



Quickdraft[®]
Conveying/Exhaust Systems

Trim Handling Solutions for Paper, Film, Foil, Nonwovens & Textiles

Advanced material handling from the technology leader.

Quickdraft is the industry-leading innovator in pneumatic conveying systems - with more installations across all material handling sectors than all our competitors combined.

The Quickdraft Venturi

Since 1953

Since 1953 Quickdraft has provided pneumatic conveying solutions specifically engineered to solve our customers' production problems and to enhance productivity and profitability. Quickdraft serves many industries including food processing, pulp and paper, metals processing, film, foil, nonwovens, fiberglass, plastics and rubber, among others.

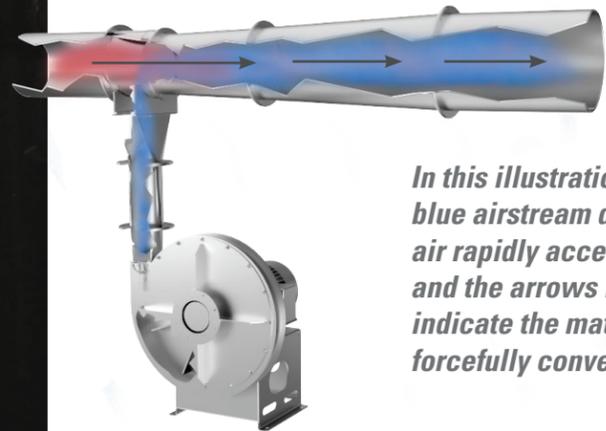
1 These applications demand exacting system design requirements and dependable 24-hour/7-days a week operation of our equipment with minimal maintenance. Our experience in these varied applications provides us the ability to develop unique, dependable solutions for our customers.

Venturi Powered Solutions

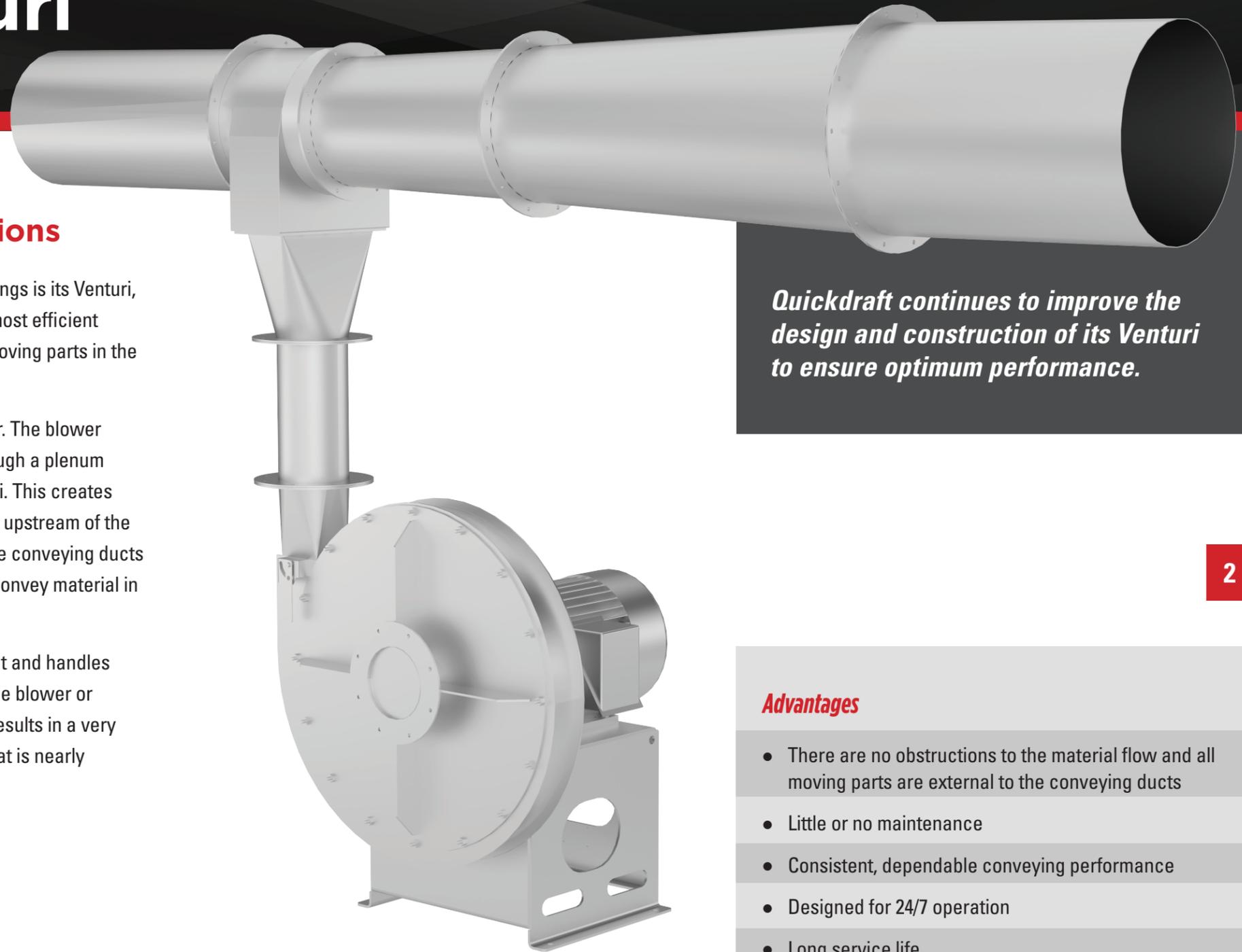
At the very core of Quickdraft's system offerings is its Venturi, designed and manufactured to provide the most efficient method of conveying material without any moving parts in the conveying system.

The Venturi is powered by a pressure blower. The blower injects air at high velocity and pressure through a plenum chamber controlled by a nozzle in the Venturi. This creates the Venturi effect and induces the flow of air upstream of the Venturi. Sufficient velocity is generated in the conveying ducts before and after the Venturi to capture and convey material in a consistent, trouble-free manner.

The blower sits outside of the conveying duct and handles ambient air. The material does not contact the blower or the rotating fan impeller. This arrangement results in a very dependable pneumatic conveying system that is nearly maintenance-free.



In this illustration, the arrows in the blue airstream depict the injected air rapidly accelerating the flow, and the arrows in the red airstream indicate the material being forcefully conveyed.



Quickdraft continues to improve the design and construction of its Venturi to ensure optimum performance.

Advantages

- There are no obstructions to the material flow and all moving parts are external to the conveying ducts
- Little or no maintenance
- Consistent, dependable conveying performance
- Designed for 24/7 operation
- Long service life
- The blower can be located remotely from the Venturi
- Sound reduction equipment available for all applications

Designed for Optimum Performance

Superior design and precision manufacturing give the Quickdraft Venturi its uniqueness in creating effective suction and efficient acceleration.

Vertical Eductor System

Features & Benefits

- Convey paper, film, foil, plastics and polymers of all kinds, nonwovens, fiberglass, metals, etc.
- Unobstructed flow path ideal for conveying continuous edge trim and other broke material.
- In-Line Trim Choppers available for cut length control.

Mesh Bin Cover

The mesh bin cover vents the air to the surrounding area and contains the material in the collection bin.

Volume Damper

For suction control

In-Line Silencer

Mesh Collection Bag

The mesh bag collects the trims and vents the air to the surrounding area. The bag is provided with a full length vertical zipper and is very durable. The bag does not filter the air.

Eductor

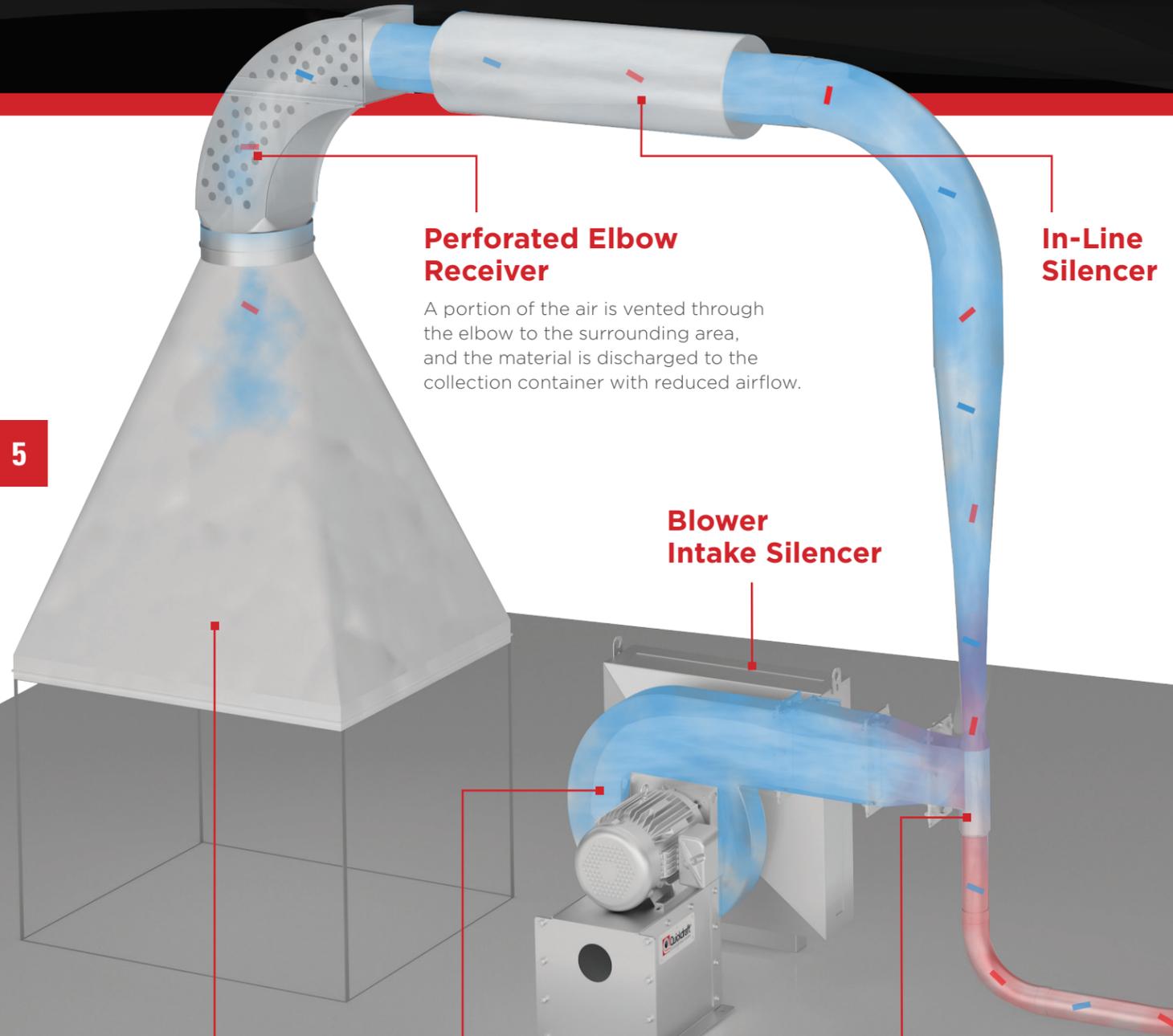
Superior design and precision manufacturing make the Quickdraft Venturi Eductor the most efficient and reliable method for pneumatically conveying material.

Chopper Eductor Bin

Features & Benefits

- Convey paper, film, foil, plastics and polymers of all kinds, nonwovens, fiberglass, metals, etc.
- Conveying distances from a few feet to hundreds of feet.
- Separate systems for each machine or centralized whole plant trim collection systems.

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Perforated Elbow Receiver

A portion of the air is vented through the elbow to the surrounding area, and the material is discharged to the collection container with reduced airflow.

In-Line Silencer

Blower Intake Silencer

Mesh Bin Cover

The mesh bin cover vents the air to the surrounding area and contains the material in the collection bin.

Pressure Blower

Quickdraft uses direct drive, High pressure blowers to power our venturi eductor units.

Eductor

Superior design and precision manufacturing make the Quickdraft Venturi Eductor the most efficient and reliable method for pneumatically conveying material.

In-Line Chopper

The Quickdraft Trim Chopper is used to reduce continuous trim material into pieces of a specific length that can be more easily conveyed or that can be collected more densely. The chopper also allows trim generated from multiple machines to be conveyed in a common duct without plugging.

- Cuts continuous trim materials into pieces with controllable chop length
- Gear driven, direct drive and belt driven models available
- Knife system eliminates need to purchase backup rotor and blade assembly
- Blades reverse for greater service life and are removable for sharpening on common surface grinder
- Rolling shear cut
- One piece casting means greater tolerances for cutting thin material
- Greater mass means less vibration
- Flywheels can be added to provide additional momentum for tough-to-cut material

Intake Chopper Blades

Precision adjustable gap settings to less than 0.0005 inch

Flexible Duct

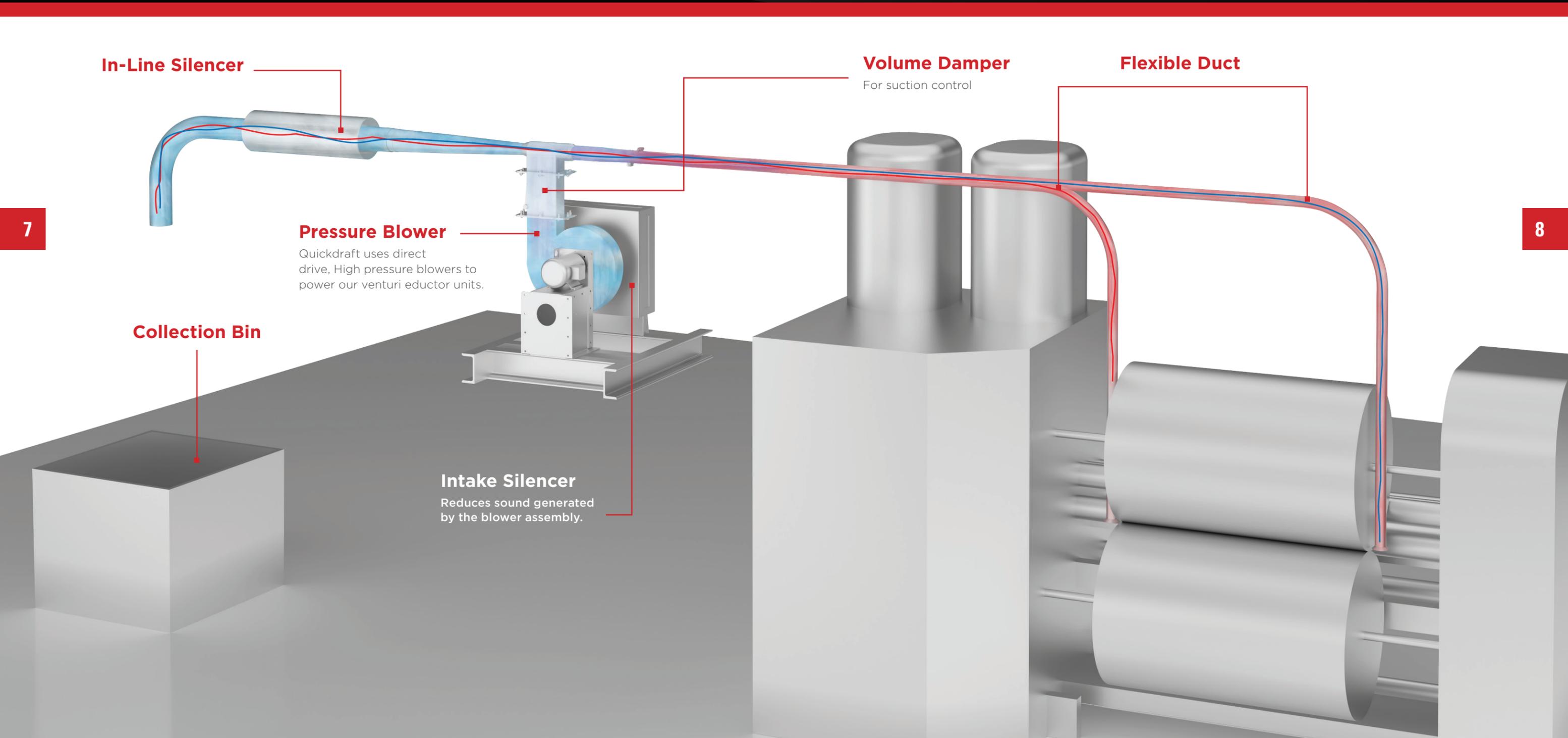
In-Line Silencer

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Horizontal Eductor System

Features & Benefits

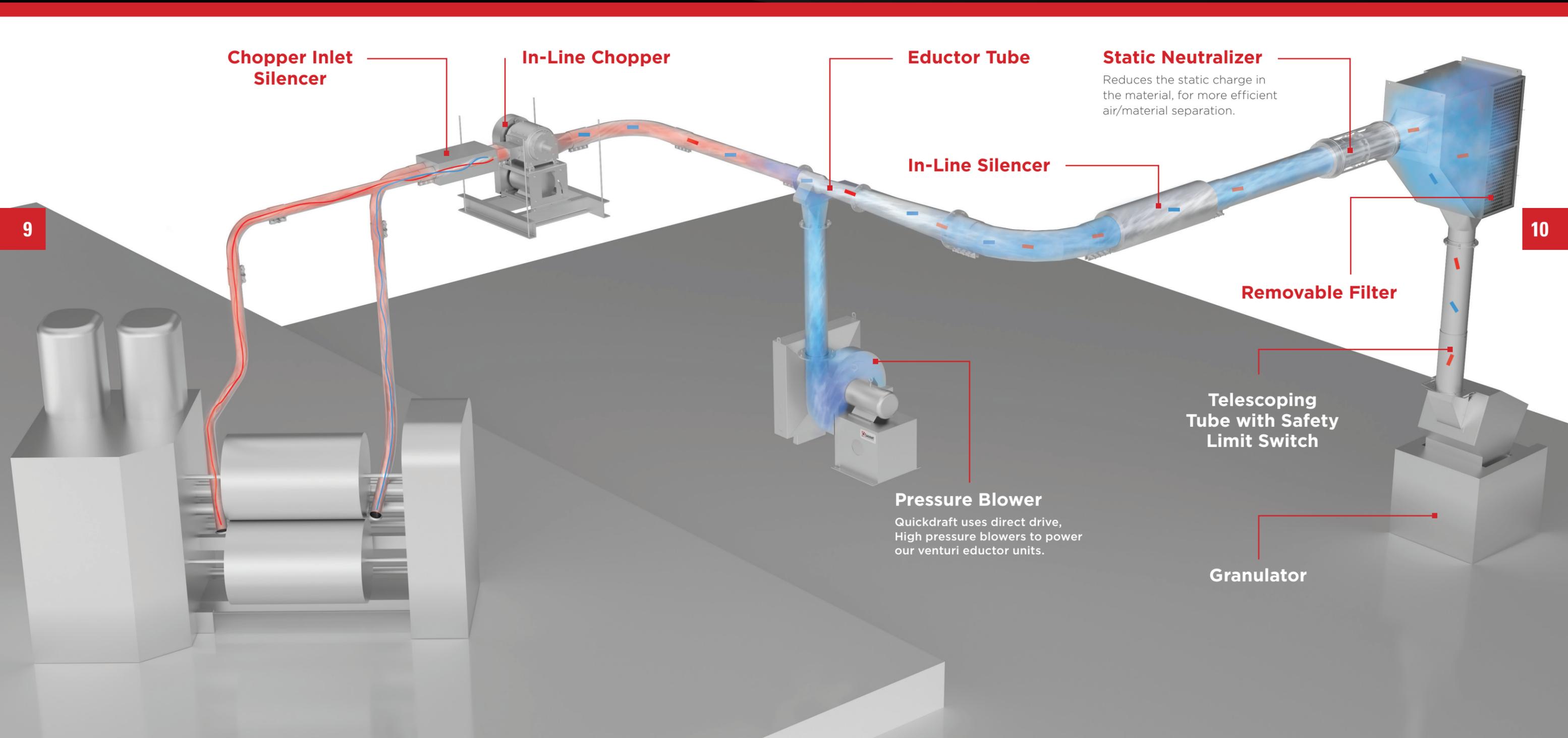
- Convey paper, film, foil, plastics and polymers of all kinds, nonwovens, fiberglass, metals, etc.
- In-Line Choppers available for cut length control.
- Noise reduction and dust filtration available.



Chopper/Eductor System

Features & Benefits

- Conveying distances from a few feet to hundreds of feet.
- Separate systems for each machine or centralized whole plant trim collection systems.
- Reliably convey challenging materials: static charge, abrasive materials, exposed adhesives, fibrous materials that can snag, brittle materials.
- Bailing, granulating, briquetting or pelletizing systems available.



Chopper Inlet Silencer

In-Line Chopper

Eductor Tube

Static Neutralizer

Reduces the static charge in the material, for more efficient air/material separation.

In-Line Silencer

Removable Filter

Telescoping Tube with Safety Limit Switch

Pressure Blower

Quickdraft uses direct drive, High pressure blowers to power our venturi eductor units.

Granulator

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Portable Trim Conveying System

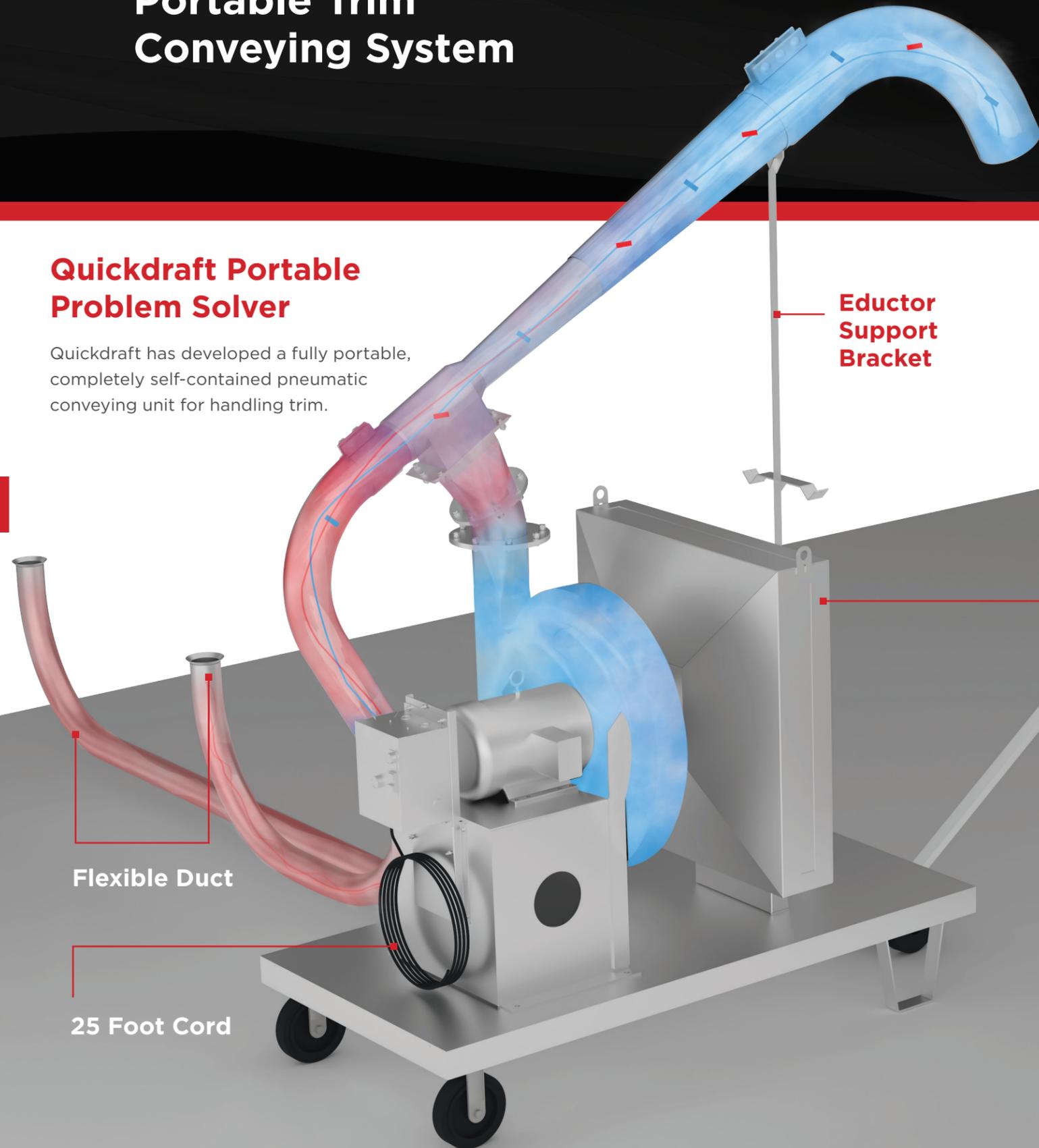
Quickdraft Portable Problem Solver

Quickdraft has developed a fully portable, completely self-contained pneumatic conveying unit for handling trim.

Features & Benefits

- Convey paper, film, foil, plastics and polymers of all kinds, nonwovens, fiberglass, metals, etc.
- Reliably convey challenging materials: static charge, abrasive materials, exposed adhesives, fibrous materials that can snag, brittle materials.

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Flexible Duct

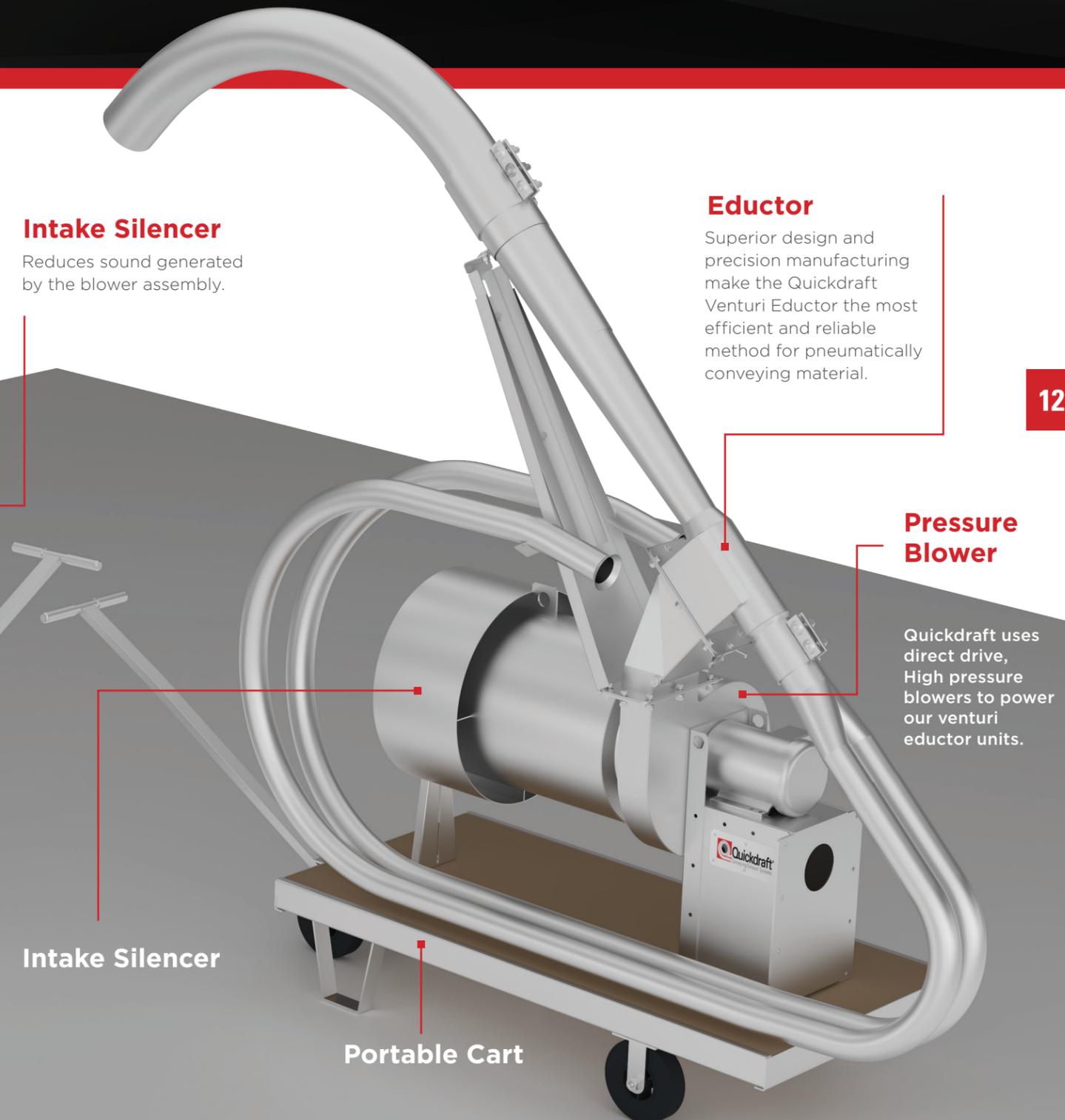
25 Foot Cord

Eductor Support Bracket

Intake Silencer

Reduces sound generated by the blower assembly.

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Eductor

Superior design and precision manufacturing make the Quickdraft Venturi Eductor the most efficient and reliable method for pneumatically conveying material.

Pressure Blower

Quickdraft uses direct drive, High pressure blowers to power our venturi eductor units.

Intake Silencer

Portable Cart

Standard Silencing Equipment & Accessories



Blower Intake Silencer

Silencers are used to reduce the sound levels associated with the pneumatic conveying equipment. The fan or blower sound levels are typically reduced by 3 to 7 dBA at a distance of 3 feet.

- Blower intake silencers and in-line silencers available
- Greatly reduces sound at blower location
- Meets OSHA Specifications
- Custom designs available



Blower Intake Silencer



In-Line Silencer



Collection Receptacle

This woven polyester bag assembly provides a simple, flexible, convenient and effective means for dissipating the conveying air while collecting the trim or waste material. A convenient zipper is included. The mildew-resistant unit is highly tear resistant.



Motor Starter

Motor starters can be supplied with our equipment either mounted to the motor base or supplied loose. Combination and non-combination, with NEMA 12 Enclosures and or many custom options.



Volume Damper

Trim conveying velocity can be controlled easily by using a Quickdraft volume damper. The automatic unit is recommended for applications where web speeds may vary. In all cases, matching suction pressure to the speed of slitting operation reduces flutter, attenuates noise, and minimizes energy consumption.



Perforated Elbow Separators

Standard and customized perforated elbows are available to exhaust the conveying air while delivering trim to a collection receptacle. The perforations are precision engineered for optimum separation of air and material.

Trim Handling Questionnaire

Name _____ Title _____

Company _____

Address _____

Email _____ Phone _____

Fax _____

How did you learn about Quickdraft? _____

Section A

1. Material to be conveyed _____
2. No. of Machines _____ 3. Trims Per Machine _____ 4. Max. Speed _____
5. Max. Trim Width _____ 6. Max. Web Width _____ 7. Min. Web Width _____
8. Max. Thickness or Basis Weight of Material _____
9. Trim Capture Mechanism: Flexible duct with flared entries furnished with unit
 Other (please describe) _____
10. Trim Receiver: Collection bag to be furnished by Quickdraft
 Other (please describe) _____

Section B

1. Unit location: Inside Outside
2. Maximum noise level permissible (in db) _____
3. Ambient considerations (please describe) _____

Section C

1. Mild steel construction is standard. If special needs exist, please specify: _____
2. 25 feet of flexible tubing is furnished by Quickdraft, if other lengths are required please specify _____
3. Power Supply: AC Voltage _____ Phase _____ Frequency _____
4. Required motor enclosure: TEFC Other (please describe) _____
5. Jobsite elevation: _____



Quickdraft

Quickdraft has led the way in reliability and customer support since 1953.

With design, engineering, manufacturing and testing under one roof, Quickdraft is able to offer unparalleled versatility in product offerings, customization, installation, and control options, all backed up by comprehensive customer support.

Quickdraft will be there to answer all your questions and resolve any issues that may arise through the entire life of your system.

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