

TECHNICAL MANUAL

OPERATOR'S, UNIT AND
DIRECT SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)
FOR

ELKAY 30 GALLON PER HOUR COOLER

This technical manual is an authentication of the manufacturer's commercial literature and does not conform with the format and the content requirements normally associated with Army technical manuals. This technical manual does, however, contain all essential information required to operate and maintain the equipment.

Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY
10 OCTOBER 1990

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SUPPLEMENTARY INTRODUCTORY MATERIAL

1-1. Maintenance Forms and Records.

Department of the Army forms and procedures used for equipment maintenance will be those described by DA Pam 738-750, The Army Maintenance Management System.

1-2. Reporting Errors and Recommending Improvements.

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letters, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual, directly to: Commander, U.S. Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you.

1-3. Destruction of Army Material to Prevent Enemy Use.

Refer to TM 750-244-3 for instructions covering the destruction of Army Material to prevent enemy use.

1-4. Administrative Storage of Equipment.

a. Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. During the storage period appropriate maintenance records will be kept.

b. Before placing equipment in administrative storage, current preventive maintenance checks and services should be completed. Shortcomings and deficiencies should be corrected, and all modification work orders (MWO's) should be applied.

c. Storage site selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, conex containers and other containers may be used.

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30 GPH COOLER REMOTE MODEL

INSTALLATION

1. This unit is intended for remote installation only. It is important to insure proper ventilation. Allow a minimum clearance of 6 inches in front and 6 inches in the rear of unit.
2. Water inlet and outlet are 3/8" FPT, located on left side of unit.
3. Connecting plumbing lines to be of copper or brass. Before connecting to cooler, thoroughly flush water lines to remove all foreign particles. If flushing does not remove all particles, install a water strainer in the supply line.
4. Connect cooler to the building supply line with a shut-off valve. Install a union connection between the shut-off valve and the cooler.
5. Electrical: Make sure power supply is identical in voltage, hertz, and phase to that specified on cooler serial plate. Never wire compressor directly to the power supply.

START-UP

1. Open supply line valve.
2. Purge, air from all water lines by operating bubbler valve of fountain to which cooler is connected. Steady stream flow assures all air removed.
3. Rotate fan to assure proper clearance and free fan action.
4. Connect to proper electrical power.

TROUBLE SHOOTING & MAINTENANCE

Temperature Control: Factory set for 50° F. water (+5±) under normal conditions. For colder water, adjust screw CW on item No. 2 (see diagram).

Ventilation: Cabinet Louvers and condenser fins should be periodically the above cleaned with brush, air hose or vacuum cleaner. Excess dirt or poor ventilation can cause no cold water and compressor cycling on the compressor overload protector.

Lubrication: Motors are lifetime lubricated.

ITEMIZED PARTS LIST

ITEM NO.	PART NO.	NAME OF PART
1	32176000	Cover-Insulation Box
2	48000072	Control-Cold
3	37268000	Heat Exchanger
4	33075000	Valve-By Pass
5	37269000	Cabinet
6	33484000	Conditioner
7	43543000	Blade-Fan
8	31713000	Motor-Fan
9	70196-C	Screw
10	19050000	Strainer
11	48000036	Compressor
12	30248C	Overload MRA 7950-118
13	48000069	Bale Strap
14	31663000	Grommet
15	19037000	Clip
16	30440C	Capacitor
17	61401-C	Evaporator Ass'y
18	40107001	Screw
19	31817000	Front Panel (Not Shown)
FOR 220/240V 50 Hz USE:		
8	38516000	Motor-Fan
11	37895000	Compressor
12	40405028	Overload
16	30441-C	Capacitor

NOTE: All correspondence pertaining to any of the above coolers or orders for repair parts **MUST** include model number and serial number of cooler name and part number of replacement part.

