


NOTES:

1. SEE COMBINATION HEATING/DOMESTIC WATER HEATING APPLICATIONS GUIDE TAG-0050 AND WIRING DIAGRAM SD-A-883 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  $\Delta T$  OF BOILER PLANT.  
BOILER PUMP MUST MAINTAIN BENCHMARK BOILER(S) REQUIRED MINIMUM FLOW:  
 BMK 750 - 40 GPM MINIMUM FLOW      BMK 2000 LN - 40 GPM MINIMUM FLOW  
 BMK 1000 - 40 GPM MINIMUM FLOW      BMK 3000 LN - 40 GPM MINIMUM FLOW  
 BMK 1.5 LN - 40 GPM MINIMUM FLOW      BMK 6000 LN - 75 GPM MINIMUM FLOW
7. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
8. INSTALL THE AQUASTAT IN THE BUFFER TANK SYSTEM SUPPLY PIPING.
9. THE SYSTEM PUMP SHALL BE OPERATED CONSTANTLY OR CONTROLLED BY THE BUILDING CONTROLS.
10. THE ACS HEADER SENSOR MUST BE LOCATED 2 TO 10 FEET FROM LAST UNIT.

 AERCO INTERNATIONAL, INC. <small>Blauvelt, NY 10913</small>	
<b>BENCHMARK BOILER/SMARTPLATE - COMBINATION HEATING/DHW PIPING WITH BOILER SIDE BUFFER TANK -TEMPERATURE BOOST APPLICATIONS</b>	
DWN.BY <u>K.S.</u> DATE <u>120612</u> SCALE <u>NTS</u> REV.BY <u>K.S.</u> DATE <u>120214</u>	REV. <u>C</u> <b>SD-A-912</b>