

STANDARD INFORMATION

This SUN introduces ANSI Z83.25 / CSA 3.19 to replace IAS 9-90 for Gas-Fired Desiccant Type Dehumidifiers which utilize a Direct Fired Gas Heater for regeneration.

Standard: IAS 9-90 Gas Fired Desiccant Dehumidifiers and Air Conditioners

Replaced By: CSA ANSI Z83.25-2017/CSA 3.19-2017 Direct Gas-Fired Process Air Heaters

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **July 1, 2022**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement:

Appliances certified to IAS 9-90 which utilize a direct fired gas heater to regenerate desiccant material for dehumidification are required to update to ANSI Z83.25 for certification in the U.S. and CSA 3.19 for certification in Canada. This is being driven by the need to meet existing National Codes as IAS 9-90 is not a recognized standard in all states and provinces.

In addition to ANSI Z83.25 / CSA 3.19, certifications may continue to reference IAS 9-90 upon receipt of written request.

Overview of Changes: Specific details of new/revise requirements to update to ANSI Z83.25/CSA 3.19 are found in the standard information tables below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i>
		Construction
4		All products must be fully evaluated to the applicable construction requirements.
		High Temperature Limit Control
4.15.3		High temperature limit controls of regenerative dessicant heaters which discharge directly outdoors may have a temperature limit up to 350°F.
		General Test Setup, Gases, and Burner Adjustments
5.1 – 5.4		Previous testing conducted to IAS 9-90 will be reviewed to use to meet applicable test requirements. A test duct will not be required for regenerative heaters which discharge directly outdoors.
		Air Throughput Measurement
5.5		Only required when gas regenerative heat is not discharged directly outdoors.
		High Temperature Limit Control System
5.6		High temperature limit controls of regenerative dessicant heaters which discharge directly outdoors may have a temperature limit up to 350°F.
		Air Flow Sensing, Temperature Control, Combustion, BOCs, Input Rating, Manifold Capacity, Temperature Tests, Electrical Tests, Rain and Wind, and Marking Adhesion and Legibility
5.7, 5.8, 5.10 – 5.21		Previous testing conducted to IAS 9-90 will be reviewed to use to meet applicable test requirements.
		Combustion
5.9 and Annex A		Regenerative heaters which discharge directly outside must meet Carbon Monoxide requirements for combustion by-products at the point of discharge. Additionally, they must meet Carbon Monoxide, Carbon Dioxide, Aldehydes, and Nitrogen Dioxide requirements within air sampled from the downflow side of the desiccant wheel or any other areas of potential leakage of combustion by-products into the supply air stream.



CLAUSE	VERDICT	COMMENT
6 – 7		Items Unique to the United States and Canada Previous testing conducted to IAS 9-90 will be reviewed to use to meet applicable test requirements.