

LOW PRESSURE HOT WATER CONDENSING BOILER SCHEDULE																											
UNIT TAG	LOCATION	SERVICE	UNIT TYPE	RATED CAPACITY			WATER CONDITIONS					BOILER INPUT - FIRING RATE					ELECTRICAL				INTAKE/ EXHAUST VENT SIZE (IN)	EFFICIENCY (%)	WEIGHT (LBS)	DIMENSIONS (WxDxH)	MANUFACTURER	MODEL #	COMMENTS
				BOILER HORSEPOWER (BHP)	INPUT (MBH)	OUTPUT (MBH)	OPERATING PRESSURE (PSIG)	FLOW RATE (GPM)	PRESURE DROP (FT)	ENTERING WATER TEMP (F)	LEAVING WATER TEMP (F)	FUEL OIL		GAS			V/PH/Hz	FLA	MCA	MOCp							
												TYPE	FLOW RATE (GPH)	TYPE	MIN/MAX PRESSURE (IN W.C.)	FLOW RATE (CFH)											
B-1-1	BOILER ROOM	SPACE HEATING	FIRETUBE	45	1500	1395	45	250	6.47	130	150	N/A	N/A	NG	4/14	1500	120/1/60	-	16	20	6/6	87	1406	28"x44"x78"	AERCO	BMK 1500	SEE BELOW
B-1-2	BOILER ROOM	SPACE HEATING	FIRETUBE	45	1500	1395	45	250	6.47	130	150	N/A	N/A	NG	4/14	1500	120/1/60	-	16	20	6/6	87	1406	28"x44"x78"	AERCO	BMK 1500	SEE BELOW
LOW PRESSURE HOT WATER CONDENSING BOILER SCHEDULE NOTES TYP (U.O.N.):																											
1. FURNISH & INSTALL SINGLE POINT ELECTRICAL CONNECTION WITH CIRCUIT BREAKER DISCONNECT.																											
2. FURNISH & INSTALL C-MORE CONTROLLER WITH BST FOR BOILER LEAD/LAG CONTROL & BACNET IP & MS/TP COMMUNICATION.																											
3. FURNISH & INSTALL CONDENSATE PH TREATMENT KIT FOR EACH BOILER.																											
4. FURNISH & INSTALL ALL INTAKE & VENT PIPING AS SHOWN ON MECHANICAL PLANS.																											
5. UNIT SHALL BE FACTORY MUTUAL (FM GLOBAL) CERTIFIED AND UL APPROVED.																											
6. FURNISH & INSTALL WALL-MOUNTED MSA TAMPER-PROOF EMERGENCY BOILER PLANT SHUTDOWN SWITCH OR EQUIVALENT AS SHOWN ON MECHANICAL PLANS.																											
7. FURNISH & INSTALL ELECTRONIC PILOT.																											
8. UNIT SHALL BE IN ACCORDANCE WITH ASME SECTION IV & PRESSURE VESSEL CODE.																											
9. EXHAUST VENT PIPING TO BE DOUBLE-WALL AL29-4C OR EQUIVALENT..																											
10. REFER TO SPECIFICATIONS FOR MORE INFORMATION.																											

HOT WATER FINNED TUBE RADIATOR SCHEDULE																								
UNIT TAG	LOCATION	SERVICE	HEATING CAPACITY (BTU/FT)	WATER-SIDE								RADIATOR								MANUFACTUER	MODEL #	COMMENTS		
				FLUID TYPE	% GLYCOL	FLOW (GPM)	ROWS HIGH	WATER PD (FT)	HWS TEMP (F)	HWR TEMP (F)	CONNECTION INLET/OUTLET (IN)	TUBE MATERIAL	TUBE DIAMETER (IN)	FIN MATERIAL	FIN SIZE (IN)	FIN THICKNESS (IN)	FINS PER FT	ENCLSOURE HEIGHT (IN)	MOUNTING HEIGHT (IN)				LENGTH (FT)	
FTR-A	SEE PLAN	SPACE HEATING	484.0	WATER	30	4.0	1	0.17	150.0	130.0	3/4	COPPER	3/4	ALUMINUM	3x3-1/4	0.024	48	14	8	4'-0"	SLANT FIN	350-14	SEE BELOW	
FTR-B	SEE PLAN	SPACE HEATING	484.0	WATER	30	4.0	1	0.26	150.0	130.0	3/4	COPPER	3/4	ALUMINUM	3x3-1/4	0.024	48	14	8	6'-0"	SLANT FIN	350-14	SEE BELOW	
FTR-C	SEE PLAN	SPACE HEATING	484.0	WATER	30	4.0	1	0.35	150.0	130.0	3/4	COPPER	3/4	ALUMINUM	3x3-1/4	0.024	48	14	8	8'-0"	SLANT FIN	350-14	SEE BELOW	
FTR-D	SEE PLAN	SPACE HEATING	455.0	WATER	30	1.0	1	0.35	150.0	130.0	3/4	COPPER	3/4	ALUMINUM	3x3-1/4	0.024	48	14	8	2'-0"	SLANT FIN	350-14	SEE BELOW	
HOT WATER FINNED TUBE RADIATOR SCHEDULES NOTES TYP (U.O.N.):																								
1. FURNISH & INSTALL ALL PIPING TRIM AS DETAILED ON MECHANICAL FLOW DIAGRAM & DETAILS.																								
2. ALL FINNED TUBE RADIATOR ENCLOSURES TO EXTEND WALL-TO-WALL UNLESS OTHERWISE NOTED; CONTRACTOR TO FIELD VERIFY FINAL ENCLOSURE LENGTH PRIOR TO RELEASE.																								
3. MECHANICAL CONTRACTOR SHALL CONSULT MECHANICAL NEW WORK PLANS FOR QUANITY & LOCATION.																								
4. CONTRACTOR SHALL FURNISH & INSTALL RADIATOR VALVE COVER SECTIONS FOR ALL PIPING TRIM SECTIONS AS REQUIRED; COORDINATE QUANTITIES WITH MECHANICAL FLOW DIAGRAMS.																								
5. FURNISH NU-WHITE FINISH.																								
6. REFER TO SPECIFICATIONS FOR MORE INFORMATION.																								

HOT WATER UNIT HEATER SCHEDULE																									
UNIT TAG	LOCATION	SERVICE	TOTAL HEATING (MBH)	WATERSIDE							AIRSIDE				ELECTRICAL			MOUNTING HEIGHT (FT)	ORIENTATION	THROW (FT)	WEIGHT (LBS)	DIMENSIONS (WxDxH)	MANUFACTUER	MODEL #	COMMENTS
				FLUID TYPE	% GLYCOL	FLOW (GPM)	WATER PD (IN FT)	HWS TEMP (F)	HWR TEMP (F)	CONNECTION INLET/OUTLET (IN)	FAN HP	RPM	AIRFLOW (CFM)	EAT/LAT (F)	V/PH/Hz	FLA	MCA								
HWUH-A	SEE PLAN	SPACE HEATING	10.7	WATER	30	1.7	0.01	150.0	130.0	3/4	0.1	1100	330	60/107	120/1/60	0.40	15	7'-0"	VERTICAL	16'-0"	44.0	17"x19"x17"	REZNOR	WS-22/33	SEE BELOW
HWUH-B	SEE PLAN	PLENUM HEATING	8.2	WATER	30	1.3	0.01	150.0	130.0	3/4	0.1	1100	270	60/104	120/1/60	0.30	15	9'-0"	VERTICAL	16'-0"	37.0	17"x19"x17"	REZNOR	WS-18/24	SEE BELOW
HWUH-C	SEE PLAN	SPACE HEATING	27.7	WATER	30	3.2	0.08	150.0	130.0	1-1/4	0.1	1100	560	60/113	120/1/60	0.60	15	10.0	VERTICAL	18'-0"	49.0	19"x19"x19"	REZNOR	WS-44/62	SEE BELOW
HOT WATER UNIT HEATER SCHEDULES NOTES (TYPICAL U.O.N.):																									
1. FURNISH & INSTALL ALL PIPING TRIM AS DETAILED ON MECHANICAL FLOW DIAGRAM & DETAILS.																									
2. FURNISH & INSTALL STEEL COILS WITH ALUMINUM FINS.																									
3. FURNISH & INSTALL HEAVY DUTY LINE VOLTAGE THERMOSTAT WITH GUARD COVER FOR EACH UNIT HEATER.																									
4. FURNISH & INSTALL 1" DEFLECTION SPRING HANGERS FOR EACH UNIT HEATER; MASON INDUSTRIES TYPE 30N OR EQUIVALENT.																									
5. FURNISH & INSTALL WALL-MOUNT BRACKET OR CEILING-HUNG HANGING KIT; REFER TO MECHANICAL PLANS FOR INFORMATION.																									
6. REFER TO SPECIFICATIONS FOR MORE INFORMATION.																									

PUMP SCHEDULE																			
UNIT TAG	LOCATION	SERVICE	TYPE	FLOW (GPM)	FLUID TYPE	TOTAL HEAD (FT)	SUCTION CONNECTION (IN)	DISCHARGE CONNECTION (IN)	IMPELLER DIAMETER (IN)	EFFICIENCY (%)	RPM	MOTOR				WEIGHT (LBS)	MANUFACTURER	MODEL #	COMMENTS
												BHP	HP	ELECTRICAL (V/PH/Hz)	VFD				
HWP-1-1&2	1ST FLOOR	BUILDING HW	VERTICAL INLINE	145.6	30% PG	150.0	3.00	3.00	-	65.6	1,750	8.49	10	460/3/60	YES	418	BELL & GOSSETT	46SV9/2	SEE BELOW
PUMP SCHEDULES NOTES TYP (U.O.N.):																			
1. FURNISH & INSTALL VARIABLE FREQUENCY DRIVE WITH DOOR CIRCUIT BREAKER DISCONNECT; ABB ACH580-PCR-014A-4+E213+K465.																			
2. FURNISH & INSTALL INERTIA BASE CONCRETE PAD UNDER EACH PUMP.																			
3. FURNISH CLASS 125 PUMP FLANGE RATING.																			
4. REFER TO SPECIFICATIONS FOR MORE INFORMATION.																			

PIPE MATERIAL SCHEDULE					
SERVICE	PIPE SIZE	MATERIAL	WEIGHT	STANDARD	JOINT TYPE
COLD CONDENSATE DRAINS & MISCELLANEOUS DRAINS	2" & BELOW	HARD COPPER	TYPE 'L'	ASTM A88	SOLDER
HOT WATER WITH GLYCOL	4" & BELOW	HARD COPPER	TYPE 'K'	ASTM B88	BRAZED
COLD WATER MAKEUP & FILL	4" & BELOW	HARD COPPER	TYPE 'L'	ASTM B88	BRAZED
PIPING TO GAUGES	ALL	RED BRASS	STANDARD	ASTM B43	THREADED
GAS (FINAL EQUIPMENT CONNECTIONS)	ALL	BLACK STEEL	SCHEDULE 40	ASTM A53 OR A106 SEAMLESS GRADE B	THREADED
PIPE MATERIAL SCHEDULE NOTES:					
1. REFER TO MECHANICAL SPECIFICATIONS FOR MORE INFORMATION					

PIPE FITTING SCHEDULE				
PIPE MATERIAL	PIPE SIZE	JOINT TYPE	FITTING MATERIAL	FITTING CLASS
BLACK STEEL	2" & SMALLER	THREADED FLANGE	CAST IRON	125 PSIG
COPPER TUBING (HARD DRAWN)	4" & SMALLER	BRAZED	WROUGHT COPPER OR CAST COPPER	300 PSIG @ 100F & 150 PSIG & 250F
RED BRASS	ALL SIZES	THREADED	CAST BRONZE	125 PSIG & 250 PSIG
PIPE FITTING SCHEDULE NOTES:				
1. REFER TO MECHANICAL SPECIFICATIONS FOR MORE INFORMATION				

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :

CHECKED BY :

APPROVED BY :

DATE :

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