ASSE International Product (Seal) Listing Program

ASSE 1023-2020

Performance Requirements for Electrically Heated or Cooled Water Dispensers

Manufacturer:				
	E-mail:			
Address:				
	Laboratory File Number:			
Model # Tested:				
Model Size:				
Additional models report applies to:				
Additional Model Information (i.e. orientation, series, end connections, shut-off valves)				
Date models received by laboratory:	Date testing began:			
Date testing was completed				
If models were damaged during shipment, describe damages:				
Prototype or production sample?				
Were all tests performed at the selected laboratory? ○ Yes ○ No				
If offsite, identify location:				

General information and instructions for the testing engineer:

The results within this report apply only to the models listed above.

There may be items for which the judgment of the test engineer will be involved. Should there be a question of compliance with that provision of the standard, a conference with the manufacturer should be arranged to enable a satisfactory solution of the question.

Should disagreement persist and compliance remain in question by the test agency, the agency shall, if the product is in compliance with all other requirements of the standard, file a complete report on the questionable items together with the test report, for evaluation by the ASSE Seal Control Board. The Seal Control Board will then review and rule on the question of compliance with the intent of the standard then involved.

Documentation of material compliance must be furnished by the manufacturer. The manufacturer shall furnish to the testing agency, a bill of material which clearly identifies the material of each part included in the product construction. This identification must include any standards which relate thereto.

Section I

1.0	Genera	al						
1.1	Applic	ation						
	Does t	Does the device meet the application?						
		O Yes O No O Questionable						
	If no o	r questionable, explain						
1.2	Scope	and Purpose						
	1.2.1	Description						
		Does this device conform to this section?						
		O Yes O No O Questionable						
		If no or questionable, explain						
	1.2.2	Connections						
		Check all that apply for the pipe threads and other connections:						
		Tapered pipe threads comply with ASME B1.20.1.						
		Dry seal pipe threads comply with ASME B1.20.3.						
		Compression connections comply with SAE J512.Soldered connections comply with ASME B16.18 or ASME B16.22.						
		Push fit connections comply with ASSE 1061.						
		Press connections comply with ASME B16.51.						
	1.2.3	Storage Tank Vent						
	2.2.0	For devices that heat water, is the storage tank continuously vented to the atmosphere?						
		O Yes O No O Questionable O N/A						
		If no or questionable, explain						
	1.2.4	Dispensing Nozzle or Tip						
		Is the dispensing nozzle, or tip, threaded or serrated to accept a tube or pipe to convey						
		water to any location other than that intended?						
		O Yes O No O Questionable						
		If yes or questionable, explain						
	1.2.5	Size Range						
		Size of the connections to the potable water supply:inch (DN) nominal size						
	1.2.6	Temperature Range						
		For devices that heat water, what is the minimum temperature hot water can be dispensed at?°F (°C)						
		For devices that cool water, what is the maximum temperature cold water can be						
		dispensed at?°F (°C)						
	1.2.7	Pressure Range						
	,	What static pressure range can the device operate at? to psi (to						
		kPa) kPa						
	1.2.8	Electrical Requirements						
	For devices that cool, or both cool and heat water, for dispensing, does the							
		with UL 399?						
		O Yes O No O Questionable O N/A						
		If no or questionable, explain						

For devices that only heat and dispense heated water, does the device 499?			e device comply with UL				
			Yes	O No	O Questionable	O N/A	
		If no or question	nable, expla	in			
	1.2.9	Carbonation ba	ckflow prote	ection			
	Is there a connection to a carbonator?						
			Yes .	O No	O Questionable		
		If questionable,					
		ASSE 1022?	e water prot	ected from	dissolved CO_2 by way of	f a device compliant with	
			Yes Yes	O No			
				in			
	1.2.10	Cooling Capacit	У				
		See Section 3.3.					
	1.2.11	Fittings	_				
		Are the dispens B125.1?	er fitting an	d all plumb	ed fittings compliant wit	h ASME A112.18.1 / CSA	
		_	Yes Yes	O No	O Questionable		
		If no or question	nable, expla	in			
3 - 4!	••						
Secti							
2.0	-	ecimens					
2.1	•	es Submitted					
	How m	any samples wer	e submitted	l by the ma	nufacturer for testing? _		
Secti	on III						
3.0	Perforr	mance Requireme	ents and Co	mpliance T	esting		
3.1	Abnorr	Abnormal Discharge and Minimum Water Temperature					
		Does the device include a water heater?					
		_	Yes Yes	O No			
		If yes, proceed t					
		If no, proceed to	Section 3.2	? .			

	3.1.2	Procedure
		4) After the heater is energized, what was the peak power consumption? W
		8) What was the temperature of each dispensing cycle?
		Cycle 1:°F (°C)
		Standby Period: minutes Standby Period: minutes
		Cycle 2:°F (°C)
		Standby Period: minutes Standby Period: minutes
		Cycle 3:°F (°C)
		Standby Period: minutes Standby Period: minutes
		Cycle 4:°F (°C)
		Standby Period: minutes Standby Period: minutes
		Cycle 5:°F (°C)
		Standby Period: minutes
	3.1.3	Criteria
		Was there any leakage following any dispensing cycle?
		O Yes O No O Questionable
		If yes or questionable, explain
		Was there any leakage during the standby period between cycles? O Yes O No O Questionable
		O Yes O No O Questionable If yes or questionable, explain
		Does the minimum temperature of the hot water dispensed comply with Section 1.2.6?
		O Yes O No O Questionable
		If no or questionable, explain
		Is the device in compliance with this section?
		O Yes O No O Questionable If no or questionable, explain
		ii iio oi questionable, explain
3.2	Inetan	t Capacity for Heated Water
). <u>Z</u>	mstan	Does the manufacturer make any claims of instant capacity?
		O Yes O No
		If yes, proceed to Section 3.2.2.
		If no, proceed to Section 3.3.
	3.2.2	Procedure
		Trial 1:
		What was the supply water temperature?°F (°C) What was the static water pressure? psi (kPa)
		What was the device's heater temperature set to? °F (°C) or set to
		What was the flow rate? gpm (L/s)
		After the water temperature as measured at T2 fell below 165°F, what was the volume of
		water dispensed? gal (L)
		Trial 2: What was the supply water temperature?°F (°C)
		What was the static water pressure? psi (kPa)
		What was the device's heater temperature set to? °F (°C) or set to

		What was the flow rate? gpm (L/s) After the water temperature as measured at T2 fell below 165°F, what was the volume of water dispensed? gal (L) Trial 3: What was the supply water temperature? °F (°C) What was the static water pressure? psi (kPa) What was the device's heater temperature set to? °F (°C) or set to What was the flow rate? gpm (L/s) After the water temperature as measured at T2 fell below 165°F, what was the volume of water dispensed? gal (L)
	3.2.3	Criteria
		What was the average volume of water dispensed? gal (L) What is the manufacturer's claimed instant capacity for temperatures greater than or equal to 165°F (73.9°C)? gal (L) Is the device in compliance with this section? O Yes O No O Questionable If no or questionable, explain
3.3	Contin	uous Capacity
	3.3.1	Purpose Did the manufacturer make a claim for continuous capacity? O Yes O No If yes, proceed to Section 3.3.2. If no, proceed to Section 3.4.
	3.3.2	Procedure Does the device cool water? O Yes O No Does the device heat water? O Yes O No
		For devices that cool water, were the procedures for the Capacity Test for Ratings in
		ASHRAE 18 followed? O Yes O No O Questionable O N/A If no or questionable, explain
		If yes, attach detailed report to ASHRAE 18 to confirm compliance, or request additional test report from ASSE.
		For devices that heat water, were the procedures for the Hot-Water-Dispenser Capacity Test in ASHRAE 18 followed?
		O Yes O No O Questionable O N/A
		If no or questionable, explain

	3.3.3	Criteria What was the resulting capacity from the test? gal (L) Is the device in compliance with this section?					
		O Yes O No O Questionable					
		If no or questionable, explain					
3.4	Conta	minant Reduction					
J. 4	Contai	Does the device include an integral means of contaminant reduction, and is it considered					
		a drinking water treatment device?					
		O Yes O No					
		If compliance is known, state the certification bodies and certificate/file numbers as					
		appropriate:					
Secti	on IV						
4.0	Detaile	ed Requirements					
4.1	Mater	ials					
	4.1.2	Lead Content					
		What is the lead content, by mass, of the solder and fluxes in contact with potable water?					
		Is the device intended to convey or dispense water for human consumption through					
		drinking or cooking?					
		O Yes O No O Questionable					
		If questionable, explain					
		If yes, what is the weighted average lead content of the fittings and device when evaluated					
	412	in accordance with the test method specified in NSF/ANSI 372?%					
	4.1.3	Material Safety For devices with contaminant reduction capabilities, does the material safety comply with					
		the applicable standards listing in Section 3.4?					
		O Yes O No O Questionable					
		If no or questionable, explain					
4.2	1	ation and Maintenance Instructions					
4.2		ation and Maintenance instructions					
	4.2.1						
		Were instructions for installing, adjusting, and maintaining the device included with each device?					
		O Yes O No O Questionable					
		If no or questionable, explain:					
	4.2.2						
		Check all those that were found on the installation instructions:					
		Inlet connection size.					
		Maximum working pressure.					
		For heated water, the instant capacity.					
		☐ When applicable, the continuous capacity for cooled or heated water.					

	4.2.3	
		Do the instructions indicate that the device shall be installed in such a manner for
		replacement and repair?
		O Yes O No O Questionable
		If no or questionable, explain:
	4.2.4	
		For devices dispensing hot water, do the installation instructions provide a warning that
		the device can create a scald hazard?
		O Yes O No O Questionable
		If no or questionable, explain:
	4.2.5	
		Do the instructions state that the dispenser shall be installed in compliance with the
		appropriate local codes including both plumbing and electrical?
		O Yes O No O Questionable
		If no or questionable, explain:
	4.2.6	
		Does the device include a reverse osmosis subassembly and drain connection?
		O Yes O No
		If yes, do the installation instructions provide instructions to install an air gap device to the drain connection or a discharge to an indirect receptor through an air gap?
		O Yes O No O Questionable
		If no or questionable, explain:
4.2	Installs	ation Dimensions
4.3	IIIStalla	Does the outlet and surrounding geometry of the dispensing fitting comply with the air
		gap requirements of ASME A112.1.2 or IAPMO PS 65?
		O Yes O No O Questionable
		If no or questionable, explain:
		in the or questionable, explain.
4.4		ication and Markings
	4.4.1	
		Does the device have the following marked on the label?
		☐ Manufacturer's name, trademark, or other mark or, in the case of private labeling,
		the name, trademark, or other mark of the customer for whom the product was
		manufactured;
		Model number
	4.4.2	
	7.7.2	Do the labels comply with UL 969 for permanence and other markings requirements as
		required by the applicable electric standards?
		O Yes O No O Questionable
		If no or questionable, explain:

LISTED LABORATORY:			
ADDRESS:			
PHONE:	FAX:		
TEST ENGINEER(S):			
If applicable:			
OUTSOURCED LABORATORY:			
ADDRESS:			
PHONE:	FAX:		
TEST ENGINEER(S):			
Scope of outsourced testing:			
We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.			
Signature of the official of the listed laboratory: Signature			
Title of the official:	Date:		