



# Ryan Company Boiler Installation and Combustion Report

Date	_____	Representative	_____
Technician	_____	Technician Company	_____
Customer	_____	City, State	_____
On Site Contractor	_____	Phone Number	_____
Building Engineer	_____	Phone number	_____
Boiler National Board #	_____	Make	_____
Model #	_____	Serial #	_____
Electrical Drawing #	_____	ModSync Serial #	_____
Burner Make	_____	Electrical Drawing #	_____
Burner Model #	_____	Burner Serial #	_____

## Installation

### General

Boiler Location . . . . . \_\_\_\_\_

Base is of Incombustible Material . . . . . \_\_\_\_\_

Combustion Air is Sufficient for All Fuel Fired Equipment \_\_\_\_\_

Ventilation Maintains Equipment Temperature Below 100 °F . . . . . \_\_\_\_\_

Room Pressure Is Maintained at Neutral Atmospheric Pressure \_\_\_\_\_

Room is Vented by Natural Means (Vents and Convection) . . . . . \_\_\_\_\_

Boiler Clearance is Suitable for Maintenance . . . . . \_\_\_\_\_

Condensate Piping/Trap Installed Correctly. .list height. . . . . \_\_\_\_\_

### Electrical Supply

Voltage to Equipment Skid . . . . . \_\_\_\_\_

Voltage Supplied Meets Equipment Specification . . . . . \_\_\_\_\_

Individual Equipment is Fused Properly . . . . . \_\_\_\_\_

Disconnects Provided at Ready Access . . . . . \_\_\_\_\_

### Venting

Intake Material Type	
Intake Venting Size	
Intake Venting Length	
Number Of 90's In Inlet Piping	
Exhaust Material Type	
Exhaust Venting Size	
Exhaust Venting Length	
Number Of 90's In Exhaust Piping	
Exhaust Vertical Height	
Are Terminations Vertical Or Horizontal?	
Horizontal Distance Between Intake And Exhaust Terminations	
Vertical Distance Between Intake And Exhaust Terminations	
Is Venting System Stand Alone Or Commonly Vented?	
Is Venting System Power-Vented?	
If Common Vented What Is The Set Pressure Of The Fan?	
What Is The Common Pressure With All The Boilers At High / Low Fire?	
Filter And Shutoff Valve Before Oil Pump?	
Is Check Valve Installed On System Return Line?	



Feed Water Pump 1

- Pump Make and Model
Pump Motor Horsepower
Pump Motor Voltage
Pump Motor Full Load Amperage
Pump Motor Efficiency
Pump Motor Power Factor
Pump Rotation is Correct
Pump is Bled and Primed
Isolation Valve is Installed, Pump is Serviceable

Feed Water Pump 2

- Pump Make and Model
Pump Motor Horsepower
Pump Motor Voltage
Pump Motor Full Load Amperage
Pump Motor Efficiency
Pump Motor Power Factor
Pump Rotation is Correct
Pump is Bled and Primed
Isolation Valve is Installed, Pump is Serviceable

Circulating Pump 1 (Hot Water Models)

- Pump Make and Model
Pump Motor Horsepower
Pump Motor Voltage
Pump Motor Full Load Amperage
Pump Motor Efficiency
Pump Motor Power Factor
Pump Rotation is Correct
Pump is Bled and Primed
Isolation Valve is Installed, Pump is Serviceable

Circulating Pump 2 (Hot Water Models)

- Pump Make and Model
Pump Motor Horsepower
Pump Motor Voltage
Pump Motor Full Load Amperage
Pump Motor Efficiency
Pump Motor Power Factor
Pump Rotation is Correct
Pump is Bled and Primed
Isolation Valve is Installed, Pump is Serviceable



Pipework

- Pipework is of Proper Material.
Piping is Properly Supported.
Boiler Safety Valves Piped Correctly.
How is boiler piped? (Primary secondary) or.....

Burner

- Burner BTU'S.
Operation Type
Fuel Type
Maximum Input
Minimum Input
Furnace Pressure at 100%.
Maximum Fuel Pressure
Pilot Type

Blower Motor

- Burner Blower Motor Horsepower
Burner Blower Motor Voltage
Nameplate Voltage Matches Supplied Voltage
Blower Rotation is Correct
Blower Size

Gas Train

- Static Pressure At Beginning of Gas Train
Vent Connections Terminate Safely to Atmosphere

Oil Pump

- Oil Pump is Bled and Primed
Filter and Shutoff Valve Before Oil Pump
Check Valve Installed on Return Line
Inlet Pressure to Fuel Oil Pump is Less Than 3 PSIG.
Inlet Pressure to Fuel Oil Pump is More than -8" Hg. Record
Air Compressor Provided & Installed Correctly (Air Atomizing)

Building Management System

- BMS Make & Model
How are Boilers Being Staged
What are Outdoor Reset Parameters
What is Outdoor Temperature Shut Down



# Ryan Company Boiler Installation and Operation Report

## Operation

### General

Flame Safeguard Make and Model . . . . . \_\_\_\_\_  
 Flame Detection Device Make and Model . . . . . \_\_\_\_\_  
 Temperature/Pressure Control Make and Model . . . . . \_\_\_\_\_  
 Incoming Gas Pressure . . . . . \_\_\_\_\_  
 Main Gas Regulator Make and Model . . . . . \_\_\_\_\_  
 Main Gas Regulator Spring Color . . . . . \_\_\_\_\_  
 Main Gas Regulator Spring Depth . . . . . \_\_\_\_\_  
 Pilot Gas Regulator Make and Model . . . . . \_\_\_\_\_  
 Pilot Gas Regulator Spring Color . . . . . \_\_\_\_\_  
 Pilot Gas Regulator Spring Depth . . . . . \_\_\_\_\_  
 Pilot Gas Pressure . . . . . \_\_\_\_\_  
 Pilot Air Required . . . . . \_\_\_\_\_  
 Oil Pump Make and Model . . . . . \_\_\_\_\_  
 Back Pressure Valve Make and Model . . . . . \_\_\_\_\_  
 Oil Nozzle Size, Spray Pattern, Spray Angle . . . . . \_\_\_\_\_

### Motor Readings

	Amperage			Voltage		
	L1	L2	L3	L1 – L2	L2 – L3	L1 – L3
Blower Motor Low Fire						
Blower Motor High Fire						
Feed Water Pump 1						
Feed Water Pump 2						
Circ Pump Motor, Cold						
Circ Pump Motor, Hot						

### Pump Circuit Gauge Readings AT 100% (Hot Water Models)

Boiler Inlet Cold . . . . . \_\_\_\_\_ Boiler Inlet Hot . . . . . \_\_\_\_\_  
 Pump Suction Cold . . . . . \_\_\_\_\_ Pump Suction Hot . . . . . \_\_\_\_\_

### System Running Checks

System is Filtered (Hot Water Models). . . . . \_\_\_\_\_  
 System Checks O.K. for Leaks at Temperature . . . . . \_\_\_\_\_

### NOTES:

---



---



---



---



---



---



---







**Ryan Company  
Boiler Installation and Operation Report**