

Model STS

Emergency Water Tempering Skid System



WATER TEMPERING SYSTEMS

APPLICATION:

CONTROLS® water tempering system provides usable tempered water immediately in an emergency, where time delays in receiving proper irrigation of hazardous material exposure can increase the severity of trauma and/or injury. **CONTROLS**® offers tank and valve size options that are able to supply multiple showers, eye/face washes and eyewashes simultaneously. All of **CONTROLS**® water tempering systems, when located in a reasonable proximity to possible work place exposure, provide an environment conducive to quick and proper length of treatment, in accordance with ANSI Z358.1, Appendix B6.

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (861 kPa)
Maximum Hot Water Supply Temp: 180°F (82°C)
Outlet Temp. Range: 60°F-95°F (15°C-35°C)
Minimum Hot Water Supply 5°F (3°C)
Above Set Point

NOTE:

SEE MGI CONTROLS® ET71 SERIES VALVE SUBMITTAL SHEET FOR ADDITIONAL VALVE SPECIFICATIONS

Expansion Tank:

Volume 32 Gal (121 L)
Maximum Pressure 40 PSI (276 kPa)

Water Heater Tank:

Capacity 120 Gal (454 L)
Maximum Working Pressure 125 PSI (861 kPa)

Heating Element:

Thermostat 60°F-250°F (16°C-121°C)
Power Requirements 240 VAC
Power 5.477 kW



FEATURES:

- 5' x 5' All stainless steel constructed skid for corrosive environments.
- 120 gallon **NON** ASME tank with ET71-2 tempering valve standard. 120 and 300 gallon ASME tanks optional available. 300 gallon tank will include ET71-3 tempering valve.
- Utilizes **MGI CONTROLS**® ET71 Series tempering valves which are IAPMO certified per ASSE 1071 and CSAB125.3.
- Electrical components in NEMA 4 standard, or optional NEMA 7 classifications.
- Heating element with integral high temperature shut-off.
- 15' (4.5 m), 10 gage, 4 wire power cord with 3", 4 blade twist-lock connector.

GUIDE SPECIFICATION:

Emergency water tempering system shall be mounted to a 5' x 5' stainless steel skid. Tempering system shall include a tempering valve that shall be independent lab certified to ASSE 1071 and CSA standards. Valve shall have an on demand internal cold water bypass of at least 60% of the normal flow rate with a temperature range of 60°F to 95°F (16°C or 35°C) factory set to 85°F (29°C) and adjustable by the safety officer. Hot water tank shall be constructed to ASME standards with an electrical heating element with an integral high temperature limit shut-off. All electrical components shall be single phase NEMA 4 (standard) or NEMA 7 (optional) classifications. Every tempering system shall be factory assembled and tested.

MGI ConTrols® assumes no responsibility for use of void or superseded data. MGI ConTrols®, Lake Bluff, IL, a member of Morris Group International®. Please visit www.mgicontrols.com for most current specifications.

Submittal # **STS**
Revised: 08/15/2024

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Product carries the following certifications:



C ASSE 1071
CSA B125.3



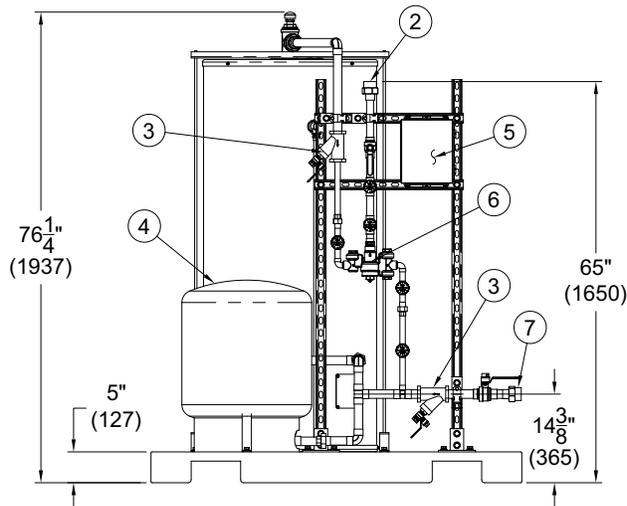
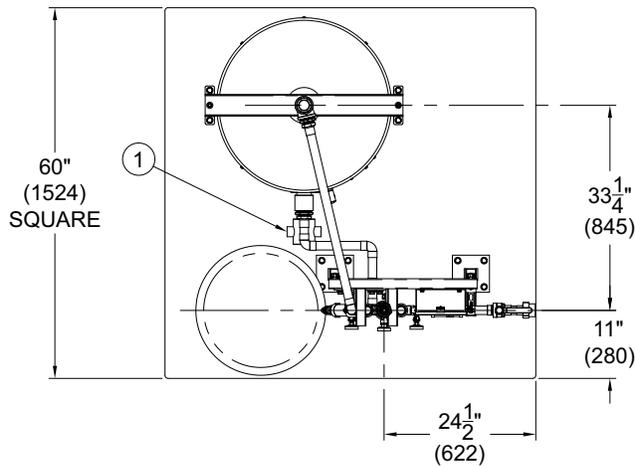
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OPTIONS:

- STS-1 120 Gallon **NON** ASME Tank (Standard) With ET71-2 Tempering Valve
- STS-1A 120 Gallon ASME Tank With ET71-2 Tempering Valve
- STS-3 300 Gallon ASME Tank With ET71-3 Tempering Valve
- NEMA 7 Class Components
 - Division 1
 - Division 2
- Booster Pump
Manufacturer and Model Number: _____
- Recirculation Pump

TECHNICAL DIMENSIONS:



WATER TEMPERING SYSTEMS

PUMP INFORMATION:

Manufacturer: _____

Manufacturer Part Number: _____

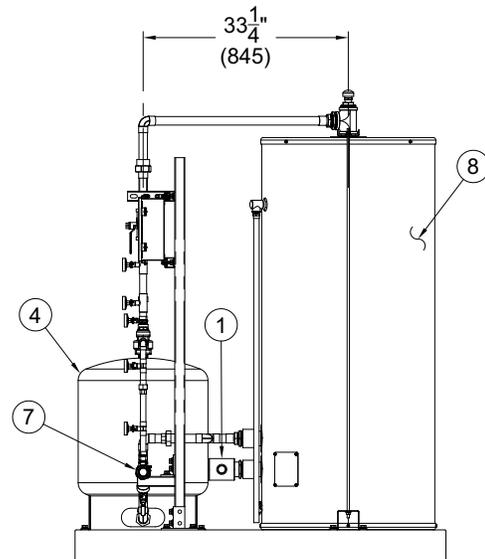
IF PUMP NOT SPECIFIED ABOVE, MUST PROVIDE THE FOLLOWING

System Head Loss: _____

Required Flow: _____

NOTES:

- ① ELECTRIC HEATING ELEMENT
- ② 1" NPT OUTLET CONNECTION
- ③ "Y" STRAINERS
- ④ EXPANSION TANK
- ⑤ ELECTRICAL CONTROL BOX
- ⑥ ET71 SERIES TEMPERING VALVE
- ⑦ 1" NPT SUPPLY INLET
- ⑧ WATER HEATER TANK



STS Revised: 08/15/2024

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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SELECTION SUMMARY & APPROVAL FOR MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing) _____ Date _____



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