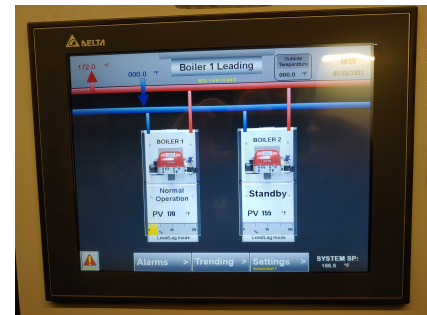




**MOODY BIBLE INSTITUTE
CHICAGO, IL**



**(5) 5,000 MBH RIELLO RTC CONDENSING BOILERS
(1) Massimo Control Panel**

SHEET TAG		HOT WATER BOILERS (B) - PRE-PURCHASED BY OWNER														ELECTRICAL		NOTES				
NO.	LOC.	DESCRIPTION	MANUFACTURER	MODEL	TYPE	OPERATING WEIGHT (LBS)	DIMENSIONS (HxWxD)	WATER VOLUME (GAL)	HEAT EXCHANGER TYPE	FLUE GAS INLET DIAMETER (IN)	FLUE GAS OUTLET DIAMETER (IN)	GAS PLENUM PRESSURE (INCH)	NET INPUT (MMBtu/hr)	OPERATING EFFICIENCY (%)	HEATING RATIO	CFM (70)	CVT (70)	NET MAX FLOW (GPM)	PRESSURE DROP (PSI)	VOLTS	PHASE	NOTES
0	3	COLBERTSCH BOILER ROOM	RIELLO	RTC	CONDENSING	11,802	107 1/2 x 42 3/8 x 38 5/8	400	14	14	2	8,100	94	101	170	130	0.485	0.4 AT 500 GPM	400	61	3	800 BELOW
B	8	COLBERTSCH BOILER ROOM	RIELLO	RTC	CONDENSING	11,802	107 1/2 x 42 3/8 x 38 5/8	400	14	14	2	8,100	94	101	170	130	0.485	0.4 AT 500 GPM	400	61	3	800 BELOW
B	9	COLBERTSCH BOILER ROOM	RIELLO	RTC	CONDENSING	11,802	107 1/2 x 42 3/8 x 38 5/8	400	14	14	2	8,100	94	101	170	130	0.485	0.4 AT 500 GPM	400	61	3	800 BELOW

NOTES:
 1. PURCHASE WITH OWNER'S DESIGN FOR AN INTEGRATION WITH EXISTING AUTOMATION SYSTEMS.
 2. MANUFACTURER'S GAS TRAINING AND LOGIC TYPE GAS PRESSURE REGULATOR (GATED) LOCATED.
 3. PURCHASE WITH MANUFACTURER PROVIDED OWNER'S MANUAL & EQUIP. SUPPLY, TREATMENT, CONDENSATE, SUPPLY, LEAKAGE, TEMPERATURE, DEFROST, AND DEFROSTING.
 4. PURCHASE WITH MANUFACTURER PROVIDED OWNER'S WHITE CONDENSATE TRAP/VALVE/CONTROL UNIT.
 5. PROVIDE FACTORY CERTIFIED SETUP.
 6. MANUFACTURER PROVIDED 12 MONTHS PARTS AND LABOR WARRANTY.
 7. PURCHASE WITH 100 PSI MAXIMUM PRESSURE RELIEF VALVE (RATED FOR 100% CAPACITY OF BOILER).
 8. NO ITEM HAS BEEN PRE-PURCHASED BY OWNER. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING AND RECEIVING SHIPPED. IN CREATION PROVIDED HERE IS FOR REFERENCE AND COORDINATION PURPOSES.

Moody Bible Institute was in need of upgrading their central steam plant that had not been updated since the building was first constructed in the 1970's. As part of a multi-phase project, McCotter Energy Systems partnered with Elara Engineering to design the replacement hot water plant with 5) 5,000 MBH Riello RTC Condensing Boilers. The first phase consisted of demolishing one of three existing large Kewaunee steam boilers and installing two RTC-5,000's. Three more RTC-5,000's were installed in Phase 2, all within the footprint of a single Kewaunee boiler. The entire new Hot Water Plant will be running prior to decommissioning the remaining steam system, ensuring Moody Bible's central plant will have no downtime. The new RTC Central Plant will combine high-mass condensing boilers, 10:1 turn down Riello burners, and Massimo lead-lag controls to provide the Institute with a maximum efficiency plant.

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