

# SMOKE & HEAT EXHAUST FANS



## OVERVIEW



Model TUBSH  
Smoke Control - University



Model BCRUSH  
Smoke Control - Retail



Model TCVSSH  
Elevator Shaft Exhaust



Model QSLSH  
Smoke Control - Amphitheater

### SMOKE & HEAT EXHAUST FANS

Emergency smoke exhaust systems are designed to remove smoke and heat from buildings in the event of a fire. These systems play a crucial role in increasing occupant safety and allowing rescue personnel to safely enter burning buildings. Twin City Fan offers a full line of smoke and heat fans capable of withstanding a minimum temperature of 500°F for four hours or 1,000°F for 15 minutes. Our inline smoke and heat fans are also available in a vertical roof mount or horizontal discharge configuration featuring a discharge cap with butterfly dampers and a fusible link designed to stay open in the event of a fire.

### WHEEL/PROPELLER TYPES

Backward Inclined Centrifugal, Mixed Flow, Axial

### COMMON ACCESSORIES

Belt Tube, Copper Extended Lube Lines, Access Doors, Belt Guards, Motor Covers, Inlet/Outlet Screens and Guards, Inlet/Outlet Companion Flanges, Insulated Jackets, Vented Roof Curbs, Special Coatings and Disconnect Switches

### CERTIFICATIONS

AMCA Sound/Air and FEG, UL 705 Listed for Electrical, UL Listed for Smoke Control Systems, OSHPD Seismic Preapproval per OSP-0195-10 and OSP-0271-10

### APPLICATIONS

General Emergency Smoke Exhaust, Elevator Shaft Exhaust/Pressurization, Stairwell Pressurization



## BCRUSH

SMOKE & HEAT REMOVAL CENTRIFUGAL FAN, BELT DRIVEN  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 49.21 inches (315 mm to 1,250 mm) wheel diameters
- > Airflow to 29,100 CFM (49,400 m<sup>3</sup>/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL listed for Smoke Control Systems



Available For  
Quickship



CATALOG 4105

## BCVSH

FLAT-BLADED BACKWARD INCLINED UTILITY SETS  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 60 inches (315 mm to 1,525 mm) wheel diameters
- > Airflow to 78,660 CFM (133,600 m<sup>3</sup>/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL listed for Smoke Control Systems



Available For  
Quickship



CATALOG 600

## QCLBSH

LOW PRESSURE SMOKE & HEAT MIXED FLOW FAN  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 73 inches (315 mm to 1,855 mm) wheel diameters
- > Airflow to 105,000 CFM (178,400 m<sup>3</sup>/hour)
- > Static pressure to 4.5 inches w.g. (1,120 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL listed for Smoke Control Systems



CATALOG 1070

## QSLSH

SMOKE & HEAT MIXED FLOW FAN  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 18.25 to 89 inches (465 mm to 2,260 mm) wheel diameters
- > Airflow to 160,000 CFM (271,800 m<sup>3</sup>/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL listed for Smoke Control Systems



CATALOG 1060



CATALOG 4870

## LUBSH

SMOKE & HEAT LOW PROFILE PROPELLER ROOF VENTILATOR  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 21 to 60 inches (535 mm to 1,525 mm) wheel diameters
- > Airflow to 59,800 CFM (101,600 m<sup>3</sup>/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL listed for Smoke Control Systems



CATALOG 4850

## TUBSH

SMOKE & HEAT REMOVAL ROOF VENTILATOR, BELT DRIVEN  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 24 to 60 inches (610 mm to 1,525 mm) wheel diameters
- > Airflow to 70,700 CFM (120,100 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL listed for Smoke Control Systems



CATALOG 4830

## TBSH

SMOKE & HEAT REMOVAL TUBEAXIAL FAN, BELT DRIVEN  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 24 to 60 inches (610 mm to 1,525 mm) wheel diameters
- > Airflow to 82,600 CFM (140,300 m<sup>3</sup>/hour)
- > Static pressure to 1.25 inches w.g. (310 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL listed for Smoke Control Systems



CATALOG AX250

## TCVSSH

SMOKE & HEAT VANEAXIAL FAN, STEEL WHEEL  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12 to 54 inches (305 mm to 1,375 mm) wheel diameters
- > Airflow to 80,000 CFM (135,900 m<sup>3</sup>/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > UL listed for Smoke Control Systems

## TCTSSH

SMOKE & HEAT TUBEAXIAL FAN, STEEL WHEEL  
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12 to 54 inches (305 mm to 1,375 mm) wheel diameters
- > Airflow to 80,000 CFM (135,900 m<sup>3</sup>/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > UL listed for Smoke Control Systems



CATALOG AX250

## SELF-FLASHING VENTED ROOF CURBS

FOR HIGH TEMPERATURE APPLICATIONS

- > Completely assembled unit, easier to install and less expensive than a field constructed curb
- > Constructed of 18-gauge galvanized steel with continuous welded seams with wide base flashing for weathertight seal to roof
- > Meets NFPA-96 code requirements
- > Top ledge covered with  $\frac{3}{16}$ " polystyrene gasket
- > Furnished with ventilation slots



CATALOG 4910

Fan & Blower  
**Twin City**



# SALES CONTACT



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