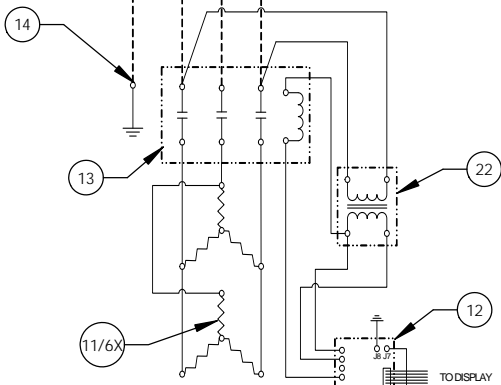


30kW - 600V - 3Ø - 28.9A

L1 L2 L3

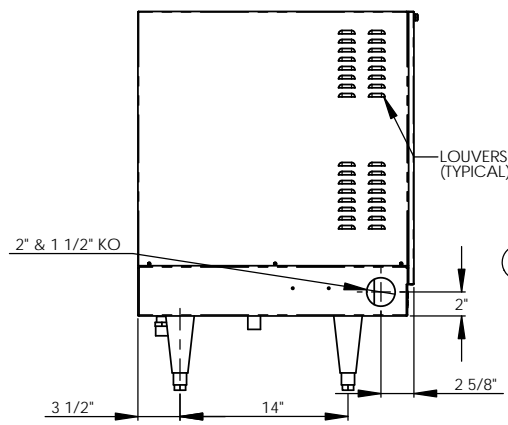
DASHED LINES INDICATE WIRING BY CUSTOMER



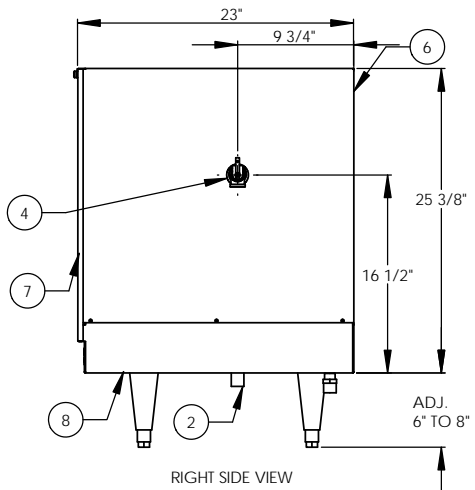
VOLTAGE ACROSS INDIVIDUAL ELEMENTS IS 347V.

ITEM NO.	QTY.	PART NO.	MATERIAL	DESCRIPTION
1	1	J16-6 TANK	304L S/S	16 GALLON VESSEL ASSEMBLY
2	1	J16 INLET	304 S/S	3/4" MNPT INLET
3	1	J16 OUTLET	COPPER	3/4" MNPT OUTLET
4	1		304L S/S	3/4" FNPT FOR RELIEF VALVE
5	1	100XL 75 150LB	BRONZE	RELIEF VALVE SET AT 150PSI, 210°F
6	1	J16 JACKET	304 S/S	TOP COVER ASSEMBLY
7	1	J16 FRONT COVER	304 S/S	FRONT COVER ASSEMBLY
8	1	J16 BASE	304 S/S	BASE ASSEMBLY
9	1		FOAM	INSULATION
10	4	61649NOBN5T4	PLASTIC	ADJUSTABLE LEGS
11	6	C1315-2	BRASS PLUG & COPPER SHEATH	HEATING ELEMENT - 1-7/8" HEX 2000W @ 208V/5540W @ 600V
12	1	T1000	VARIOUS	C. CONTROL MODULE
13	1	C25DNF330B	VARIOUS	MAGNETIC CONTACTOR 40A (RESISTIVE) - 240V
14	1	K48C	COPPER	GROUND LUG
15	1	J16 CONTROL PLATE	GALVANEEL	ELECTRICAL MOUNTING PANEL
16	1	ID1000	VARIOUS	DIGITAL DISPLAY MODULE
17	1	P65	VARIOUS	PROBE ASSEMBLY
18	1	OVERLAY J MODEL	LEXAN	OVERLAY FOR DISPLAY MODULE
19	1		VARIOUS	LEAK DETECTION SENSOR
20	1	TTD405	VARIOUS	T&P GAUGE 30-240°F/0-200PSI
21	1	N45BJ	BRONZE	PRESS REDUCING VALVE 25-75PSI
22	1	B050-3350-3	VARIOUS	TRANSFORMER 50VA 600V/195V

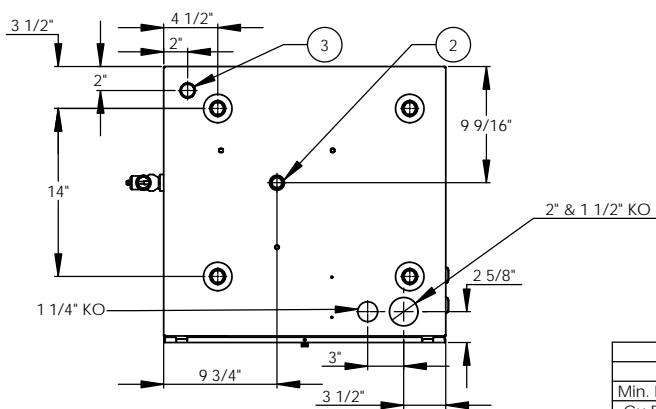
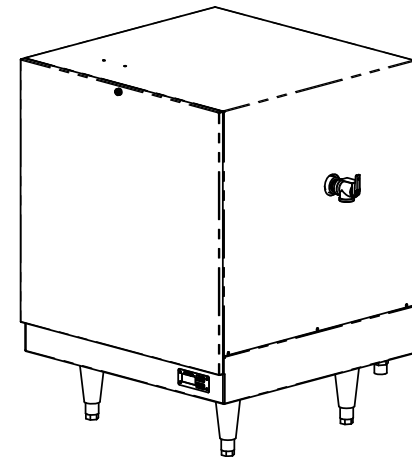
REVISIONS		DATE	APPROVED
ZONE	REV.	DESCRIPTION	



FRONT VIEW (WITH COVER REMOVED)



RIGHT SIDE VIEW



BOTTOM VIEW

INSTALLATION REQUIREMENTS	
AMP Draw	28.9
Min. Breaker/Fuse Size	45 AMP
Cu Power Feed Wire	#8 AWG THHN
Min. Power Conduit	1/2"
Wiring Diagram	15

ELECTRICAL NOTES:
 1. POWER FEED WIRE SIZING IS BASED ON 75°C CU THHN WIRE WITH FEEDER BRANCH PROTECTION AT 125%.
 2. REFERENCE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS.

- NOTES:**
- TANK IS DESIGNED, FABRICATED, AND STAMPED IAW ASME SECTION VIII CODE, LATEST ADDENDA.
 - TANK IS DESIGNED FOR 150PSI AND PRESSURE TESTED AT 225PSI.
 - PROBE ASSEMBLY (Pc. No. 17) PROVIDES TEMPERATURE CONTROL, HI-LIMIT, AND LOW WATER SENSING.
 - UNIT IS UL, CUL, AND UL EPH LISTED.
 - PIECE NOS. 5, 10, 20, & 21 ARE SHIPPED LOOSE.
 - CONTROL CIRCUIT WIRE TO BE #18 TEFZEL 750 (200°C), POWER CIRCUIT WIRE TO BE #12 TEFZEL 750 (200°C), ELEMENT JUMPER WIRE TO BE #12 TEFZEL 750 (200°C).
 - PHASE TO PHASE RESISTANCE: 23.6 OHMS
 - APPROXIMATE WEIGHT:
 DRY: 131 LBS.
 WET: 264 LBS.
 - DERATE TO 28.08kW FOR 575V.

DRAWN	DATE	NAME	Stratford, CT 06615
2/21/05	SCL		(203) 378-2659
CHECKED	2/21/05	WENIII	
ENG APPR	2/21/05	PRD	Customer:
MFG APPR	2/21/05	CHD	Description: J MODEL BOOSTER HEATER
			J163016 - 16 GALLON 30KW - 600V - 3Ø
SIZE	DWG. NO.	REV	
C	J163016	-	
SCALE: 1:8		FSCM: 19857	SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL
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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL 1/16"
 ANGULAR MACH ±1/2° BEND ±1°
 TWO PLACE DECIMAL ±0.01
 THREE PLACE DECIMAL ±0.005