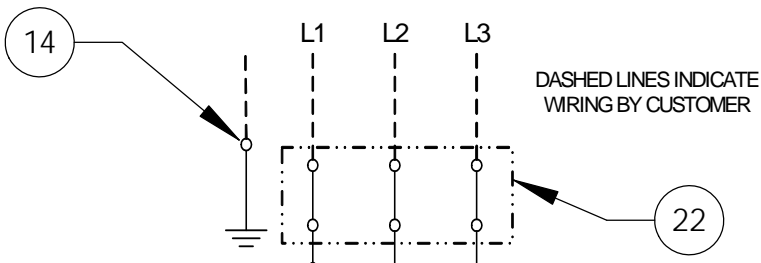


39kW - 208V - 3Ø - 108.3A



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	C2315-6	BRASS PLUG & COPPER SHEATH	HEATING ELEMENT - 1-7/8" HEX 6500W @ 208V
12	1	T1000	VARIOUS	CONTROL MODULE
13	2	C25DNF350B	VARIOUS	MAGNETIC CONTACTOR 65A (RESISTIVE) - 240V
14	1	KA4C	COPPER	GROUND LUG
15	1	J16 CONTROL PLATE	GALVANEEL	ELECTRICAL MOUNTING PANEL
16	1	TD1000	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	N45BU	BRONZE	PRESS REDUCING VALVE 25-75PSI
22	1	PDB175-1X4-3	VARIOUS	POWER DISTRIBUTION BLOCK 175A, 3-POLE, 1 PRIM., 4 SEC.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	----			

13/2X

11/6X

12

19

17

13/2X

15

22

14

12

10/4X

3

1

17

9

5

11/6X

16,18

3

4

7

8

2

23"

9 3/4"

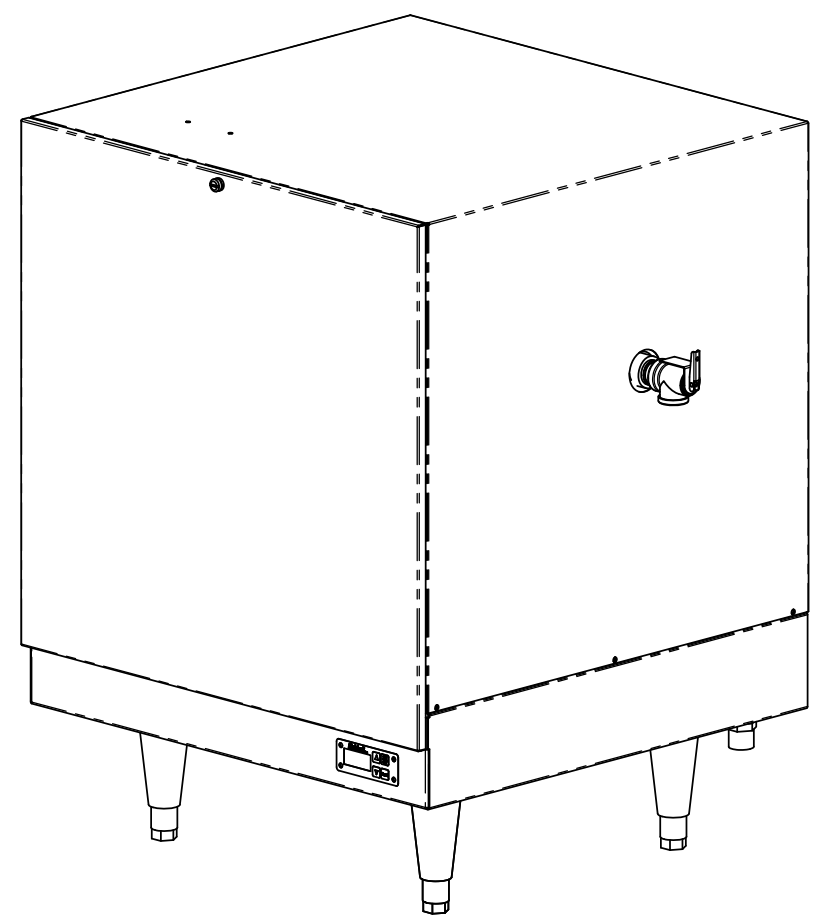
6

25 3/8"

16 1/2"

RIGHT SIDE VIEW

ADJ. 6" TO 8"



LOUVERS (TYPICAL)

2" & 1 1/2" KO

3 1/2"

14"

2 5/8"

3"

16"

FRONT VIEW (WITH COVER REMOVED)

2"

3

2

9 3/4"

2" & 1 1/2" KO

2 5/8"

1 1/4" KO

9 3/4"

3"

3 1/2"

BOTTOM VIEW

INSTALLATION REQUIREMENTS	
AMP Draw	108.3
Min. Breaker/Fuse Size	140 AMP
Cu Power Feed Wire	#1/0 AWG THHN
Min. Power Conduit	1 1/4"
Wiring Diagram	12 (NCB)

**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 #8 TEFZEL 750 (200°C), ELEMENT JUMPER WIRE TO BE #10 TEFZEL 750 (200°C).
  - PHASE TO PHASE RESISTANCE: 2.2 OHMS
  - APPROXIMATE WEIGHT:  
 DRY: 131 LBS.  
 WET: 264 LBS.

**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 ±1/16  
 ANGULAR: MACH ±1/2° BEND ±1°  
 TWO PLACE DECIMAL ±0.01  
 THREE PLACE DECIMAL ±0.005

DRAWN	2/26/03	PRD	Stratford, CT 06615 (203) 378-2659 <b>The Electric Heater Company</b>
CHECKED	2/26/03	WENIII	
ENG APPR.	2/26/03	PRD	
MFG APPR.	2/26/03	CHD	
Customer:			Description: J MODEL BOOSTER HEATER J1639R- 16 GALLON 39kW - 208V - 3Ø
SIZE	DWG. NO.	REV	
<b>C</b>	J1639R	-	
SCALE: 1:8	FSCM: 19857	SHEET 1 OF 1	