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 8)

HEAT EXCHANGER (SUPPLIED BY OTHERS) SHELL DRAIN VALVE SNOWMELT SYSTEM PUMP

NOTE 4)

RELIEF VALVE HEADER SENSOR (SEE NOTE 9)

2 TO 10 FEET (SEE NOTE 9) SYSTEM AIR SEPARATOR

SYSTEM PUMP CHECK VALVE

PRESSURE REDUCING FILL VALVE DIAPHRAGM TYPE EXPANSION TANK

WATER SUPPLY SYSTEM SUPPLY

RETURN/SUPPLY

HIGH TEMP. SYSTEM RETURN (i.e. 140°F)

LOW TEMP. SYSTEM RETURN (i.e. 100°F)

AUTOMATIC AIR VENT 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 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 LIK EISE 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

   BOILER PUMP MUST BE SIZED TO PROVIDE THE APPROPRIATE FLOW AT THE DESIGN ΔT OF BOILER PLANT. MAXIMUM ΔT ACROSS BOILER IS 100°F. BOILER PUMP MUST MAINTAIN BENCHMARK BOILER(S) REQUIRED MINIMUM FLOW OF 25 GPM.

7. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
8. AT 14" W.C. OR BELOW, A GAS REGULATOR IS OPTIONAL UNLESS REQUIRED BY LOCAL CODE.
9. HEADER SENSOR MUST BE INSTALLED BETWEEN 2 TO 10 FEET FROM JUNCTION AND FROM LAST UNIT.
10. THE SNOWMELT SYSTEM PUMP MAY BE ENABLED/DISABLED BY SNOWMELT SYSTEM CONTROL.