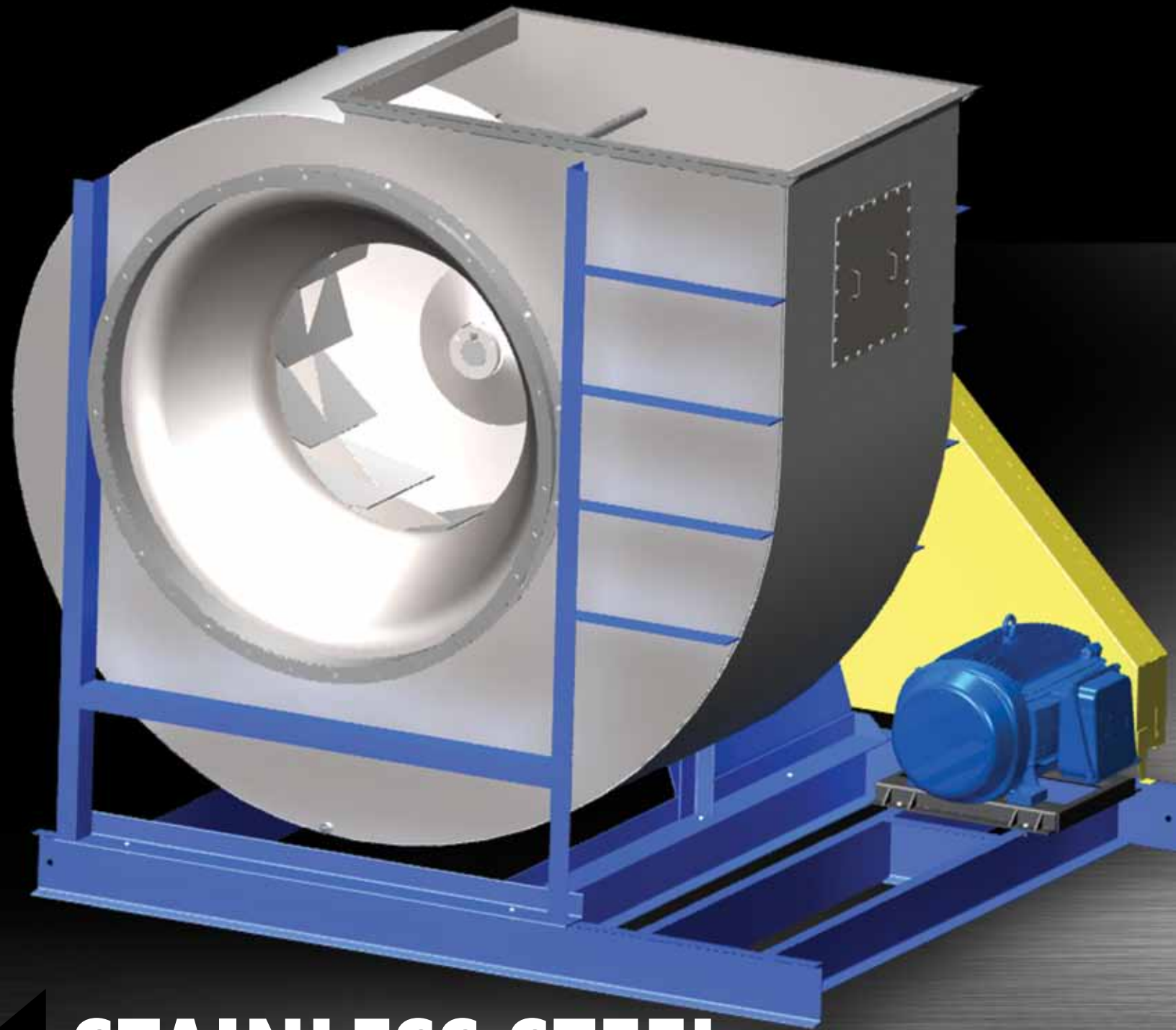


Industrial
Air Technology Corp.

MANUFACTURER OF INDUSTRIAL FANS & BLOWERS



STAINLESS STEEL FANS AND BLOWERS

MANUFACTURED TO MEET YOUR SPECIFIC NEEDS

Industrial Air Technology Corp.— Customer Service: 989-731-5840, Fax: 989-732-1641 M – F 8:00 a.m.— 5:00 p.m. EST

www.indairtech.com

SPECIFYING A FAN PACKAGE

Industrial Air Technology, Corp. Stainless Steel Fan packages are designed for non-sanitary requirements where corrosion resistance is desired. These packages are ideal for wash down applications or to minimize contamination. Surfaces and welds may include pits, scratches, crevices, and small pockets, which does not meet 3A and FDA sanitary compliance. When making finish selections, be aware that the higher the grade of finish, the more costly the package will be.

Unless painting is specified, all stainless steel surfaces will be media treated and unpainted. Four standard finish options are available both inside and outside the air stream. These options allow for the selection of different finishes on the inside and outside of the air stream, depending on the application requirement.

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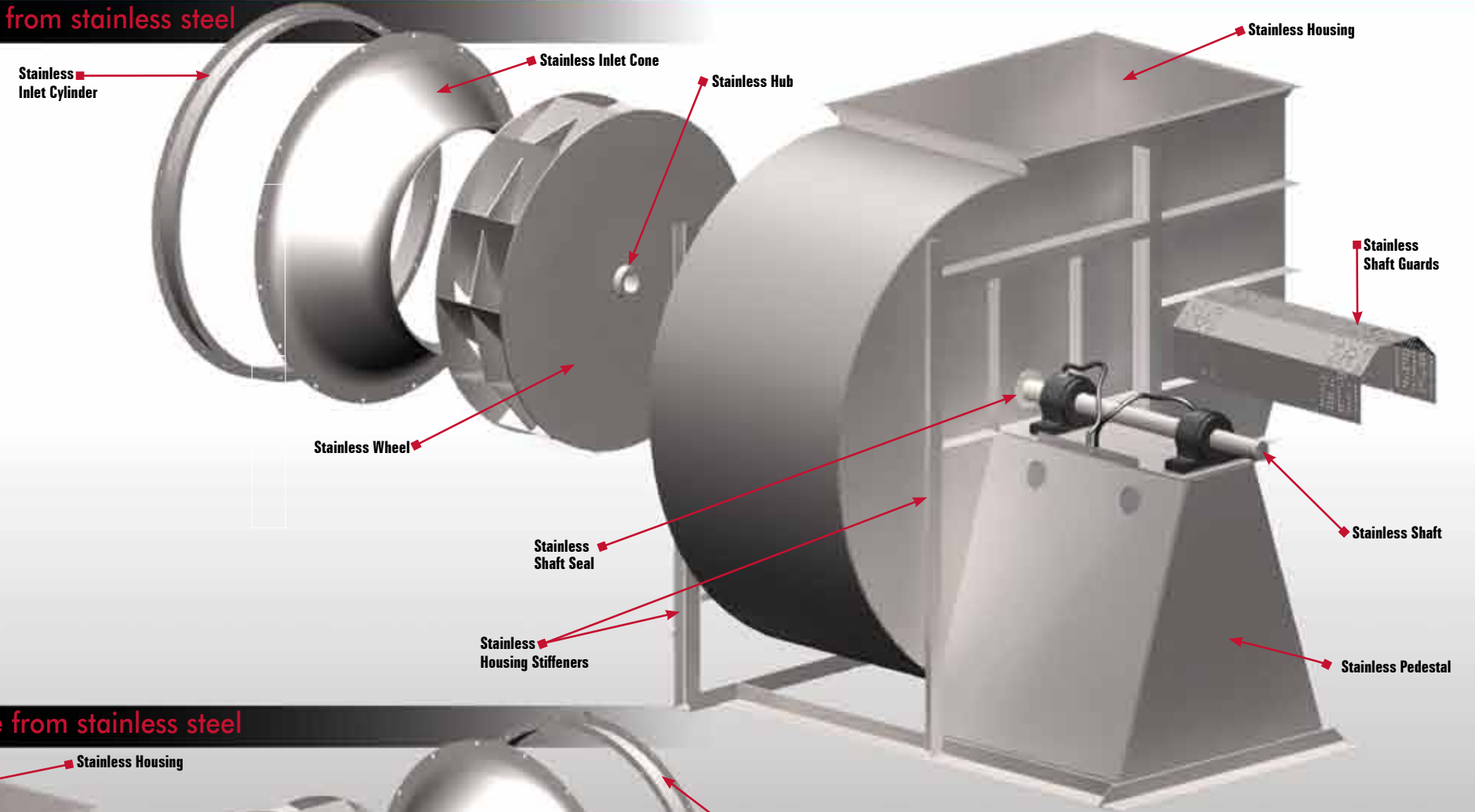
SELECTION PROCESS

- Carefully consider the requirements of your application
- Determine what material you require (304 or 316)
- Determine which package you require (Air Stream, Entire Fan, Accessory)
- Determine the required finish for your application (Standard, Plus, Deluxe, Premium)
 - Inside the air stream finish option
 - Outside the air stream finish option
- Determine if Passivation is Required
- Determine what options are needed
 - Gasket material type
 - Type of drain plug coupling (if required)
 - Motor type - stainless or wash down (if required)
 - Drive package - stainless or wash down (if required)
- Determine what Fan Accessories are needed
- Contact IATC or one of our qualified representatives for a quote.

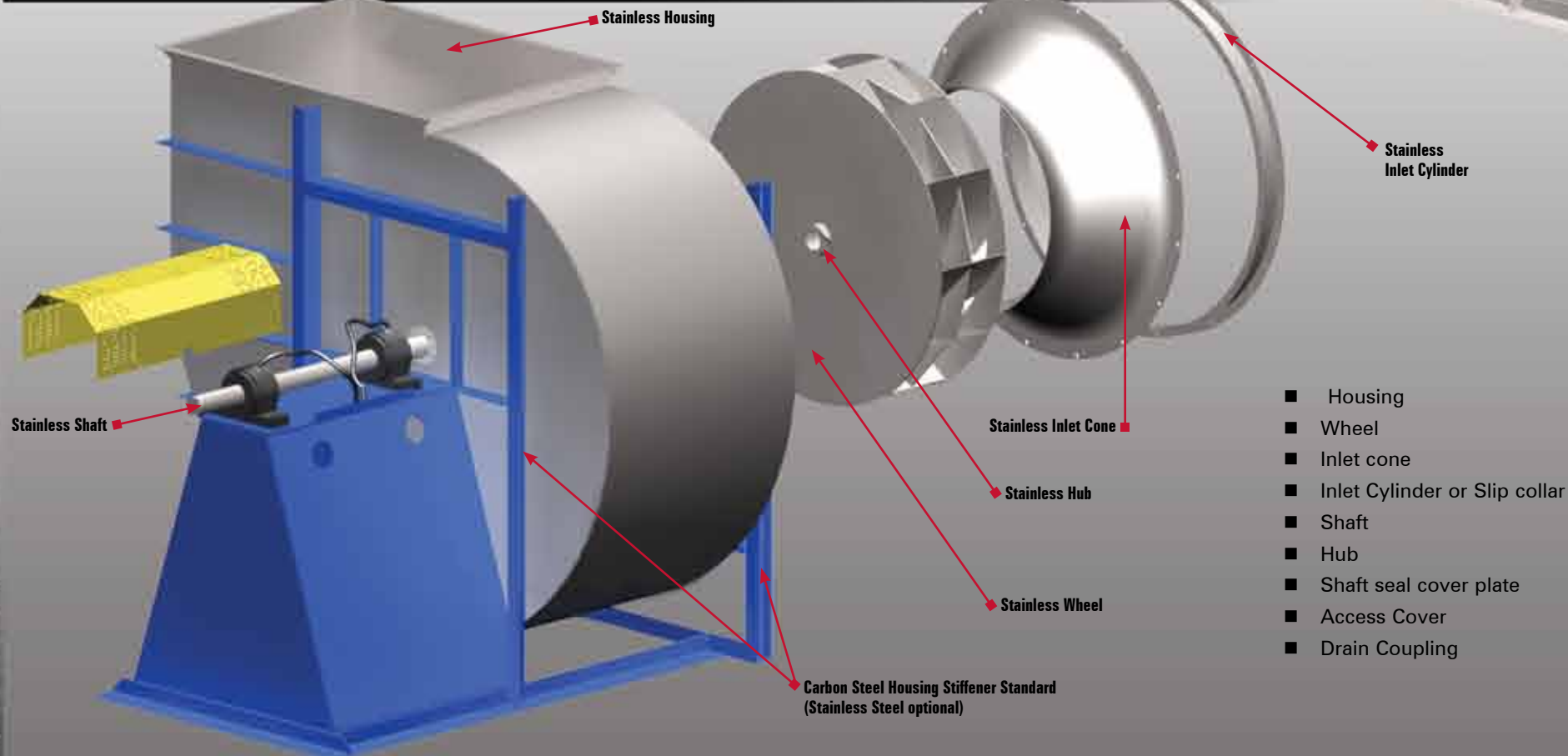
FAN PACKAGES

Entire Fan Package Components made from stainless steel

- Housing
- Wheel
- Inlet cone
- Inlet Cylinder or Slip collar
- Shaft
- Shaft Guard (except arrangement 4)
- Hub
- Shaft seal cover plate
- Belt Guard (arrangements 1, 3, 9)
- Pedestal
- Motor Base (arrangements 1, 3, 9)
- Access Cover
- Drain Coupling



Air Stream Package Components made from stainless steel



- Housing
- Wheel
- Inlet cone
- Inlet Cylinder or Slip collar
- Shaft
- Hub
- Shaft seal cover plate
- Access Cover
- Drain Coupling

FAN FINISHES

FINISH OPTIONS

Surfaces and welds may include pits, scratches, crevices, and small pockets, which may not be appropriate for the most sanitary requirements. When making finish selections, be aware that the higher the grade of finish, the more costly the package will be.

Unless painting is specified, all stainless steel surfaces will be media treated and unpainted.

Four standard finish options are available both inside and outside the air stream. These options allow for the selection of different finishes on the inside and outside of the air stream depending on the application requirements.

Premium 125 RA micro finish

- Welds may include pits, scratches, crevices, and small pockets
- Welds are continuous to minimize crevices and reduce the risk of contamination
- Welds are ground to reduce surface imperfections typical of most welds
- Welds are polished to a 125 RA micro finish further improving the surface
- Welds are polished to a 250 RA micro finish further improving the surface



Deluxe 250 RA micro finish

- Welds may include pits, scratches, crevices, and small pockets
- Welds are continuous to minimize crevices and reduce the risk of contamination
- Welds are ground to reduce surface imperfections typical of most welds
- Welds are polished to a 125 RA micro finish further improving the surface
- Welds are polished to a 250 RA micro finish further improving the surface



Plus No finish spec – Continuous weld

- Welds may include pits, scratches, crevices, and small pockets
- Welds are continuous to minimize crevices and reduce the risk of contamination
- Welds are ground to reduce surface imperfections typical of most welds
- Welds are polished to a 125 RA micro finish further improving the surface
- Welds are polished to a 250 RA micro finish further improving the surface



Standard No finish spec – As fabricated

- Welds may include pits, scratches, crevices, and small pockets
- Welds are continuous to minimize crevices and reduce the risk of contamination
- Welds are ground to reduce surface imperfections typical of most welds
- Welds are polished to a 125 RA micro finish further improving the surface
- Welds are polished to a 250 RA micro finish further improving the surface



Passivation

Passivation improves the corrosion resistance properties of components made of precipitation-hardened, austenitic, ferritic and martensitic steels. Passivation treatments improve the surface condition of stainless steel by dissolving iron that has been imbedded in the surface during forming or machining. If allowed to remain, the iron can corrode and give the appearance of rust spots on the stainless steel.

INDUSTRIAL AIR TECHNOLOGY CORP. WHEEL TYPES

Industrial Air Technology, Corp. centrifugal fans are used in industrial ventilation, exhaustion, pressure blowing, pneumatic conveying or supplying combustion air. They are well suited for airstreams that are clean, dust or material laden. Once you have considered the environmental conditions that impact your fan selection, the proper wheel selection should be made.

Wheel types below are also available in fan packages for abrasion resistance, corrosion resistance, spark resistance or high temperature applications.



Backward Incline

Applications: Clean Air
Pressure Range: ½"–22" WG
Volume Range: 3200–280,000 CFM



IRO

Applications: Material Handling
Pressure Range: ½"–45" WG
Volume Range: 200–100,000 CFM



IRF

Applications: Stringy Material Conveying
Pressure Range: ½"–45" WG
Volume Range: 200–100,000 CFM



IRW

Applications: Material Handling – Fibrous, Wooly
Pressure Range: 1"–30" WG
Volume Range: 800–16,000 CFM



IRT

Applications: Light Abrasive Air Stream
Pressure Range: 1"–45" WG
Volume Range: 1000–125,000 CFM



Radial Tip

Applications: Dirty Air
Pressure Range: 6"–32" WG
Volume Range: 10,000–220,000 CFM



TROH

Applications: High Pressure-High Volume
Pressure Range: Up to 110" WG
Volume Range: 1000–26,500 CFM



TROL

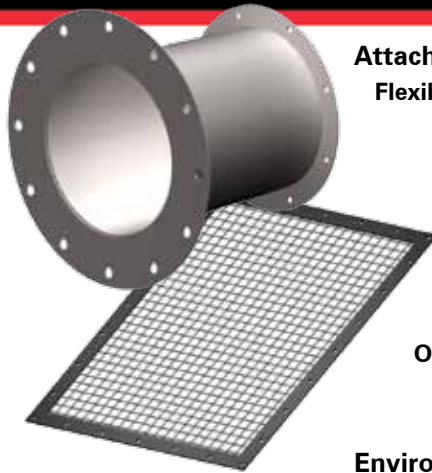
Applications: High Pressure-Low Volume
Pressure Range: Up to 110" WG
Volume Range: 500–11,000 CFM



Backward Curve

Applications: Clean to Lightly Loaded Air Stream
Pressure Range: 25"–78" WG
Volume Range: 5000–70,000 CFM

INDUSTRIAL AIR TECHNOLOGY CORP. ACCESSORIES



Attachments: *In round, square or flanged configurations*

Flexible Connections – Isolates load and vibration while accommodating misalignment

Screens – Restricts objects or debris while allowing airflow

Inlet Box – Connects fan and duct at right angles with minimal losses

Inlet Transitions – Connects fan inlet and other components

Outlet Transitions – Connects fan outlet and other components



Environmental options: *Limits interaction between the fan and its surroundings*

Insulation – Acoustic or temperature resistant

Weather Hoods – Covers inlet or duct openings

Silencers – Reduces noise emanating from the inlet or outlet

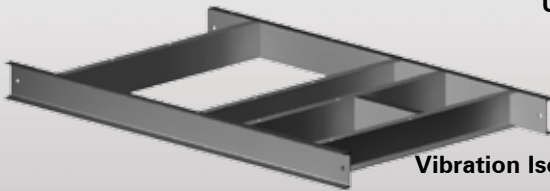
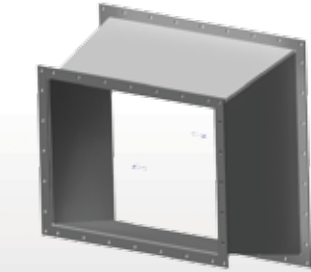


Base Support: *Stabilizes and provides common mounting unit for fan, motor & accessories*

Unitary – Rigid mount C-channel construction ready to install

Inertia – Sturdy construction frame to accommodate customer provided concrete

Vibration Isolators – Floor mounted springs to reduce transient vibrations



Bearing Accessories: *Special configurations to combat excessive load, corrosion and extreme applications*

Lubrication Provisions – Fittings and extended lines for ease in bearing maintenance at no additional cost

Sensors – Speed, temperature and vibration monitoring device

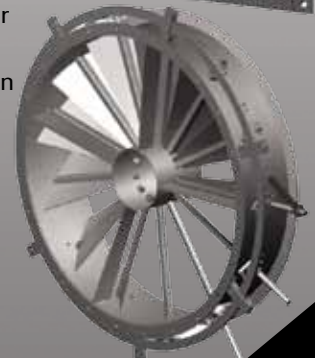
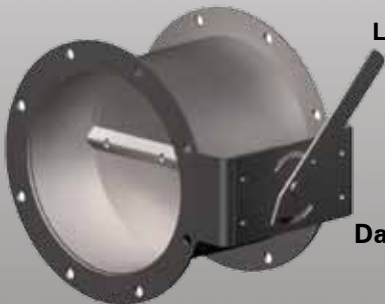
Dampers: *Air volume (flow) limiter available for both inlet and outlet locations*

Butterfly – Low maintenance one piece pivoting design for high pressure blowers

Opposed Blade – Adjacent blades rotate in the opposite direction

Parallel Blade – Blades rotate in the same direction

Variable Inlet Vane (VIV) – Blades are connected to a circular hub



Shaft Accessories: *To optimize fan operating conditions*

Cooler – Designed to dissipate heat and provide air circulation

Seals – Provide protection from contaminants and process air

Speed Switches – Shaft rotation monitoring device

