	BENCHMARK BOILF INSTALLATION FO	ER RM	
Please complete one (1) <u>form per site</u> and return to up. After completion, e-mail this form to: STARTUP	AERCO for warranty validation within 30 o @AERCO.COM.	lays of s	start-
Please insure that the Edge Firmware is update	d as the first step in the startup process		
Completed By:	Date:		
La	ocation		
Installation Name:	ATT Technician:		
Street Address:	Company:		
City, State, Zip:	Phone #:		
AERCO Sales Rep:			
Equipmen	t Classification		
Unit Type: Serial Number of all units (Add addition	nal in Notes if needed)		
□ BMK1000			
□ BMK1500			
ВМК2000			
🗌 ВМК2500			
BMK3000			
□ BMK4000			
BMK5000N			
BMK5000			<u></u>
BMK6000			
Genera	I Installation		
1. Is the condensate disposal system adequately sized and	d does it drain properly?] Yes	🗌 No
of the AERCO O&M?] Yes	🗌 No
3. Is the relief valve piped to drain or within 12" of floor?	Γ] Yes	🗌 No
4. Is there an electrical service switch at or near the unit?	Γ] Yes	🗌 No
5. Does any electrical conduit, ductwork or piping impede remove the sheet metal covers?	the serviceability of the unit or the ability to [Yes	🗌 No
6. Is there an adequately sized condensate neutralizer kit	installed?] Yes	🗌 No
7. Have all electrical components been verified for proper g	grounding?] Yes	No
8. Has all communication wire been properly shielded?9. Are all units installed in accordance with the clearances	defined in the Benchmark O&M?	_ Yes] Yes	∐ No □ No
a. If not, why not?			
10. Is the Header Sensor installed 2 to 10 ft. from the last t	poiler?	_ Yes	∐ No

	Gas Supply		
The questions below are related to the information in the Benchmark Gas Supply Design Guide, GF-2030			
1.	Type of Gas Supply	PF)	
2.	Are external gas supply regulators installed in accordance with the AERCO O&M Natural Gas: Propane:	☐ Yes ☐ Yes	□ No □ No
	a. If no, please confirm gas pressure Natural Gas: Propane:		
3.	What is the make and model number of the external gas supply regulators?		
	Natural Gas: Make: Model:		
	Propane: Make: Model:		
4.	What is the static gas supply pressure to the external supply regulator? NG: LP:		
5.	Were the external gas supply regulators supplied by AERCO?	🗌 Yes	🗌 No
6.	a. If No, please attach regulator specification sheet and return to AERCO with this form. Are the external gas supply vent regulator lines installed per local code & manufacturer's requirement?	🗌 Yes	🗌 No
7.	What is the size & length of the gas supply header? Natural Gas: Propane:		
8.	Are there any other appliances connected to the gas supply line?	🗌 Yes	🗌 No
9.	a. If Yes, please indicate the total BTU connected load: MBH Is the gas supply system installed in accordance with the AERCO BMK Gas Components & Supply Design Guide GF-2030?	🗌 Yes	🗌 No
	Venting		
T	he questions below are related to the information in the Benchmark Venting and Combustion Air Guid	le, GF-205	50
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 AERCO Venting Guide?	🗌 Yes	🗌 No
3.	Venting material used is (choose one):	CPVC	
4.	Venting manufacturer is:		
5.	Please describe venting configuration (check all that apply):		
	☐ Individual Vent	nper/Fan	
6.	Breeched/Common (Units Vented Together) Does the layout (overall length, pressure drop, breeching calculations, vent pipe wall thickness, etc.) comply with GF-2050?	🗌 Yes	🗌 No
	Combustion Air		
T	he questions below are related to the information in the Benchmark Venting and Combustion Air Guid	de, GF-205	50
1.	Combustion air supplied through (check all that apply):		
	Louvers to outside wall Horizontal ducting Direct or ducted	combustio	n air
	Louvers to another room Vertical ducting Combustion air	an	
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-2050?	🗌 Yes	🗌 No

Hydronic Installation				
1. If there are multiple units, are the units piped "reverse-return"?		□ No		
 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 <i>remote interlock</i> connection on the C-More or Edge Controller utilized?		Yes	□ No	
 Please list all devices connected to the remote interlock: 				
6. Is the <i>delayed interlock</i> utilized & rece	iving external power:	🗌 Yes	🗌 No	
a. Please list all devices connected to the remote interlock:				
7. Is the system (check all that apply):				
🗌 Water Source Heat Pump	Primary/Secondary Pumping Other (Please specif	y)		
A Variable Flow System	Used for Reheat			
Reverse Return	Combination Control			
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 (choose one):			
Remote Set Point (Analog) Combination Boiler/Water Heater				
Remote Set Point (Network/MODBUS) ACS (see below)			
Direct Drive	BMS (see below)			
Indoor/Outdoor Reset	BMS II (see below)			
Constant Setpoint	BST (see below)			
If BST, ACS, BMS o	r BMS II is used, the mode of operation is (choose one):			
Constant Setpoint Combination Control Panel (CCP)				
Indoor/Outdoor Reset	Network (MODBUS)			
Combination Plant (Space Heating/DH	IW - BST Only)			
If Network (MODB	US) is chosen above, the network type is (choose one):			
🗌 Gateway	Other: (Please specify)			
ProtoNode				
If Building Auton	nation System (BAS) Protocol is in use (choose one):			
BACNet (choose one):				
IP (ProtoNode Only)	MS/TP			
	ARC156 (XPC Model Only)			
IP (Edge Only)				
Johnson Controls - N2				
LonWorks				

	Summary
1.	Is the boiler plant installed in accordance with AERCO guidelines and industry best practices?
	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:
2.	Is there any conflict between the Installation & the Engineer's Specification or Design Plans?
	a. If Yes, please describe the issues.
3.	b. Who has been contacted? Please provide name & number for each person contacted (check all that apply)?
4.	 b. Who has been contacted? Please provide name & number for each person contacted (check all that apply)? AERCO Applications Engineer: Mechanical Contractor: Building Owner: Plumber: Controls Engineer: Please outline any exceptions that have been granted by AERCO Applications Engineering for this installation if necessary.
	a. AERCO Application Engineering Sign Off (If Necessary):

ADDITIONAL NOTES: