9	77.8	114	700	3000	BAND ROOM 164	AHU-164A
, ≓	762 LBS	1-14	6/2	TDANE/LICCA 09	HODIZONITAL AULI	208/3 <b></b>	50	5 28	1 25	10	2.5 1-1/4	160.3	105.0	54.5	123.3	2250	10	8 1-1/2"	65 55	23.9 1	55.0	78.9	77.8	11/1	700	3000	BAND ROOM 164	ΔΗΙΙ-164B

1) TOTAL COOLING LOAD, SENSIBLE COOLING LOAD, AND HEATING LOAD UNITS ARE MBtuh.

COOLING LOADS INCLUDES VENTILATION, HEAT FAN, & PLENUM HEAT GAIN DURING
NON—SIMULTANEOUS PEAK OPERATION W/O INCLUSION OF ZONE DIVERSITY.

EXTERIOR DESIGN CONDITIONS: WINTER DRY BULB = 18°F; SUMMER DRY BULB = 93°F; MEAN
COINCIDENT WET BULB = 75°F

2) REFERENCE SPECIFICATION SECTIONS 15850 FOR EQUIPMENT AND ACCESSORIES.

3) M.C. SHALL PROVIDE MANUFACTURERS COMBINATION STARTER; SEE ALSO EQUIPMENT
INSTALLATION DETAILS FOR ACCESSORIES, OPTIONS, ETC.

4) CHILLED WATER: EWT = 42.0, LWT = 56.0

5) HOT WATER: EWT = 180.0, LWT = 160.0, ENTERING AIR TEMP. = 55 F (AVG.) (INSTALL IN REHEAT POSITION)
6) CONTRACTOR RESPONSIBLE FOR LEFT OR RIGHT HAND MOTOR/BLOWER ASS'Y SELECTION

5) HOT WATER: EWT = 180.0, LWT = 160.0, ENTERING AIR TEMP. = 55 F (AVG.) (INSTALL IN REHEAT POSITION)
6) CONTRACTOR RESPONSIBLE FOR LEFT OR RIGHT HAND MOTOR/BLOWER ASS'Y SELECTION
7) PROVIDE MIXING BOX FOR THIS UNIT
8) M.C. SHALL PROVIDE SPARE BLOWER MOTORS FOR AIR HANDLING UNITS; QTY. (1)—5HP, (1)—10HP
9) CHILLED WATER VALVES PROVIDED AS MODULATING, HOT WATER VALVES PROVIDED AS MODULATING FOR RE—HEAT.

10) SEE FORM OF PROPOSAL FOR ALTERNATE BIDS.

11) PROVIDE UNIT WITH DEMAND CONTROLLED VENTILATION AND WALL MOUNTED CARBON DIOXIDE SENSOR.

12) PROVIDE UNIT WITH MODULATING MOTORIZED DAMPER FOR OUTSIDE AIR.

13) PROVIDE UNIT WITH AUXILIARY EMERGENCY DRAIN PAN AND CONDENSATE FLOAT SWITCH MOUNTED TO DRAIN PAN. FLOAT SWITCH SHALL SHUT DOWN UNIT FAN AND CLOSE HYDRONIC VALVES UPON ACTIVATION.

5	5	28	50	208/3ф	HORIZONTAL AHU	TRANE/UCCA-08	6/2	1-14	762 LB
5_	5	28	50	208/3ф	HORIZONTAL AHU	TRANE/UCCA-08	6/2	1-14	762 LB
S = 2 PM	= SENS = HE/ = GALI = PIF = RATE = LOCK = FAN = CUBI OUTSI = MINII	TEM  AL COOLISIBLE CO  AT LOAD  LONS PE  E SIZE  ED LOAD  KED ROT  MOTOR  IC FOOT  IDE AIR  MUM CIF	O AMPS FOR AMPS FULL LOA PER MIN (cfm) RCUIT AMI	(Btuh) E SEE MANUF. ( AD AMPS		LATWD = LEAVING DRY LATWD = LEAVING WET EATID = ENTERING WE EATWD = ENTERING WE FC = FAN COIL UNIT AHU = AIR HANDLER ( ESP = EXTERNAL STA' LWT = ESTIMATED LEA HP = AHU MFR STD ROWS = No. COIL ROW HORIZ.= HORIZONTAL ( KW = POWER INPUT (	F BULB AIR TO BULB AIR TO BULB AIR BULB AIR UNIT TO PRESSURING WATER MOTOR WS C/HW UNIT POSITION	EMP (T) TEMP (T) TEMP. (T) E (IN WG) TEMP (T)	

**A** 

PUMP SCHEDULE													
TAG	TYPE	SERVICE	GPM	HEAD	EFF	НР	RPM	ELECT	FLA	МОСР	CONTROL	MFR/MODEL	NOTES
CWP-1	BASE MOUNTED END SUCTION	BUILDING LOOP	993	65	81.5	25	1800	460V/3PH	34	70	VARIABLE SPEED	B&G SERIES 1510 5EB	1-3
CWP-2	BASE MOUNTED END SUCTION	BUILDING LOOP	993	65	81.5	25	1800	460V/3PH	34	70	VARIABLE SPEED	B&G SERIES 1510 5EB	1-3
HWP-SC	BASE MOUNTED END SUCTION	SCIENCE BUILDING	60	60	55.1	2	1800	460V/3PH	3.4	15	VARIABLE SPEED	B&G SERIES 1510 1.25BD	1-3
HWP-PR	BASE MOUNTED END SUCTION	EXISTING BUILDING	490	115	80.4	20	3600	208V/3PH	62.1	100	VARIABLE SPEED	B&G SERIES 1510 3AD	1-3
HWP-VO	BASE MOUNTED END SUCTION	VOCATIONAL BUILDING	135	60	72.6	5	1800	208V/3PH	17.5	35	VARIABLE SPEED	B&G SERIES 1510 2BD	1-3
HWP-CA	BASE MOUNTED END SUCTION	800/900 CLASS ADDITION	121	100	65.6	7.5	3600	208V/3PH	25.3	50	VARIABLE SPEED	B&G SERIES 1510 2AD	1-3
CP-1	IN-LINE	CHILLER #1	410	30	80.5	5	1800	460V/3PH	7.6	15	CONSTANT SPEED	B&G SERIES e80 5x5x9.5B	1-3
CP-2	IN-LINE	CHILLER #2	431	30	80.7	5	1800	460V/3PH	7.6	15	CONSTANT SPEED	B&G SERIES e80 5x5x9.5B	1-3
CP-3	IN-LINE	CHILLER #3	237	35	71.1	5	1800	460V/3PH	7.6	15	CONSTANT SPEED	B&G SERIES e80 4x4x11B	1-3

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