



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.

DESIGNED TO MEET ASSE 1071 REQUIREMENTS

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.



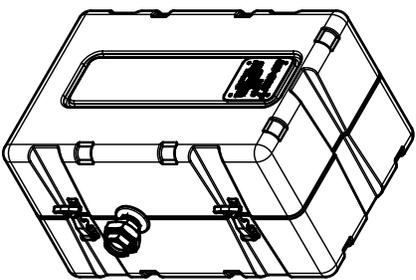
SPECIFICATIONS

Model 9400LPS – Low-Pressure Steam Water Heater

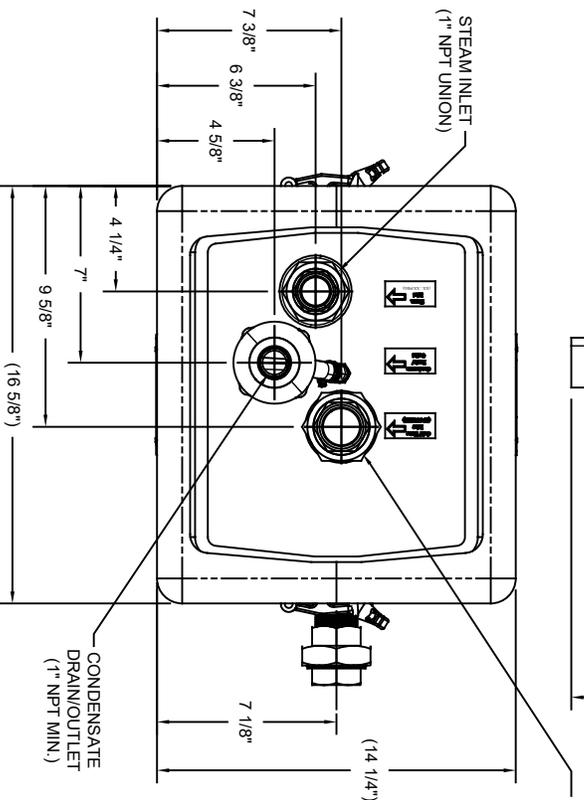
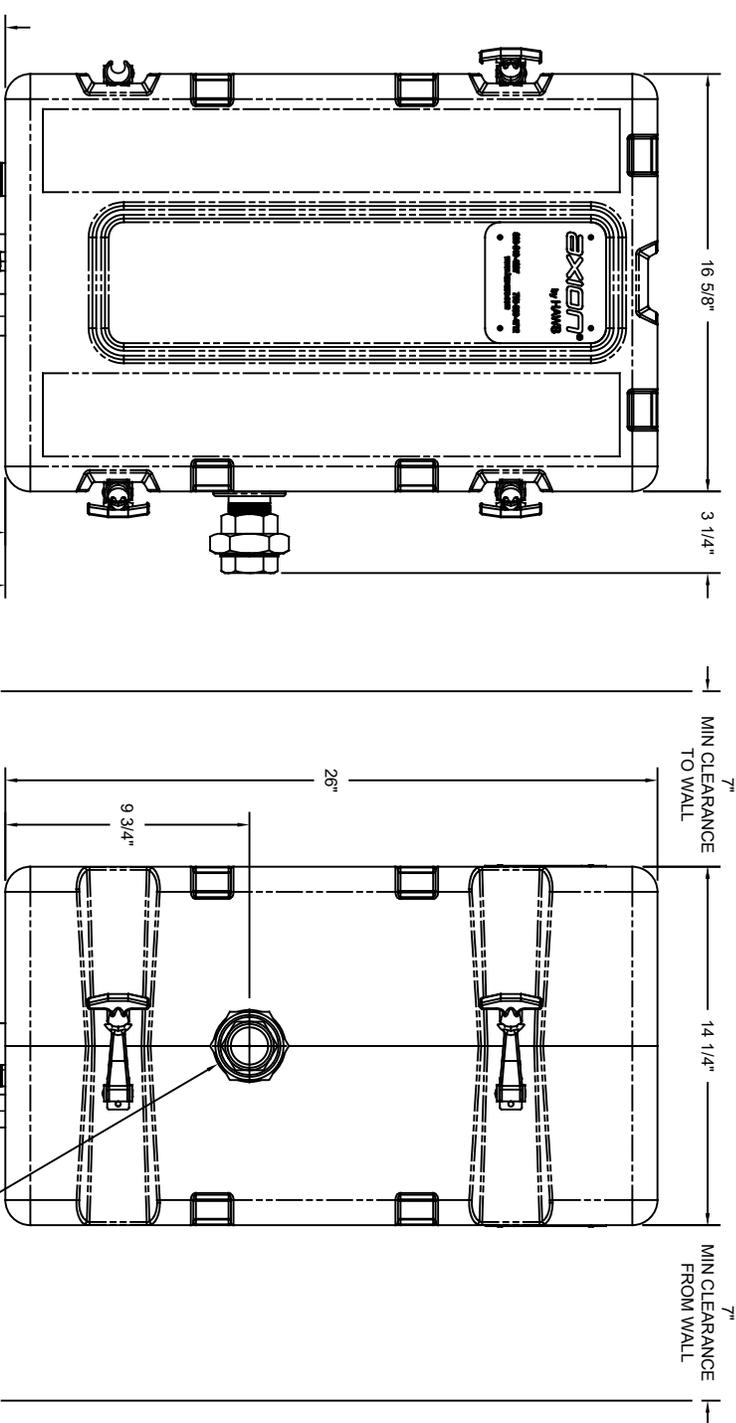
	MAXIMUM		MINIMUM	
Outlet Flow Rate	25 GPM	95 LPM	3 GPM	11 LPM
Ambient Operating Temperature	120° F	49° C	-30° F	-34° C
Inlet Water Pressure	90 PSIG	6 BAR	55 PSIG	4 BAR
Inlet Water Temperature	80° F	27° C	40° F	4° C
Inlet Steam Pressure	30 PSIG	2 BAR	15 PSIG	1 BAR
Steam Temperature	350° F	177° C		
Cold 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			

NOTES:

1. DIMENSIONAL TOLERANCES: ±1/2".
2. RECOMMENDED WATER PRESSURE:
55 psi (3.79 bar) MIN.
90 psi (6.21 bar) MAX.
3. MODEL 9400:
RECOMMENDED SATURATED STEAM PRESSURE:
45 psi TO 60 psi (3.10 bar TO 4.14 bar)
MAXIMUM SATURATED STEAM TEMPERATURE:
350° F (177° C)
4. MODEL 9400LPS:
RECOMMENDED SATURATED STEAM PRESSURE:
15 psi TO 30 psi (1.03 bar TO 2.07 bar)
MAXIMUM SATURATED STEAM PRESSURE:
274° F (134° C) @ 30 psi (2.07 bar)
250° F (121° C) @ 15 psi (1.03 bar)



MODEL 9400 SHOWN



COLD WATER INLET (1 1/4" NPT UNION)

DRAIN LINE WITH AIR GAP FITTING (1" NPT MIN.)

TEMPERED WATER OUTLET (1 1/4" NPT UNION) 3 MIN DISTANCE TO SAFETY SHOWER



Haws

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ECN NO. REVISED PER BY:	MODEL(S)
4930	9400/9400LPS
DATE:	DATE:
10/01/14	11/1/22
VC:	SCALE:
FV	NA
DATE:	DRAWING TYPE:
11/1/22	INSTALLATION
APPROVED:	SIZE:
FV	A
DATE:	SHEET:
11/1/22	1 OF 1
REVISION:	REVISION:
11	11
PART NUMBER	0002080243.D