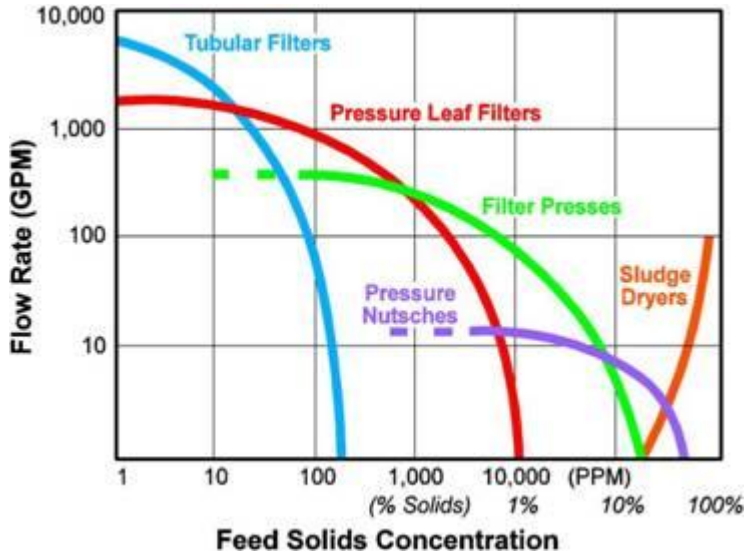


### Durco Filters Biodiesel Dry Wash Pressure Leaf Filter Units Allow:



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

### Durco Filters Biodiesel Dry Washing Pressure Leaf Filter Guide:



Above - **Durco DHC Horizontal Pressure Leaf Filter With Dry Cake Discharge (>10M gal/yr)**

Left - **Durco DV Vertical Pressure Leaf Filter With Dry Cake Discharge (>6M gal/yr)**

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

**Durco Filters Biodiesel Equipment Includes A Range Of Dry Washing / Filtration Systems & Technologies Designed For Cost-Effective & Environmentally Responsible Operation In Any Large-Scale Biodiesel / Biofuel / WVO Process**

**More Biodiesel Equipment Information Online:**

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

**Ascension Industries** has purchased & owns all records, drawings, bills of materials and support data for existing: **Durcon (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. Biodiesel Pressure Leaf Filter Overview

### *Durco Filters Biodiesel Pressure Leaf Filters Are Your Optimum Choice For Medium - High Volume Fully Automated Biodiesel Enhanced Dry Washing Filtration (>170°F)*

**Durco Filters Pressure Leaf Filter Technology** is particularly recommended for **Enhanced Biodiesel Dry Washing** applications, >170°F, which is beyond the upper temperature limits of 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.

### 2 Biodiesel Pressure Leaf Filter Unit Configurations:

**Durco Filters Biodiesel Pressure Leaf Filters** are specifically optimized for service in high flow rate biodiesel dry washing & filtration operations. **There Are 2 Configurations**, each with models available in a range of sizes:

- **Durco DV Vertical Biodiesel Pressure Leaf Filters** – impose the **minimum footprint** for small spaces are typically the optimum choice for medium to large biodiesel plants producing from 6M – 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. 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 & specifically optimized for each particular application. These units are engineered for maximum durability and operation 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

**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

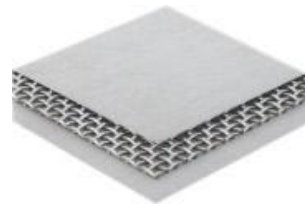
**Durco DV Vertical Biodiesel Pressure Leaf Filters** utilize highly cost-effective and durable 3-ply stainless steel leaves (See Section 4, below). Pump, pre-coat and silicate dry wash mixing vessels are also available with full instrumentation and integrated controls.

## 4. Durco Filters OEM 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

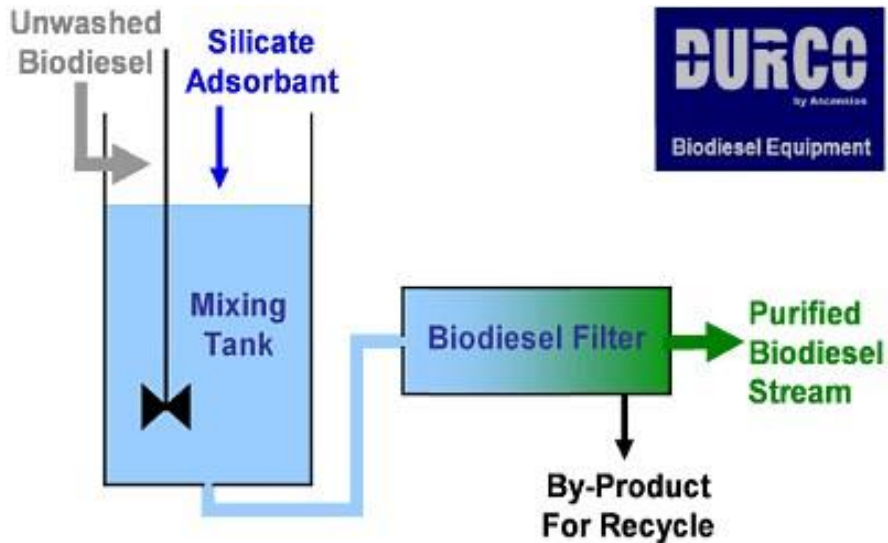


**Durco Filters Spot Welded Leaf Filter Attachment**



**Durco Filters Keyhole Frame**

**To Find Out More About Durco Filters Biodiesel Pressure Leaf Filters Or Optimum Media Selection For Your Biodiesel Dry Washing & Filtering Systems Please Contact Durco Filters Engineering:**  
**Call 716-693-9381 ext.217 or e-mail [filterengineering@asmfab.com](mailto:filterengineering@asmfab.com)**



[Durco Filters Biodiesel Dry Washing Systems PDF](#)

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

*To Find Out More About Durco Filters Biodiesel Pressure Leaf Filters  
Or The Optimum Selection For Your Biodiesel / Biofuel / WVO Dry Washing & Filtering Process  
Please Contact Contact Durco Filters Engineering:  
Call **716-693-9381 ext.217** or e-mail [filterengineering@asmfab.com](mailto:filterengineering@asmfab.com)*

## 5. Durco Filters Industrial Filtration Product Lines

[Pressure Leaf Filters](#)

[Tubular Backwashing Filters](#)

[Pressure Nutsches](#)

[Filter Presses](#)

[Sludge Dryers](#)