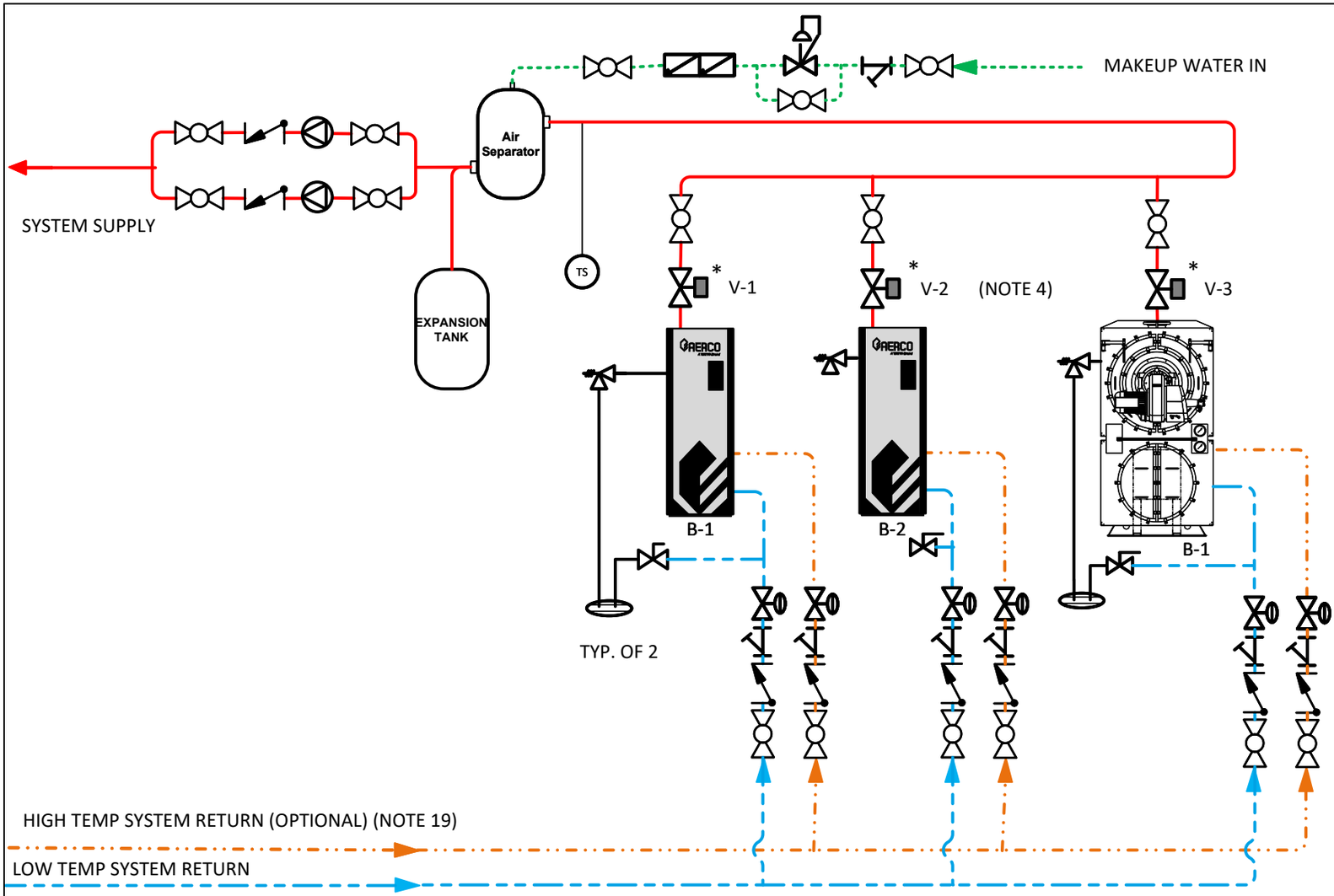


| Pipe Temp. | Line Type |
|---|---|
| CWR SPR | |
| HWS | |
| BP/HWR | |
| BWS | |

- Ball Valve
- Check Valve
- Drain Valve
- Strainer
- Pump
- Backflow Preventer
- Pressure Reducing Valve
- Pressure Relief Valve
- Floor Drain
- Temperature Sensor
- Balancing Valve
- Motorized/ Sequencing Valve

NOTES:
1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWING.
2. THE MFC II BOILER SERVES AS A BACKUP WHEN THE BENCHMARK BOILERS ARE OPERATING AT CLOSE TO MAXIMUM CAPACITY AND NEED ADDITIONAL HEAT TO MEET THE DEMAND.
3. IN THE EVENT ALL THE BENCHMARK BOILERS HAVE FAULTED, THE MFC II BOILER IS ACTIVATED. THIS SYSTEM UTILIZES THE RESERVE UNIT CONTROL OF THE BENCHMARK EDGE CONTROLLER TO ACTIVATE THE MFC II BOILER.
4. FOR INFORMATION ON BENCHMARK BOILER RESERVE UNIT CONTROL, CONSULT EDGE [II] CONTROLS MANUAL OMM-0139.
5. POWER OUTAGE DISRUPTS THE RESERVE UNIT CONTROL'S ABILITY TO ACTIVATE A BACKUP BOILER. FIELD CONTROLS SYSTEM SHALL BE DESIGNED TO ALLOW THE BUILDING GENERATOR TO OPERATE THE MFC II BOILER IN THE EVENT OF A POWER OUTAGE
6. SHELL DRAIN VALVE AND CONDENSATE HOSE SHOULD BE ARRANGED TO PERMIT THE FLUIDS TO DRAIN FREELY, BY GRAVITY, TO A FLOOR DRAIN. T&P RELIEF VALVE IS INSTALLED ON HOT WATER OUTLET AND MUST BE PIPED WITHIN 12" OF FLOOR WITH NO SHUTOFF VALVES OR RESTRICTION IN THE LINE; OR PER LOCAL CODE REQUIREMENTS. CONDENSATE DRAIN LINE WITH NEUTRALIZER PIPED TO FLOOR DRAIN NOT SHOWN.
7. RECOMMENDED TO TREAT/FILTER MAKEUP BOILER WATER FOR OPTIMAL PERFORMANCE.
8. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
9. 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 LIKEWISE BE 6" AWAY FROM SIDE PANELS.
10. WHEN USING A CONDENSATE NEUTRALIZER TANK, THE NEUTRALIZER TANK MUST BE INSTALLED IN A PIT OR THE HOUSEKEEPING PAD HEIGHT INCREASED TO ALLOW FOR PROPER DRAINAGE BY GRAVITY.
11. REFER TO INSTALLATION MANUAL AND APPLICATION GUIDES FOR AIR, GAS, AND CONDENSATE CONNECTIONS.
12. SEE CLEARANCE DIAGRAMS FOR APPROXIMATE INSTALLED FOOTPRINT WIDTH AND DEPTH.
13. THE FOLLOWING COMPONENTS SHALL BE FIELD SOURCED: CHECK VALVES, STRAINERS, BALL VALVES, BALANCING VALVES, PUMPS, EXPANSION TANK, BACKFLOW PREVENTER.
14. IF PERMITTED BY LOCAL CODES, A CHECK VALVE MAY BE USED IN PLACE OF A BACKFLOW PREVENTER.
15. ALL (*) COMPONENTS ARE OPTIONAL FOR INSTALLATION UNLESS OTHERWISE STATED PER LOCAL CODE REQUIREMENTS.
16. USE OF BALANCING VALVES IS RECOMMENDED IF THE PIPING ARRANGEMENT IS NOT REVERSE RETURN.
17. IF A SEQUENCING PANEL IS USED, HEADER SENSOR MUST BE INSTALLED BETWEEN 2 TO 10 FEET FROM THE LAST BOILER CONNECTION. RETURN HEADER SENSOR IS OPTIONAL.
18. BOILER SUPPLY TEMPERATURE MUST NOT RESET BELOW DHW HEATING WATER TEMPERATURE UNLESS USING A SEQUENCER WITH BOOST FUNCTIONALITY
19. OPTIONAL SECONDARY INLET CONNECTION, COMBINE RETURNS IF UNAVAILABLE
20. RECOMMENDED RATIO OF SYSTEM VOLUME TO INSTALLED BOILER VOLUME IS 1 GALLON PER 100 BTUS.

AERCO — Blauvelt, NY 10913

MFC II – SPACE HEATING BMK SPACE HEATING WITH MFC II BACKUP, PRIMARY VARIABLE

| DRWN BY. | DATE | DWG. NO: | REV. |
|---|---|---|---|
| CSC | 062426 | SD-A-1395 | A |
| | | Page 1 of 1 | |