AM SERIES BOILER INSTALLATION FORM

*Please complete **one (1) form for each SITE** containing AM Series **BOILERS**. 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:** _____

Location

Installation Name: _____ SST Technician: _____

Street Address: _____ Company: _____

City, State, Zip: _____ Phone #: _____

AERCO Sales Rep: _____

Registered Equipment Classification

	☐ 399B	☐ 500B	☐ 750B	☐ 1000B
Serial #s				
(Add additional				
in Notes if				
needed)				

General Installation

1.	Is the relief valve piped to drain or within 12" of floor?	☐ Yes	☐ No
2.	Is the condensate disposal system adequately sized and does it drain properly?	☐ Yes	☐ No
3.	Is the condensate disposal system installed in accordance with the instructions in the latest version of the AERCO O&M?	☐ Yes	☐ No
4.	Is there an electrical service switch at the unit?	☐ Yes	☐ No
5.	Is there any electrical conduit or piping attached to the unit's sheet metal?	☐ Yes	☐ No
6.	Does any electrical conduit, ductwork or piping impede the serviceability of the unit or the ability to remove the sheet metal covers?	☐ Yes	☐ No
7.	Is there an adequately sized condensate neutralizer kit installed?	☐ Yes	☐ No
	a. If No, why not? _____		
8.	Have all electrical components been verified for proper grounding?	☐ Yes	☐ No
9.	Has all communication wire been properly shielded?	☐ Yes	☐ No
10.	Does condensate gravity drain?	☐ Yes	☐ No
11.	Is a condensate pump used?	☐ Yes	☐ No

Boiler Gas Supply

The questions below are related to the information in the AM Series Gas Supply Application Guide, GF-146-G

1. Type of Gas Supply: ☐ Natural Gas ☐ Propane
2. What is the static gas supply pressure to the boiler? _____
3. If the static pressure is more than 13" WC, is an external gas supply regulator installed? ☐ Yes ☐ No
4. What is the static gas supply pressure to the external supply regulators? _____
5. What is the make and model number of the external gas supply regulator? Make _____
   Model _____
6. Are the external gas supply vent regulator lines installed per local code & manufacturer's requirement? ☐ Yes ☐ No
7. If this is a lock-up style external regulator, what is the size of the orifice? _____
8. The external gas supply vent regulator lines are: ☐ Individually run
   ☐ Manifolded together with other regulator vent lines
9. What is the BTU content of the gas? _____
10. What is the size of the gas supply header? _____
11. What is the length of gas pipe from the main meter? _____
12. Are there any other appliances connected to the gas supply line? ☐ Yes ☐ No
    a. If Yes, please indicate the total BTU connected load: _____ MBH
13. Is the gas supply system installed in accordance with the AM Series Gas & Supply Application Guide, GF-146-G ☐ Yes ☐ No

Venting

The questions below are related to the information in the AM Series Venting Application Guide, GF-146-V

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 sealed with RTV? ☐ Yes ☐ No
3. Is the vent pitched back toward the boiler (1/4" per ft. length) per the AM Series Venting Guide? ☐ Yes ☐ No
4. Venting material used is (choose one): ☐ AL29-4C ☐ Polypropylene ☐ PVC ☐ cPVC
5. Please describe venting configuration (check all that apply):
   ☐ Individual Vent ☐ Sidewall Termination ☐ Atmosphere (Natural Draft) ☐ 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 GF-146-V? ☐ Yes ☐ No

Combustion Air

The questions below are related to the information in the AM Series Venting Application Guide, GF-146-V

1. Combustion air supplied through (check all that apply):
   - ☐ Louvers to outside wall
   - ☐ 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 calculations, etc.) comply with GF-146-V? ☐ 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 minimum/maximum design flow rates through the unit? Min: _____ GPM, Max: _____ GPM
   a. Were the maximum & minimum flow rates verified? ☐ Yes ☐ No
5. Is the system (check all that apply):
   - ☐ Water Source Heat Pump
   - ☐ Primary/Secondary Pumping
   - ☐ Other _____
   - ☐ A Variable Flow System
   - ☐ Used for Reheat
   - ☐ Reverse Return
   - ☐ Combination Control
6. What is the design system flow rate? _____
7. What is the design plant delta T? _____
8. Are strainers installed in both the primary and secondary loops? ☐ Yes ☐ No
9. What is the strainer mesh size? _____
10. What is the system pressure? _____
11. What is the primary loop GPM? _____
12. What is the secondary loop GPM? _____

Mode of Operation

Individual Unit Control (choose all that apply):

- ☐ Remote Set Point (Analog)
- ☐ Remote Set Point (Network/MODBUS)
- ☐ Direct Drive
- ☐ Indoor/Outdoor Reset
- ☐ Constant Setpoint
- ☐ Combination Boiler/Water Heater
- ☐ ACS (see below)
- ☐ Other: _____

If ACS is used, the mode of operation is in use (choose one):

- ☐ Constant Setpoint
- ☐ Indoor/Outdoor Reset
- ☐ Combination Control Panel (CCP)
- ☐ Network (MODBUS)

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

- ☐ Gateway
- ☐ ProtoNode
- ☐ Other: _____

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

- ☐ BACNet (choose one):
  - ☐ IP (ProtoNode Only)
  - ☐ PTP
  - ☐ MS/TP
  - ☐ ARC156 (XPC Model Only)
- ☐ Johnson Controls - N2
- ☐ LonWorks

Summary

1. Are the boiler(s) installed in accordance with AERCO guidelines and industry best practices? ☐Yes ☐No
   a. If No, please describe the issues.

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

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

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

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

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

4. Please outline any exceptions that have been granted by AERCO Applications Engineering for this installation:

   a. AERCO Application Engineering Sign Off: _____

ADDITIONAL NOTES: