WATER PUMP, WATER DISTRIBUTION

DESCRIPTION	The Water Pump, Water Distribution is equipment that pumps potable water to a pressurized/elevated water system
RESOURCE CATEGORY	Public Works
RESOURCE KIND	Equipment
OVERALL FUNCTION	The Water Pump, Water Distribution is equipment that pumps water through the water distribution system to bypass disrupted areas
COMPOSITION AND ORDERING SPECIFICATIONS	1. Requestor specifies desired/comparable pump manufacturer and model, as necessary 2. Requestor specifies gallons per minute (GPM) capacity, net positive suction head (NPSH) and discharge head 3. Requestor specifies any materials and equipment necessary to meet potable water deployment requirements 4. Requestor specifies specialized pipe material needs, such as flexible pipe for connections across fault lines 5. Requestor specifies any dimensional limitations 6. Requestor specifies the size and suction of discharge connections 7. Requestor specifies pump and parts disinfection certification, as necessary 8. Can be ordered with staff using the National Incident Management System (NIMS) Utility Worker Specialist – Water Sector Infrastructure

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	TYPE 1	TYPE 2	TYPE 3	TYPE 4	NOTES
EQUIPMENT DESCRIPTION	Same as Type 2	Same as Type 3, PLUS: Weight: approximately 10,500 pounds	Same as Type 4, PLUS: Weight: approximately 5,000 pounds	1. Dry-prime pump 2. Self-contained diesel power with fuel supply 3. Weight: approximately 6,500 pounds 4. Skid mounted	Equipment weight varies between manufacturers. Requestor specifies any weight restrictions
EQUIPMENT PUMP CAPACITY (GALLONS PER MINUTE)	6,000 to 8,000 GPM	4,000 to 6,000 GPM	2,000 to 4,000 GPM	500 to 2,000 GPM	Not Specified
EQUIPMENT HEAD (FEET)	145 feet	160 feet	168 feet	150 feet	Not Specified
EQUIPMENT SUCTION DEPTH (FEET)	Same as Type 2	Same as Type 3	Same as Type 4	10 feet	Not Specified
PERSONNEL ON-SITE SETUP TEAM	Same as Type 2	Same as Type 3	Same as Type 4	2	Not Specified
PERSONNEL TRAINED OPERATOR	Same as Type 2	Same as Type 3	Same as Type 4	2	Not Specified

NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.

REFERENCES

1. FEMA, NIMS 508: Repair Team – Water Distribution System
2. FEMA, NIMS 509: Utility Worker Specialist – Water Sector Infrastructure
3. FEMA, NIMS, October 2017
4. FEMA, National Response Framework, October 2019