


	SWING VALVE 1	COMBINATION SYSTEM PUMP (NOTE 7)	B3 - DHW PRIORITY
Heating + DHW loads present	CLOSE	ON	CONSTANT SETPOINT
Heating load present (<100%); NO DHW	CLOSE	OFF	STANDBY
Heating load present (B1 & B2 = 100%); NO DHW	OPEN	OFF	HEATING MODE
Heating load present (B1 & B2 = 100%); DHW present	CLOSE	ON	CONSTANT SETPOINT

- NOTES:
- SEE COMBINATION HEATING/DOMESTIC WATER HEATING APPLICATIONS GUIDE TAG-0050 AND WIRING DIAGRAM SD-A-1179 FOR COMPLETE APPLICATION AND CONTROLS DETAILS.
 - 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.
 - FOR SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE BOILER, SEE APPROPRIATE BENCHMARK BOILER DIMENSIONAL DRAWING.
 - REFER TO SMARTPLATE INSTALLATION DRAWINGS FOR RECOMMENDED DOMESTIC PIPING INSTALLATION: SD-A-1198, SD-A-1199, SD-A-1200, SD-A-1201, SD-A-1202, SD-A-1203
 - 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.
 - THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
 - THE COMBINATION SYSTEM PUMP IS CONTROLLED BY EDGE, AS PER REFERENCE DRAWING SD-A-1179.
 - MODULATING BOILER VALVES CAN BE USED FOR SINGLE POINT BALANCING.

	100 ORITANI DRIVE BLAUVELT, NY 10913 aerco.com	
	BENCHMARK® PLATINUM W/ EDGE & BOILER/SMARTPLATE EV COMBINATION PLANT WITH ISOLATION VALVES, SWING VALVE & 4-PORT BUFFER TANK PIPING APPLICATION	
DWN. BY <u>K.S.</u> DATE <u>081120</u> SCALE <u>NTS</u> APPD. _____ DATE _____	SD-A-1209	REV. A