

Please complete **ONE (1) form for each SITE** and return to AERCO for warranty validation within 30 days of start-up. After completion, e-mail this form to Startup@AERCO.COM.

Completed By: _____ Date: _____

Site Location

Installation Name: _____ Technician: _____
 Street Address: _____ Company: _____
 City, State, Zip: _____ Phone #: _____
 AERCO Sales Rep: _____

Equipment Classification

Unit Type **Serial Numbers of All Units** (add additional in Notes if needed)

CFR 1500 _____
 CFR 3000 _____

General Installation

1. Is the condensate disposal system adequately sized and does it drain properly? Yes No
2. Is the condensate disposal system installed in accordance with the AERCO OMM? Yes No
3. Is the relief valve piped to drain or within 12" of floor? Yes No
4. Is there an electrical service switch at or near the unit? Yes No
5. Does electrical conduit, ductwork or piping impede access to or serviceability of the unit? Yes No
6. Is there an adequately sized condensate neutralizer kit installed? Yes No
7. Have all electrical components been verified for proper grounding? Yes No
8. Have all communication wires been properly shielded? Yes No
9. Are all units installed in accordance with the clearances defined in the OMM?
If not, why not? Yes No
10. Is the Header Sensor installed 2-10 feet from the last boiler? Yes No

Gas Supply

The questions below are related to information in the CFR Gas Supply Design Guide, TAG-0106.

1. Type of Gas Supply: Natural Gas (NG)
2. Are external gas supply regulators installed in accordance with the OMM? Yes No
If not, please confirm Natural Gas pressure: _____
3. What is the make and model number of the external gas supply regulators?
Make: _____ Model: _____
4. What is the static gas supply pressure to the external supply regulator? _____

5. Were the external gas supply regulators supplied by AERCO? Yes No
If not, please attach regulator specification sheet to this form.
6. Are external gas vent regulator lines installed per local code & manufacturer's requirements? Yes No
7. What is the size & length of the Natural Gas supply header? _____
8. Are there any other appliances connected to the gas supply line? Yes No
If Yes, please indicate the total BTU connected load: _____
9. Is the gas supply system installed in accordance with TAG-0106? Yes No

Venting

The questions below are related to the information in the CFR Venting and Combustion Air Guide, TAG-0105

1. What is the total vent length run? _____
a. What is the total number of elbows in the ducting? 30° _____ 45° _____ 90° _____
b. Are all elbows spaced 5 feet apart and 2 feet from the starter piece on the first elbow? Yes No
2. Is the vent pitched back toward the boiler (1/4" per ft. length) per the Venting Guide? Yes No
3. Venting material used: Type B Double-Wall Lined Chimney Single-wall metal pipe
4. Venting manufacturer: _____
5. Venting configuration (check all that apply): Individual Vent Sidewall Termination
 Roof Termination Damper/Fan Breeched/Common (Units Vented Together)
6. Does the layout (overall length, pressure drop, breeching calculations, vent pipe wall thickness, etc.) comply with TAG-0105 and the latest edition of NFPA54? Yes No
7. Is the factory supplied flange starter piece installed? Yes No
8. Is a barometric damper installed? Yes No
If Yes, please specify size of damper: _____

Combustion Air

The questions below are related to the information in the CFR Venting and Combustion Air Guide, TAG-0105

1. Combustion air supplied through (check all that apply):
 Louvers to outside wall vent Horizontal ducting Direct or Ducted Combustion Air
 Louvers to another room Vertical ducting Combustion Air Fan
2. What is the size of the ducting to individual units? _____
a. What is the size of the common ducting, if applicable? _____
b. What is the size of louvered opening? _____
3. Are there any draft inducers, combustion air fans or draft controllers on site? Yes No
a. If Yes, list all that apply: _____
b. Explain configuration: _____
4. Does the layout (overall length, pressure drop, breeching etc.) comply with TAG-0105? Yes No

Hydronic Installation

1. If there are multiple units, are the units piped "reverse-return"? Yes No
2. Are balancing valves or circuit setters installed? Yes No
3. Are motorized isolation valves installed? Yes No
4. What are the maximum/minimum design flow rates through the unit? Max: _____ GPM Min: _____ GPM
 a. Were the maximum & minimum flow rates verified? Yes No
5. Is the **remote interlock** connection on the Edge Controller utilized? Yes No
 Please list all devices connected to remote interlock: _____
6. Is the **delayed interlock** utilized & receiving external power? Yes No
 Please list all devices connected to delayed interlock: _____
7. Is the system (check all that apply):
 Variable Flow System Reverse Return Primary/Secondary Pumping Combination Control
 Other (please specify): _____
8. What is the design system flow rate? _____ GPM
9. What is the design plant delta T? _____ °F
10. What ancillary components are connected to the I/O board of Manager, Backup Manager and Clients?

Mode of Operation

Individual Unit Control (select one)

- | | |
|--|--|
| <input type="checkbox"/> Remote Set Point (Analog) | <input type="checkbox"/> Constant Setpoint |
| <input type="checkbox"/> Remote Set Point (Network/MODBUS) | <input type="checkbox"/> Combination Boiler/Water Heater |
| <input type="checkbox"/> Direct Drive | <input type="checkbox"/> ACS (see below) |
| <input type="checkbox"/> Indoor/Outdoor Reset | <input type="checkbox"/> BST (see below) |

If BST or ACS is used, the mode of operation is (choose one):

- | | |
|---|--|
| <input type="checkbox"/> Constant Setpoint | <input type="checkbox"/> Combination Control Panel (CCP) |
| <input type="checkbox"/> Indoor/Outdoor Reset | <input type="checkbox"/> Network (MODBUS) |
| <input type="checkbox"/> Combination Plant (Space Heating/DHW - BST Only) | |

If Network (MODBUS) is chosen above, the network type is (choose one):

- Gateway ProtoNode Other (please specify): _____

If Building Automation System (BAS) Protocol is in use (choose one):

- Johnson Controls – N2 LonWorks
- BACNet (choose one):
 IP (ProtoNode Only) PTP IP MS/TP

Summary

1. Is the boiler plant installed per AERCO guidelines and industry best practices? Yes No
 - a. If No, please describe issues: _____

 - b. Who has been contacted? Please provide name & number for each person contacted (check all that apply)
 - AERCO Applications Engineer: _____
 - Mechanical Contractor: _____
 - Design Engineer: _____
 - Controls Engineer: _____
 - General Contractor: _____
 - Building Owner: _____
 - Plumber: _____
 - Electrician: _____

 2. Is there any conflict between installation & Engineer's Specification or Design Plans? Yes No
 - a. If Yes, please describe issues: _____

 - b. Who has been contacted? Please provide name & number for each person contacted (check all that apply)
 - AERCO Applications Engineer: _____
 - Mechanical Contractor: _____
 - Design Engineer: _____
 - Controls Engineer: _____
 - General Contractor: _____
 - Building Owner: _____
 - Plumber: _____
 - Electrician: _____

 3. Are there any conflicts or physical restrictions that will prevent the boiler plant from receiving proper preventative maintenance in the future? Yes No
 - a. If Yes, please describe issues: _____

 - b. Who has been contacted? Please provide name & number for each person contacted (check all that apply)
 - AERCO Applications Engineer: _____
 - Mechanical Contractor: _____
 - Design Engineer: _____
 - Controls Engineer: _____
 - General Contractor: _____
 - Building Owner: _____
 - Plumber: _____
 - Electrician: _____

 4. Please outline exceptions granted by AERCO Applications Engineering for this installation, if any:

- AERCO Applications Engineering sign-off (if necessary): _____

Notes