LABORATORY & FUME EXHAUST FANS

Model BCIFE
Generator Exhaust

Model TVIFE
Lab Exhaust

Model TVIFE
Lab Exhaust

Model TFE
Lab Exhaust

OVERVIEW

LABORATORY & FUME EXHAUST FANS

Laboratories and research facilities exhaust a wide variety of harmful fumes. In concentrated forms, these fumes can be hazardous to human life. Contaminated air must be exhausted in a way that prevents it from returning back into the building, and surrounding locations where people may be present. To effectively exhaust these fumes, which in many cases are corrosive and/or explosive in nature, fans are connected to one or more fume hoods to draw the contaminated air through. For proper ventilation, exhaust fans must be capable of moving air at high velocities to achieve a high plume height, as well as entraining clean ambient air to dilute the chemical concentration in the airstream. Twin City Fan offers a complete line of laboratory & fume exhaust fans for meeting the most stringent industry standards. Our laboratory exhaust fans are often constructed of specialty materials to withstand the fumes associated with these environments.

APPLICATIONS

Odor Control, Chemical Processing, Fume Hood Exhaust, Energy Recovery Systems, Industrial Processes, Diesel Generators

WHEEL TYPES

Flat-Bladed Backward Inclined and Airfoil Centrifugal, Mixed Flow

COMMON ACCESSORIES

Mixing Plenum Box, Bypass Dampers, Isolation Dampers, 2-Positon Spring Return Actuator, OSHA Belt Guards, Shaft & Bearing Guards, Vortex Breakers, Inlet Screens, Special Coatings, Roof Curbs, Piezometer Flow Measurement Rings and Disconnect Switches.

OPTIONAL CONSTRUCTION

Spark Resistant Construction (Type B and C), High Temperature

CERTIFICATIONS

AMCA Sound/Air, UL 705 Listed for Electrical

TVIFE

INDUCED FLOW MIXED FLOW EXHAUST FAN, DIRECT DRIVE

> 12.25 to 66 inches (315 mm to 1,680 mm) wheel diameters
> Airflow to 86,000 CFM (146,400 m^3/hour)
> Static pressure to 8 inches w.g. (1,990 Pa)
> AMCA licensed for Induced Flow Sound and Air
> UL 705 listing available

CATALOG 1090

QIFE

INDUCED FLOW MIXED FLOW EXHAUST FAN, BELT DRIVEN

> 12.25 to 66 inches (315 mm to 1,680 mm) wheel diameters
> Airflow to 71,000 CFM (120,600 m^3/hour)
> Static pressure to 8 inches w.g. (1,990 Pa)
> AMCA licensed for Induced Flow Sound and Air
> UL 705 listing available

CATALOG 1080

BAIFE

INDUCED FLOW CENTRIFUGAL EXHAUST FAN, AIRFOIL BLADE

> 12.25 to 66 inches (315 mm to 1,680 mm) wheel diameters
> Airflow to 135,000 CFM (229,400 m^3/hour)
> Static pressure to 16 inches w.g. (3,980 Pa)
> AMCA licensed for Induced Flow Sound and Air
> UL 705 listing available

CATALOG 390

BCIFE

INDUCED FLOW CENTRIFUGAL EXHAUST FAN, BACKWARD INCLINED,

> 12.25 to 66 inches (315 mm to 1,680 mm) wheel diameters
> Airflow to 132,000 CFM (224,300 m^3/hour)
> Static pressure to 15 inches w.g. (3,730 Pa)
> UL 705 listing available

CATALOG 390

CATALOG 1500

QFE

FUME HOOD MIXED FLOW EXHAUST FAN, BELT DRIVEN

> 12.25 to 66 inches (315 mm to 1,680 mm) wheel diameters
> Airflow to 80,000 CFM (135,900 m^3/hour)
> Static pressure to 7 inches w.g. (1,740 Pa)
> UL 705 listing available

CATALOG 1500

TFE

FUME HOOD INLINE EXHAUST FAN, BELT DRIVEN

> 10.5 to 54.25 inches (270 mm to 1,375 mm) wheel diameters
> Airflow to 70,000 CFM (118,900 m^3/hour)
> Static pressure to 7 inches w.g. (1,740 Pa)
> UL 705 listing available

Fan & Blower Twin City

ENERGY RECOVERY SYSTEMS

LAB EXHAUST APPLICATIONS

Twin City Fan's energy recovery systems combine high efficiency fume exhaust fans with the latest in energy recovery technology. Utilizing an energy recovery system can greatly reduce your energy consumption and carbon footprint while simultaneously increasing your bottom line. Our energy recovery plenums are available in endless configurations to match your specific needs.

OPTIONAL ACCESSORIES

> Heat exchanger bypass mode
> Custom coatings
> Special materials of construction
> Fiberglass wall insulation

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