



## UL Power Ventilator for Smoke Control

The UL listing "Power Ventilator for Smoke Control Systems" is a test procedure and category which was initiated by Loren Cook Company and developed in a joint effort with UL in 1990. Several different sources were used in the definition of the test procedure. These sources include UL Standards 705, 762, 793, Southern Building Code Congress International (SBCCI) Standard Fire Prevention Code/1988, and Industrial Risk Insurers (IRI) Document E2. The requirements for the UL listing "Power Ventilator for Smoke Control Systems" are summarized as follows:

### Roof Mounted Products

- The unit must withstand 500°F airstream temperature for a minimum of four hours (IRI) and withstand 1000°F for a minimum of 15 minutes (SBCCI).
- The unit must be listed under UL 705.
- Fans with integral butterfly dampers shall meet the following requirements:
  - Fans shall be fitted with spring loaded damper actuator arms which will open the dampers automatically when the airstream temperature reaches 165°F.
  - The dampers must actuate with or without electrical power connected to the fan.
  - The damper actuators must meet the requirements in UL 793 for Snow and Dust Load Testing of Butterfly Dampers (10 pounds-per-square foot).

#### SUB-H

Cook model SUB-H units are available in sizes 24" through 60" with performances up to 1" w.g. static pressure.

#### ACSC

Cook model ACSC units are available in sizes 100 through 365 with performances up to 1-1/2" w.g. static pressure.

#### ACSC-HP

Cook model ACSC-HP units are available in sizes 150 through 365 with performances up to 2-1/2" w.g. static pressure.

#### ACSC-XP

Cook model ACSC-XP units are available in sizes 165 through 365 with performances up to 5" w.g. static pressure.

#### CPS & CPS-A

Cook model CP units are available in sizes 60 through 490 with performances up to 5" w.g. static pressure. (Requires optional accessories - see catalog for details)

#### CA/CF

Cook model CA/CF units are available in sizes 120 through 730 with performances up to 12" w.g. static pressure. (Arrangements 1, 9 & 10 only. Requires optional accessories - see catalog for details)

### Inline Products

- The unit must withstand 500°F airstream temperature for a minimum of four hours (IRI) and withstand 1000°F for a minimum of 15 minutes (SBCCI).
- The unit must be listed under UL 705.

#### SIB-H

The Cook model SIB-H inline product is available in size 24" through 60" and is suitable for performances up to 1" w.g. static pressure.

#### AFB-H/AFBV-H

The Cook AFB-H and AFBV-H inline products are available in size 12" through 36".

AFB-H is suitable for performances up to 4-1/2" w.g. static pressure and AFBV-H is suitable for performances up to 5-1/2" w.g. static pressure.

#### QMX/QMX-HP

The Cook QMX and QMX-HP inline products are available in sizes 135 through 600. QMX/QMX-HP is suitable for performances up to 8" w.g. static pressure. (Available in Arrangement 9 only. Requires optional accessories - see catalog for details)

#### CIC

The Cook CIC inline product is available in sizes 120 through 730. CIC is suitable for performances up to 9" w.g. static pressure. (Requires optional accessories - see catalog for details)



SUB-H



ACSC, ACSC-HP, ACSC-XP



CPS & CPS-A



CA/CF



SIB-H



AFB-H



QMX



CIC

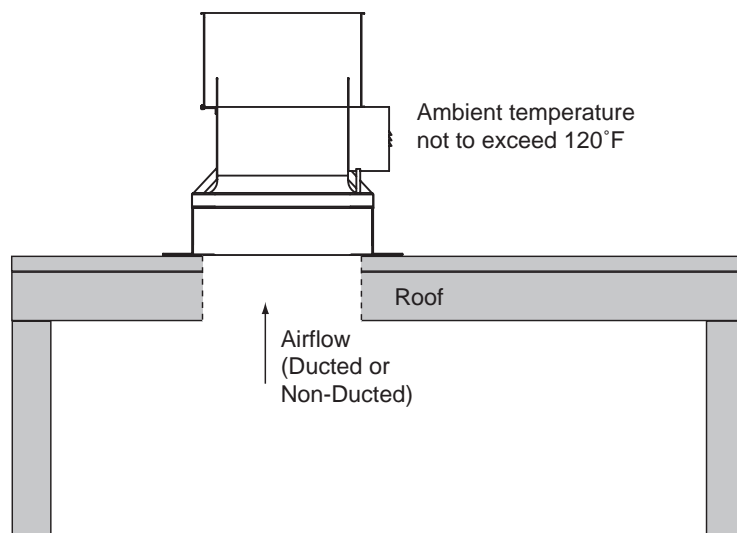


Listed Power Ventilator for  
Smoke Control Systems.

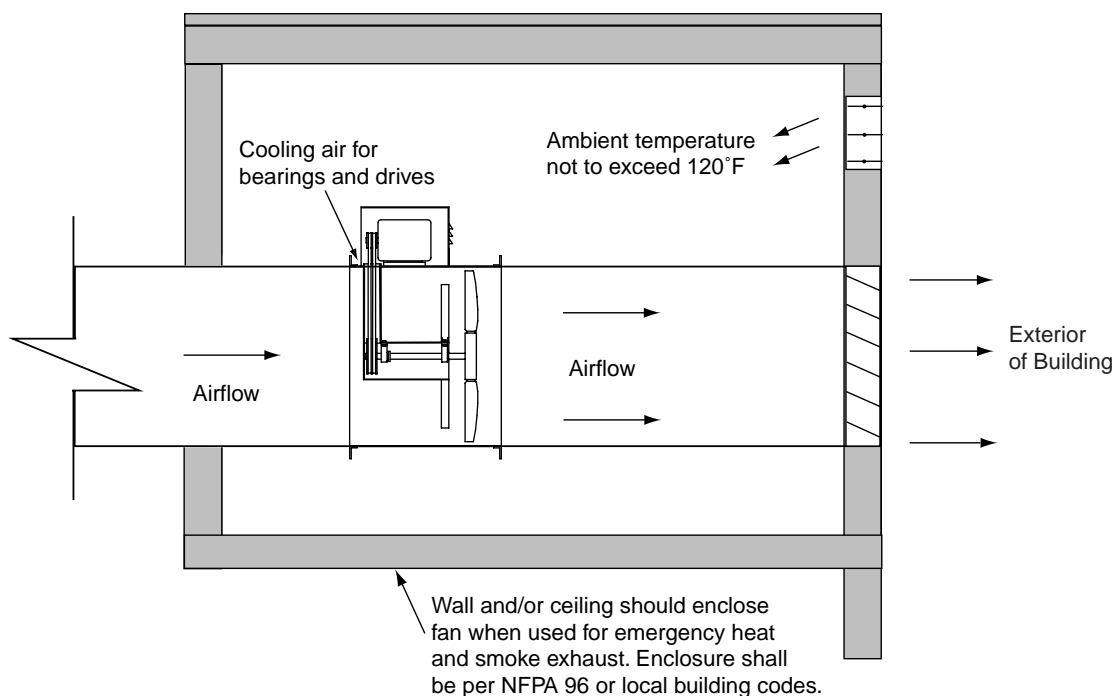
See Reverse for Typical Applications

# UL Power Ventilator for Smoke Control Typical Applications

## Rooftop Application



## Inline Application



## LOREN COOK COMPANY

2015 E. DALE STREET  
SPRINGFIELD, MO 65803-4637  
417.869.6474  
FAX 417.862.3820  
lorencook.com