


**NOTES:**

1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWING.
2. SHELL DRAIN VALVE AND CONDENSATE HOSE SHOULD BE ARRANGED TO PERMIT THE FLUIDS TO DRAIN FREELY, BY GRAVITY, TO A FLOOR DRAIN. RELIEF VALVE DISCHARGE SHOULD BE PIPED TO THE NEAREST FLOOR DRAIN. WHEN NO FLOOR DRAIN IS AVAILABLE, THE RELIEF VALVE DISCHARGE SHOULD BE PIPED VERTICALLY TO A HEIGHT 18" ABOVE THE FLOOR.
3. ALL (\*) ITEMS ARE INCLUDED SEPARATELY IN SHIPMENT.
4. LOCATE WATER INLET AND OUTLET FITTINGS (i.e.UNIONS, ELBOWS, ETC.) A MINIMUM OF 6" FROM HEATER FITTINGS, TO PREVENT INTERFERENCE WITH REMOVAL OF BOILER PANELS AND COVERS. ALL PIPING AND ELECTRIC CONNECTIONS (SERVICE SWITCHES, CONDUIT BOXES) SHOULD LIKEWISE BE 6" AWAY FROM SIDE PANELS.
4. REFER TO SMARTPLATE APPLICATIONS GUIDE FOR BUFFER TANK SIZING.
5. REFER TO SMARTPLATE INSTALLATION SP APP DRAWINGS FOR RECOMMENDED DOMESTIC PIPING INSTALLATION.
6. SYSTEM PUMP OR SYSTEM DESIGN MUST MAINTAIN BENCHMARK 5000/6000 BOILER(S) REQUIRED MINIMUM FLOW OF 75 GPM.
7. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
8. WHEN USING THE CONDENSATE NEUTRALIZER TANK, FOR PROPER CONDENSATE DRAINAGE, THE NEUTRALIZER TANK MUST BE INSTALLED IN A PIT OR THE BOILER AND THE CONDENSATE TRAP MUST BE ELEVATED TO THE CONCRETE PAD LEVEL. SEE CONDENSATE TANK INSTRUCTIONS TID-0074 FOR DETAILS.
9. REVIEW BENCHMARK GAS SUPPLY DESIGN GUIDE GF-2030 FOR GAS PIPING INSTALLATION INSTRUCTIONS.
10. USE OF BALANCING VALVES IS RECOMMENDED IF THE PIPING ARRANGEMENT IS NOT REVERSE RETURN.
11. HEADER SENSOR MUST BE INSTALLED BETWEEN 2 TO 10 FEET FROM JUNCTION AND FROM LAST UNIT.
12. DUAL RETURNS ARE OPTIONAL. FEATURE CAN BE SELECTED WHEN CONFIGURING A BOILER ORDER.

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<b>BENCHMARK® 5000/6000 MBH          REAR WATER RETURN MULTIPLE UNIT          INSTALLATION-CCP WITH 2 PORT BUFFER          TANK AND SMARTPLATE</b>			
DWN.BY	K.S.	DATE	092518
SCALE	NTS		
REV.BY	K.S.	DATE	062623
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