



CONDENSING BOILER and WATER HEATER START-UP FORM

(REFER TO THE PRODUCT MANUAL FOR QUESTIONS REGARDING THE INSTALLATION AND OPERATION OF THIS PRODUCT)

CP)
JOB NAME:

DATE:

INSTALLATION and START-UP PREPARATION PERFORMED BY:

COMPANY:

CONTACT:

ADDRESS:

CITY:

STATE:

ZIP:

TELEPHONE:

APPLIANCE INFORMATION

Unit #	MODEL	SERIAL #	PUMP MODEL	PUMP HP
1				
2				
3				
4				
5				
6				
7				
8				

Tank Information

Tank #	MODEL	CAPACITY	SERIAL #	TYPE	ORIENT.
1				<input type="checkbox"/> Buffer <input type="checkbox"/> DHW Storage	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal
2				<input type="checkbox"/> Buffer <input type="checkbox"/> DHW Storage	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal
3				<input type="checkbox"/> Buffer <input type="checkbox"/> DHW Storage	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal
4				<input type="checkbox"/> Buffer <input type="checkbox"/> DHW Storage	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal

BOILER / WATER HEATER START-UP PREP LIST

Gas Preparations

Diameter, Gas Line to Appliance:		Step-Down Regulator:	Yes	<input type="checkbox"/> No
Feet from regulator to appliance:		Sediment trap installed (per NFPA 54:9.6.8)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Common Gas Line Size:		Feet of gas line from meter to heater:		
Total 90° Elbows:		Static Gas Pressure:		
		Regulator Vent Line or Vent Limiter?	Choose one	



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Water Preparations

Common Pipe Size:				Pipe Size to Appliance:			
Qty. of elbows between heater & tank:				HW recirc piped to common discharge from heater to DHW tank:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Piping Arrangement:	Choose One			Expansion tank:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Sensor Location:	Choose One			Sensor Installed Correctly; (Thermal paste & completely in well):		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Water Quality <small>(ph, Hardness etc. See req. in manual)</small>				Has Existing System Been Flushed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
				Is There A Mag-Separator Installed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Water Treatment:	Choose One			Isolation valves on HWR & HWS of heaters:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Recirculator Pump:	Make:			Pump HP:			
	Model:			GPM & Head (If Available):			
Thermal mixing valve installed on the discharge of the DHW tank.		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Thermal mixing valve piped properly:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
T&PR and PRV installed and piped to floor drains:		<input type="checkbox"/> Yes	<input type="checkbox"/> No	T&PR sized for combined BTUH of heating system:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Isolation valves on HWR & HWS of heaters:		<input type="checkbox"/> Yes	<input type="checkbox"/> No				

Electrical Preparations

Voltage, Incoming Supply:		Choose One		Breaker Size:			
Separate Pump Power:		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Disconnects:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Neutral to Ground, Less than 1Volt:		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Outdoor Air Sensor:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
BMS Interface:		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Conductor Control:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
BMS interface:		Choose One		BMS Gateway:		<input type="checkbox"/> Yes	<input type="checkbox"/> No



CONDENSING BOILER START-UP FORM

Venting and Air Intake

Combustion Air Opening Type:	Choose One	Combustion Air Opening Size:			
Venting Material:	Choose One	Venting type:	Choose One		
Vent Termination:	Choose One	Venting Adapter:	Choose One		
Combustion Air Openings 12" From Floor:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Room Air Ventilation Opening Size:	
Flue Drain Type:	Choose One	Flue Test Port:		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Flue Drain Trapped Properly:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Proper Vent Clearances	
				<input type="checkbox"/> Yes	<input type="checkbox"/> No
Vent Height:			Lateral Length:		
Total elbows used (including boot tee)					
90° Vent Elbows:		45° Vent Elbows:			
Correctly Terminated:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Vent Properly Supported:	
				<input type="checkbox"/> Yes	<input type="checkbox"/> No
Condensate Neutralizer Kit Piped to Floor Drain:		<input type="checkbox"/> Yes <input type="checkbox"/> No			

Service Clearances

Front:		Rear:			
Right Side:		Left Side:			
Top:					

Notes and Comments:



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BOILER START-UP CHECKLIST

Gas Supply

Natural Gas

LP Gas

Static Pressure (Unit Off):

Dynamic Pressure (100% Fire):

Gas Pipe Diameter:

"wc

"wc

" (Inches)

Is there an inlet gas lockup regulator on the supply? Yes No

If **YES**, is it ten feet upstream from the appliance? Yes No, Explain: _____

Combustion

High Fire:

O₂: _____ %

CO₂: _____ %

CO: _____ ppm

Excess Air: _____ %

Stack Temperature: _____ °F

Low Fire:

O₂: _____ %

CO₂: _____ %

CO: _____ ppm

Excess Air: _____ %

Stack Temperature: _____ °F

Water

Supply Temperature: _____ °F

Return Temperature: _____ °F

Delta T: _____ °F

Electrical

Supply Voltage: _____

Total Amp Draw: _____



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Venting and Air Intake

Refer to O&M Manual!

VENT: Material: Choose One Diameter (In.)

Component	COMBUSTION AIR					VENT					
	Equivalent Length Per Piece	X	Quantity	=	Subtotal Equivalent Length	Equivalent Length Per Piece	X	Quantity	=	Subtotal Equivalent Length	
Straight Pipe		X		=	A		X		=	D	
90° Elbow		X		=	B		X		=	E	
45° Elbow		X		=	C		X		=	F	
Combustion Air Total Equivalent Length				=		Vent Total Equivalent Length				=	

Vent / Air Termination:

- Vertical vent w/ room air
 Horizontal vent w/ room air
 Vertical direct vent
 Horizontal direct vent
 Vertical vent with sidewall air

Notes: (Refer to O&M Manual)

- 1 Make sure total equivalent length does not exceed max equivalent length shown in Manual.
- 2 Vent and combustion air terminals do not count toward total equivalent length.
- 3 Pressure drop for flexible polypropylene liner is 20% greater than for rigid pipe.
Multiply measure flexible polypropylene line length by 1.2 to obtain equivalent length.
- 4 Max equivalent length of flexible polypropylene liner is 48 feet.

Clearances

Refer to O&M Manual!

Front:		Rear:	
Right Side:		Left Side:	
Top:			

Notes and Comments: