

STANDARD INFORMATION

Standard Number: UL 834

Standard Name: Heating, Water Supply, and Power Boilers – Electric

Standard Edition and Issue Date: 5th Edition dated April 13, 2004

Date of Revision: July 17, 2019

Date of Previous Revision of Standard: September 24, 2018

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **July 17, 2021**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes: Removal of option of having the back-up limit control be of the automatic reset type. Specific details of new/revised requirements are found in table 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).

Client Action:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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>
31	Info	Limit Controls
31.1		A boiler shall be equipped with two factory installed limit controls. One control is to be of the automatically reset type for regulating the intended boiler operation (i.e. Operating Control). The second control is to be of the automatically or manually reset type for back-up protection (i.e. Protective or high limit control) and when activated result in the boiler shutting down.
		<i>New clause added;</i>
31.5		Pressure limit controls shall have no more than a 5 percent variation from rated operating pressure and from initial operating pressure after testing in accordance with the Operation and Endurance Tests of the Standard for Limit Controls, UL 353.
31.8		Any component including contactors and controls that comprise a safety circuit and function to interrupt the heating element supply circuit shall be investigated for 100,000 cycles of operation (6000 for a manually reset control) and shall be arranged so that it affects the direct opening of that element, whether the switching mechanism is integral with the sensing element or remote from it. <u>as follows:</u> a) <u>For electro-mechanical components, 100,000 cycles of operation (6000 for a manually reset control), in accordance with 31.1.1 and 31.1.4 – 31.1.5, as applicable; and</u> b) <u>For electronic components, in accordance with 31.1.2 – 31.1.6, as applicable.</u> <u>The component shall be arranged so that it affects the direct opening of that element, whether the switching mechanism is integral with the sensing element or remote from it.</u>
CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.		