FUTERA III / FUSION STARTUP SHEET



DATE:	JOB NAME:
TECHNICIAN:	LOCATION:
COMPANY:	MODEL
PHONE NUMBER:	SERIAL #:

PRE-STARTUP CHECK LIST

NO VISUAL DAMAGE TO UNIT

PIPING PROPERLY CONNECTED

BOILER CIRCULATOR WIRED

VENT/STACK CONNECTED

- ☐ INLET AIR FILTER INSTALLED AND CLEAN
- PROPER SERVICE CLEARANCE PROVIDED

PUMP RUNNING, HEAT EXCHANGER FULL

GAS LINES PURGED, NO LEAKS, NO MISSING

TEST PLUGS

BOILER STARTUP SEQUENCE

Note: Locate the AA terminals in the bottom-right of the electrical panel on the control relay board and the min-hold switch located on the display board. Also locate the gas pressure tapping upstream of the main gas valve.

- 1. Cycle boiler and hold at trial for pilot ignition.
- 2. Set pressure to 2 2.5" W.C. (Flame signal should read 5.0 V DC)
- 3. Cycle boiler to main flame trial for ignition.
- 4. Place boiler to min hold (33%).
- 5. Record combustion and elbow pressure. (Reference factory start-up sticker)
- 6. Release boiler from min hold to run. (Jumper AA terminals for 100% input)
- 7. Record combustion and elbow pressure. (Reference factory start-up sticker)
- 8. Check all combustion results using a calibrated flue gas analyzer.
- 9. Remove jumper at terminals AA and release boiler to RUN mode.

COMBUSTION ANALYSIS	33% FIRE	100% FIRE
GAS PRESSURE (IN. W.C.)		
CO ₂		
02		
CO (PPM)		
NET STACK TEMP.		

TESTING MODULATING BOILER CONTROL

Allow the boiler to control itself through the Modulating Boiler Control. Check sticker on the inside of the door or the Installation Manual for instructions on using the boiler control.

	TANK DIFF (MODE 3)		PUMP DELAY	
	BOIL MAX		UNITS	
	BOIL MIN		SECONDARY INLET TEMP	
	BOIL MASS		SECONDARY OUTLET TEMP]
DE 3) BOILER DIFF			(FUTERA FUSION ONLY)	
		BOIL MAX BOIL MIN BOIL MASS	BOIL MAX BOIL MIN BOIL MASS	BOIL MAX UNITS BOIL MIN SECONDARY INLET TEMP (FUTERA FUSION ONLY) BOIL MASS SECONDARY OUTLET TEMP

SAFETY TESTS CHECKLIST

FLOW SWITCH	AIR SWITCH	FLAME SAFEGUARD
LOW WATER CUTOFF	HIGH-LIMIT	

COMMISSIONING THE BOILER/WATER HEATER

 UNIT CYCLED MIN. OF 15 TIMES CUSTOMER INSTRUCTED ALL COVERS REPLACED CUSTOMER GIVEN MANUAL TARGET TEMP. SET PER CUSTOMER 		OUTLET IS CRITIC YOU LEAVE THE J DELTA T. THIS RE	WEEN THE HEATERS INLET AND AL TO PROPER FLOW. BEFORE OBSITE, YOU MUST RECORD THE ADING SHOULD NOT EXCEED 35 C, OR BE LOWER THAN 20 DEG F,
COMMISSIONED BY:	(SIGNATURE)		DELTA T

ADDITIONAL NOTES AND COMMENTS