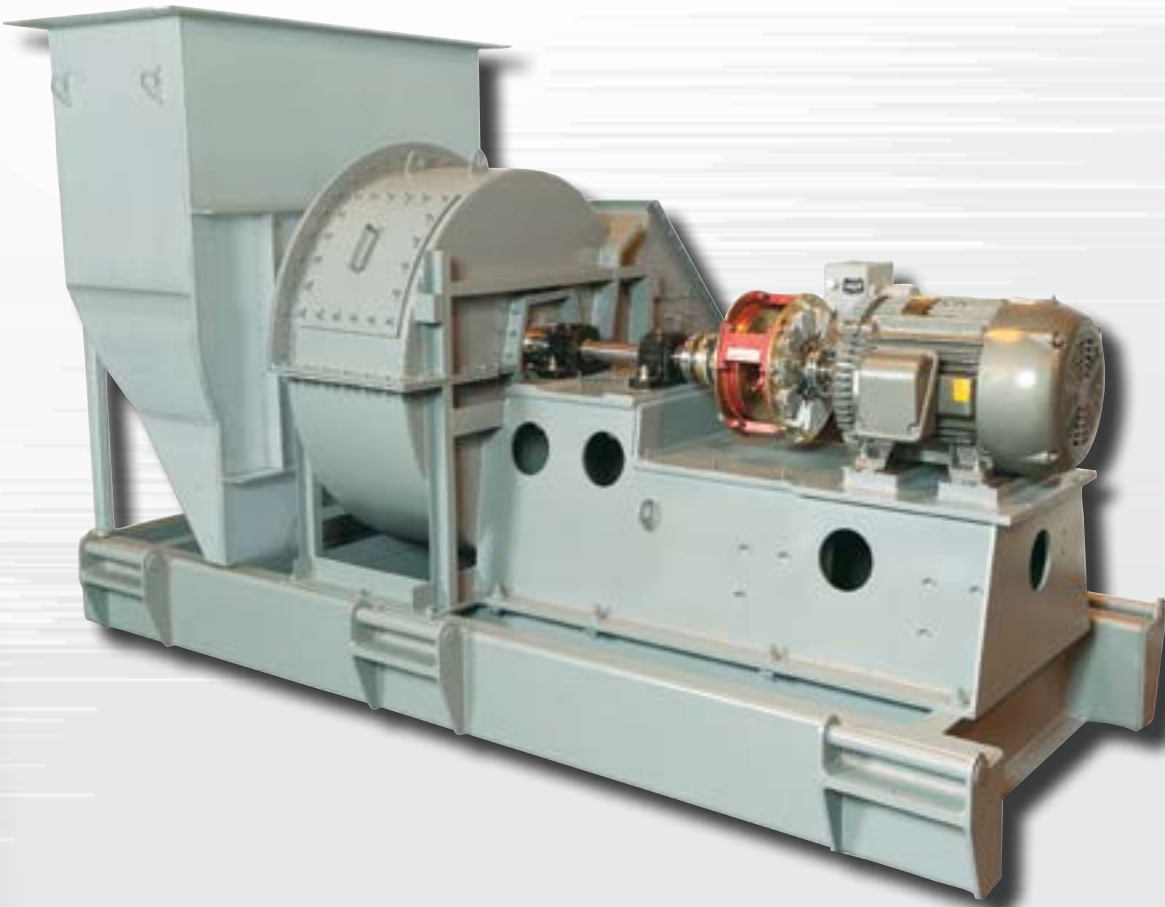


Fans & Blowers

Twin City



NUCLEAR FACILITIES
NQA-1 COMPLIANT AIR MOVING EQUIPMENT



Applicable Nuclear Codes & Standards

ASME NQA-1

Quality Assurance Requirements for Nuclear Facility Applications

ASME AG-1

Code on Nuclear Air & Gas Treatment

ASME BPVC

Section IX Boiler & Pressure Vessel Code

API 673

Centrifugal Fans for Petroleum, Chemical & Gas Industry

AMCA 201

Fans and Systems

AMCA 210

Laboratory Methods of Testing Fans for Rating

AMCA 300

Reverberant Room Method for Fan Sound Testing

AWS D1.1/D1.M/1.3/1.6/14.6

Structural Welding Code

AWS D9.1M

Sheet Metal Welding Code

NEMA MG1

Motors

10 CFR PART 50 APPENDIX B

Quality Assurance for Nuclear Power & Fuel Processing Plants

10 CFR PART 21

Reporting of Defects & Noncompliance

ASNT-TC-1A

Inspection



Nuclear Market Fan Applications

The nuclear industry utilizes fans in many different areas. Each application requires a customized fan that is specifically designed to optimize durability, dependability, safety and ease of maintenance. Some of these applications include:

- **Motor/Turbine Cooling**
- **Nuclear Processing/Refining Facilities**
- **Reactor Cooling**
- **Hot Cell Pressurization**
- **Battery Room Ventilation (ATEX)**
- **Exhaust & Supply**
- **HVAC (General Ventilation & Air Handling Units)**
- **Various Safety Systems**

Validation & Testing

Every fan that we manufacture for the nuclear market undergoes a rigorous testing and validation process to meet the industry requirements for vibration, air and sound performance. In addition, Twin City Fan & Blower tests all fans for structural and mechanical integrity. Our capabilities allow us to perform our testing in our AMCA 210 certified laboratory as well as our nuclear fan manufacturing facility.



Model TCVX
Adjustable Blade Vaneaxial Fan



Model BCS
Backward Curved High Volume/Pressure Fan

Special Requirements for Nuclear Applications

Twin City Fan & Blower has been supplying air moving equipment for nuclear applications for over 30 years. Our dedicated nuclear staff has the knowledge and expertise to ensure compliance with the most stringent industry requirements. We take great pride in offering our customers special customization and construction features required to meet industry standards.

- **Stainless steel materials**
- **Fabricating per ASME AG1 construction requirements**
- **Welding per AWS and ASME IX requirements**
- **Custom machining**

Quality Assurance

Our in-house Nuclear Quality Assurance Program ensures that all of our products and components are compliant with industry regulations. We pay special attention to the implementation and verification of our procedures to fully support the nuclear application requirements. This process allows us to record and verify each step of the manufacturing process and provide our customers with the highest quality products.



Model RBA
Industrial Radial Bladed Fan



Model HIB
High Efficiency Industrial Backward Curved Fan



Twin City Fan & Blower

Twin City Fan & Blower is an industry leading designer and manufacturer of the highest quality industrial fans throughout the world. Our products are known for their rugged construction and reliable operation. Twin City Fan & Blower offers unmatched flexibility and fan customization, coupled with superior service before and after the sale. We also have the capability to provide parts and service for products not manufactured by Twin City Fan & Blower.

Common Products (Nuclear Facilities)

BC - Flat-Blade Backward Inclined Centrifugal Fan

BAE - Airfoil Centrifugal Fan

BCS - Backward Curved High Volume/ Pressure Centrifugal Fan

RBA - Industrial Radial Blade Fan

TBNA - Turbo Pressure Blower

HIB - High Efficiency Industrial Backward Curved Fan

MBO - Heavy Duty Pressure Blower

MBR - Heavy Duty Pressure Blower, High Pressure Air Handling

BCN - Backward Curved Pressure Blowers

TCVX - Adjustable Blade Vaneaxial Fans

DCRU - Upblast Roof Exhausters

INDUSTRIAL & COMMERCIAL FANS

Centrifugal Fans | Utility Sets | Plenum & Plug Fans | Inline Centrifugal Fans

Mixed Flow Fans | Tubeaxial & Vaneaxial Fans | Propeller Wall Fans | Propeller Roof Ventilators

Centrifugal Roof & Wall Exhausters | Ceiling Ventilators | Gravity Ventilators | Duct Blowers

Radial Bladed Fans | Radial Tip Fans | High Efficiency Industrial Fans | Pressure Blowers

Laboratory Exhaust Fans | Filtered Supply Fans | Mancoolers | Fiberglass Fans | Custom Fans



A Twin City Fan Company

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