

- 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
- 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.
- 14. THE SMARTPLATE PUMP SHALL BE OPERATED CONSTANTLY OR CONTROLLED BY THE BUILDING AUTOMATION SYSTEM.
- 15. USE OF BALANCING VALVES IS RECOMMENDED IF THE PIPING ARRANGEMENT IS NOT REVERSE RETURN.



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BENCHMARK BOILER/SMARTPLATE — COMBINATION HEATING/DHW PIPING WITH BOILER SIDE BUFFER TANK —DESIGNATED DHW BOILER APPLICATIONS WITHOUT ACS RELAY BOX

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