

NOTES:

- 1. SEE COMBINATION HEATING/DOMESTIC WATER HEATING APPLICATIONS GUIDE TAG-0050 AND WIRING DIAGRAM SD-A-884 FOR COMPLETE APPLICATION AND CONTROLS DETAILS.
- 2. THE ABOVE DIAGRAM DEPICTS THE COMBINATION HEATING/DOMESTIC WATER PIPING ONLY. FOR GAS PIPING AND THE REST OF THE WATER—SIDE PIPING DETAILS, REFER TO APPROPRIATE BENCHMARK BOILER INSTALLATION DRAWINGS.
- 3. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE BOILER, SEE APPROPRIATE BENCHMARK BOILER DIMENSIONAL DRAWING.
- 4. REFER TO SMARTPLATE APPLICATIONS GUIDE, SP-1010, FOR BUFFER TANK SIZING.
- 5. 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
- SU-A-7/2, SU-A-7/3, SU-A-7/4, SU-A-7/6, SU-A-7/6

 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:

 BMK 750-1000 12 GPM MINIMUM FLOW
 - BMK 1500-3000- 25 GPM MINIMUM FLOW BMK 5000-6000- 75 GPM MINIMUM FLOW
- 7. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
- 8. MOUNT THE AQUASTAT IMMEDIATELY DOWNSTREAM OF BUFFER TANK'S OUTLET PORT THAT SUPPLIES BOILER WATER TO THE SMARTPLATE.
- 9. THE SMARTPLATE PUMP SHALL BE OPERATED CONSTANTLY OR CONTROLLED BY THE BUILDING AUTOMATION SYSTEM.



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BENCHMARK BOILER/SMARTPLATE — COMBINATION HEATING/DHW PIPING WITH BOILER SIDE BUFFER TANK —DESIGNATED DHW BOILER(S) AND DESIGNATED BUILDING PRIORITY BOILER(S) APPLICATIONS

B2 - BLDG

PRIORITY (SWING)

HEATING MODE

HEATING MODE

HEATING MODE

HEATING MODE

CONSTANT

SETPOINT

B3 - DHW

PRIORITY

CONSTANT

SETPOINT

STANDBY

HEATING MODE

CONSTANT

SETPOINT

CONSTANT

SETPOINT

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