AT MAXIMUM BTU/HR INPUT, MAINTAIN MINIMUM GAS PRESSURE AT 4.0" W.C. MAX. GAS PRESSURE = 14" W.C.

* MANUAL GAS SHUTOFF
GAS REGULATOR (SEE NOTE 9)
ACS HEADER SENSOR
ACS PANEL
SYSTEM AIR SEPARATOR
SYSTEM PUMP
DIAPHRAGM TYPE EXPANSION TANK
PRESSURE REDUCING FILL VALVE
SHELL DRAIN VALVE
SYSTEM SUPPLY
WATER SUPPLY

RELIANCE VALVE
(Note 4)
SYSTEM RETURN
BUFFER TANK

NOTES:
1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWING.
2. SHELL DRAIN VALVE AND CONDENSATE TRAP 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.
5. REFER TO SMARTPLATE APPLICATIONS GUIDE, SP–1010, FOR BUFFER TANK SIZING.
6. REFER TO SMARTPLATE INSTALLATION DRAWINGS FOR RECOMMENDED DOMESTIC PIPING INSTALLATION: SD–A–772, SD–A–773, SD–A–774, SD–A–775, SD–A–776, SD–A–777
7. BOILER PUMP MUST MAINTAIN BENCHMARK BOILER(S) REQUIRED MINIMUM FLOW OF 40 GPM.
8. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
10. AT 14" W.C. OR BELOW, A GAS REGULATOR IS OPTIONAL UNLESS REQUIRED BY LOCAL CODE.