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# UL 705

## STANDARD FOR SAFETY

### Power Ventilators



UL Standard for Safety for Power Ventilators, UL 705

Seventh Edition, Dated July 19, 2017

### **Summary of Topics**

***This revision of ANSI/UL 705 dated August 24, 2021 includes the following:***

- Updating the Standard to Include Additional Requirements for Ventilator for Heat and Smoke Control; Supplement [SD](#)***
- Deletion of Reference to Withdrawn Standard, UL 508C; [14.3.6](#), [16.1.1](#)***
- Editorial Updates to Make DC Dielectric Voltage-Withstand Test Consistent with Other Standards; [23.5](#), [24.3](#), [26.1](#)***

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated December 18, 2020, March 19, 2021 and June 21, 2021.

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## **UL 705**

### **Standard for Safety for Power Ventilators**

The First through Third editions were titled Power Roof Ventilators.

First Edition – December, 1966  
Second Edition – July, 1972  
Third Edition – November, 1977  
Fourth Edition – December, 1984  
Fifth Edition – June, 1994  
Sixth Edition – January, 2004

### **Seventh Edition**

**July 19, 2017**

This ANSI/UL Standard for Safety consists of the Seventh Edition including revisions through August 24, 2021.

The most recent designation of ANSI/UL 705 as an American National Standard (ANSI) occurred on August 24, 2021. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

The Department of Defense (DoD) has adopted UL 705 on February 5, 1993. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

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

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## APPENDIX A Examples of Controls Performing as Operating or Protective Controls (Informative)

## INTRODUCTION

### 1 Scope

1.1 These requirements cover power ventilators of the roof-and wall-mounted types and duct fans of the straight-through type intended for commercial or industrial use, residential fans intended for heated and conditioned air and for connection to permanently installed wiring systems in accordance with the National Electrical Code, NFPA 70.

1.2 These requirements also cover dryer exhaust duct power ventilators (DEDPV) for single residential dryers.

1.2.1 These requirements cover roof or wall-mounted ventilators and duct fans of the straight-through type for restaurant exhaust appliances.

1.2.2 These requirements cover power ventilators for restaurant exhaust appliances.

1.3 These requirements do not cover the following:

- a) Ventilating equipment such as attic, wall-insert, ceiling-insert, household hood, window fans, or canopy fans or blowers;
- b) Air-moving equipment with integral air-tempering means;
- c) Dryer type fans used for drying carpets or floors;
- d) Household and commercial blower inflator type fans;
- e) Evaporative coolers; Evaporative cooler pumps, including retrofit pumps;
- f) Air filtering appliances;
- g) Deodorizers and air fresheners;
- h) Component fans;
- i) Low voltage component fans;
- j) Fans and blowers that circulate air, such as desk, ceiling-suspended, and hassock fans;
- k) Ventilators rated more than 600 volts;
- l) Ventilators employing universal motors rated more than 250 volts;
- m) Air heaters equipped with fans;
- n) Draft fans for furnaces;
- o) Heating-ventilating units;
- p) Blowers employed as components in equipment such as furnaces, mechanical-refrigeration equipment, or air conditioners;
- q) Fusible links and similar equipment that may be provided to disconnect a fan or close shutters in the event of fire;
- r) Ventilators specifically intended for use in exhausting any of the following: gases other than air, atmospheres causing corrosion to the ventilator, air with water spray, or flammable vapors; or