TCF International
Industrial Air Movement

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Twin City Fan & Blower is a leading worldwide force in fans and blowers, delivering probably the widest range of air handling solutions for all types of applications. We are the preferred partners of many global manufacturers, a position earned by deep knowledge, excellence in design and a commitment to quality and service.

The international expansion of Twin City Fan Companies is a key part of our globalisation of manufacturing, service and support to broaden service to customers in European markets. Experienced local teams are backed by an unrivalled depth of design, application and manufacturing capability.

Our ability to respond rapidly to your requirements is based on our proven approach which we call ‘mass customisation’. From a huge range of well-tested standard designs we have the flexibility to tailor these to your precise needs. So you can have a solution which precisely matches your specification with the reliability, cost-efficiency and speed of delivery of large-scale production.

The teams in TCF International are well placed to assist with your design requirements, provide detailed drawings and costings, ensure efficient manufacture and provide all the support you need to deliver a successful project.
Industrial Dryer/Ovens

Whatever the form of heating used, TCF can supply low-maintenance, long-life fans to maximise the efficiency of a wide range of industrial processes.

TCF fans are incorporated into standard industrial ovens and are also custom designed for specific applications. Working from a standardised platform gives a rapid and cost-effective way of delivering fans tailored to the precise requirement.

Applications range from manufacture of paper and building products, through high performance air floatation for glass manufacture to the special hygiene requirements.

FANS OFFERED CAN BE USED ON:
Dryers
Provers
Coolers
Oxidisers
Curing Ovens
Baking Ovens
Chemical Coat Ovens
Dust Control

TCF is a leading manufacturer of industrial fans and blowers for pneumatic conveying, materials handling and dust extraction and collection.

Fans are configured for a wide variety of applications based on extensive experience and deep understanding of gas stream characteristics.

Temperature, moisture and filter choice are frequently critical factors, along with the chemistry of the process.

TCF applications cover a multitude of contaminants, including acid gases, hydrocarbons and condensable compounds.

TCF works in partnership with many global manufacturers of dust collection products to deliver efficient and effective solutions to support key processes.

APPLICATIONS

- Abrasive Blasting and Shot Blast
- Cement and Minerals
- Chemicals and Plastics
- Food Processing
- Foundry
- Glass
- Grain, Agriculture and Feed
- Laser Cutting
- Metalworking
- Mining and Mineral Products
- Pharmaceutical
- Plasma Cutting
- Thermal Spray
- Weld Fume
- Wet Machining (Mist Collection)
- Woodworking
- Custom OEM Applications
TCF works closely with many of the world’s leading automotive manufacturers to provide fans for a wide range of processes.

Our fans are used in paint finishing processes, including spray booths and baking ovens, contributing to safe and efficient use in potentially hazardous operations.

Elsewhere we design and manufacture fans for use in engine manufacturing, foundries, research facilities and general assembly plants, helping to ensure safe and comfortable working environments.

Particular requirements include heavy duty construction features such as swing-out fans for rapid cleaning, pivot motor bases for quick access when making belt adjustments and spark resistant construction.

Our products play a key role in the wide array of processes and general ventilation for the automotive industry including:

**PAINT FINISHING SYSTEMS**
- Air Supply & Filter Houses (OEM & Field Build-Up)
- Spray Booth Exhaust
- Enclosures & Decks, Manual Booth & Tack Off Booth
- Baking Ovens / Heater Boxes
- Heated Flash
- Forced Air Coolers
- Phosphate & ELPO (Electrodeposition primer)
- RTO for Abatement Systems

**ENGINE MANUFACTURING AND FOUNDRIES**
- Dust Collection
- Welding, Fume & Smoke Removal
- Pollution Control
- Furnace and Oven Recirculation
- Cupola Exhaust

**GENERAL HVAC FOR PLANT VENTILATION AND HUMAN COMFORT**
- Rooftop Exhaust
- Sidewall Exhaust and Supply
- Emergency Smoke Control Systems
- Energy Recovery
- Make-Up Air & OEM AHUs
- Office and R&D Facilities

**SERVICE AND REPAIR FACILITIES**
- General HVAC
- Vehicle Exhaust Systems
Air Pollution Control

TCF offers a comprehensive choice of fans which meet the stringent requirements of air pollution control.

Our fans contribute to key processes which destroy contaminants or remove them from air streams before they are released into the atmosphere.

Special features can include leak-tight design and special sealing characteristics. Construction materials take account of process temperatures and potential contaminants within the airstream including spark resistant construction (ATEX where required).

With wide knowledge of the technical requirements of pollution control and a vast range of design options, TCF can contribute to safe and efficient processes for any industry or utility.

DUST CONTROL
Dust Collection Systems
Baghouses
Cyclone Collectors

SCRUBBERS
Baffle Spray Scrubbers
Cyclonic Spray Scrubbers
Ejector Venturi Scrubbers
Mechanically Aided Scrubbers
Spray Towers
Wet Scrubbers

NOx CONTROL
Low NOx Burners
Selective Catalytic Reduction (SCR)
Selective Non-Catalytic Reduction (SNCR)
NOx Scrubbers
Exhaust Gas Recirculation
Catalytic Converter (also for VOC control)

VOC ABATEMENT
Adsorption Systems
Flares
Thermal Oxidizers
Catalytic Converters
Biofilters
Absorption (Scrubbing)
Cryogenic Condensers
Vapor Recovery Systems

ACID GAS/SO2 CONTROL
Wet Scrubbers
Dry Scrubbers
Flue Gas Desulfurization
Agriculture

TCF designs and manufactures fans for a wide variety of agricultural applications, meeting the needs of farmers, feed manufacturers, cooperatives and processors.

From harvest, through drying, storing, processing and packaging, TCF fans are used in all types of agricultural applications.

Specially designed fans are supplied for meeting the hygiene and comfort requirements involved in ventilating housing for animals, including cattle, pigs and poultry.

From the spark resistance (ATEX) required for grain handling, to the precise climate control involved in freezing and packaging produce, TCF has all the options required by the agricultural business.
Power Generation

TCF fans are key components of power generation systems of all types around the world.

With our expertise in air moving equipment, we are a major supplier for plants using coal, oil and gas, hydroelectricity and biomass.

Our full line of fans for boiler systems cover Selective Catalytic Reduction (SCR), desulphurisation and dust collection, turbine cooling and exhaust, bus cooling, mist collection and enclosure ventilation. TCF fans are also used in combined cycle gas turbines including the HRSG.

With robust design and high reliability, TCF fans are specified in power generation systems across the globe. In addition we repair and provide retrofit parts for fans from a variety of other manufacturers.

TYPICAL APPLICATIONS
- Forced Draft
- Induced Draft
- Bus Cooling
- Dust Collection
- HSRG / SCR Processes
- Enclosure Ventilation
- Mist Collection
- Turbine Cooling & Exhaust
Oil & Gas/ Petrochemical

TCF fans have a long history of meeting the challenging requirements of petroleum refining and the production of chemicals and plastics.

Our heavy duty industrial fans are customised for virtually any application, including:

- Flare Stacks
- Thermal Oxidisers
- Heating (fired heaters) Combustion Air
- Desulphurisation
- Dryers
- Pollution Control
- Material Handling
- Steam Generation

To meet the harsh environments encountered with many processes, a wide range of options include special bearings, disc couplings and mechanical shaft seals and specialty coatings.

TCF fans comply with industry standards including:

- ATEX (Atmosphères Explosives) Directive 94/9/EC
- API (American Petroleum Institute) Standards 560 and 673
- AWS (American Welding Society) D1.1 & D14.6
- AMCA (PIP) Process Industry Practices
- ASME (American Standards of Mechanical Engineers)

The close control required in the development and manufacture of pharmaceuticals is well met by the innovative solutions and rigorous quality supplied by TCF.

Our ground-breaking designs for fume hoods and lab exhaust applications have made us a preferred supplier of fans to pharmaceutical manufacturers around the world.

With an extensive product line we can meet the specialist air moving requirements of the industry. TCF continues to develop new techniques and investigate new materials to increase the options available.

TYPICAL APPLICATIONS

- Dust Collection
- Laboratory & Fume Exhaust
- General HVAC
- Clean Room Exhaust
- Gas Tight Processes
HVAC

TCF offers the most comprehensive range of fans for heating and ventilating in all types of buildings.

Our proven designs are an integral part of the climate control systems of offices, residential blocks, shopping malls, airports and stadiums.

In addition to providing packaged air handlers and roof-top units, we can supply exhaust for garages, kitchens, elevator shafts, stairwells and jet bridges.

Our philosophy of ‘mass customisation’ ensures that a proven design can be applied with confidence to meet the needs of any building.

EQUIPMENT FOR PROCESS AND MANUFACTURING

Dryers
Ovens
Freezers
Welding Exhaust
Spray Booths
Dust Collection
Environmental Pollution Control

SPECIFIC INDUSTRIES

Paper
Grain Drying
Milling
Road sweepers
Engine/Motor Cooling

OEM

A wide variety of manufacturers rely on TCF fans as key components in their manufacture. Our ability to customise fans to precise requirements and deliver consistent high quality in volume is recognised around the world.

Examples include

HVAC & Air Handling Units
Custom Air Handling
Packaged Units
Make-Up Air
Energy Recovery Units
Lab Exhaust