
# AERCO SD-A-1275 Boiler Multi Unit Instruction Manual



Contents



## AERCO SD-A-1275 Boiler Multi Unit


## Diagram Description

The diagram depicts several components connected by piping. Starting from the left, the components are labelled as follows:

- GAS INLET (with a note to see note 8)
- MANUAL GAS SHUTOFF
- GAS REGULATOR (also with a note to see note 8)
- VENT STARTER
- SHELL DRAIN VALVE
- CHECK VALVE
- SYSTEM RETURN
- CONDENSATE DRAIN TRAP
- RELIEF VALVE
- SEQUENCING VALVE (with a note to see note 4)
- HEADER SENSOR (2 to 10 feet, also with a note to see note 9)
- SYSTEM AIR SEPARATOR
- SYSTEM PUMP
- PRESSURE REDUCING FILL VALVE
- WATER SUPPLY
- DIAPHRAGM TYPE EXPANSION TANK
- SYSTEM SUPPLY

## Specifications

| Component | Details |
| --- | --- |
| Condensate Drain Trap | * Located at the bottom right of the diagram |
| Diaphragm Type Expansion Tank | * Positioned near the centre-right of the schematic |
| Pressure Reducing Fill Valve | * Found adjacent to the Water Supply line |
| System Pump | * Directly connected to the System Air Separator |

**Installation Notes**

- For actual sizes and locations of piping and other connections to the heater, see dimensional drawing.
- Shell drain valve and condensate hose should be arranged to permit the fluids to drain freely by gravity, to a floor drain. Relief valve discharge should be piped to the nearest floor drain. When no floor drain is available, the relief valve discharge should be piped vertically to a height of 18″ above the floor.
- All (*) items are included separately in the shipment.
- Locate water inlet and outlet fittings (i.e., unions, elbows, etc.) a minimum of 6″ from heater fittings, to prevent interference with the removal of boiler panels and covers. All piping and electric connections (service switches, conduit boxes) should likewise be 6″ away from side panels.
- The boiler pump must be sized to provide the appropriate flow at the design of the boiler plant. Maximum at across boiler is 10°F. The boiler pump must maintain the core flow (Qr) required at a minimum flow of 25 GPM.
- This is a typical installation drawing. Local codes and authorities should be consulted.
- When using the aero condensate neutralizer tank, for proper condensate drainage, the neutralizer tank must be installed in a pit or on the boiler and the aero condensate trap must be elevated 4″ or higher above the floor. See complete tank instructions 10-0074 for details.
- Review boiler gas supply information guide Tag-010 for gas piping installation instructions.
- Header sensor must be installed between 2 to 10 feet from a junction and from the last unit.
- Consult Aero for additional information or different design conditions.
- The use of balancing valves is recommended if the piping arrangement is not reverse returned.

## FAQ

What is the minimum distance required for water inlet and outlet fittings from heater fittings?

A minimum of 6 inches is required to prevent interference with removal of boiler panels and covers.

How should the shell drain valve and condensate hose be arranged?

They should be arranged to permit the fluids to drain freely by gravity to a floor drain.

What should be done if there is no floor drain available for the relief valve discharge?

The relief valve discharge should be piped vertically to a height of 18 inches above the floor.

Is it necessary to consult local codes and authorities for boiler installation?

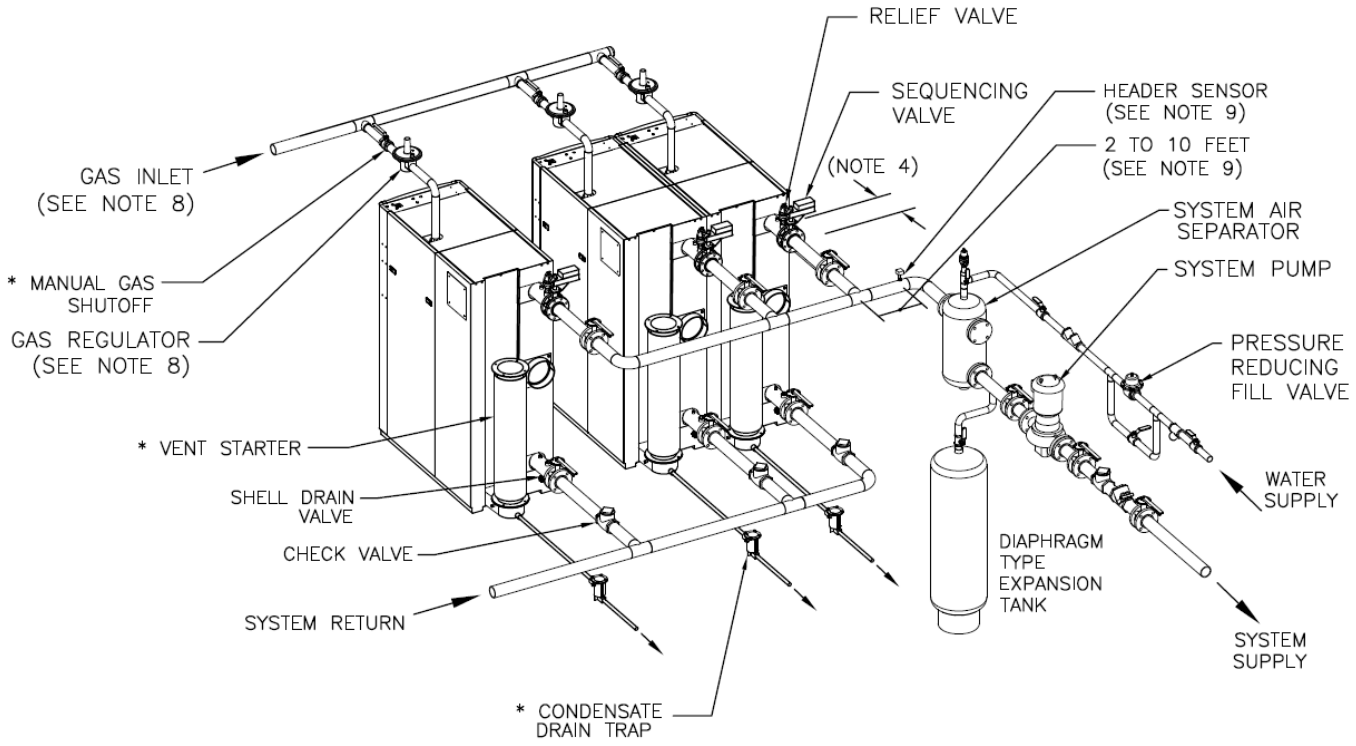
Yes, this is a typical installation drawing and local codes and authorities should be consulted.

How high must the aero condensate trap be elevated above the floor?

The aero condensate trap must be elevated 4 inches or higher above the floor.

For additional information or different design conditions, consult Aero. The drawing is provided by AERCO, 100 Oritani Drive, Blauvelt, NY 10913, [www.aerco.com](http://www.aerco.com). The drawing number is SD-A-1276 A, and the revision date is 051723.

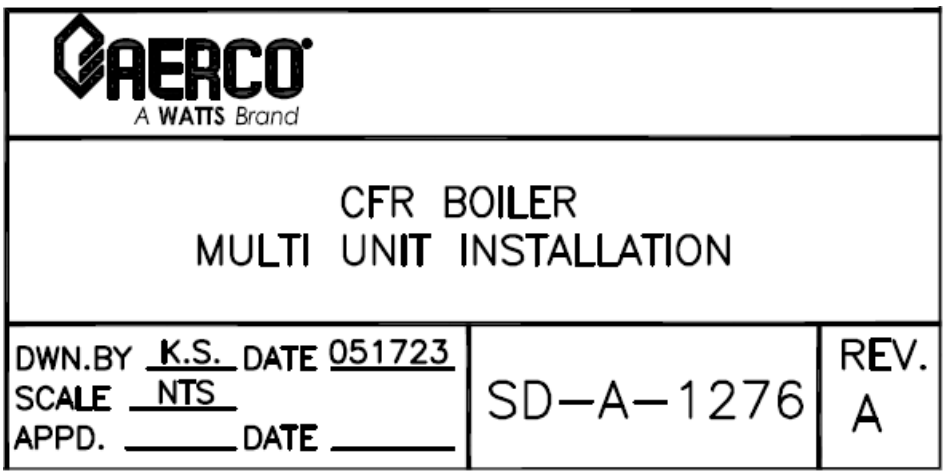
**OVERVIEW**



## INSTRUCTIONS

### NOTES

1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWING.
2. SHELL DRAIN VALVE AND CONDENSATE HOSE SHOULD BE ARRANGED TO PERMIT THE FLUIDS TO DRAIN FREELY, BY GRAVITY, TO A FLOOR DRAIN. RELIEF VALVE DISCHARGE SHOULD BE PIPED TO THE NEAREST FLOOR DRAIN. WHEN NO FLOOR DRAIN IS AVAILABLE, THE RELIEF VALVE DISCHARGE SHOULD BE PIPED VERTICALLY TO A HEIGHT 18″ ABOVE THE FLOOR.
3. ALL (*) ITEMS ARE INCLUDED SEPARATELY IN SHIPMENT.
4. 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.
5. THE BOILER PUMP MUST BE SIZED TO PROVIDE THE APPROPRIATE FLOW AT THE DESIGN OF THE BOILER PLANT. MAXIMUM AT ACROSS ROILER IS 100ºF ROILER PIMP MIIST MAINTAIN CER ROLLERS) REQUIRED MINIMUM FI OW OF 25 GPM.
6. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
7. WHEN USING THE AERCO CONDENSATE NEUTRALIZER TANK, FOR PROPER CONDENSATE DRAINAGE, THE NEUTRALIZER TANK MUST BE INSTALLED IN A PIT OR THE BOILER AND THE AERCO CONDENSATE TRAP MUST BE ELEVATED 4″ OR HIGHER ABOVE THE FLOOR. SEE CONDENSATE TANK INSTRUCTIONS TID-0074 FOR DETAILS.
8. REVIEW CFR BOILER GAS SUPPLY DESIGN GUIDE TAG-0106 FOR GAS PIPING INSTALLATION INSTRUCTIONS.
9. HEADER SENSOR MUST BE INSTALLED BETWEEN 2 TO 10 FEET FROM THE JUNCTION AND THE LAST UNIT.
10. CONSULT AERCO FOR ADDITIONAL INFORMATION OR DIFFERENT DESIGN CONDITIONS.
11. USE OF BALANCING VALVES IS RECOMMENDED IF THE PIPING ARRANGEMENT IS NOT REVERSE RETURN.



## Documents / Resources

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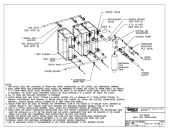
|  | **AERCO SD-A-1275 Boiler Multi Unit** [pdf] Instruction Manual<br>SD-A-1275 Boiler Multi Unit, SD-A-1275, Boiler Multi Unit, Multi Unit |

## References

- **User Manual**