



ITEM	QTY.	DESCRIPTION	KEMCO #	MANUFACTURER	ITEM	QTY.	DESCRIPTION	KEMCO #	MANUFACTURER
1	1	9.9 x 10 ⁶ BTU WATER HEATER A, NSF	42-2760	KEMCO MODEL TE-100+	26	4	3" CHECK VALVE, W/ SS TRIM	606-11-004	METRAFLEX
2	1	9.9 x 10 ⁶ BTU WATER HEATER B, NSF	42-2761	KEMCO MODEL TE-100+	27	4	LIQUID FILLED PRESSURE GAUGE (0-100 PSI)	625-02-013	MARSH BELLOFRAM
3	1	HEATER A CONTROL PANEL	42-2762	KEMCO	28	2	LIQUID FILLED PRESSURE GAUGE (0-100 PSI)	625-02-039	MARSH BELLOFRAM
4	1	HEATER B CONTROL PANEL	42-2763	KEMCO	29	2	NSF HEATER TRANSDUCER PIPING (0-5 PSI)	1055501-5	IFM
5	4	HEATER DISCHARGE PUMP (3600RPM, 300GPM, 7.5HP, 460V)	651-04-1007	PACO LC25707(3" x 2.5", 4.91" IMP.)	30	2	PRESSURE TRANSDUCER (0-58 PSI)	1055511-58	IFM
6	2	3" BUTTERFLY VALVE W/ PNEU. MODULATING ACTUATOR	611-01-062	BRAY					
7	2	3" BUTTERFLY VALVE W/ PNEUMATIC ACTUATOR, 120V	611-01-056	BRAY					
8	2	24" DIA 10' LG. STACK SECTION (FOE)	1035853	KEMCO (SS ANGLE RING)					
9	2	24" DIA STACK CAP	1058850	KEMCO					
10	2	NSF TANK TRANSDUCER PIPING (0-5 PSI)	1055506-5	IFM					
11	2	1/4" AIR FILTER W/ AUTO DRAIN	675-01-006	SMC					
12	1	1/4" AIR FILTER/REGULATOR	575-02-032	WILKERSON					
13	1	AIR FILTER AUTO DRAIN	575-02-021	WILKERSON					
14	2	3" WYE STRAINER, EPOXY COATED	680-02-020	WATTS					
15	4	SETS 1/2" SIGHT GLASS ASSEMBLY, NSF (2 SETS ON EACH HEATER)	1052510	KEMCO					
16	16'	5/8" SIGHT GLASS	622-01-001	PLASTIC					
17	4	WATER WALL/BURNER FLOODED LEVEL SWITCH	500-06-016	MADISON					
18	2	PRESSURE SWITCH (0-30 PSI)	501-01-036	IFM					
19	6	3" DIAL THERMOMETER (0-250° F.)	670-01-006	HOWE					
20	2	TEMPERATURE SWITCH	502-01-003	HONEYWELL	A	2	HOT WATER MAKE-UP VALVE NEST	VNS3030PM	KEMCO
21	2	SS WELL FOR ITEM #20	671-01-005	HONEYWELL	B	2	HEATER INLET PIPING	HIS3030FG	KEMCO
22	2	1-1/2" LG. TEMP. THERMOCOUPLE	672-02-002	PRECISION MEASUREMENTS	C	1	HEATER A DISCHARGE PUMP PACKAGE	1062172	KEMCO
23	2	4" LG. TEMP. THERMOCOUPLE	672-02-003	PRECISION MEASUREMENTS	D	2	HEATER RECIRCULATION VALVE NEST	VNS3030P	KEMCO
24	4	12" LG. TEMP. THERMOCOUPLE	672-02-013	PRECISION MEASUREMENTS	E	1	HEATER B DISCHARGE PUMP PACKAGE	1062172	KEMCO
25	4	4" CHECK VALVE, W/ SS TRIM	606-11-005	METRAFLEX					

NOTES: (ALL NOTES MAY NOT BE APPLICABLE TO DRAWING)

- 1) THIS DRAWING IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT A PIPING DIAGRAM.
 2) KEMCO TO FURNISH ONLY EQUIPMENT LISTED ON BILL OF MATERIAL. CUSTOMER TO FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE INSTALLATION. WORK MUST CONFORM TO APPLICABLE LOCAL CODES.
 3) PROTECT ALL EQUIPMENT FROM WEATHER AND WATER DAMAGE. ALL FLUID PIPING AND EQUIPMENT IS INSTALLED OUTDOORS OR IN OTHER AREAS EXPOSED TO AMBIENT TEMPERATURES THAT CAN FALL BELOW FREEZING, THEN THE EQUIPMENT (INCLUDING, BUT NOT LIMITED TO, PUMPS AND PIPING) MUST BE BOTH HEAT-TRACED AND INSULATED. IDLE PUMPS CANNOT BE EXPOSED TO FREEZING CONDITION. DRAIN ALL LIQUID INSIDE PUMP. FAILURE TO DO SO CAN CAUSE DAMAGE TO THE PUMP. PUMP WARRANTIES WILL BECOME VOID IF FREEZE PROTECTION IS NOT PROVIDED.
 4) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PROTECTION BETWEEN DISSIMILAR METALS.
 5) DO NOT RUN PUMP UNTIL DIRECTION OF ROTATION IS CONFIRMED. RUNNING PUMPS WITH BACKWARD ROTATION CAN SEVERELY DAMAGE PUMP AND NULL WARRANTIES.
 6) DO NOT RUN PUMPS DRY AS PERMANENT DAMAGE MAY OCCUR.
 7) ALL AUTOMATIC WATER VALVES SHALL BE MOUNTED HORIZONTALLY.
 8) LEVEL BUBBLERS MADE USING 2" PIPE WITH ONE END THREADED FOR COUPLING. COUPLING MUST BE ABOVE MAXIMUM WATER LEVEL AND BUSHED DOWN TO ACCEPT 1/4" TUBE CONNECTOR. (PIPE TO BE ELEVATED 8' FROM BOTTOM OF PIT.)
 9) STACK SHALL BE CONSTRUCTED OF 304SS AND ALL JOINTS AND FLASHING MUST BE WATER TIGHT AND CAPABLE OF WITHSTANDING 500° F.
 10) ALL PIPING ATTACHMENTS TO PUMP SETS MUST BE SUPPORTED BY CUSTOMER SUCH THAT NO FORCES ARE PUT ON THE PUMP SET.
 11) PITCH STEAM PIPE AWAY FROM THE PILOT TO AVOID WATER POCKETS. (USED WITH SUBMERGED STEAM BUNDLES.)
 12) RECOMMENDED USAGE BASED ON VALVE TYPES:
 a) USE GATE VALVES ON FRESH WATER, WASTEWATER, RECYCLE WATER, STEAM CONDENSATE LINES AND STEAM LINES.
 b) USE BUTTERFLY VALVES ON FRESH WATER AND FILTERED WATER.
 c) USE FULL PORT BALL VALVES ON FRESH WATER, RECYCLE WATER AND WASTEWATER.
 d) USE GLOBE VALVES ON STEAM CONTROL BYPASS.
 13) PIT BLOWER DISCHARGE TO BE NO CLOSER THAN 3' TO PUMP SUCTION (TYPICAL).
 14) SCREEN BOX SHOULD BE LOCATED DIRECTLY BELOW ACCESS HATCH. SCREENS SHOULD BE CLEANED DAILY OR AS REQUIRED.
- 15) SEE FLOWMETER MANUAL FOR INSTALLATION LOCATION INSTRUCTIONS.
 16) BLOWERS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDED SPACE REQUIREMENTS.
 17) MAINTENANCE PLATFORMS TO BE PROVIDED BY CUSTOMER, UNLESS INDICATED ON THE BILL OF MATERIALS.
 18) CAUTION: SIZING OF PIPE IS BASED UPON STEEL. IF COPPER PIPING IS TO BE USED, LARGER SIZES THAN THOSE INDICATED WILL BE REQUIRED TO AVOID EROSION.
 19) CUSTOMER TO PROVIDE TANK VENT TO ATMOSPHERE AND PIPING FROM TANK OVERFLOW TO SEWER. NOT PROVIDING TANK VENT TO ATMOSPHERE WILL CAUSE TANK TO COLLAPSE.
- PROCESS LINES
 1) LINES SHOWN — — — INDICATE 1/4" COPPER TUBING OR EQUIVALENT. COPPER TUBING SHOULD BE CONTINUOUS. AVOID JOINTS AS MUCH AS POSSIBLE TO MINIMIZE PROBABILITY OF LEAK OR BLOCKAGE.
 2) LINES SHOWN — — — INDICATE FUTURE EQUIPMENT.
 3) LINES SHOWN - - - - - INDICATE EXISTING PIPING AND EQUIPMENT.
 4) LINES SHOWN — — — — — INDICATE PREPIPING BY KEMCO SYSTEMS. ALL FIELD CONNECTION HARDWARE (NUTS, BOLTS, GASKETS, ETC.) IS TO BE SUPPLIED BY CUSTOMER/INSTALLING CONTRACTOR. CONNECTION HARDWARE WITHIN PACKAGE WILL BE SUPPLIED BY KEMCO SYSTEMS. THESE ASSEMBLIES ARE LISTED SEPARATELY ON BILL OF MATERIALS AND ARE INDICATED BY A LETTER.
- SYMBOLS
- | | | | | | | | | | | | |
|-----------|---------------------|-----------|-----------------------|-----------|----------------|-----------|------------------------|-----------|-----------------------------|-----------|----------------|
| — — — — — | NORMALLY OPEN VALVE | — — — — — | NORMALLY CLOSED VALVE | — — — — — | GLOBE VALVE | — — — — — | CHECK VALVE | — — — — — | DIAPHRAGM VALVE | — — — — — | FOUR-WAY VALVE |
| — — — — — | MODULATING VALVE | — — — — — | PNEUMATIC VALVE | — — — — — | SOLENOID VALVE | — — — — — | PRESSURE RELIEF VALVE | — — — — — | SAFETY RELIEF VALVE | — — — — — | |
| — — — — — | VACUUM RELIEF VALVE | — — — — — | FLEXIBLE CONNECTOR | — — — — — | PIPE REDUCER | — — — — — | TYPE "J" THERMO-COUPLE | — — — — — | PREPARED PACKAGE ASSEMBLIES | — — — — — | |
- LET. CHANGE DATE BY
 A WAS PRELIMINARY 3/19/24 MK
- KEMCO SYSTEMS** 11500 47th Street N | Clearwater, FL 33762
 800-633-7033 | www.kemcosystems.com
- SCHEMATIC FLOW DIAGRAM**
- | | |
|------------------|---------------------------------------------------------------------------------------------------------------------------|
| JOB # 34278 | WAYNE FARMS |
| DR. MK | UNION SPRINGS, AL |
| SCALE NONE | THIS DRAWING IS THE PROPERTY OF KEMCO SYSTEMS. ALL RIGHTS OF DESIGN ARE RESERVED. DRAWING IS TO BE RETURNED UPON REQUEST. |
| DATE 1/22/24 | K |
| ENG. B. PENDER | |
| APP. BOP 3/25/24 | |
| APP. APP. | |
| NO. 42-2759A | |