



## **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. 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.

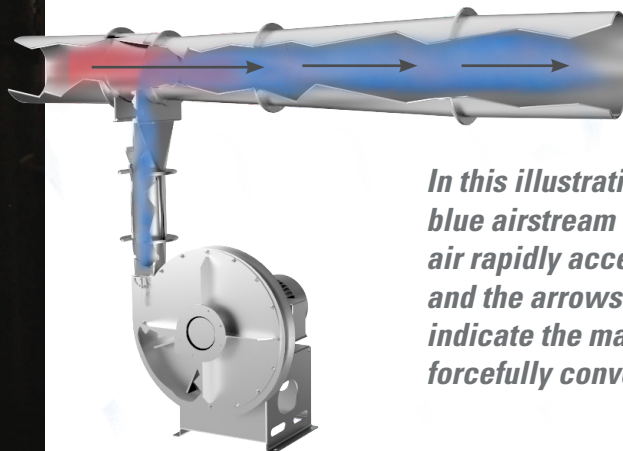
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## Venturi Powered Solutions

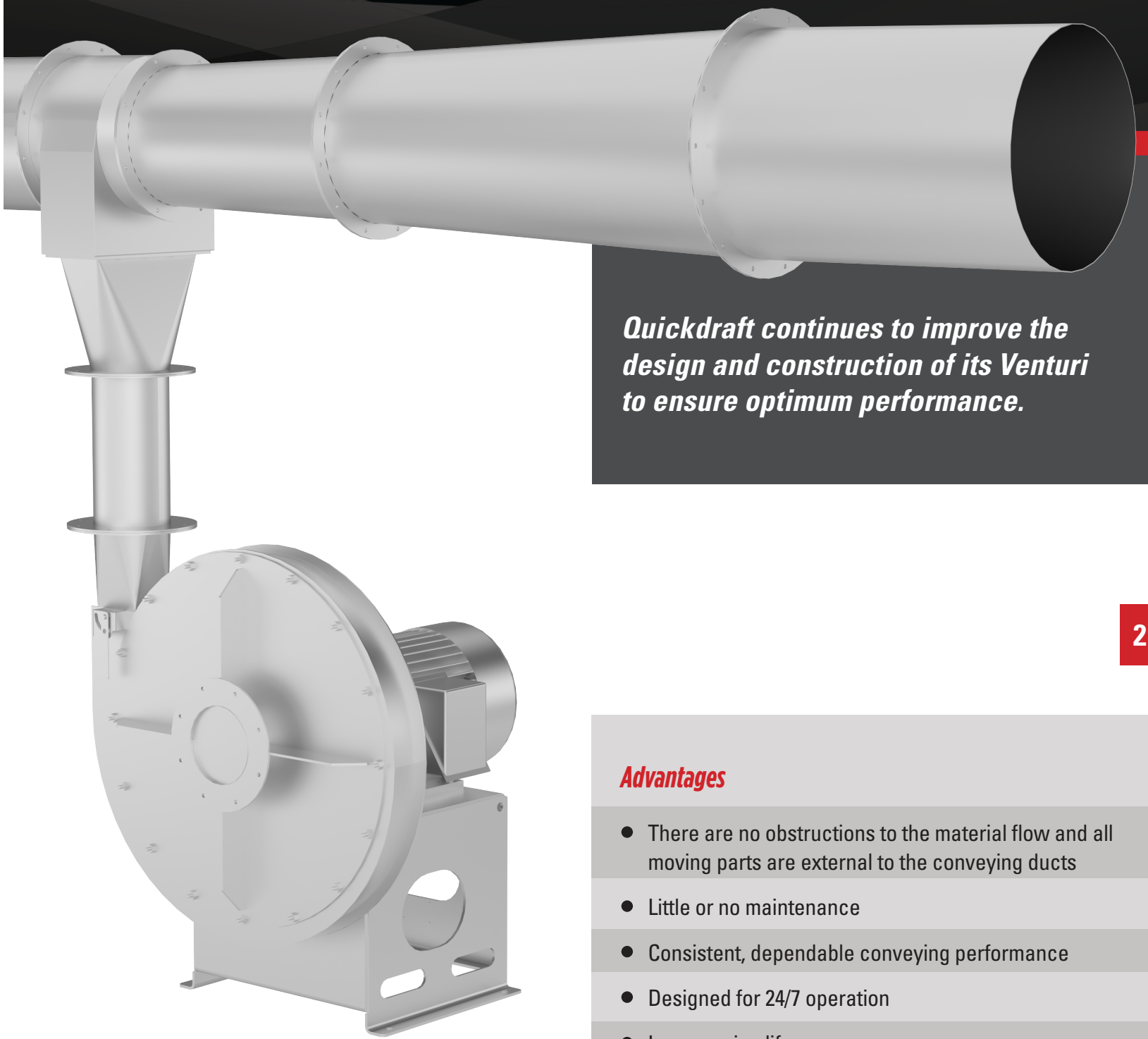
At the very core of Quickdraft's system offerings is its Venturi, designed and manufactured to provide the most efficient method of conveying material without any moving parts in the conveying system.

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.*

### ***Designed for Optimum Performance***

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

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### ***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

# Vertical Eductor System

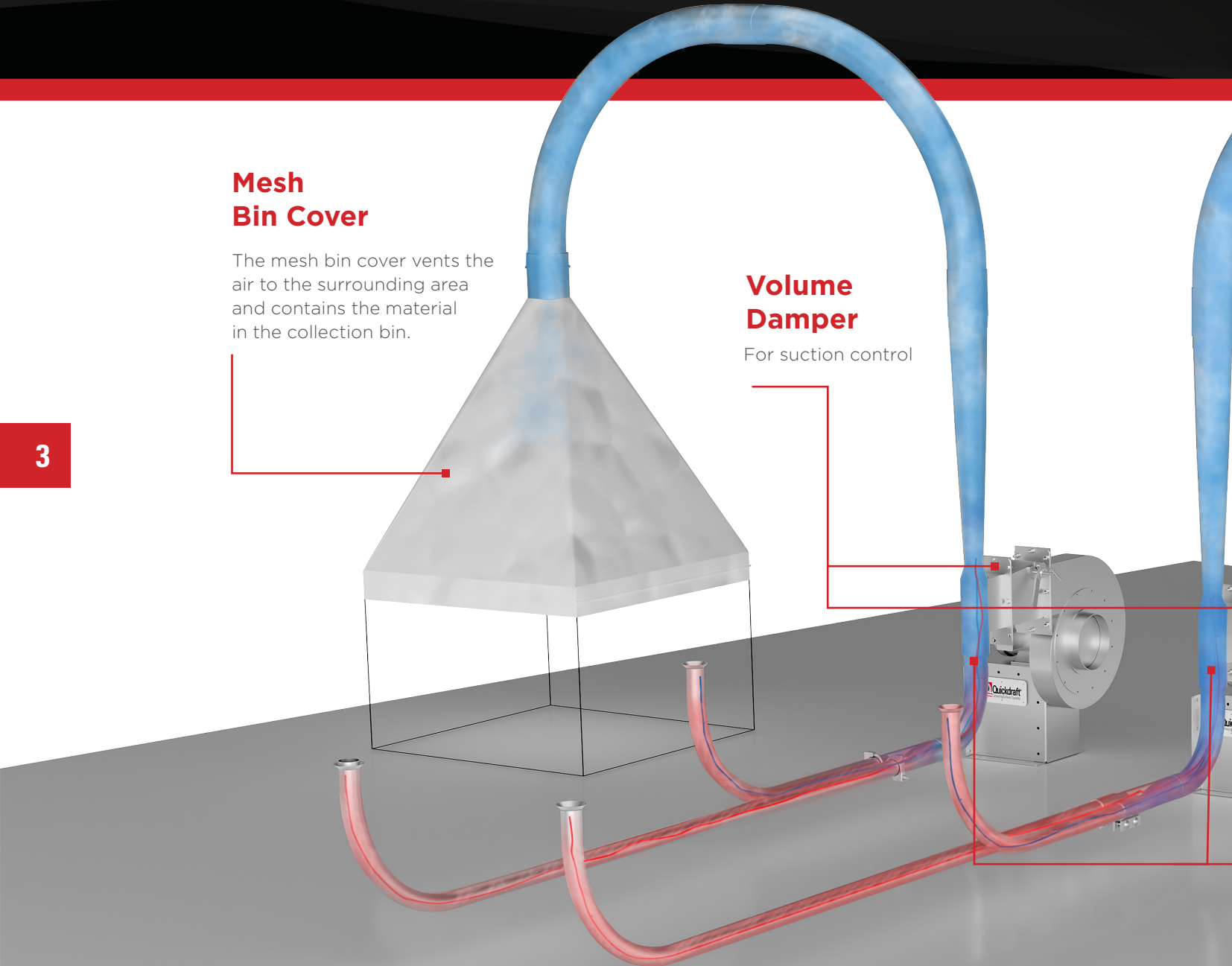
## Mesh Bin Cover

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

## Volume Damper

For suction control

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## 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.

### In-Line Silencer

### Mesh Collection Bag

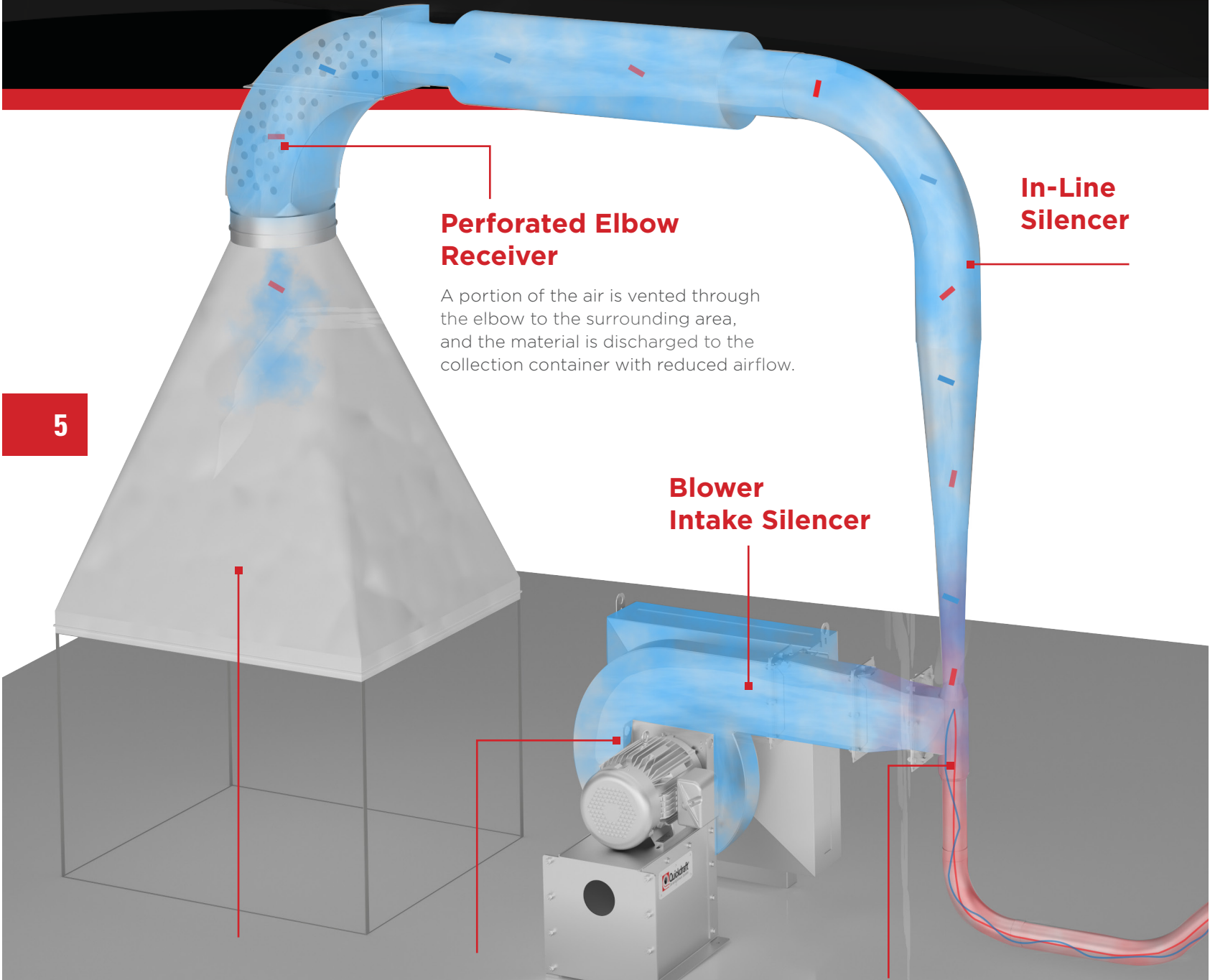
The mesh bag collects the trims and vents the air to the surrounding area. The bag is provided with a full length vertical zipper and is very durable. The bag does not filter the air.

### Eductor

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



# Chopper Eductor Bin



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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.

## Features & Benefits

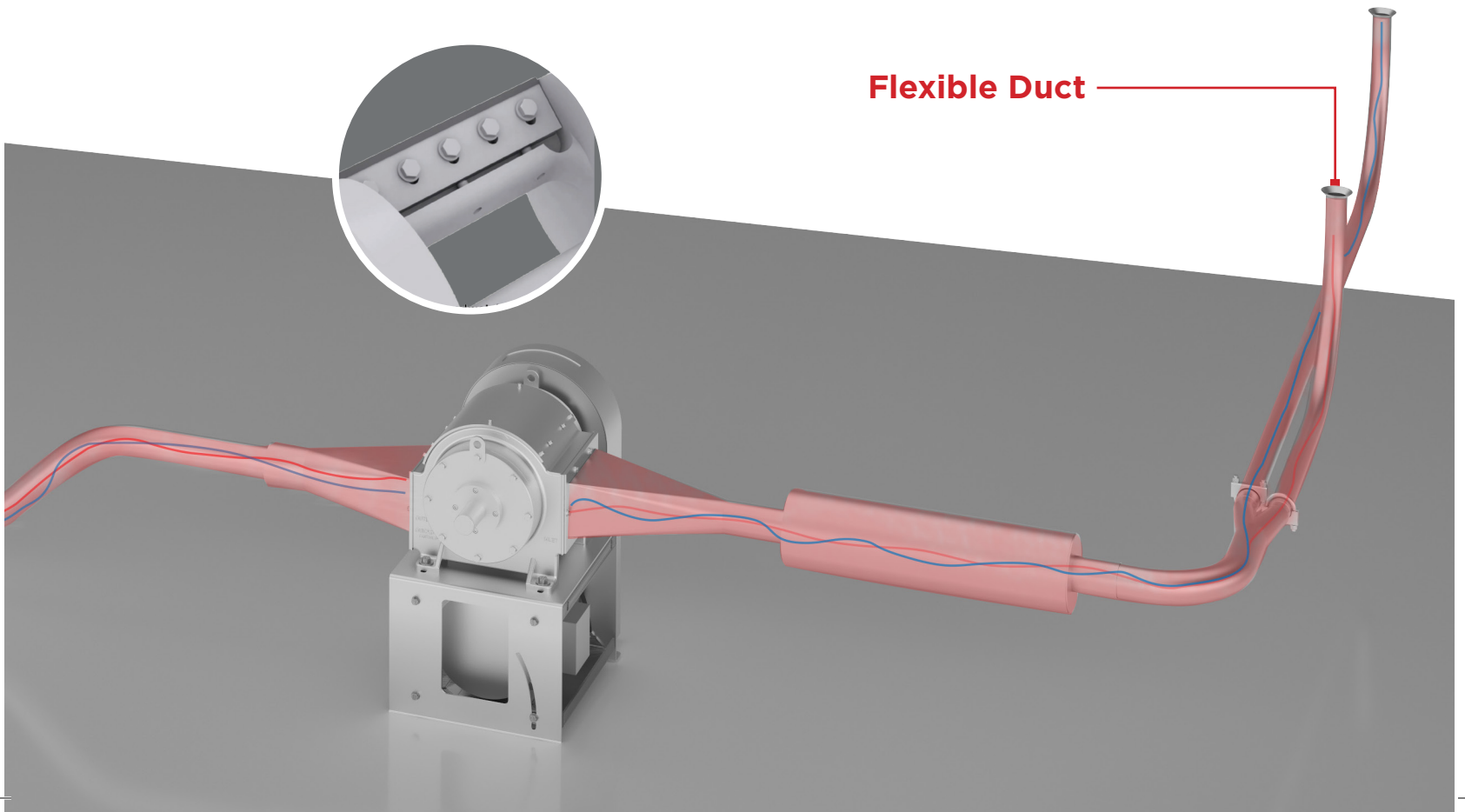
- Convey paper, film, foil, plastics and polymers of all kinds, nonwovens, fiberglass, metals, etc.
- Conveying distances from a few feet to hundreds of feet.
- Separate systems for each machine or centralized whole plant trim collection systems.

### In-Line Chopper

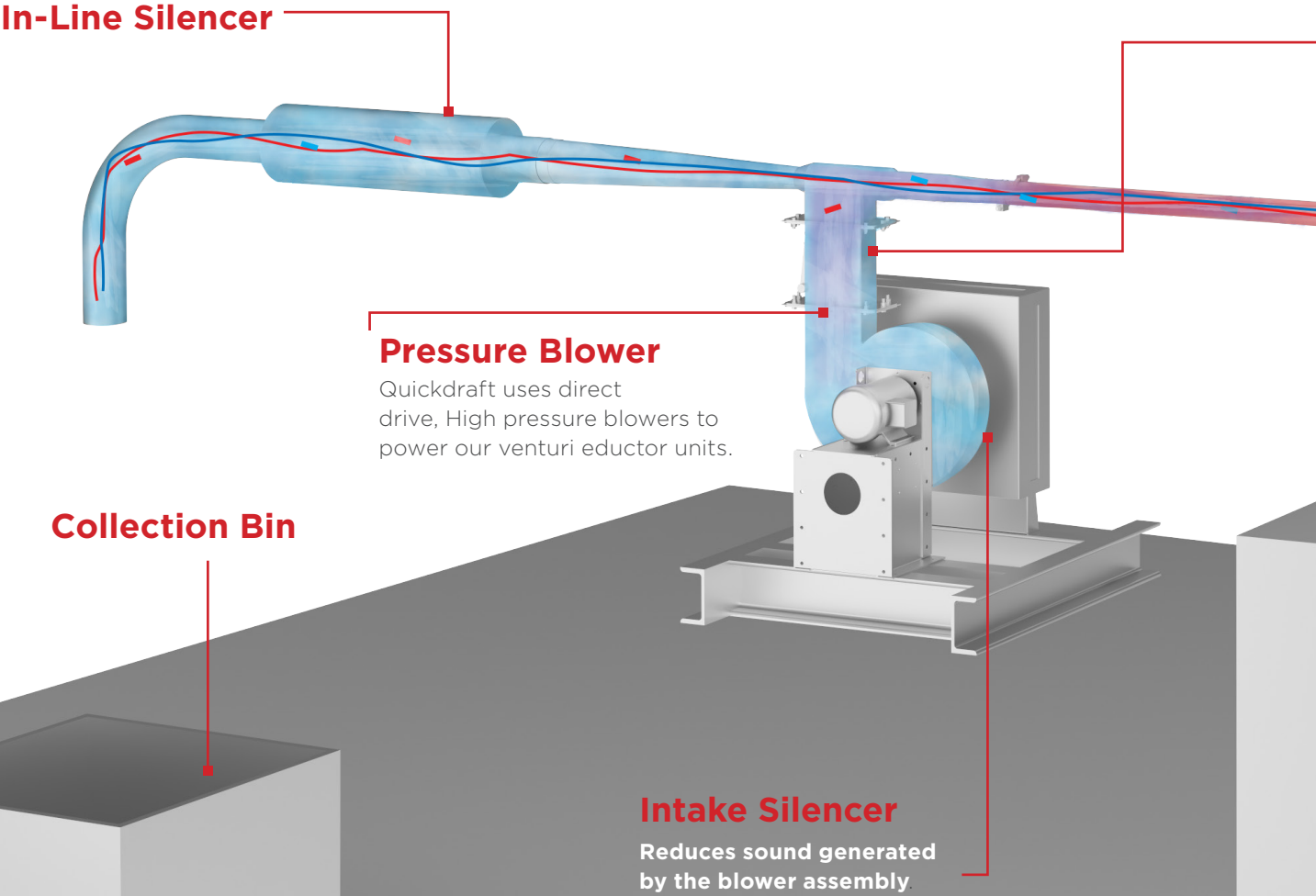
The Quickdraft Trim Chopper is used to reduce continuous trim material into pieces of a specific length that can be more easily conveyed or that can be collected more densely. The chopper also allows trim generated from multiple machines to be conveyed in a common duct without plugging.

- 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

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# Horizontal Eductor System





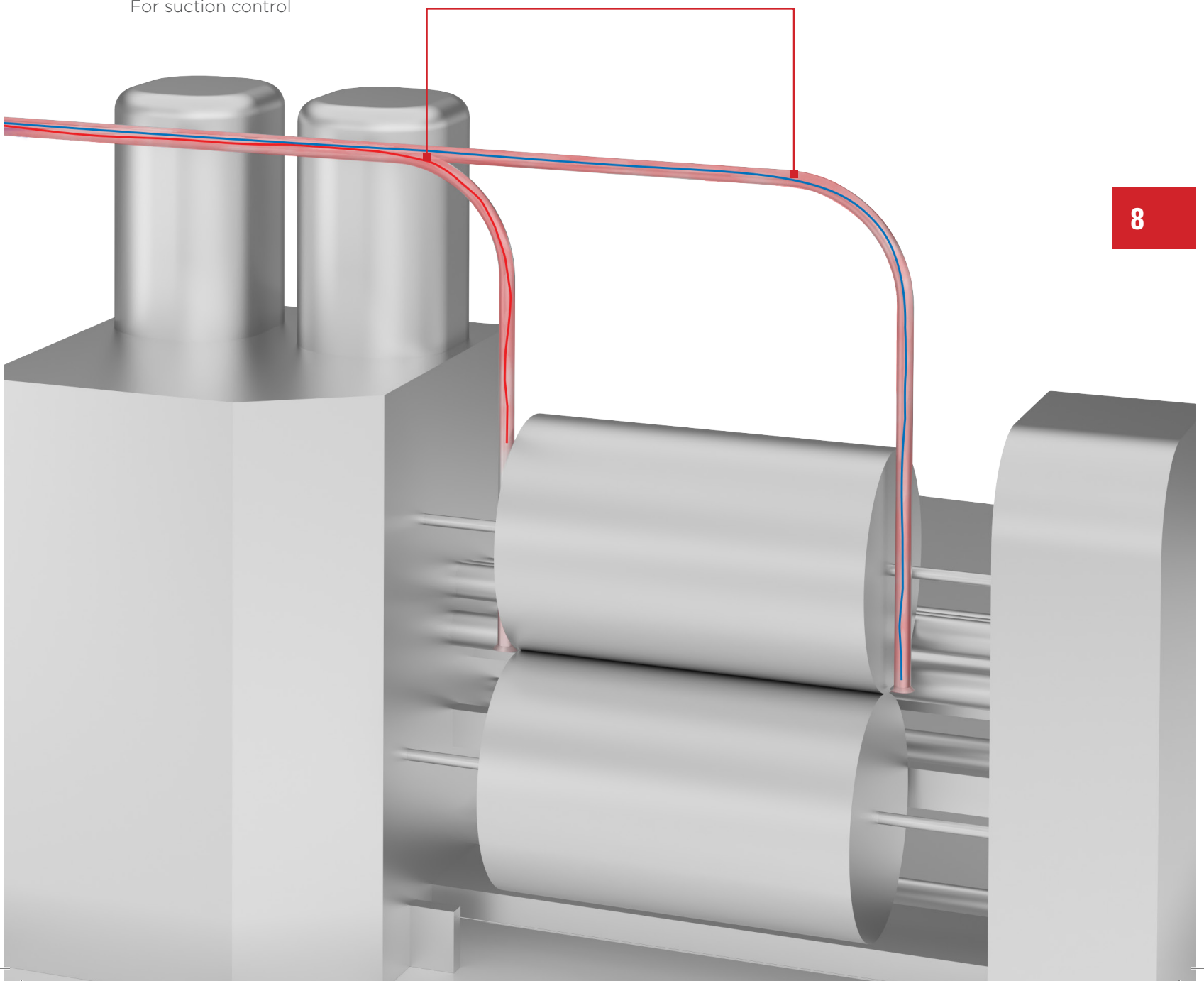
## Features & Benefits

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

### Volume Damper

For suction control

### Flexible Duct

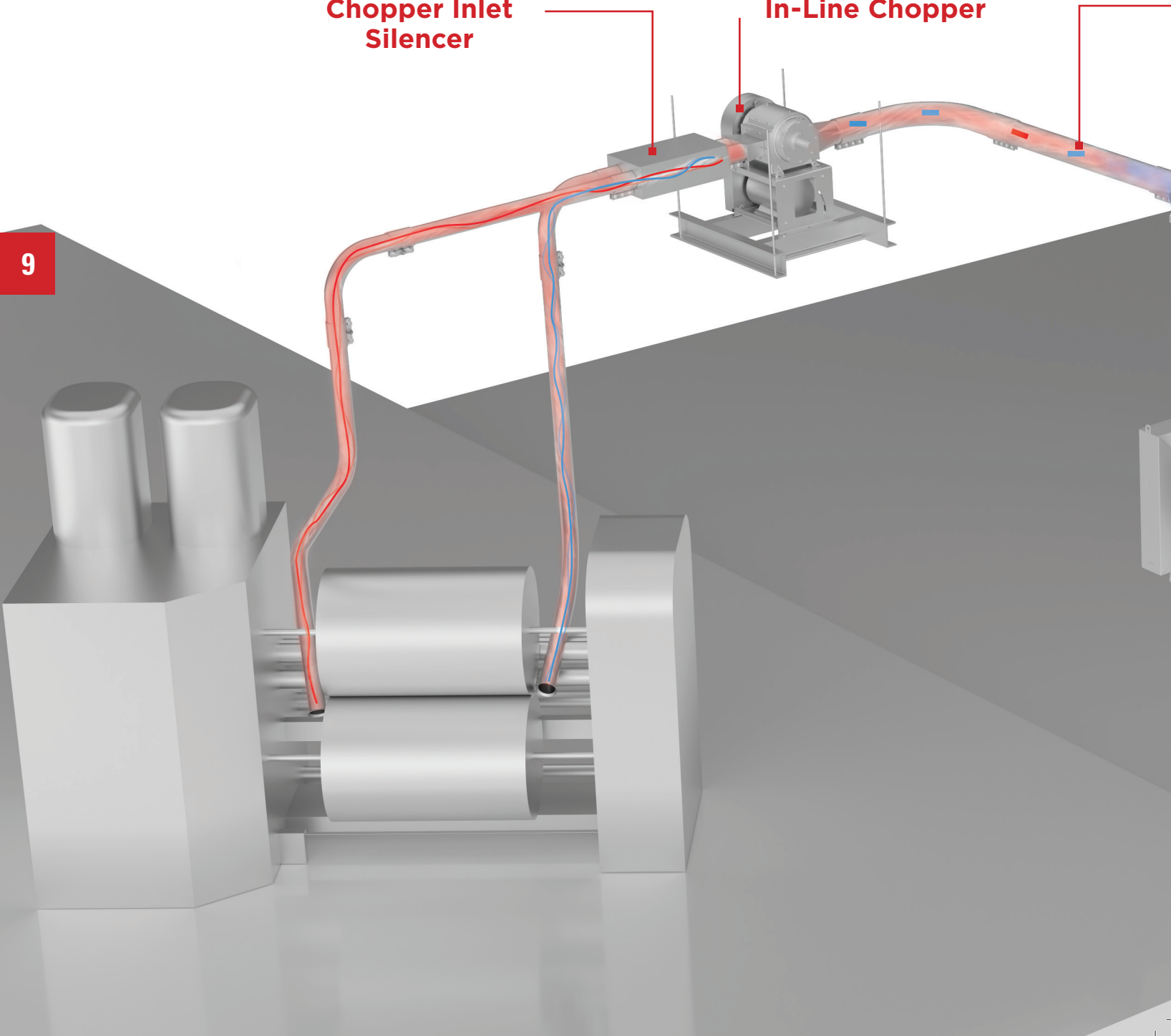


# Chopper/Eductor System

Chopper Inlet Silencer

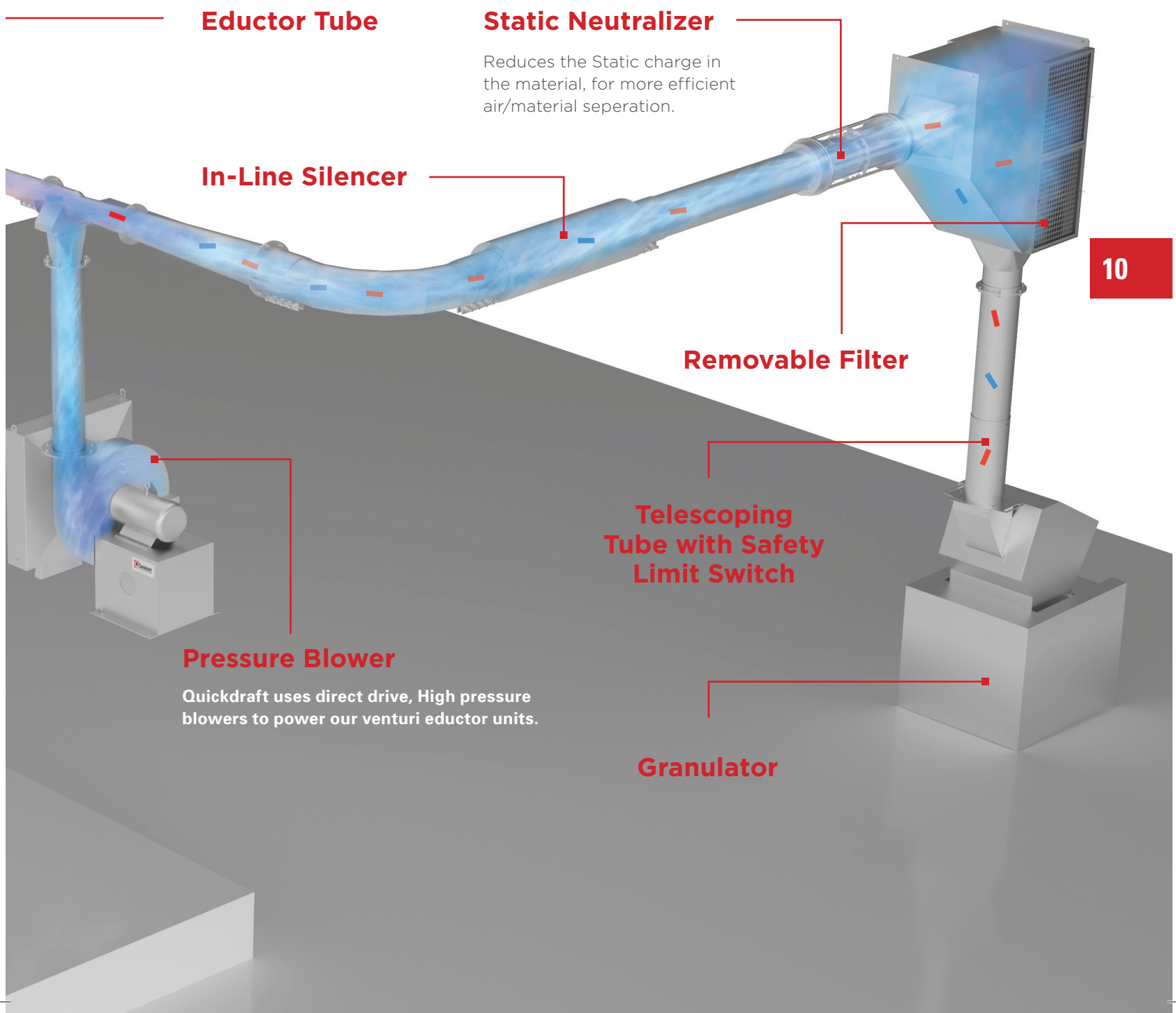
In-Line Chopper

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## 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.

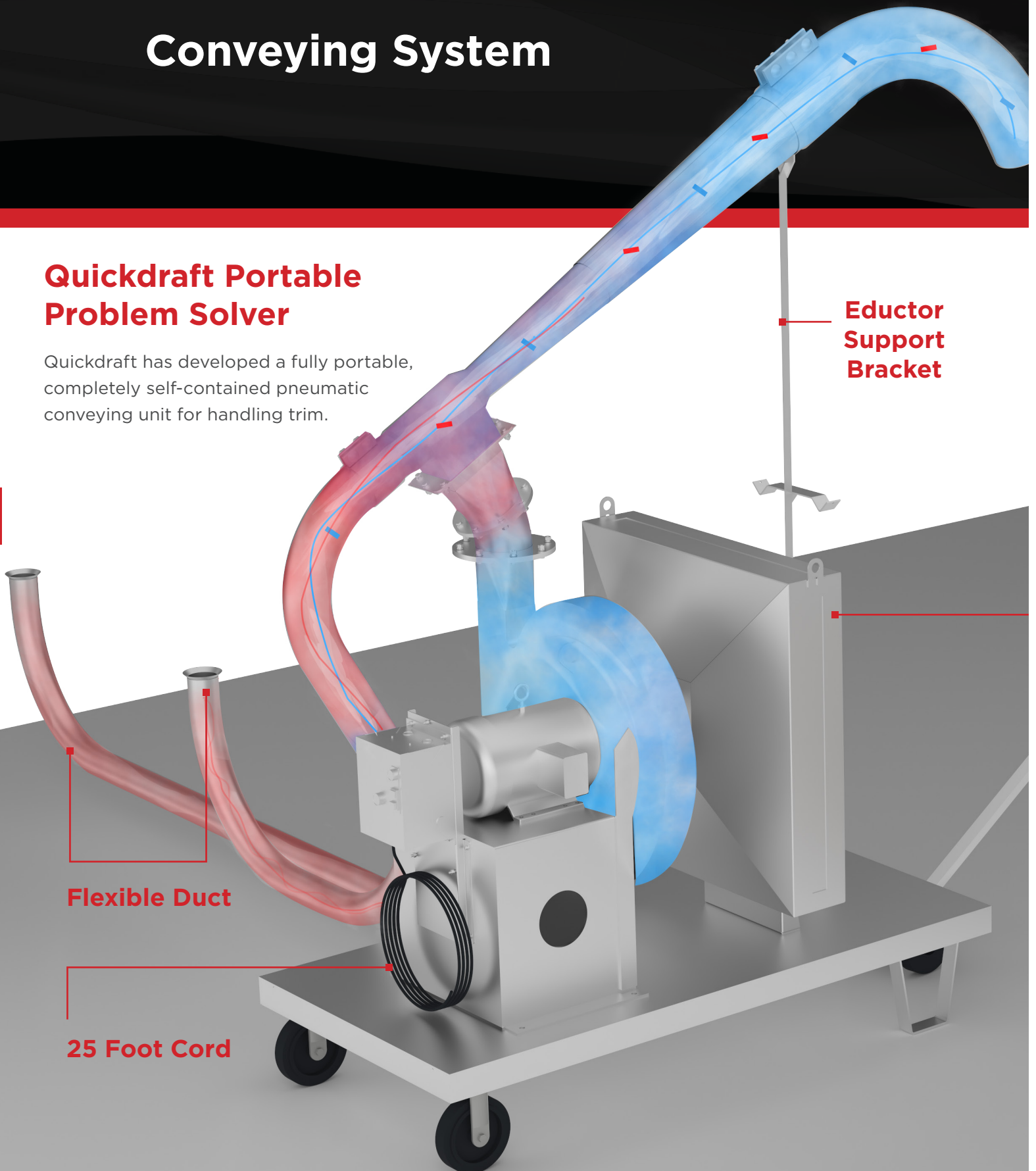


# Portable Trim Conveying System

## Quickdraft Portable Problem Solver

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

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Eductor  
Support  
Bracket

Flexible Duct

25 Foot Cord

## Features & Benefits

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

### Intake Silencer

Reduces sound generated by the blower assembly.

### Eductor

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

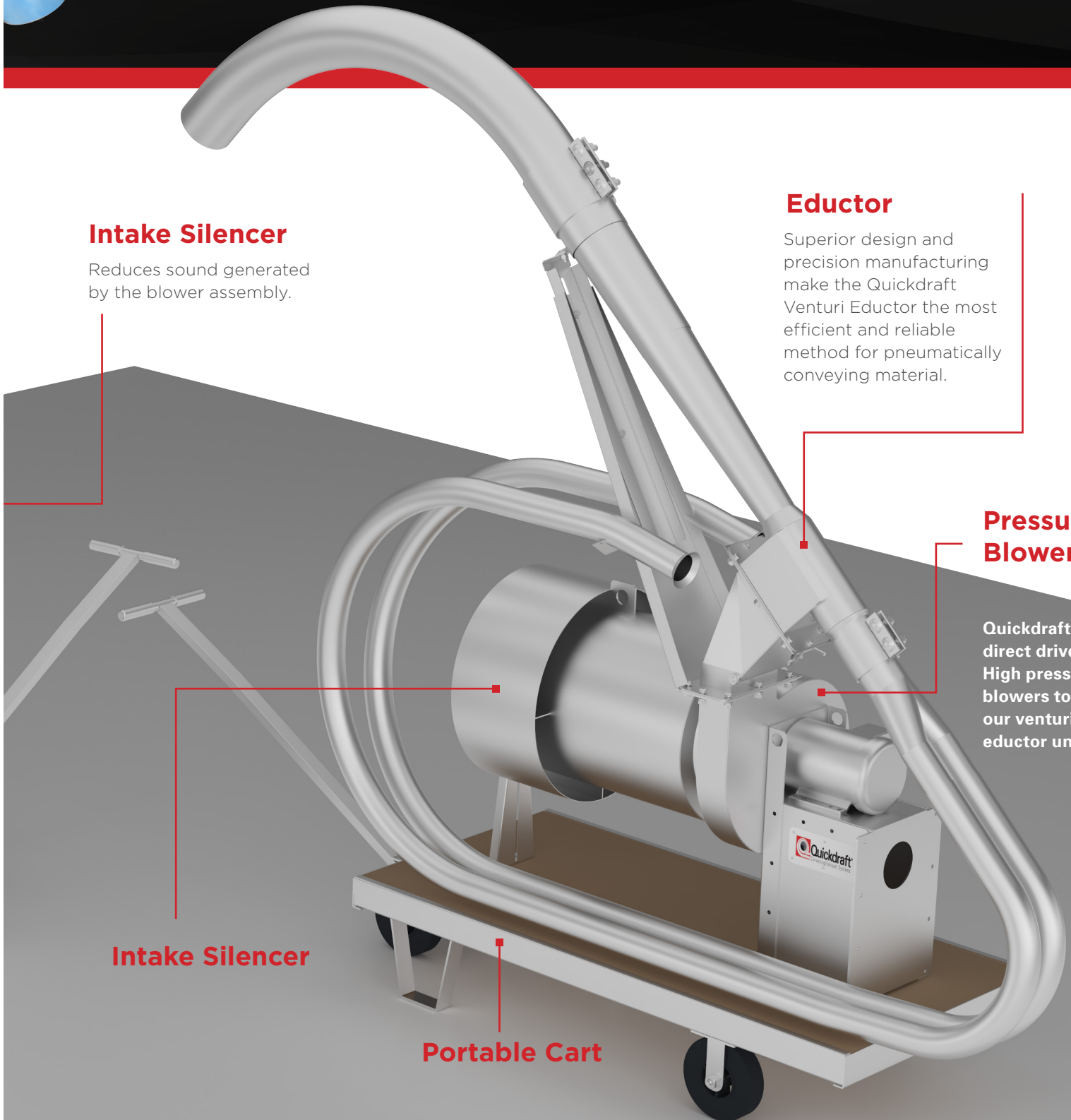
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### Pressure Blower

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

### Intake Silencer

### Portable Cart





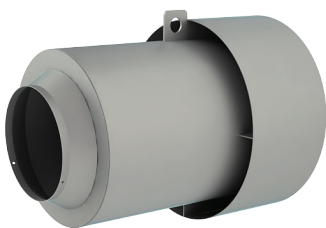
# Standard Silencing Equipment & Accessories



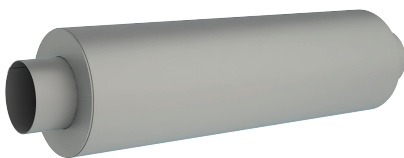
## Blower Intake Silencer

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



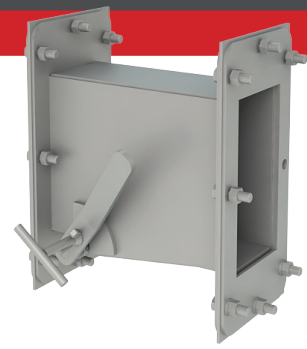
## Collection Receptacle

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.



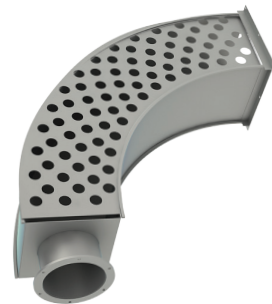
## Motor Starter

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.

**Quickdraft®**  
Conveying/Exhaust Systems

**Quickdraft, Inc.**  
**1525 Perry Drive S.W.,**  
**Canton, Ohio 44710 US**

**[sales@quickdraft.com](mailto:sales@quickdraft.com)**

**TF: 1.855.Venturi**

**P: 330.477.4574**

**F: 330.477.3314**

**[www.quickdraft.com](http://www.quickdraft.com)**