UL 507

STANDARD FOR SAFETY

Electric Fans

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UL Standard for Safety for Electric Fans, UL 507

Tenth Edition, Dated November 9, 2017

Summary of Topics

The revisions for ANSI/UL 507 dated August 14, 2026 include the following changes in requirements:

– Clarification of Temperature Correction in Temperature Test for Fans with Rated Ambient Higher than 25°C; 46.1.8, 46.1.9

– Editorial Revision to 54.2;

– Fans for Use in Unattended Areas; 2.2.22A, 2.3.19A, 178.1

– Proposals to Align with UL 1004-3; 22.8, 75.1, 122.1, 122.2, 142.2, 178.1, 179A.1.3, 179A.2.3, 179A.2.6 – 179A.2.7B, 179A.2.13, 228.2, Appendix B

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The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated March 13, 2026 and July 3, 2026.

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Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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PART 1 – ALL FANS

INTRODUCTION

1 Scope

1.1 These requirements cover:

a) Fans and blowers that circulate air, such as desk, ceiling-suspended, and hassock fans;

b) Fans and blowers that ventilate air, such as attic, whole-house window, through wall, and direct discharge fans;

c) Ducted fans and blowers that exhaust air to the outside of a building structure, such as in-line, wall insert and ceiling insert fans;

d) Dryer type fans used for drying carpets or floors;

e) Commercial display blowers;

f) Evaporative coolers;

g) Evaporative cooler replacement pumps;

h) Air-filtering appliances;

i) Component fans;

j) Low voltage component fans;

k) Residential cooking area fans, such as rangehoods and downdrafts;

l) Hand dryers without heater; and

m) Recirculating and blending units except as noted in 1.2(h).

These products are rated 600 volts or less and are intended to be employed in accordance with the National Electrical Code, ANSI/NFPA 70.

1.2 These requirements do not cover:

a) Air heaters incorporating fans, heating-ventilating units, or blowers comprising components of such equipment as furnaces, mechanical-refrigeration equipment, or air conditioners;

b) Fusible links, and the like, provided to disconnect a fan or close shutters in the event of fire;

c) Fans for use in cooking areas when the fan is intended for other than household use;

d) Fans intended to be used in hazardous locations as defined in the National Electrical Code, ANSI/NFPA 70;

e) Fans intended to be installed over solvents or chemically flammable liquids or vapors;

f) Fans located in chemically corrosive environments;

g) Humidifiers;

h) Fans intended to move heated or conditioned air;

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i) Heated hand dryers;

j) Ionizers, products with ionization features, or electrostatic air cleaners;

k) Household or commercial blowers or inflators intended for use with inflatable bouncing toys or similar children's products.

l) Microwaves, ventilating or otherwise;

m) Ducted or non-ducted heat recovery ventilators;

n) Deodorizers and air fresheners.

2 Glossary

2.1 General

2.1.1 For the purpose of this standard the following definitions apply. The types of appliances are arranged in alphabetical order under the heading Product Terms. Other terms not related to the types of products are defined in alphabetical order under the heading Additional Terms. Also, see appropriate sections of the Standard for specific fan types not defined in this section.

2.2 Product terms

2.2.1 AIR-FILTERING APPLIANCE – An appliance consisting of an air-circulating fan and a mechanical filter.

2.2.2 AIR DEODORIZER – An appliance that has a fan and is intended to treat the air in a relatively small area by the dispersal of chemicals. A mechanical filter may be employed.

2.2.3 AIR FRESHENER – An appliance that has a fan and is intended to scent the air in a relatively small area by the dispersal of chemicals. A mechanical filter may be employed.

2.2.4 ATTIC FAN – A fan mounted on a building's roof or gable used to vent air out from the attic to the exterior of the building. Exhaust of the fan is typically capped with a dome lid or behind louvres to prevent exposure to weather.

2.2.5 BLADE – A component of an impeller or an individual "paddle" of a ceiling-suspended fan.

2.2.6 BOX FAN – A portable fan sometimes referred to as a "suitcase" fan. This product consists of a front and back grill mounted to a central frame, typically rectangular or square in shape, with width and height dimensions each measuring greater than 16 inches. The fan is typically designed to be placed on the floor or desk during operation, but may be provided with hardware for window mounting.

2.2.7 CEILING INSERT FAN/LIGHT COMBINATION – An appliance consisting of a fan and a light which is installed through a hole in the ceiling surface.

2.2.8 CEILING-SUSPENDED FAN – A fan intended to be mounted to a ceiling outlet box or ceiling building structure, and has blades which rotate below the ceiling. Popularly called a "paddle" fan.

2.2.8A CLEANROOM FAN FILTER UNIT – (FFU) is a device used in cleanroom environments and controlled environments such as laboratories, manufacturing facilities, and healthcare settings. Its primary purpose is to provide high-efficiency particulate air (HEPA) or ultra-low penetration air (ULPA) filtration to maintain a clean environment by removing airborne contaminants like dust, particles, bacteria, and other contaminants.

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