CONDSTARTUP20241	1	01



CONDENSING BOILER START-UP FORM (REFER TO THE PRODUCT MANUAL FOR QUESTIONS REGARDING THE INSTALLATION AND OPERATION OF THIS PRODUCT) JOB NAME: DATE: **INSTALLATION and START-UP PREPARATION PERFORMED BY: COMPANY: CONTACT: ADDRESS: TELEPHONE:** CITY: STATE: ZIP: **B**oiler Information SERIAL# Unit # MODEL **PUMP MODEL PUMP HP** 2 3 4 5 6 7 8 Tank Information MODEL **CAPACITY SERIAL# TYPE** ORIENT. Tank # ■ Buffer Vertical 1 □ DHW Storage Horizontal Vertical ■ Buffer 2 ☐ Horizontal ■ DHW Storage ■ Buffer Vertical 3 ■ DHW Storage Horizontal Vertical ■ Buffer ■ DHW Storage Horizontal BOILER START-UP PREP LIST **G**as **P**reparations Diameter, Gas Line Regulator: Yes ■ No to Unit: Feet from Sediment trap installed (per NFPA regulator to ☐ Yes ■ No 54:9.6.8) heater: Common Gas Line Feet of gas line from Size: meter to heater:

Static Gas Pressure:

Choose one

Regulator Vent Line or

Vent Limiter?

Total 90° Elbows:

High Fire Gas

Pressure:



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W ater P reparations										
Common Pipe Size:					Water Heater Pipe Size:					
Qty. of elbows between heater & tank:				HW recire	piped to common discharge from heater to DHW tank:	☐ Yes	□ No			
Piping Arrangement:	Choo	ose One			Expansion tank:	☐ Yes	□ No			
Sensor Location:	Choo	ose One		Senso	or Installed Correctly; (Thermal paste & completely in well):	☐ Yes	□ No			
Water Quality				Has Exi	sting System Been Flushed?	☐ Yes	□ No			
Water quality				Is There	A Mag-Separator Installed?	☐ Yes	☐ No			
Water Treatment:	Choo	ose One		lso	lation valves on HWR & HWS of heaters:	☐ Yes	□ No			
Recirculator				Pump HP:						
Pump:	Model:				GPM & Head (If Available):					
Thermal mixing valve installed on the discharge of the DHW tank.		□ No	Thermo	ıl mixing valve piped properly:	☐ Yes	□ No				
T&PR and PRV installed and piped to floor drains:		☐ Yes	□ No	T&PR sized	for combined BTUH of heating system:	☐ Yes	□ No			
Isolation valves or	HWR & HWS of heaters:	☐ Yes	□ No							
		E	lectric	al P repar	ations					
Voltage, Inc	Choos	se One		Breaker Size:						
Separate Pump Power:		☐ Yes	□ No		Disconnects:	☐ Yes	☐ No			
Neutral to Ground, Less than 1Volt:		☐ Yes	☐ No		Outdoor Air Sensor:	☐ Yes	☐ No			
BMS Interface:		☐ Yes	□ No		Conductor Control:	☐ Yes	□ No			
	Choos	e One		BMS Gateway:	☐ Yes	□ No				



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Venting and Air Intake													
Combustion Air Opening Type:		ose One		Combustion Air Opening Size:									
Venting Material:	Choo	ose One			Venting type:	Venting type: Choose One							
Vent Termination:	Choc	ose One		Ve	enting Adapter:	Choose One							
Combustion A	ombustion Air Openings 12" From Floor: Yes No			Room	n Air Ventilation Opening Size:								
Flue Drain Type:	Flue Drain Type: Choose One				Flue Test Port: Yes No								
Flue Drain Tra	pped Properly:	☐ Yes	□No		Proper Ve	☐ Yes	□ No						
	Vent Height:			Lateral Length:									
Total elbows used (including boot	tee)											
90	0° Vent Elbows:				45° Vent Elbows:								
Correc	tly Terminated:	☐ Yes	□ No		Vent Properly Supported: Yes No								
Condensate Neutralizer Kit Piped to Floor Drain:													
			Service	e C learar	nces								
	Front:					Rear:							
	Right Side:					Left Side:							
	Тор:												
Notes and Comments:													



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BOILER START-UP Checklist										
Gas Supply										
	Natural Gas	Statio	: Pressure (I	"\	"wc					
	LP Gas		ressure (10	0% Fire):	"\	vc				
		" (Inches)								
Is there a	Is there an inlet gas lockup regulator on the supply? Yes No									
If YES , i	is it ten feet upstream fro	m the applic	ince? 🗌	Yes 🔲	No, Explain:					
Combustion										
	<u>High Fire:</u>				Low Fire:					
	O ₂ :	O ₂ : %			O ₂ :		%			
	CO ₂ :		%		CO ₂ :		%			
	CO:		ppm		CO:		ppm			
	Excess Air:]%]∘ F		Excess Air:		% ° F			
	Stack Temperature:]		Stack Temperatu					
W ater										
	Supply Temperature: °F Return Temperature: °F Delta T: °									
E lectrical										
	Supply Voltage: Total Amp Draw:									



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V enting and A ir I ntake												
Refer to O&M Manual!												
	VENT:	N	Naterial:		Choose (One	e D	iame	ter (In.)			
	COMBUSTION AIR								VENT			
Component	Equivalent Length Per Piece	x	Quantity	=		Subtotal Equivalent Length Piec		X	Quantity	=	Subtotal Equivalent Length	
Straight Pipe		Χ		=		Α		Х		=		D
90° Elbow		X		=		В		X		=		E
45° Elbow		Х		=		С		X		=		F
	Combustion Equivalent						Vent Total Equivale Length		valent	=		
			<u>v</u>	ent /	Air Terminat	lion	<u>:</u>					
☐ Vertical v	ent w/ room ai			Horize	ontal vent w	// rc	oom air		Vertical o	dire	ct vent	
Horizonto	ıl direct vent			Vertic	al vent with	ı sic	dewall air					
1 Make sure total ea	uivalent length deer n	ot ove			efer to O&M Ma)					
 Make sure total equivalent length does not exceed max equivalent lent shown in Manual. Vent and combustion air terminals do not count toward total equivalent length. 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. Max equivalent length of flexible polypropylene liner is 48 feet. All elbows referenced are short radius. 												
				Cle	arances							
			R	efer to	O&M Manu	al!						
	Front:							Re	ear:			
	Right Side:							Left Si	de:			
	Тор:											
N otes and C omments:												