											FAN C	COIL UNIT	SCHEDU	JLE															
	SIGNATION MODEL SIZE		APEA	AREA	AREA	ΔREΔ	AREA		FAN CHAR	ACTERISTICS			ELECTRICAL				C	OOLING CHAI	RACTERISTIC	S				ŀ	HEATING CHAF	RACTERISTIC	S	Ì	FILTER DATA
ESIGNATION		ON MODEL SIZE	SERVED	CFM	OUTSIDE AII CFM	ESP (IN H ₂ O)	HP	VOLTS/Ø	FLA/MCA	MOCP	TOTAL CAP. (BTUH)	SENS. CAP. (BTUH)	EAT (DB/WB)	LAT (DB/WB)	EWT/LWT	PD (FT. H₂O)	NO. OF ROWS/FPI	FLOW RATE (GPM)	SENS. CAP. (BTUH)	EAT/LAT (DB)	EWT/LWT	PD (FT. H ₂ O)	NO. OF ROWS/FPI	FLOW RATE (GPM)	TYPE				
FCU-1A	BCHE	12	REFER TO PLANS	400	65	0.75	1/2	208/3	2.4/3.0	15	9,010	7,500	71.90/61.70	54.84/53.91	45.0/55.0	0.64	6/10	1.9	14,920	67/100.49	200/151.87	0.10	1/10	0.59	NA				
FCU-2A	BCHE	24	REFER TO PLANS	600	310	0.75	1/2	208/3	2.4/3.0	15	15,430	11,910	71.90/61.70	53.81/52.70	45.0/55.0	2.21	6/10	3.3	22,650	67/101.94	200/139.40	0.16	1/10	0.75	NA				
FCU-2B	BCHE	24	REFER TO PLANS	600	140	0.75	1/2	208/3	2.4/3.0	15	15,430	11,910	71.90/61.70	53.81/52.70	45.0/55.0	2.21	6/10	3.3	22,650	67/101.94	200/139.40	0.16	1/10	0.75	NA				
FCU-3A	BCHE	24	REFER TO PLANS	700	340	0.75	1/2	208/3	2.40/3.0	15	17,570	13,380	72.0/61.90	54.58/53.18	45.0/55.0	2.90	6/10	3.9	26,790	67/102.45	200/144.08	0.25	1/10	0.9	NA				
FCU-3B	BCHE	24	REFER TO PLANS	700	360	0.75	1/2	208/3	2.40/3.0	15	17,570	13,380	72.0/61.90	54.58/53.18	45.0/55.0	2.90	6/10	3.9	26,790	67/102.45	200/144.08	0.25	1/10	0.9	NA				
FCU-3C	BCHE	24	REFER TO PLANS	700	375	0.75	1/2	208/3	2.40/3.0	15	17,570	13,380	72.0/61.90	54.58/53.18	45.0/55.0	2.90	6/10	3.9	26,790	67/102.45	200/144.08	0.25	1/10	0.9	NA				
FCU-3D	BCHE	24	REFER TO PLANS	700	145	0.75	1/2	208/3	2.40/3.0	15	17,570	13,380	72.0/61.90	54.58/53.18	45.0/55.0	2.90	6/10	3.9	26,790	67/102.45	200/144.08	0.25	1/10	0.9	NA				
FCU-4A	BCHE	36	REFER TO PLANS	900	410	0.75	1/2	208/3	2.40/3.0	15	22,560	16,810	72.20/62.60	55.20/54.04	45.0/55.0	3.90	4/10	4.8	33,580	67/101.50	200/124.82	0.29	1/10	0.9	NA				
FCU-5A	BCHE	36	REFER TO PLANS	950	500	0.75	1/2	208/3	2.40/3.0	15	21,540	17,510	71.90/61.70	55.11/53.86	45.0/55.0	3.66	4/10	4.6	35,530	67/101.59	200/126.48	0.33	1/10	0.9	NA				
FCU-5B	BCHE	36	REFER TO PLANS	950	435	0.75	1/2	208/3	2.40/3.0	15	21,540	17,510	71.90/61.70	55.11/53.86	45.0/55.0	3.66	4/10	4.6	35,530	67/101.59	200/126.48	0.33	1/10	0.9	NA				
FCU-6A	BCHE	36	REFER TO PLANS	1000	500	0.75	1/2	208/3	2.40/3.0	15	22,510	18,230	72.0/61.80	55.39/54.03	45.0/55.0	4.00	4/10	4.9	37,540	67/101.73	200/128.23	0.38	1/10	1.0	NA				
FCU-6B	BCHE	36	REFER TO PLANS	1000	460	0.75	1/2	208/3	2.40/3.0	15	22,510	18,230	72.0/61.80	55.39/54.03	45.0/55.0	4.00	4/10	4.9	37,540	67/101.73	200/128.23	0.38	1/10	1.0	NA				
FCU-7A	BCHE	36	REFER TO PLANS	1100	505	0.75	1	208/3	4.60/5.75	15	24,410	19,890	72.20/61.90	55.73/54.27	45.0/55.0	4.66	4/10	5.3	41,360	67/101.79	200/131.93	0.49	1/10	1.2	NA				

6. HOT WATER COILS SHALL BE IN THE REHEAT POSITION.

				NGULAF	SIZES FOF R DUCT	`			
MINIMUM HALF OF	PAIR 10Ft SP		PAIF 8Ft SP		PAIR 5Ft SPA		PAIR AT 4Ft SPACING		
DUCT PERIMETER	STRAP	ROD	STRAP	ROD	STRAP	ROD	STRAP	ROD	
P/2 = 30"	1" x 22ga		1" x 22ga	1/4"	1" x 22ga	1/4"	1" x 22ga	1/4"	
P/2 = 72"	1" x 18ga		1" x 20ga ½"		1" x 22ga	1/4"	1" x 22ga	1/4"	
P/2 = 96"	: 96"		1" x 18ga	3/8"	1" x 20ga	3/8"	1" x 22ga	3/8"	
P/2 = 120"	= 120" 1½" x 16ga ½" 1" x 16ga		3/8"	1" x 18ga	3/8"	1" x 20ga	3/8"		
P/2 = 168"	1½" x 16ga	1/2"	1" x 16ga	1/2"	1" x 16ga	3/8"	1" x 18ga	3/8"	
P/2 = 192"	-	-	1" x 16ga	1/2"	1" x 16ga	3/8"	1" x 18ga	3/8"	
					SINGLE HANG	ER MAXIMUI	M ALLOWABLE	LOAD	
WHEN STRAPS :	ARE LAP JOINE	D USE THESE	MINIMUM		STRAP		ROD (Dia.)		
4" v 40 00 00 ==	ON 1/"	DOLT.			1" x 22ga - 260Lb	s.			
1" x 18, 20, 22ga 1" X 16ga		WO ¼" Dia.			1" x 20ga - 32Lbs	3/8" - 680Lbs.			
1" X 16ga	- T	WO ¾" Dia.			1" x 18ga - 420Lb	½" - 1250Lbs.			
PLACE FASTENI	ERS IN SERIES,	NOT SIDE BY	SIDE.		1" x 16ga - 700Lb	s.	5⁄8" - 2000	Lbs.	
					1½" x 16ga - 1100L	.bs.	¾" - 3000	Lbs.	

1. DIMENSIONS OTHER THAN GAUGE ARE IN INCHES.

1. 4-PIPE FAN COIL UNITS SHALL BE BASED ON TRANE. 2. ALL FAN COIL UNITS SHALL BE UL LISTED AND LABELED.

3. FAN COIL UNIT CONTROLS SHALL BE BY AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR.

4. MECHANICAL CONTRACTOR TO CONFIRM COIL SIDE CONNECTIONS IN FIELD PRIOR TO ORDERING.

- 2. TABLES ALLOW FOR DUCT WEIGHT, 1 LB./SF. INSULATION WEIGHT AND NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.
- 3. STRAPS ARE GALVANIZED STEEL.
- 4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA. MAXIMUM, EXCEPT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.

			PIPE	HANGE	R SCHE	DULE				
PIPE SIZE		MUM HORIZO PACING (FEE	—		TEEL ROD ZE (INCHES)	HANGER TYPE	MAXIMUM VERTICAL SPACING (FEET)			
(INCHES)	COPPER TUBE			TUBING PIPING		STEEL	COPPER TUBE	STEEL PIPE	PVC PIPE	
1/2"	6	8	4	1/4"	3/8"	BAND	10	15	10	
3/4"	6	8	4	1/4"	3/8"	BAND	10	15	10	
1"	6	8	4	1/4"	3/8"	BAND	10	15	10	
11/4"	6	9	4	1/4"	3/8"	CLEVIS	10	15	10	
1½"	6	9	4	1/4"	3/8"	CLEVIS	10	15	10	
2"	10	10	4	1/4"	3/8"	CLEVIS	10	15	10	
2½"	10	12	4	3/8"	1/2"	CLEVIS	10	15	10	
3"	10	12	4	3/8"	½"	CLEVIS	10	15	10	
4"		12	4	1/2"	5/8"	CLEVIS OR ROLLER		15	10	
6"		12			3/4"	CLEVIS OR ROLLER		15		

- 1. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE RUNS.
- 2. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.
- 3. SUPPORT ALL BRANCH PIPING OVER 5'-0" IN LENGTH.

5. EACH FAN COIL UNIT SHALL BE PROVIDED WITH: DISCONNECT SWITCH, INLET/OUTLET FLEXIBLE CONNECTIONS, RUBBER-IN SHEAR VIBRATION ISOLATORS, 1-INCH MATTE

FACED INSULATION, STAINLESS STEEL DRAIN PAN, STAINLESS STEEL AUXILIARY DRAIN PAN, AND ELECTRONICALLY COMMUTATED MOTORS.

- 4. USE ROLLER TYPE HANGERS (MSS TYPE 41) WHERE PIPING IS SUBJECT TO MOVEMENT CAUSED BY EXPANSION AND
- 5. HANGERS AND ANCHORS SHALL BE ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
- B. PIPING SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING THE SPACING SPECIFIED IN SCHEDULE OR IN ACCORDANCE WITH MSS SP-69.

MECHANICAL PIPING MATERIAL SCHEDULE								
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD				
HOT & CHILLED WATER	3" & DOWN	COPPER	HARD DRAWN TYPE L TUBING	ASTM B 88				
HOT & CHILLED WATER	4" & UP	BLACK STEEL	SCHEDULE 40	ASTM A 53				
INTERIOR CONDENSATE & CONDENSATE PUMP DISCHARGE	ALL	COPPER	HARD DRAWN TYPE L TUBING	ASTM B 88				
CONDENSATE DRAIN (EXTERIOR)	ALL	PVC	SCHEDULE 40 DWV	ASTM D 2665				
REFRIGERANT	ALL	COPPER	HARD OR ANNEALED TYPE ACR	ASTM B 280				

MECHANICAL PIPING FITTING SCHEDULE									
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STAND	ARD				
OT & CHILLED WATER	3" & DOWN	WROUGHT COPPER	LEAD-FREE SOLDER ASTM B828	ASME B	16.22				
OT & CHILLED WATER	4" & UP	CARBON STEEL	BUTT WELDED OR FLANGED	ASME B 16.9	ASME 234				
ITERIOR CONDENSATE & ONDENSATE PUMP ISCHARGE	ALL	WROUGHT COPPER	SOLDER	ASME B	16.22				
ONDENSATE DRAIN XTERIOR)	ALL	PVC	SCHEDULE 40 DWV SOLVENT CEMENT	ASTM D					
EFRIGERANT	ALL	COPPER	SILVER SOLDER 300 PSI	ANSI B	16.22				

NOTES:

- ALL WORK ASSOCIATED WITH AUTOMATIC TEMPERATURE CONTROLS SHALL BE PERFORMED BY THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR DIRECT TO THE SCHOOL DISTRICT. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SUPPLY AND TURNOVER CONTROLS ELEMENTS REQUIRED
- TO BE INSTALLED IN PIPING AND/OR DUCTWORK TO THE MECHANICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR INSTALLING THE CONTROL ELEMENTS. MECHANICAL CONTRACTOR SHALL COORDINATE. VERIFY ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDERING FOR ALL EQUIPMENT VISIBLE WITHIN SPACE OR FROM EXTERIOR OF BUILDING. ALL EQUIPMENT SHALL BE FINISHED USING MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS/FINISHES UNLESS OTHERWISE NOTED.

MECHANICAL CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN FOR WIND RESTRAINT OF ALL ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO WIND

DESIGN DATA ON DRAWING S001.

LD-A	KRUEGER	PTBS	PLENUM, HIGH FLOW, SLOT DIFFUSER WITH GASKETED ALUMINUM BLADE, EASILY ROTATED FOR ADJUSTMENT FROM HORIZONTAL TO VERTICAL FLOW. MAXIMUM NOISE CRITERIA: 25 NC. DIFFUSERS SHALL BE 4'-0" LONG WITH (1) 1" SLOT, INTERNALLY INSULATED PLENUM WITH 10" OVAL INLET. FINISH COLORS TO BE SELECTED BY ARCHITECT. FRAME SHALL BE F23A-CN. PROVIDE ADJUSTABLE PATTERN CONTROLLERS.
M	RUSKIN	CD450	HIGH PERFORMANCE CONTROL DAMPER. UNLESS PROVIDED WITH A SPECIFIC PIECE OF EQUIPMENT MOTORIZED DAMPERS SHALL BE CONSTRUCTED OF: 4"x1" EXTRUDED ALUMINUM FRAME, 6" WIDE EXTRUDED ALUMINUM AIRFOIL DAMPER BLADES, SANTOPRENE BLADE EDGE AND JAMB SEALS, LEXAN WITH ACETAL COPOLYMER BEARINGS. CLASS 1A LEAKAGE (3 CFM/FT² AT 1"WC). DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. PROPORTIONAL DAMPER ACTUATORS SHALL BE 24VAC/60Hz., MAXIMUM 6 WATTS RUNNING AND 2 WATTS HOLDING POWER CONSUMPTION, COMPLETE WITH DISCONNECT SWITCH, TRANSFORMER AND END SWITCH KITS, SIMILAR TO BELIMO NF24-SR.
CIRCUIT SETTER	BELL AND GOSSETT	СВ	HEAVY DUTY, CALIBRATED BALANCE VALVE, CAST-IRON CONSTRUCTION WITH FLANGED CONNECTIONS, BRASS DISC, STAINLESS STEEL STEM, 175 PSIG @ 250°F RATING.
EXPANSION COMPENSATOR	METRAFLEX	HP2	COMPENSATOR SHALL ACCOMMODATE ½" OF EXPANSION AND 2" OF COMPRESSION. 175 PSI WORKING PRESSURE. COMPENSATOR CONSTRUCTION: CARBON STEEL WITH MULTI-PLY 304 STAINLESS STEEL BELLOWS.
HIGH PERFORMANCE BUTTERFLY VALVE	BRAY CONTROLS	HIGH PERFORMANCE	 HIGH PERFORMANCE BUTTERFLY VALVES, ANSI CLASS 150. VALVES SHALL PROVIDE ABSOLUTE SHUT-OFF (ZERO LEAKAGE) TO FULL ANSI CLASS RATING WITH PRESSURE IN EITHER DIRECTION. BODY SHALL BE FULL LUG STYLE. VALVE SHALL PROVIDE DRIP-TIGHT-SHUT-OFF ON DEAD END SERVICE, WITH PRESSURE IN EITHER DIRECTION TO ALLOW FOR PIPING CHANGES OR EQUIPMENT REMOVAL. EXTENDED NECK SHALL ALLOW FOR PIPING INSULATION AND ACCESS TO PACKING ADJUSTMENT AND OPERATOR MOUNTING. VALVE BODY AND SEAT RETAINER RING SHALL BE CARBON STEEL, ASTM A216 GR WCB / A516 GR 70. DISC SHALL BE STAINLESS STEEL ASTM A351 GR CF8M, FOR LONG TERM CORROSION RESISTANCE. DISC SHALL BE DOUBLE OFFSET DESIGN. SEAT SHALL BE LIVE LOADED RPTFE. SHAFT SHALL BE ONE-PIECE CONTSRUCTION, 17-4PH STAINLESS STEEL. VALVES SHALL COMPLY WITH PED 97/23/EC. FOR MANUAL VALVES, PROVIDE LEVER OPERATORS UP TO 6" SIZE, AND GEAR OPERATORS FOR VALVES LARGER THAN 6".
EQUIPMENT SUPPORT RAILS	THYBAR	TEMS-3	24" HIGH EQUIPMENT SUPPORT RAIL CONSTRUCTED OF WELDED 18 GAUGE GALVANIZED STEEL SHELL, BASE PLATE AND COUNTER FLASHING WITH FACTORY INSTALLED 2"x4" WOOD NAILERS AND INTERNAL BULKHEAD REINFORCEMENT. RAIL LENGTH TO EXTEND 6" ON BOTH ENDS OF EQUIPMENT. EQUIPMENT SUPPORT RAILS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
CONDENSATE PUMP	LITTLE GIANT	VCCA-20-P	HARDWIRED AUTOMATIC CONDENSATE PUMP WITH FLOAT ACTIVATED AUXILIARY HIGH LEVEL SWITCH. ELECTRICAL: 115V/1Ø/60Hz, 1.5 AMPS, 93 WATTS, ½ HP. SHUT-OFF HEAD 20 FEET. PERFORMANCE: 70 GALLONS PER HOUR AT 5 FEET OF HEAD. PUMP SHALL BE COMPLETE WITH DISCONNECT SWITCH. PROVIDE AT ALL FAN COIL UNITS.
AC-A	MITSUBISHI	MSY-GL09NA	WALL MOUNTED DUCTLESS INDOOR UNIT. 9,000 BTUH RATED COOLING CAPACITY. ELECTRICAL CHARACTERISTICS: 208V/1Ø/60HZ., 1.0 AMPS MCA, 15 AMPS MOCP. 24.6 SEER AND 15.4 EER. UNIT SHALL BE COMPLETE WITH WALL MOUNTED WIRELESS CONTROLLER WITH LOCK DOWN BRACKET, DISCONNECT SWITCH, CONDENSATE PUMP, AND DRAIN PAN LEVEL SENSOR.
ACCU-A	MITSUBISHI	MUY-GL09NA	AIR COOLED CONDENSING UNIT. ELECTRICAL CHARACTERISTICS: 208V/1Ø/60HZ., 7 AMPS MCA, 15 AMPS MOCP. UNIT SHALL BE COMPLETE WITH: NEMA 3R DISCONNECT SWITCH AND WIND BAFFLE. R-410A REFRIGERANT. FULL CAPACITY LOW AMBIENT COOLING OPERATION DOWN TO 0°F.
AC-B	MITSUBISHI	MSY-GL12NA	WALL MOUNTED DUCTLESS INDOOR UNIT. 12,000 BTUH RATED COOLING CAPACITY. ELECTRICAL CHARACTERISTICS: 208V/1Ø/60HZ., 1.0 AMPS MCA, 15 AMPS MOCP. 24.6 SEER AND 15.4 EER. UNIT SHALL BE COMPLETE WITH WALL MOUNTED WIRELESS CONTROLLER WITH LOCK DOWN BRACKET, DISCONNECT SWITCH, CONDENSATE PUMP, AND DRAIN PAN LEVEL SENSOR.
ACCU-B	MITSUBISHI	MUY-GL12NA	AIR COOLED CONDENSING UNIT. ELECTRICAL CHARACTERISTICS: 208V/1Ø/60HZ., 7 AMPS MCA, 15 AMPS MOCP. UNIT SHALL BE COMPLETE WITH: NEMA 3R DISCONNECT SWITCH AND WIND BAFFLE. R-410A REFRIGERANT. FULL CAPACITY LOW AMBIENT COOLING OPERATION DOWN TO 0°F.
AC-1	TRANE	TPLFY008FM140A	2'x2' CEILING CASSETTE, 4-WAY AIRFLOW PATTERN, INDOOR UNIT WITH BUILT-IN CONDENSATE PUMP AND FRESH AIR INTAKE KNOCKOUT. UNITS SHALL BE COMPLETE WITH FRESH AIR INTAKE DUCT FLANGE KIT, DISCONNECT SWITCH, SPRING TYPE VIBRATION ISOLATORS, AND TAC-YT53CRAU-J REMOTE CONTROLLER AND PAC-UKPR BACNET INTERFACE. EACH UNIT SHALL HAVE 20 CFM OUTSIDE AIR. PERFORMANCE: 315 CFM, 8,000 BTUH COOLING CAPACITY AT 80°F DB/67°F WB EAT AND 95°F AMBIENT, 9,000 BTUH HEATING CAPACITY AT 70°F DB/60°F WB EAT AND 5° AMBIENT. ELECTRICAL: 208V/1¢/60Hz, .28 AMPS.
AC-2	TRANE	TPLFY012FM140A	2'x2' CEILING CASSETTE, 4-WAY AIRFLOW PATTERN, INDOOR UNIT WITH BUILT-IN CONDENSATE PUMP AND FRESH AIR INTAKE KNOCKOUT. UNITS SHALL BE COMPLETE WITH FRESH AIR INTAKE DUCT FLANGE KIT, DISCONNECT SWITCH, SPRING TYPE VIBRATION ISOLATORS, AND TAC-YT53CRAU-J REMOTE CONTROLLER AND PAC-UKPR BACNET INTERFACE REFER TO VENTILATION SCHEDULE FOR OUTSIDE AIR. PERFORMANCE: 335 CFM, 12,000 BTUH COOLING CAPACITY AT 80° DB/67°F WB EAT AND 95°F AMBIENT, 13,500 BTUH HEATING CAPACITY AT 70°F DB/60°F WB EAT AND 5° AMBIENT. ELECTRICAL: 208V/1¢/60Hz, .29 AMPS.
AC-3	TRANE	TPLFY015FM140A	2'x2' CEILING CASSETTE, 4-WAY AIRFLOW PATTERN, INDOOR UNIT WITH BUILT-IN CONDENSATE PUMP AND FRESH AIR INTAKE KNOCKOUT. UNITS SHALL BE COMPLETE WITH FRESH AIR INTAKE DUCT FLANGE KIT, DISCONNECT SWITCH, SPRING TYPE VIBRATION ISOLATORSAND TAC-YT53CRAU-J REMOTE CONTROLLER AND PAC-UKPR BACNET INTERFACE. EACH UNIT SHALL HAVE 165 CFM OUTSIDE AIR. PERFORMANCE: 390 CFM, 15,000 BTUH COOLING CAPACITY AT 80°F DB/67°F WB EAT AND 95°F AMBIENT, 17,000 BTUH HEATING CAPACITY AT 70°F DB/60°F WB EAT AND 5° AMBIENT. ELECTRICAL: 208V/1¢/60Hz, .35 AMPS.
HP-1	TRANE	TURYH1203AN40AN	10.0 TON OUTDOOR VRF HEAT RECOVERY SYSTEM COMPLETE WITH NEMA 3R DISCONNECT SWITCH, BC CONTROLLER, TCMBG0108 BRANCH BOX, BRANCH JOINTS, BALL VALVES AND REDUCERS. 22.05 SEER, 12.65 EER, AND 3.8 HSPF. R-410A. RATED COOLING PERFORMANCE: 120,000 BTUH. RATED HEATING PERFORMANCE: 135,000 BTUH. SYSTEM ELECTRICAL: 208V/3φ/60Hz, 47 MCA, AND 70 AMPS MOCP.
EH-A	BERKO	FRC1512F	ARCHITECTURAL, HEAVY-DUTY, FAN FORCED WALL HEATER. CAPACITY: 1500 WATTS, 5120 BTUH, 100 CFM. ELECTRICAL: 120V/1Ø, 12.5 AMPS. FINISH SHALL BE NORTHERN WHITE. HEATER SHALL HAVE: CONCEALED TAMPER-PROOF THERMOSTAT, MANUAL RESET THERMAL CUT-OUT, CONCEALED POWER ON/OFF SWITCH, BACK BOX, SURFACE MOUNTING FRAME, DISCONNECT SWITCH, AND 14 GAUGE SECURITY FRONT COVER.
EH-B	BERKO	FRC4024F	ARCHITECTURAL, HEAVY-DUTY, FAN FORCED WALL HEATER. CAPACITY: 3000 WATTS, 10235 BTUH, 100 CFM. ELECTRICAL 208V/1Ø, 14.4/7.2 AMPS. FINISH SHALL BE NORTHERN WHITE. HEATER SHALL HAVE: CONCEALED TAMPER-PROOF THERMOSTAT, MANUAL RESET THERMAL CUT-OUT, CONCEALED POWER ON/OFF SWITCH, BACK BOX, SURFACE MOUNTING FRAME, DISCONNECT SWITCH, AND 14 GAUGE SECURITY FRONT COVER.
UH	VULCAN	HV-125A	HOT WATER UNIT HEATER. HEATING CAPACITY: 24.8 MBH, 580 CFM, 2.5 GPM, 2.2 FT WATER PRESSURE DROP, AND 102°F FINAL AIR TEMPERATURE. RATINGS BASED ON 200° EWT AND 60°F EAT. ELECTRICAL: 2 SPEED MOTOR, 120V/1Ø, 1.2 AMPS. COMPLETE WITH: MOUNTING BRACKET, OSHA FAN GUARD, NON-FUSED DISCONNECT SWITCH, "AUTO/OFF/FAN SWITCH" LINE VOLTAGE THERMOSTAT, STRAP-ON AQUASTAT, AND AIR DEFLECTION LOUVER.
P-1A P-1B	BELL AND GOSSET	ecocirc XL 70-145	HIGH EFFICIENCY LARGE WET ROTOR CIRCULATOR WITH ELECTRONIALLY COMMUTATED PERMENANT MAGNET MOTOR. PUMP SHALL HAVE CAPACITY OF 85.0 GPM. PUMP SHALL HAVE TOTAL DYNAMIC HEAD OF 42'. PREMIUM EFFICIENCY MOTOR SHALL BE 2 HP. ELECTRICAL: 208V/1¢/60Hz. PUMP SHALL BE FURNISHED WITH A NEMA 1 DISCONNECT SWITCH. DISCONNECT SWITCH SHALL BE PURCHASED BE MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
		1	HIGH FEEDSTANDY ARREST DOTOR OFFICE ATTORNEY FOR FORDAM AND ARREST

BY ELECTRICAL CONTRACTOR.

MECHANICAL EQUIPMENT SCHEDULE

BE EQUIPPED WITH OPPOSED BLADE VOLUME DAMPER.

STEEL HIGH PERFORMANCE CEILING DIFFUSER. MAXIMUM CORE VELOCITY: 550

BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED,

CONTRACTOR TO COORDINATE. BAKED ENAMEL FINISH, COLOR SELECTED BY

ARCHITECT. 4-WAY DEFLECTION. 24" x 24" MODULE SIZE. ALL DIFFUSERS SHALL

PROVIDED BY OTHERS, INSTALLED BY MECHANICAL CONTRACTOR IN DUCTWORK.

VELOCITY: 500 FPM. MAXIMUM NOISE CRITERIA: 25 NC. SURFACE MOUNTED 35°

STEEL RETURN REGISTER WITH 3/4" FIXED BLADE SPACING. MAXIMUM CORE

FIXED DEFLECTION BLADES. BLADES PARALLEL TO LONG DIMENSION UNLESS

REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE

SHALL BE SIZED PER SCHEDULE.

FPM AND 4.0" ESP. 165°F FUSIBLE LINK.

CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO

OTHERWISE NOTED. BAKED ENAMEL FINISH, COLOR SELECTED BY ARCHITECT.

DAMPERS. UNLESS OTHERWISE NOTED ON PLANS REGISTERS AND GRILLES

COORDINATE. REGISTERS SHALL BE PROVIDED WITH OPPOSED BLADE VOLUME

FPM. MAXIMUM NOISE CRITERIA: 15 NC. SURFACE MOUNTED WITH FRAMES AND

DESCRIPTION

CONSTRUCTED AND INSTALLED ACCORDING TO NFPA90A AND UL LABELS. UL 555S OPPOSED AIRFOIL BLADE DAMPER,

HIGH PERFORMANCE AND LOW LEAKAGE CLASS 1. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 4,000 FPM AND 8.0" SP. FURNISH UL RATED ELECTRIC DAMPER ACTUATOR AND CONTROL SWITCHES AS REQUIRED.

FURNISH WITH FACTORY WELDED INTEGRAL WALL SLEEVE, FRAME MOUNTING ANGLES, G STYLE WITH 3/4" MOUNTING FLANGE, AND EITHER DUCTMATE OR SLIP DRIVE BREAK AWAY CONNECTIONS, 120V/1Ø/60Hz; 0.25 AMPS; 23 WATTS. COORDINATE ROTATION IN FIELD. PROVIDE DISCONNECT, DAMPER TEST SWITCH, AND END SWITCH. SMOKE DETECTOR

ALUMINUM RETURN GRILLE WITH 3/4" BLADE SPACING. MAXIMUM CORE VELOCITY: 350 FPM. MAXIMUM NOISE CRITERIA: 25NC. GRILLE SHALL HAVE 2" FILTER FRAME WITH 1/4 TURN FASTENER. FINISH, COLOR SELECTED BY ARCHITECT. 4-WAY DEFLECTION. 23.75" x 23.75 MODULE SIZE WITH 20" x 20" NOMINAL DUCT SIZE. ALL REGISTERS

SHALL BE EQUIPPED WITH OPPOSED BLADE VOLUME DAMPER. PROVIDE (2) 2" MERV 11 FILTERS PER RETURN

THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING UL APPROVED ANGLES, WALL

HIGH EFFICIENCY LARGE WET ROTOR CIRCULATOR WITH ELECTRONIALLY COMMUTATED PERMENANT MAGNET MOTOR. PUMP SHALL HAVE CAPACITY OF 20.0 GPM. PUMP SHALL HAVE TOTAL DYNAMIC HEAD OF 35'. PREMIUM

DISCONNECT SWITCH. DISCONNECT SWITCH SHALL BE PURCHASED BE MECHANICAL CONTRACTOR AND INSTALLED

EFFICIENCY MOTOR SHALL BE 1 HP. ELECTRICAL: 208V/1ø/60Hz. PUMP SHALL BE FURNISHED WITH A NEMA 1

1-1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS

SLEEVE, AND BREAKAWAY CONNECTIONS. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000

NECK SIZE:

CFM RANGE:

0-100 ——> 6"Ø

101-200 ——≫ 8"Ø

201-300 ——> 10"Ø

CFM RANGE: NECK SIZE:

0-150 — > 8"x8"

251-360 —>> 12"x12"

361-725 — **→** 18"x18"

726-1125 ——≫ 24"x24"

SYMBOL MANUFACTURER CATALOG#

KRUEGER

RUSKIN

KRUEGER

KRUEGER

RUSKIN

CD-A

SD

ER-A RR-A

RR-B

P-2A

P-2B

BELL AND

GOSSET

ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE



285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM



GA23012 NY SED PROJECT CONTROL NO:

44-90-00-00-8-035-009

CONSTRUCTION DOCUMENTS

NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KAEYER, GARMENT, & DAVIDSON ARCHITECTS, PC (KG&D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF (KG&D).
WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN, SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION

OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW.

Professional Seal

COPYRIGHT KAEYER, GARMENT + DAVIDSON ARCHITECTS & ENGINEERS, PC ALL RIGHTS RESERVED. UNAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

04/24/24 BID ISSUE 1 08/21/23 CON DOCS - NYSED

> **MECHANICAL: EQUIPMENT SCHEDULES**

Date

2023-1011 02/03/2023 Orawn / Checked AS NOTED DC/RL SZ/WH

Sheet Number