



# model 9400LPS

AXION® low-pressure steam water heater

## OPERATION

When an emergency shower or eyewash is activated, the flow of water opens a steam control valve. The steam enters a brazed plate heat exchanger, instantly heating the water. A mixing valve blends hot and cold water to produce an output of 80° F (27° C ) tepid water. Additional valves keep the system preheated, freeze protected and scald protected. The steam valve will remain closed should there be a loss of water pressure.

## FEATURES & BENEFITS

### FLOW RATES

Provides 3 to 25 GPM (11 to 95 LPM) of tepid water.

### OPERATION

Low pressure system operates on typical plant steam pressure, 15-30 PSIG (1-2 BAR) is recommended. Steam and water never mix, separated by brazed plate heat exchanger.

### ASSE COMPLIANT AXION THERMOSTATIC MIXING VALVE

Unit employs a paraffin filled thermostatic mixing element with the lowest internal pressure drop where supply pressure is low. The modular brass design with a one piece casting uses internal check stops, oversized valve seats, a shuttle design that eliminates valve sticking, and a funnel design to improve temperature control with better mixing at low flow rates.

### INSTALLATION

Ease of installation, uses existing plant steam and water supply. Union connections are provided for quick installation. Compact, lightweight design, easily supported by pipe connections.

### SERVICING

Durable, protective enclosure can be readily removed for servicing.

### MEDICALLY SUPERIOR RESPONSE®

AXION's superior design and technology provide a complete safety solution for increased victim comfort.



## SPECIFICATIONS

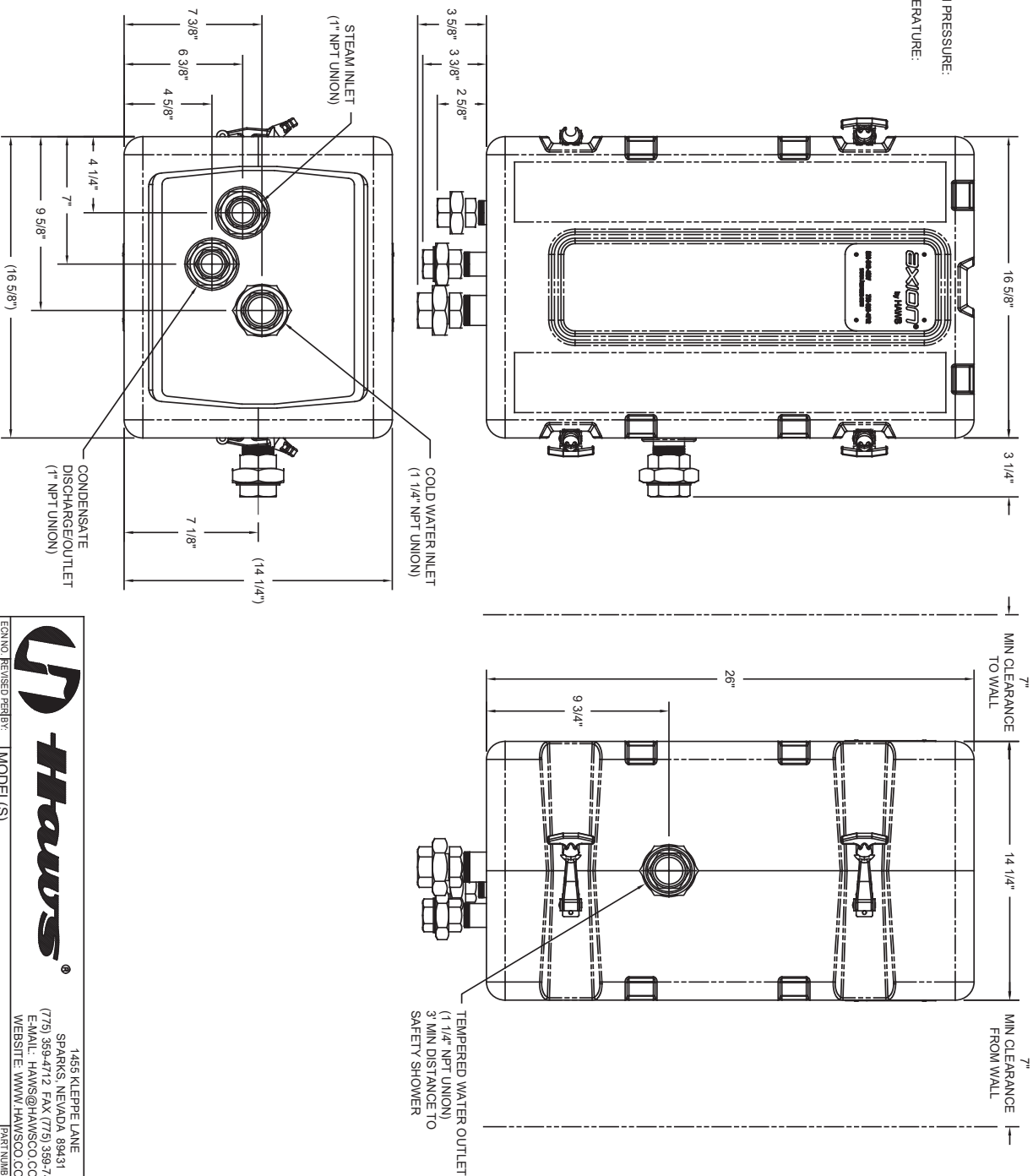
### Model 9400LPS – Low-Pressure Steam Water Heater

	MAXIMUM		MINIMUM	
Outlet Flow Rate	25 GPM	95 LPM	3 GPM	11 LPM
Ambient Operating Temperature	120° F	49° C	-30° F	-34° C
Inlet Water Pressure	90 PSIG	6 BAR	55 PSIG	4 BAR
Inlet Water Temperature	80° F	27° C	40° F	4° C
Inlet Steam Pressure	30 PSIG	2 BAR	15 PSIG	1 BAR
Steam Temperature	350° F	177° C		
Cold Water Bypass Flow Rate	24 GPM @ 25 PSI Pressure Drop			
Water Inlet & Outlet Pipe Size	1 1/4" NPT (F)			
Steam Supply & Condensate Pipe Size	1" NPT (F)			
Steam Consumption	600 lb/hr @ 25 GPM Flow Rate, 20 lb/hr @ Idle			
Condensate Discharge Rate	12 GPH maximum			
Pressure Drop Water Inlet to Water Outlet	25 PSI @ 25 GPM			

THIS DOCUMENT IS TRUE AND CORRECT AT TIME OF PUBLICATION. CONTINUED PRODUCT IMPROVEMENTS  
MAKE SPECIFICATIONS AND MEASUREMENTS SUBJECT TO CHANGE WITHOUT NOTICE.

NOTES:

1. DIMENSIONAL TOLERANCES:  $\pm 1/2"$
2. RECOMMENDED WATER PRESSURE:  
55 psi (3.79 bar) MIN.  
90 psi (6.21 bar) MAX.
3. RECOMMENDED SATURATED STEAM PRESSURE:  
15 psi to 30 psig (1.03 to 2.07 bar)
4. MAXIMUM SATURATED STEAM TEMPERATURE:  
274° F (134° C) @ 30 psig (2.07 bar);  
250° F (121° C) @ 15 psig (1.03 bar)



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REVISION 7

AXION STEAM WATER HEATER LOW PRESSURE  
APPROVED: 07/02/18 SCALE: NA DRAWING TYPE: INSTALLATION SIZE: A SHEET 1 OF 1