

ITEM NUMBERS IN THIS BLOCK ARE IDENTICAL TO THE ITEM NUMBERS USED ON THE SCHEMATIC FLOW DIAGRAM				
ITEM	QTY.	DESCRIPTION	KEMCO #	MANUFACTURER
1	1	9.9 x 10 ⁶ BTU WATER HEATER A, NSF	42-2760	KEMCO MODEL TE-100+
15	2 SETS	1/2" SIGHT GLASS ASSEMBLY, NSF (2 SETS ON EACH HEATER)	1052510	KEMCO
16	8'	5/8" SIGHT GLASS	622-01-001	PLASTIC
17	2	WATER WALL/BURNER FLOODED LEVEL SWITCH	500-06-016	MADISON
18	1	PRESSURE SWITCH (0-30 PSI)	501-01-036	IFM
19	2	3" DIAL THERMOMETER (0-250° F.)	670-01-006	HOWE
20	1	TEMPERATURE SWITCH	502-01-003	HONEYWELL
21	1	SS WELL FOR ITEM #20	671-01-005	HONEYWELL
22	1	1-1/2" LG. TEMP. THERMOCOUPLE	672-02-002	PRECISION MEASUREMENTS
23	1	4" LG. TEMP. THERMOCOUPLE	672-02-003	PRECISION MEASUREMENTS
24	1	12" LG. TEMP. THERMOCOUPLE	672-02-013	PRECISION MEASUREMENTS
28	1	LIQUID FILLED PRESSURE GAUGE (0-100 PSI)	625-02-039	MARSH BELLOFRAM
29	1	NSF HEATER TRANSDUCER PIPING (0-5 PSI)	1055501-5	IFM
30	1	PRESSURE TRANSDUCER (0-58 PSI)	1055511-58	IFM
ITEM	QTY.	DESCRIPTION	KEMCO #	MANUFACTURER
46	59FT ³	BALLAST PACKING RING	840-01-002	KEMCO
47	1	3" SPRAY NOZZLE, SS	720-03-058	BETE FOG
48	1	DOUBLE GAS BLOCKING VALVE (1-1/2")	609-02-015	SIEMENS
49	1	3/8" MANUAL GAS VALVE	614-01-039	APOLLO
50	1	3" BRASS BALL VALVE	614-01-040	APOLLO
51	1	REGULATING VALVE ACTUATOR	609-02-016	SIEMENS
52	1	LOW GAS PRESSURE SWITCH	501-03-044	SIEMENS
53	1	BLOCKING VALVE ACTUATOR	609-02-017	SIEMENS
55	1	HIGH GAS PRESSURE SWITCH	501-03-045	SIEMENS
56	1	3/8" PILOT GAS VALVE (120V)	600-02-001	ASCO
(*)	1	1/2" PILOT GAS PRESS. REGULATOR (BLUE)	575-01-011	MAXITROL
58	1	15HP BLOWER (CCBH), 480V	892-01-242M	N.Y. BLOWER
59	1	AIR PRESSURE SWITCH	501-03-002	ANTUNES
60	1	AIR/GAS DAMPER ACTUATOR	590-01-013	SIEMENS
61	1	OVENPAK BURNER	890-01-012	MAXON
62	1	IGNITION TRANSFORMER	581-01-003	ALLANSON
63	1	BLOWER TRANSITION ASSEMBLY	1019732	KEMCO

(*) INDICATES GAS COMPONENTS REQUIRING GAS VENT LINE. VENT LINES CAN BE RUN INTO A COMMON VENT PIPE IF CODES ALLOWS. IF NOT, A SEPARATE MANIFOLD MUST BE RUN.

NOTES:

- KEMCO HEATER REQUIRES BETWEEN 2 P.S.I. (MIN.) AND 5 P.S.I. (MAX.) GAS PRESSURE AT INLET VALVE. PIPING TO HEATER MUST BE SIZED TO PASS 9,900 C.F.H. OF NATURAL GAS TO BURNER. IF PLANT GAS PRESSURE DIFFERS, A BOOSTER OR REGULATOR MAY BE REQUIRED. (BY CUSTOMER)
- KEMCO HEATER REQUIRES 15 P.S.I. WATER PRESSURE DURING NORMAL OPERATION.


HEATER MODEL TE-100+ SPECIFICATIONS

HEATER BTU RATING - 9.9 x 10⁶ / HR
MAIN BODY DIA. - 54" T316 S.S.
EXHAUST STACK FLANGE DIM. - 24-1/8" I.D.
x 25-7/8" B.C.
x 27-1/8" O.D.

GAS INLET SIZE - 2" NPT
WATER INLET SIZE - 3" FLANGE
HEATER DISCHARGE SIZE - 6" FLANGE
PANEL VOLTAGE REQUIRED - 480V/3/60
SYSTEM VOLTAGE REQUIRED - 480V/3/60
FLOOR SPACE REQUIRED - REF. TO DWG. #21-2489
DRY WEIGHT - APPROXIMATE 2,750 LBS.
OVERALL HEIGHT - 142"

DWG.#	REFERENCE DRAWING
21-2489	EQUIPMENT LAYOUT
42-2759	SCHEMATIC FLOW
42-2762	HEATER A WIRING DIAGRAM

LET.	CHANGE	DATE	BY
A	WAS PRELIMINARY	3/19/24	MK



11500 47th Street N | Clearwater, FL 33762
800-633-7033 | www.kemcosystems.com

MODEL "TE-100 PLUS" HEATER "A" ASSEMBLY
DRAWING 9,900,000 BTU

JOB # 34278
DR. MK
SCALE NONE
DATE 1/23/24
ENG. BERNIE PENDER
APP. BP 3/25/24
APP.

WAYNE FARMS
UNION SPRINGS, AL
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DWG. NO. 42-2760A