


ZONE	REV.	DESCRIPTION	DATE	APPROVED
REVISIONS				

	DATE	NAME	 <div>Stratford, CT 06615 (203) 378-2659</div>		
DRAWN	01/19/11	PRD	The Electric Heater Company		
CHECKED	01/19/11	SW			
ENG APPR.	01/19/11	PRD	Customer:		
MFG APPR.	01/19/11	WEN III	Description: TANKLESS ELECTRIC BOOSTER HEATER, 33 kW @ 240 V, 3Ph		
E	DIMENSIONS ARE IN INCHES TOLERANCES: (UNLESS OTHERWISE SPECIFIED) FRACTIONAL ±¼ ANGULAR: MACH ±½° BEND ±1° TWO PLACE DECIMAL ±0.01 THREE PLACE DECIMAL ±0.005		SIZE B	DWG. NO. JTX033-6T	REV
			SCALE: 1:1	FSCM: 19857	SHEET 1 OF 2

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
THE ELECTRIC HEATER COMPANY. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
THE ELECTRIC HEATER COMPANY IS
PROHIBITED.

DIMENSIONS ARE IN INCHES
TOLERANCES:
(UNLESS OTHERWISE SPECIFIED)
FRACTIONAL $\pm 1/4$
ANGULAR: MACH $\pm 1/2^\circ$ BEND $\pm 1^\circ$
TWO PLACE DECIMAL ± 0.01
THREE PLACE DECIMAL ± 0.005

8		7		6		5		4		3		2		1	
ITEM NO.	QTY.	PART NO. / DWG. NO.		MATERIAL	DESCRIPTION										
1	1	D-1111		STAINLESS STEEL	BACK CASING ASSEMBLY										
2	1	D-1110		STAINLESS STEEL	FRONT COVER										
3	1	JTK6-FM		COPPER / BRASS	HEATER TUBE ASSEMBLY										
4	--	--		--	--										
5	6	N1315-5500		INCOLOY / BRASS	HEATING ELEMENT, 5500W @ 240V										
6	1	D-1114		ALUMINUM	TOP HEATER TUBE SUPPORT										
7	6	L93		VARIOUS	HI-LIMIT SWITCH, AUTO RESET (SET TO 200°F)										
8	1	TK FLOW BR		BRASS	FLOW METER, 0.2-8 GPM										
9	--	-		--	--										
10	1	TK2250		VARIOUS	ELECTRONIC TEMPERATURE CONTROLLER										
11	1	TKD2000		VARIOUS	LED DISPLAY										
12	6	TG40E60		VARIOUS	TRIAC										
13	2	USP9509		VARIOUS	THERMISTOR										
14	AS REQ'D			COPPER	WIRE: POWER: #10 AWG, CONTROL: #18 AWG, THHN (90°C)										
15	1	KA-4C		COPPER	GROUND LUG										
16	1			POLYURETHANE	THERMISTOR INSULATION										
17	--	--		--	--										
18	1	C25FNF375B		VARIOUS	MAGNETIC CONTACTOR, 208/240 VAC COIL, 90A RESISTIVE										
19	--	--		--	--										
20	3	PLUGBR 1/8		BRASS	DRAIN PLUG, 1/8" NPT										
21	5			RUBBER	INLET / OUTLET / DRAIN CASING GASKETS										
22	1	TANKLESS OVERLAY		LEXAN	DISPLAY OVERLAY										
23	1	COUPBELL 1/2" TO 3/4"		BRASS	INLET BELL COUPLING, 1/2" x 3/4"										
24	1	DIELECTRIC UNION		VARIOUS	DIELECTRIC UNION, 3/4" FNPT x 3/4" CTS										
25	--	--		--	--										
26	1			STAINLESS STEEL	INLET SCREEN (NOT SHOWN)										
27															
28															
29	1			VARIOUS	LEAK DETECTION WIRE										
30	AS REQ'D			RUBBER	GASKET MATERIAL (NOT SHOWN)										
31	1	NIPPBR 3/4 X 1.5		BRASS	NIPPLE 3/4" x 1 1/2" LONG										
32	1	LGR-3		VARIOUS	CONTROL CIRCUIT FUSE, 3A										
33	1	LHR000		VARIOUS	FUSE HOLDER										

INSTALLATION PARAMETERS

VOLTS	240 V
POWER	33 kW
AMP	79.4 A
BREAKER SIZE(MIN)	90 A
FEED WIRE SIZE(MIN)	#4 AWG
CONDUIT SIZE(MIN)	1"
WIRING DIAGRAM	7

INSTALLATION NOTES:

1. TANKLESS WATER HEATERS ARE CONSIDERED A NON-CONTINUOUS LOAD.

2. IF MULTIPLE FEED INSTALLATION IS USED, IT IS ACCEPTABLE TO INSTALL UP TO TWO CONDUCTORS IN ONE LINE SIDE PORT. ADDITIONALLY, WHEN A POWER DISTRIBUTION BLOCK IS SUPPLIED, ADDITIONAL CONDUCTORS MAY BE INSTALLED IN AN OPEN LOAD SIDE PORT OF THE POWER DISTRIBUTION BLOCK.

3. WIRING SIZING LISTED IS FOR 75°C THHN. 60°C OR 90°C WIRE MAY BE USED. REFER TO NEC TABLE 310.16 FOR SIZING.

4. CONDUCTORS SHOULD BE SIZED TO MAINTAIN A VOLTAGE DROP OF LESS THAN 3% UNDER LOAD.

ZONE

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	DATE	NAME	<div><div><div>Hubbell™</div><div>The Electric Heater Company</div></div><div>Stratford, CT 06615 (203) 378-2659</div></div>		
DRAWN	11/17/10	PRD			
CHECKED	11/22/10	SW			
ENG APPR.	11/22/10	PRD			
MFG APPR.	11/22/10	WEN III	Customer:		
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