Model STS

Emergency Water Tempering Skid System

APPLICATION:

Acorn 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. Acorn Controls offers tank and valve size options that are able to supply multiple showers, eye/face washes and eyewashes simultaneously. All of Acorn 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: 6	0°F-95°F (15°C-35°C)
Minimum Hot Water Supply	
NOTE:	Above Set Point

SEE ACORN CONTROLS ET71 SERIES VALVE SUBMITTAL SHEET FOR ADDITIONAL VALVE SPECIFICATIONS

Expansion Tank:

Volume
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 Acorn Controls ET71 Series tempering valves which are IAPMO certified per ASSE 1071 and CSAB125.3.
- Electrical components in NEMA4 standard, or optional NEMA7 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 NEMA4 (standard) or NEMA7 (optional) classifications. Every tempering system shall be factory assembled and tested.

Acom Controls assumes no responsibility for use of void or superseded data. © Copyright Acom Controls , City of Industry, CA, Division of Acom Engineering Company, Member of Morris Group International. Please visit <u>www.acorneng.com</u> or most current specifications. Submittal # STS	Product carries the following certifications:	Est. 1954 ACORN ENGINEERING COMPANY Menufacturer of Engineered Products	ACORN ENGINEERING COMPANY P.O. BOX 3527 City of Industry, CA 91744, U.S.A. Phone 800-488-8999 626-336-4561 Fax 626-961-2200
Revised: 08/06/18	ASSE 1071 CSA B125.3	Member of Morris Group International®	www.acorneng.com

OPTIONS:

STS-1	120 Galllon NON ASME Tank (Standard) With ET71-2 Tempering Valve			
🔲 STS-1A	120 Galllon ASME Tank With ET71-2 Tempering Valve			
🔲 STS-3	300 Gallon ASME Tank With ET71-3 Tempering Valve			
NEMA 7 Class Components				

Division 1

Booster Pump Manufacturer and Model Number: _

(1)

60"

(1524)

SQUARE

Recirculation Pump

TECHNICAL DIMENSIONS:



PUMP INFORMATION:

Manufacturer:

Manufacturer Part Number:

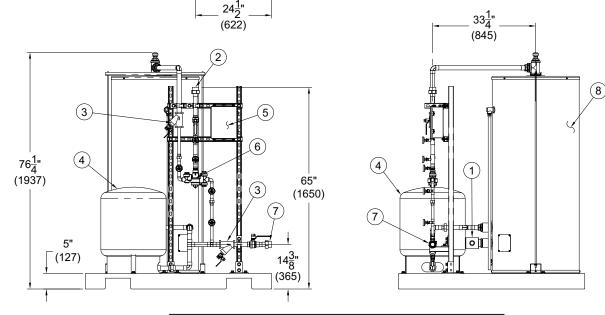
IF PUMP NOT SPECIFIED ABOVE, MUST PROVIDE THE FOLLOWING

System Head Loss: _____

Required Flow:

NOTES:

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



 $33\frac{1}{4}$ "

(845)

11" (280)

STS Revised: 08/06/18

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

Acorn Controls warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. Industry, California.

MMARY For Ring	Model Number & Options	Quantity	CON ROLS"
	Company		
CTION PPRO NUFA	Contact	_Title	800-488-8999
SELEC & AF MAN	Signature (Approval for Manufacturing)	Date	or 626-336-4561 www.acorneng.com