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

* CONDENSATE
DRAIN TRAP

SYSTEM RETURN

AUTOMATIC AIR
VENT

BUFFER TANK

RELIEF VALVE

(NOTE 4)

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. UNION, 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 PANEL.
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 BE SIZED TO PROVIDE THE APPROPRIATE FLOW AT THE DESIGN ΔT OF BOILER PLANT.
   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.
9. WHEN USING THE AERCO CONDENSATE NEUTRALIZER TANK, FOR PROPER CONDENSATE DRAINAGE, THE NEUTRALIZER TANK
   MUST BE INSTALLED IN A PIT OR THE BOILER AND THE AERCO CONDENSATE TRAP MUST BE ELEVATED HIGHER THAN 4"
   ABOVE THE FLOOR. SEE CONDENSATE TANK INSTRUCTIONS TID–0074 FOR DETAILS.
10. AT 14" W.C. OR BELOW, A GAS REGULATOR IS OPTIONAL UNLESS REQUIRED BY LOCAL CODE.