# ASSE International Product (Seal) Listing Program

#### **ASSE 1060-2017**

# Outdoor Enclosures for Fluid Conveying Components

Manufacturer:				
Contact Person:	E-mail:			
Address:				
Laboratory:	Laboratory File Number:			
Model # Tested:				
Additional Model Information (i.e. orientation, ser	ies, end connections, shut-off valves)			
Date models received by laboratory:	Date testing began:			
Date testing was completed				
If models were damaged during shipment, descri				
Prototype or production sample?				
Were all tests performed at the selected laborator	ry? O Yes O No			
If offsite, identify location:				
·				
General information and instructions for the testi The results within this report apply only to the models				
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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

·	ourpose of the device, as stated by the manufacturer, in compliance with this section?  O Yes O No O Questionable						
If no or	questionable, explain						
Scope							
1.2.1	Does the device conform to the product described in this section?						
	O Yes O No O Questionable						
	If no or questionable, explain						
1.2.2	Classes						
	Does the enclosure have a minimum thermal resistance value of R8?						
	O Yes O No O Questionable						
	If no or questionable, explain						
	Is the enclosure heated?						
	O Yes O No O Questionable						
	If no or questionable, explain						
	Is the enclosure designed for components that generate positive and/or negative air pressur						
	O Yes O No O Questionable						
	If no or questionable, explain						
	Manufacturer claims that the enclosure has a classification of:						
	☐ Class I ☐ Class I-V						
	☐ Class II ☐ Class II-V						
	☐ Class III ☐ Class III-V						
1.2.3	Heat Sources (Class I and I-V)						
	The heater shall be listed by an independent third-party certification body for use in damp o						
	wet locations.						
	Certification body:						
	Certificate number:						
	Date of expiration:						
	Attach a copy of the certificate to this report.						
	Are the heat sources constructed and installed so that water or other liquids will not enter						
	and/or accumulate in or on the live wired sections or electrical components or wiring?  O Yes O No O Questionable						
	If no or questionable, explain						
	Were instructions for heater mounting and location included?						
	O Yes O No O Questionable						
	If no or questionable, explain						

Is the heater in compliance?			
O Yes O No	O Questionable		
If no or questionable, explain			
ion II			
Test Specimens			
Samples submitted for Test			
State the overall dimensions of the enclosur	е		
Length: in	(cm)		
Width: in	(cm)		
Height: in	(cm)		
(Internal volume, if known):	ft³	(m³)	
If Class I or I-V, state the heater power:	BTU/hr	(W)	
If enclosure is vented, state the claimed ven	nt capacity: ft³/	/min	(m³/min)
Briefly summarize the design of the enclosur	re:		
Drawings and Technical data			
Were assembly and installation drawings pro O Yes O No	ovided?		
If enclosure is vented, drain opening area pe	er manufacturer:	in²	(cm <sup>2</sup> )
Were literature on the insulation, wall, and roother design data submitted?	oof materials, thermal res	sistance (R) valu	ue calculations
<u> </u>	Questionable		
If no or questionable, explain			

#### Section III

### 3.0 **Performance Requirements and Compliance Testing** 3.1 Air Vent Requirement (Class I-V, II-V, and III-V only) Free area of vent as found by drawing review: in<sup>2</sup> (cm<sup>2</sup>) $\frac{\frac{ft^3}{min}}{500\frac{ft}{min}} \times 12\frac{in}{ft} = \underline{\qquad} in^2$ Claimed vent capacity from section 2.1: Is the vent in compliance? O Yes O No O Questionable If no or questionable, explain 3.2 Structural Test (All Classes) Item 1 Place sand bags on the top of the entire enclosure. Weight of sand bags \_\_\_\_\_ lbs \_\_\_\_ (N) Was there any damage or permanent deformation that restricts access to the components inside or prevents the enclosure from complying with the rest of the standard? O Yes O No O N/A O Questionable If no or questionable, explain Item 2, if the height of the enclosure is <36in (<914mm) in height Place vertical load on enclosure. Weight of vertical load \_\_\_\_\_ lbs \_\_\_\_(N) Dimensions of area that vertical load occupies on enclosure: Length: \_\_\_\_\_ in \_\_\_\_ (cm) Width: \_\_\_\_\_ in Area: \_\_\_\_\_ ft<sup>2</sup> (m<sup>2</sup>) Was there any damage or permanent deformation that restricts access to the components inside or prevents the enclosure from complying with the rest of the standard? O Yes O No O N/A Questionable If no or questionable, explain Repeat item 2 on a second sample if item 2 was required. Was there any damage or permanent deformation that restricts access to the components inside or prevents the enclosure from complying with the rest of the standard? O No O N/A Questionable O Yes If no or questionable, explain \_\_\_\_\_ 3.3 Access for Testing and Maintenance (All Classes) What type of access does the enclosure design use? O Lift-off O Access Panel O Full Entry Other

	If other, describe:
	If design uses an access panel, does it comply with sections 3.3.2 and 3.3.3?  O Yes  O No  O N/A  O Questionable
	If no or questionable, explain
3.4	Hinged Access Panels Restrains Test (All Classes)  If design uses a hinged panel, can it be securely restrained in the open and closed positions?  O Yes  O No  O N/A  O Questionable  If no or questionable, explain
	Measure the force to gain access into the enclosure lbs (N)
	Is the enclosure in compliance with this section?  O Yes O No O N/A O Questionable  If no or questionable, explain
3.5	Drainage Performance Test (All Classes)  Maximum backflow preventer size as claimed by manufacturer: in (cm)  Required minimum discharge rate per ASSE 1060-2017: GPM (L/s)
	Water at discharge rate injected into enclosure for min  Maximum water height inside enclosure: in (cm)  Final water height inside enclosure: in (cm)
	Is the enclosure in compliance with this section?  O Yes O No O N/A O Questionable  If no or questionable, explain
3.6	Freeze Protection Capability Test (Class I and I-V)  Minimum temperature of controlled atmosphere chamber/room: °F (°C)
	What type of heat source does the enclosure use (electric heater, heating cables, etc.)
	Height of thermocouples on pipe from concrete pad: in (cm)  Distance of pipe from interior wall of enclosure: in (cm)  Nominal diameter of pipe: in (cm)  Length of pipe: in (cm)
	Chamber/room temperature cooled to: °F ± (°F), (°C) ± (°C)

Average temperature of both thermocouples every hour:

Hour	۶Ę	(°C)	Hour	۶Ę	(°C)	Hour	Ļ	(°C)
1			9			17		
2			10			18		
3			11			19		
4			12			20		
5			13			21		
6			14			22		
7			15			23		
8			16			24		

	Average chamber/room temperature over 24hrs: °F (°C)  Minimum reading over 24hrs: °F (°C)  Is the enclosure in compliance with this section?						
	O Yes O No O N/A O Questionable						
	If no or questionable, explain						
3.7 Security/Locking Mechanism Test							
	Weight of free-falling mass: lbf (N) Drop height of free-falling mass: in (cm)						
	Is the enclosure in compliance with this section?						
	O Yes O No O N/A O Questionable						
	If no or questionable, explain						

# **Section IV**

1.1.1	Materials used in the construction of exterior surfaces are:  Aluminum GR 3003-H14 and GR 5052-H32, per ASTM B209  Galvannealed steel or prepainted galvanized steel, per ASTMA653/A653M  High-density polyethylene (HDPE)  ANSI type 300 series stainless steel  Natural stone  Fiberglass reinforced plastic with a UV resistant gel coat  None of the above:
4.1.2	Materials used in the construction of interior surfaces are:  Aluminum GR 3003-H14 and GR 5052-H32, per ASTM B209  Galvannealed steel or prepainted galvanized steel, per ASTMA653/A653M  High-density polyethylene (HDPE)  ANSI type 300 series stainless steel  Natural stone  Fiberglass reinforced plastic with a UV resistant gel coat  Cedar  Redwood  Closed cell foam insulation (1% maximum water absorption by weight)  Glass fiber reinforced facers  None of the above:
4.1.3	Fasteners and hardware materials  Aluminum GR 3003-H14 and GR 5052-H32, per ASTM B209  Galvannealed steel or prepainted galvanized steel, per ASTMA653/A653M  High-density polyethylene (HDPE)  ANSI type 300 series stainless steel  Natural stone  Fiberglass reinforced plastic with a UV resistant gel coat  Aluminum  Stainless steel  Plastics  Zinc coated steel  Brass  Die cast aluminum and zinc  None of the above:

	Is the enclos	sure in complia	ance with this s	section?				
	O Yes	O No	O N/A	O Questionable				
	If no or ques	stionable, expla	ain					
4.2	The followin	The following markings are present on the enclosure and visible after installation:						
	Name of manufacturer or trademark;							
		Model number;						
		Date cod		mber;				
		Class de	esignation					
	-	Are markings cast, etched, stamped, or engraved on the enclosure or on a corrosion resistant plate securely attached to the enclosure using an enclosure resistant material?						
	O Yes	O No		O Questionable				
	If no or ques	If no or questionable, explain						
	Is the enclos	Is the enclosure in compliance with this section?						
	O Yes	O No		O Questionable				
	If no or ques	stionable, expla	ain					
4.3	Installation I	nstructions						
	Were install	ation instructio	ns provided?					
	O Yes	O No	O N/A	O Questionable				
	If no or ques	stionable, expla	ain					
	If the enclos	If the enclosure requires electrical components, do the installation instructions state that they shall						
		protected by a ground-fault circuit interrupter?						
	O Yes	•		O Questionable				
	If no or ques	If no or questionable, explain						
	16.4							
			•	ere they supplied?				
	O Yes	O No	O N/A	O Questionable				
	if no or ques	stionable, expla	ain					

LISTED LABORATORY:						
ADDRESS:						
	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:					