



M-5000TS THERMOSTATICALLY CONTROLLED MIXING STATION

Maintenance Instructions

PIPING INSTRUCTIONS

1. Steam traps and strainers are recommended for safe and reliable operation. Condensate will result in "hammering" noises.
2. Before installing the mixer, block out all pipelines to be sure that no dirt, such as pipe chips, wicking or lead can enter the mixing valve. Valve inlets are marked hot and cold. Piping must go to proper inlets. When installing the ball valves, take the Unilever (56) off and thread the Ball Valves (21) evenly onto the pipes.
3. When reinstalling the Unilever (56), do not use the lock nuts to spread the "U." After the handle is on the valve stems, spread the "U" by hand so the handle rests on the base of both valve stems.
4. When tightening the Ball Check Valve Nut (1), the flats on the check valve seats must remain perpendicular to the wall. Hold the seat in place with a wrench while tightening the check valve nut.

IMPORTANT: TEMPERATURE ADJUSTMENT

1. Open inlet valves by moving Unilever (56) to the vertical position.
2. If the unit does not leak, loosen the Jam Nut (30) on the poppet stop assembly and turn the Poppet Stop (31) clockwise until it stops using a 1/8" hex key. Then turn the poppet stop screw 3/4" of a turn counter-clockwise and tighten the lock nut.
3. Operate spray nozzle to get a solid stream spray.
4. Loosen the Control Knob Lock Nut (47) on the temperature control valve and adjust the discharge to the desired temperature. Turning the Control Knob (46) clockwise lowers the temperature and turning it counter-clockwise raises the temperature.
5. Once the desired temperature is set, tighten the temperature Control Knob Lock Nut (47). If the unit still exhibits signs of "hammering," turn the Poppet Stop (31) in quarter turn increments until the operation is smooth. Tighten the Jam Nut (30). This screw can also be used to increase or decrease the temperature range of the unit. Clockwise decreases, counter-clockwise increases the temperature. Tighten the Jam Nut (30) when adjustment is completed.

SPECIFICATIONS

Minimum Working Pressure	80 psi (Steam) - 50 psi (Cold Water)
Maximum Working Pressure	150 psi (Steam) - 80 psi (Cold Water)
Minimum Discharge Temperature	100°F (38°C)
Maximum Water Temperature	200° F (93° C)

ORDERING INFORMATION & PARTS

UNIT INCLUDES A STAINLESS STEEL HOSE RACK. HOSE AND SPRAY NOZZLE SOLD SEPARATELY.

REFER TO THE PARTS LIST FOR MATERIALS AND REPLACEMENT OPTIONS. ALL PARTS ARE BUILT TO LAST, USING ASTM-RATED STAINLESS STEEL, BRASS, AND BRONZE COMPONENTS.



M-5000TS SERIES

PARTS LIST				
ITEM	PART	PART NO.	MATERIAL	QUANTITY
1	BALL CHECK VALVE ASSY. (INCLUDES PART 36)	BCSSG	BRASS/SST	2
2	BALL CHECK GASKET	BCGAC	COPPER	2
3	O-RING WATER CHAMBER HOUSING (SET OF 6)	ORNG222HB	EPDM	1
4	WATER CHAMBER	WCHM5000TS	SST	1
5	STEAM JET	SJET	SST	1
7	ACTUATOR SLEEVE	*	SST	1
8	O-RING FOR BLENDING CHAMBER	ORNG030EA	EPDM	1
9	SPRING THERMOSTAT	*	SST	2
10	O-RING THERMOSTAT HOUSING	*	EPDM	1
11	O-RING STEAM ADJUSTER	*	EPDM	1
12	O-RING POPPET STOP (SET OF 6)	ORNG008IB	EPDM	1
13	POPPET SPRING (SET OF 6)	SPRGM5000TS	SST	1
14	GUIDE EXTENSION	M500PGEX	SST	1
14A	3/4" HEX NIPPLE	MU5TSNIPP0000	BRASS	1
15	PUSHER	M5TSPUSHB	SST	1
16	STEAM POPPET (M)	MU500POPT-COMLETE0001	SST	1
16A	ACTUATOR PIN	*	SST	1
17	POPPET SEAT	PSEATBR	SST	1
18*	STEAM INJECTOR	M5TSSINJ	SST	1
19	DIFFUSER SCREEN	*	SST	1
20	TUBE ASSEMBLY	M500TSTUBE-ASSY0000	COPPER	1
21	BALL VALVE	BV0075BBLUE	BRONZE/SST	2
22	HANDLE SCREW	*	SST	1
24	THERMOSTAT HOUSING	M5TSHOUSB	BRASS	1
26	THERMOSTAT ADJUSTER	*	SST	1
30	JAM NUT (SET OF 6)	JN0050130Z	SST	1
31	POPPET STOP		SST	1
39	TS BODY	M5TSBDFB	BRONZE	1
44	THERMOSTAT	*	BRASS	1
46	CONTROL KNOB	*	PLASTIC	1
47	CONTROL KNOB LOCK NUT	*	SST	1
50	SUPPORT PLATE	M5TSPLATE	SST	1
56	UNILEVER	BVHANDUNI	SST	1
57	TEMPERATURE GAUGE	TGGF02		
	POPPET SEAT TOOL	PSTOOL	SST	
	POPPET TOOL	PTOOL	SST	
	* INDICATES PARTS NOT SOLD SEPARATELY			

