

ZONE	REV.	DESCRIPTION	DATE	APPROVED
REVISIONS				

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

Customer:		Description:	
		TANKLESS ELECTRIC BOOSTER HEATER, 24 kW @ 480 V, 3Ph	
SIZE	DWG. NO.	REV	
<b>B</b>	JTX024-3T4		
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:  $\pm\frac{1}{4}$   
ANGULAR: MACH  $\pm\frac{1}{2}$ ° BEND  $\pm 1$ °  
TWO PLACE DECIMAL  $\pm 0.01$   
THREE PLACE DECIMAL  $\pm 0.005$

ITEM NO.	QTY.	PART NO. / DWG. NO.	MATERIAL	DESCRIPTION
1	1	D-1125	STAINLESS STEEL	BACK CASING ASSEMBLY
2	1	D-1126	STAINLESS STEEL	FRONT COVER
3	1	JTK3-FM	COPPER / BRASS	HEATER TUBE ASSEMBLY
4	--	--	--	--
5	3	N1375-8000T4	INCOLOY / BRASS	HEATING ELEMENT, 8000W @ 480V
6	1	D-1100	ALUMINUM	TOP HEATER TUBE SUPPORT
7	3	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	TK2000	VARIOUS	ELECTRONIC TEMPERATURE CONTROLLER
11	1	TKD2000	VARIOUS	LED DISPLAY
12	3	TG40E80	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	C25DNF330B	VARIOUS	MAGNETIC CONTACTOR, 208/204VAC COIL, 40A RESISTIVE
19	1	B050-3299-3	VARIOUS	TRANSFORMER, 50 VA, 480/440 VAC TO 208 VAC
20	1	PLUGBR 1/8	BRASS	DRAIN PLUG, 1/8" NPT
21	3		RUBBER	INLET / OUTLET / DRAIN CASING GASKETS
22	1	TANKLESS OVERLAY	LEXAN	DISPLAY OVERLAY
23	1	COUP BELL 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	SCREEN TK	STAINLESS STEEL	INLET SCREEN (NOT SHOWN)
27	--	--	--	--
28	1		VARIOUS	LEAK DETECTION WIRE
29	AS REQ'D		RUBBER	GASKET MATERIAL (NOT SHOWN)
30	1	NIPPBR 3/4 X 1.5	BRASS	NIPPLE 3/4" x 1 1/2" LONG
31	1	LGR-3	VARIOUS	CONTROL CIRCUIT FUSE, 3A
32	1	LHR000	VARIOUS	FUSE HOLDER

GENERAL NOTES:


- HEATING CHAMBER IS RATED FOR 150 PSI WATER PRESSURE (MAX.)
- UNIT IS UL, cUL, AND UL EPH LISTED.
- JTX FLOW RATE: 0.2 GPM MIN., 8 GPM MAX.
- APPROXIMATE WEIGHT IS 18 POUNDS.
- HEATERS ARE FULLY MODULATING FROM 0 TO 100%.
- UNIT IS DESIGNED FOR 50/60 Hz.

INSTALLATION PARAMETERS	
VOLTS	480 V
POWER	24 kW
AMP	28.9 A
BREAKER SIZE(MIN)	35 A
FEED WIRE SIZE(MIN)	#8 AWG
CONDUIT SIZE(MIN)	3/4"
WIRING DIAGRAM	4

INSTALLATION NOTES:

- TANKLESS WATER HEATERS ARE CONSIDERED A NON-CONTINUOUS LOAD.
- 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.
- 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.
- CONDUCTORS SHOULD BE SIZED TO MAINTAIN A VOLTAGE DROP OF LESS THAN 3% UNDER LOAD.

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ANGULAR: MACH ±½° BEND ±1°  
TWO PLACE DECIMAL ±0.01  
THREE PLACE DECIMAL ±0.005

SIZE <b>B</b>	DWG. NO. JTX024-3T4	REV
SCALE: 1:1	FSCM: 19857	SHEET 2 OF 2