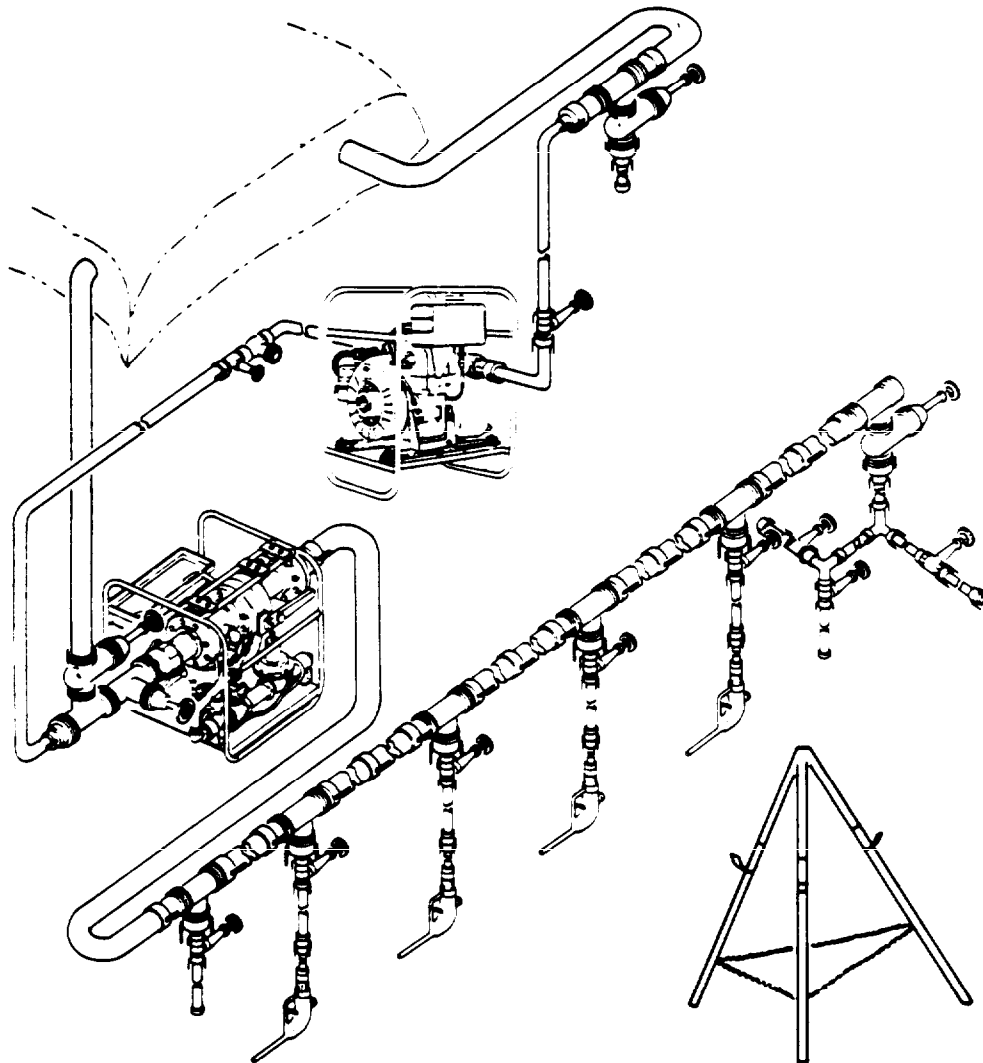


# TECHNICAL MANUAL

## OPERATOR'S, ORGANIZATIONAL, AND DIRECT SUPPORT MAINTENANCE MANUAL



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### WATER DISTRIBUTION SYSTEM

|                  |                  |
|------------------|------------------|
| Model WDS 20K    | 4610-01-114-1452 |
| Model WDS 40K    | 4610-01-114-1450 |
| Model WDS 300K   | 4610-01-114-1453 |
| Model WDS 800K   | 4610-01-114-1451 |
| Model WDS 1,000K | 4610-01-120-7529 |

HEADQUARTERS, DEPARTMENT OF THE ARMY

30 MAY 1986

TECHNICAL MANUAL

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HEADQUARTERS, DEPARTMENT OF THE ARMY  
AND HEADQUARTERS, U.S. MARINE CORPS  
WASHINGTON, D.C., 30 May 1986

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## **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 letter, 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 US Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you. Marine Corps personnel should submit NAVMC 10772 forms to the Commanding General, Marine Corps Logistics Base, Code 850, Albany, Georgia 37104-5000. A reply will be furnished directly to you.

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# CHAPTER 1

## INTRODUCTION

### Section I. GENERAL INFORMATION

#### 1-1. SCOPE.

*Type of Manual:* Operator, Organizational, and Direct Support Maintenance Manual.

*Model Number and Equipment Name:* Models WDS20K, WDS40K, WDS300K, WDS800K, and WDS1,000K.

*Purpose of Equipment:* Stores and distributes potable water at different levels of command.

WDS20K - Stores and distributes 20,000 gallons of potable water for hospital use.

WDS40K - Stores and distributes 40,000 gallons of potable water at Brigade level.

WDS300K - Stores and distributes 300,000 gallons of potable water at Division level.

WDS800K - Stores and distributes 800,000 gallons of water.

WDS1,000K - Stores and distributes 1,000,000 gallons of water.

#### 1-2. MAINTENANCE FORMS AND RECORDS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS). Marine Corps personnel will use forms and records as prescribed by TM 4700-15/1.

#### 1-3. HAND RECEIPT (-HR) MANUALS. Not Applicable.

#### 1-4. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S).

If your Water Distribution System (WDS) needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, U.S. Army Troop Support Command, ATTN: AMSTR-QX, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. Marine Corps users are encouraged to submit EIRs in accordance with MCO 1650.17.

#### 1-5. NOMENCLATURE, CROSS-REFERENCE LIST

This list includes the nomenclature and cross-references used in this manual.

| <i>Common Name</i>          | <i>Official Nomenclature</i>                                                                                      |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|
| 350 GPM Pump                | Pumping Assy, Wheel Mounted, 4-Inch, 350 GPM at 275-Foot                                                          |
| 350 GPM Pump Connection Kit | Connection Kit, 350 GPM Pump                                                                                      |
| 125 GPM Pump                | Pumping Assy, 2-Inch, 125 GPM at 50-Foot                                                                          |
| 125 GPM Pump Connection Kit | Connection Kit, 125 GPM Pump                                                                                      |
| Hypochlorination Unit       | Hypochlorination Unit, Water Purification, Frame Mounted, Automatically Controlled with Bypass, 2 to 400 GPM Flow |

| <i>Common Name</i>                       | <i>Official Nomenclature</i>                                                                                            |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 50K Water Tank                           | Water Tank, Collapsible Fabric, 50,000 Gallon                                                                           |
| Double Connection Kit                    | Connection Kit, Dual Tank                                                                                               |
| 20K Water Tank                           | Water Tank, Collapsible Fabric, 20,000 Gallon                                                                           |
| Single Connection Kit                    | Connection Kit, Single Tank                                                                                             |
| 4-Inch Gate Valve and Tee Connector Assy | Valve and Tee Assy 4-Inch Flanged                                                                                       |
| 4-Inch Tee Connector Assy                | Flanged, Tee Assy, 4-Inch                                                                                               |
| 4-Inch Gate Valve Assy                   | Valve, Gate, Flanged, 4-Inch                                                                                            |
| 2-Inch Gate Valve Assy                   | Valve, Gate, Flanged, 2-Inch                                                                                            |
| 2-Inch Check Valve Assy                  | Valve, Check, 2-Inch                                                                                                    |
| 2-Inch Ball Valve Assy                   | Valve, Ball, 2-Inch                                                                                                     |
| 2-Inch Butterfly Valve Assy              | Valve, Butterfly, Flanged, 2-Inch                                                                                       |
| 2-Inch Connectors                        | Connection, Quick-Disconnect, 2-Inch                                                                                    |
| Stand Assy                               | Stand Assy, Water                                                                                                       |
| Nozzle Connection Kit                    | Connection Kit, Hose Nozzle                                                                                             |
| Bag Filler Connection Kit                | Connection Kit, Bag Filler                                                                                              |
| Hospital Connection Kit                  | Connection, Hospital                                                                                                    |
| 4-Inch by 20-Foot Discharge Hose Assy    | Hose Assy, Rubber, Smooth Bore, Potable Water Discharge, 4-Inch by 20-Foot Long W/Quick Disconnect Cam-Locking Fittings |
| 4-Inch by 20-Foot Suction Hose Assy      | Hose Assy, Rubber, Smooth Bore, Potable Water Suction, 4-Inch by 20-Foot Long W/Quick Disconnect Cam-Locking Fittings   |
| 4-Inch by 10-Foot Discharge Hose Assy    | Hose Assy, Rubber, Smooth Bore, Potable Water Discharge, 4-Inch by 10-Foot Long W/Quick Disconnect Cam-Locking Fittings |
| 4-Inch by 10-Foot Suction Hose Assy      | Hose Assy, Rubber, Smooth Bore, Potable Water Suction, 4-Inch by 10-Foot Long W/Quick Disconnect Cam-Locking Fittings   |
| 4-Inch Hose Connection Kit               | Connection Kit, 4-Inch Hose                                                                                             |
| 2-Inch by 20-Foot Discharge Hose Assy    | Hose Assy, Rubber, Smooth Bore, Potable Water Discharge, 2-Inch by 20-Foot Long W/Quick Disconnect Cam-Locking Fittings |
| 2-Inch by 20-Foot Suction Hose Assy      | Hose Assy, Rubber, Smooth Bore, Potable Water Suction, 2-Inch by 20-Foot Long W/Quick Disconnect Cam-Locking Fittings   |