

STANDARD INFORMATION

Standard Number: UL 1812
Standard Name: Standard for Ducted Heat Recovery Ventilators
Standard Edition and Issue Date: 4th Edition Dated May 5, 2013
Date of Revision: June 21, 2017
Date of Previous Revision of Standard: April 17, 2014

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **July 4, 2019**

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requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.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: Addition of requirements of electrical circuits. 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 Required:

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are shown <u>underlined</u> and deletions are shown lined out below.
22	Info	Motors and Motor Protection
22.1	Info	Overload protection
		Other than as specified in 22.2.2, 22.2.7, and 22.2.9, each motor shall be protected by:
		a) an integral thermal protector that provides running and locked rotor protection in accordance with:
		1) The Standard for Overheating Protection for Motors, UL 2111; or 2) The Standard for Rotating Electrical Machines – General Requirements, UL 1004-1 and the Standard for Thermally Protected Motors, UL 1004-3; or 3) <u>Electronic protection that meets the test requirements of UL 1004-7 and the circuits requirements of Controls – End Product Test Parameters 57.</u>
22.2.1		b) an overcurrent protective device rated or set in accordance with the National Electrical Code, ANSI/NFPA 70.
		The protection for a motor rated at 15 horsepower (11.2 kW output) or less and protected in accordance with (b) shall also comply with the requirement in 40.1.
		A direct drive fan motor provided with an integral protector complying with:
		a) The Standard for Overheating Protection for Motors, UL 2111; or b) The Standard for Rotating Electrical Machines – General Requirements, UL 1004-1 and the Standard for Thermally Protected Motors, UL 1004-3; exclusive of temperature requirements applying to running overload conditions, is considered to comply with the requirements in 22.2.1; or c) <u>Electronic protection that meets the test requirements of UL 1004-7 and the circuits requirements of Controls – End Product Test Parameters 57.</u>
22.2.7		
23	Info	Motors For Use In Unattended Areas



23.1	General
	<p>In addition to any other motor requirements specified in UL 1812, the requirements specified in Section 23 apply to any motor used in fan products which operate unattended or in situations in which the operator may not detect a locked rotor condition. Examples include: wall-insert HRV's, through-wall HRV's, ceiling-insert HRV's, attic HRV's, whole house HRV's, and ducted HRV's.</p> <p>Exception No. 1: These requirements do not apply to motors employing a single-operation device, a thermal cutoff, or a manual reset thermal protector when the device opens during the normal locked rotor testing in accordance with:</p>
23.1.1	<p>a) The Standard for Overheating Protection for Motors, UL 2111; or</p> <p>b) The Standard for Rotating Electrical Machines – General Requirements, UL 1004-1 and the Standard for Thermally Protected Motors, UL 1004-3.</p> <p>Exception No. 2: These requirements do not apply to a motor in which there are no openings in the enclosure through which molten metal, burning insulation, flaming particles, or other ignited material could fall onto flammable material, or through which a flame could be projected, such as a totally enclosed motor.</p>
29	Switches and Controllers
	<p>In addition to the requirements specified in this standard switches shall comply with the requirements in the:</p>
29.2	<p>a) Standard for Clock-Operated Switches, UL 917;</p> <p>b) Standard for Enclosed and Dead-Front Switches, UL 98;</p> <p>c) Standard for General-Use Snap Switches, UL 20; or</p> <p>d) Standard for Special-Use Switches, UL 1054, or</p> <p>e) Standard for Switches for Appliances – Part 1: General Requirements, UL 61058-1.</p>

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.
