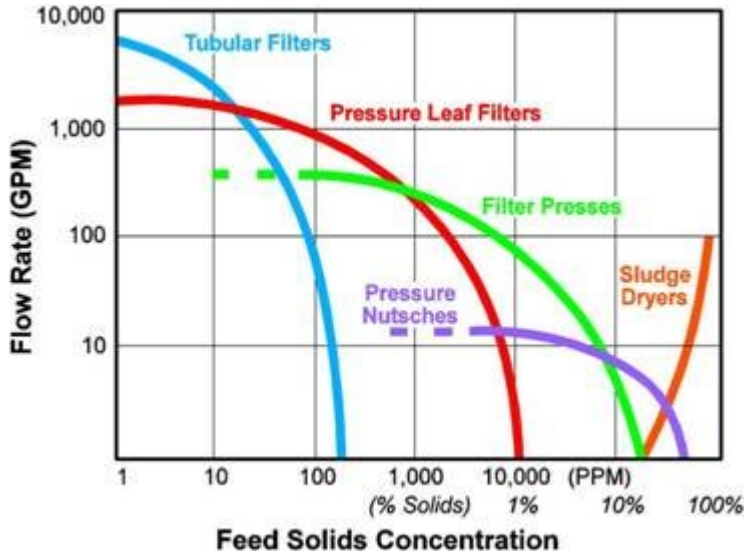


**Durco Biodiesel Dry Washing Pressure Leaf Filters Allow:**



- **Cost-Effective Biodiesel Dry Washing Filtration With Constant High Flow Rate Requirements That Can Easily Exceed 10Mgal/yr**
- **Pneumatic / Hydraulic Operation & Capability For Explosion-Proof Biodiesel Processing**
- **Highly Reliable, Low Maintenance, Fully Automated Operation**
- **Specialized High Temperature Biodiesel Filter Leaf Media For Use Over 170°F**

Durco Biodiesel Equipment Also Supplies A Line Of Cost-Effective [Biodiesel / Dry Washing Filter Press Systems](#) For Lower Volume & Moderate Temperature (<170°F) Processes.



Above - **Durco DHC Horizontal Pressure Leaf Filter With Dry Cake Discharge**

Left - **Durco DV Vertical Pressure Leaf Filter With Dry Cake Discharge**

**Durco Biodiesel Dry Washing Pressure Leaf Filter Guide:**

1. Durco Biodiesel Pressure Leaf Filter Overview
2. DHC Horizontal Biodiesel Pressure Leaf Filters
3. DV Vertical Biodiesel Pressure Leaf Filters
4. Durco OEM Biodiesel Filter Leaves
5. Durco Industrial Filtration Products

**Durco Biodiesel Equipment Offers A Range Of Dry Washing / Filtrations Systems & Technologies Designed For Cost-Effective & Environmentally Responsible Operation In Any Biodiesel Processing Plant:**

[More Information On Durco Biodiesel Dry Washing Systems Online](#)

[More Information On Durco Biodiesel Filter Presses Online](#)

[More Information On Durco Biodiesel Dry Washing Pressure Leaf Filters Online](#)

Ascension Industries has purchased & owns all records, drawings, bills of materials and support data for existing: Duriron (DURCO), Aquacare, FSD Filter Presses, Pressure Leaf Filters & Pressure Nutsches, Tubular Filters & Enviro-Dri Sludge Dryers. Ascension is the only authorized supplier of certified DURCO OEM Filters & Filter Parts.



# 1. Durco Biodiesel Pressure Leaf Filter Overview

Biodiesel Equipment

*Durco Biodiesel Pressure Leaf Filters Are Your Optimum Choice For Medium – Large Volume Biodiesel Dry Wash Filtration At >170°F*

**Durco Pressure Leaf Filter Technology** is particularly recommended for **Biodiesel Dry Washing** applications at temperatures above 170°F, which is beyond the upper temperature limits of standard filter press technology. Pressure Leaf Filter technology is also the optimum choice for medium to large volume biodiesel plant where semi-automatic or fully automated filtration is required.

## Two Durco Biodiesel Pressure Leaf Filter Models:

**Durco Biodiesel Pressure Leaf Filters** are specifically optimized for durability and functional service in high flow rate biodiesel dry washing & filtration operations. There are 2 Model configurations, each available in a range of sizes:

- **Durco DV Vertical Biodiesel Pressure Leaf Filters** – impose the **minimum footprint** for small spaces may be used for medium to large biodiesel plants producing from 5M – 20M gal/yr
- **Durco DHC Horizontal Pressure Leaf Filters** are typically recommended in most large biodiesel plants producing 10M gal/yr or considerably more.

Both Models feature **Dry Cake Discharge for Biodiesel** (alternative wet cake discharge models are available).

## 2. Durco DHC Horizontal Biodiesel Pressure Leaf Filter Units

*Your Optimum Dry Washing Filtration Choice For Large, Fully Automated, Biodiesel Plants Producing 10M gal/yr Or Considerably More*



**Durco DHC Horizontal Biodiesel Pressure Leaf Filters** are custom built & optimized for each application, and are specifically engineered to operate with the minimum amount of maintenance.

The retractable carbon steel shell design eliminates interior wheels and tracks for filters up to 600 or more sq ft in size, which minimizes corrosion problems and easily allows the entire filter leaf bundle to be fully exposed for inspection. The supporting wheel assemblies are mounted on the filter shell exterior. All process piping is connected to the stationary section, so there is no need to disconnect the filter piping system to open the vessel.

**Durco DHC Horizontal Pressure Leaf Filters** allow you to implement an automated closed system turn-key filtering process that drastically reduces operator involvement and improves process containment. Features include:

- Available Up To 72 in Diameter Tank Size (custom vessel sizes available)
- Large filtration area up to 2,000 sq ft, with solids holding capacity typically in the range 0.5 – 2 wt%
- Submicron particle retention with the optimum filter aid
- Control Options – Semi Automatic or Fully Automatic
- Automatic operation with constant flow rate up to 2,000 gpm
- Feed Arrangement Options - Baffled Inlet or Internal Distribution
- Filtrate Arrangement Options - Common Manifold or Sectionalized Manifold
- Front Head & Rear Head - Dished
- Hydraulic Quick Opening Closure (QOC) and shell retraction minimize downtime
- Explosion–Proof options are available
- Steam Jackets available to maintain high biodiesel process temperatures
- Dry solids removal eliminates hazardous waste stream disposal problems
- [ASME Code Vessels](#), [China Code Vessels](#), and [KGS/MOCIE \(Korea\) Approved Vessels](#) are available

**Durco DHC Horizontal Biodiesel Pressure Leaf Filters** utilize highly cost-effective and durable 3-ply stainless steel leaves (See Section 4, below). Pump, pre-coat and silicate dry wash mixing vessels are also available with full instrumentation and integrated controls.

### 3. Durco DV Vertical Biodiesel Pressure Leaf Filter Units

*Small-Footprint Biodiesel Dry Washing Filtration For Medium Volume Automated Biodiesel Plants Producing Up To 20M gal/yr*



Durco Type DV Dry Cake Discharge Vertical Biodiesel Pressure Leaf Filters require minimal floor space to achieve sub-micron filtration in biodiesel operations producing up to 20M gal/yr. These filters are cleaned using a high frequency vibration cake discharge system, that unloads all leaves simultaneously, enabling automated closed system turn-key filtering that drastically reduces operator involvement and improves process containment.

Durco DV Vertical Biodiesel Pressure Leaf Filters features include:

- Custom vessel sizes available
- Large filtration area up to 500 sq ft, with solids holding capacity from 0.5 – 2 wt%
- Submicron particle retention with the optimum filter aid
- Control Options – Semi Automatic or Fully Automatic
- Automatic operation with constant flow rate up to 500 gpm per unit
- Hydraulic Quick Opening Closure (QOC) and shell retraction minimize downtime
- Explosion–Proof options are available
- Steam Jackets available to maintain high biodiesel process temperatures
- Dry solids removal eliminates hazardous waste stream disposal problems
- [ASME Code Vessels](#), [China Code Vessels](#), and [KGS/MOCIE Approved Vessels](#) are available

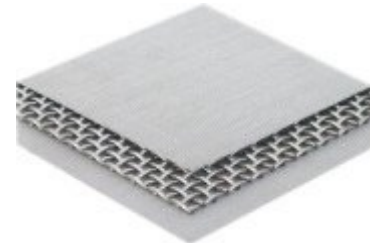
Durco DV Vertical Biodiesel Pressure Leaf Filters utilize highly cost-effective and durable 3-ply stainless steel leaves (See Section 4, below). Pump, pre-coat and silicate dry wash mixing vessels are also available with full instrumentation and integrated controls.

### 4. Durco OEM Metallic Biodiesel Pressure Leaf Filter Media



#### Durco 3-Ply Tubular Slit Metal Screen Leaf Filters

- 304/316 Stainless Steel Construction
- *Drainage Member* - 1 layer of tubular slit mesh
- *Filtration Media* - 2 layers of screen
- 24x110 Plain Dutch Weave surface screen



#### Durco 3-Ply Mesh Metal Screen Leaf Filters

- 304/316 Stainless Steel Construction
- *Drainage Member* - 1 layer of mesh
- *Filtration Media* - 2 layers of screen
- 24x110 Plain Dutch Weave surface screen



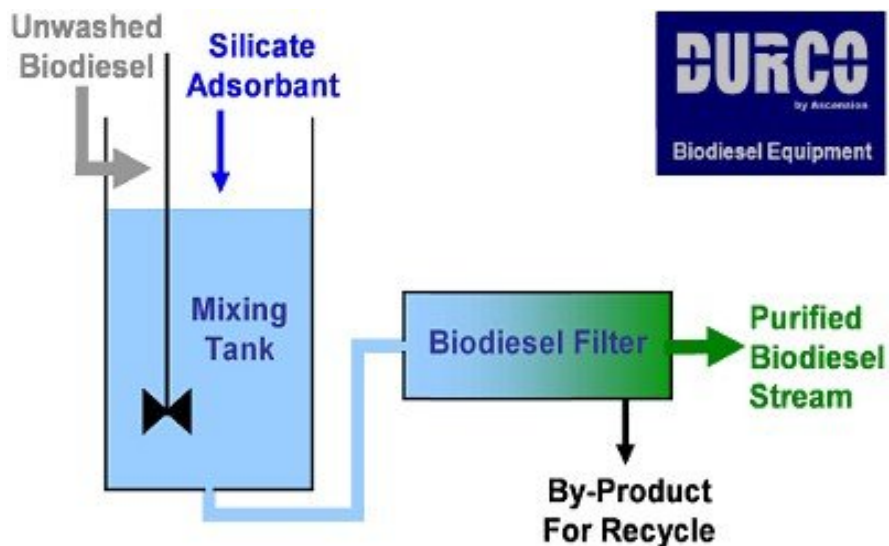
Durco Spot Welded Leaf Filter Attachment



Durco Keyhole Frame

**To Find Out More About Durco Biodiesel Pressure Leaf Filters Or Optimum Media Selection For Biodiesel Dry Washing & Filtering Systems Please Contact Durco Filter Engineering:  
Call 716-693-9381 ext.216 or e-mail [filterengineering@asmfab.com](mailto:filterengineering@asmfab.com)**

Other Downloadable Biodiesel Dry Washing Resources:



[Durco Biodiesel Dry Washing Systems PDF](#)  
[Durco Biodiesel Pressure-Leaf-Filter Systems PDF](#)

To Find Out More About Durco Biodiesel Pressure Leaf Filters And Optimum Selection For Biodiesel Dry Washing & Filtering Systems Please Contact Contact Durco Filter Engineering:  
Call **716-693-9381 ext.216** or e-mail [filterengineering@asmfab.com](mailto:filterengineering@asmfab.com)

## 5. Durco Industrial Filtration Product Lines

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[Pressure Leaf Filters](#)

[Tubular Backwashing Filters](#)

[Pressure Nutsches](#)

[Filter Presses](#)

[Sludge Dryers](#)