

## BIODIESEL DRUM HEATING

*Lower the production cost of biodiesel with BriskHeat*

### Application

Biodiesel is a renewable fuel for use in diesel vehicles, generators, and homes. Biodiesel is typically made from a chemical reaction when vegetable oil, soybean oil, or animal fat is combined with an alcohol, producing fatty acid esters. The result is a less expensive and cleaner burning alternative fuel than petroleum diesel.

The oil should be kept at an optimum temperature for the most efficient filtering during production. Waste Vegetable Oil (WVO) and Straight Vegetable Oil (SVO) tend to thicken-up at room temperature, so refineries and home brewers must reduce the viscosity to flow better during filtration.

### Solution

BriskHeat drum heaters provide a safe and efficient heating source to increase biodiesel production efficiency. BriskHeat drum heaters are designed to provide a practical and efficient means for viscosity control. Applying heat to the WVO and SVO reduces viscosity of the oil and makes the production process faster, smoother, controllable, and more efficient. BriskHeat drum heaters are a silicone band-style heater that wraps around the circumference of a drum or pail creating a uniform heat source. Choose from Heavy Duty, Extra-Heavy Duty and Economy models. They are available in a variety of sizes from 5-gallon (19-liter) pail to 55-gallon (208-liter) drum, and even custom sizes. FGDH full coverage drum heaters combine insulation and heat in one easy to install jacket. There are available for wet-area applications too.

For hazardous-area locations, BriskHeat offers two types of models. DHCX series silicone drum heaters are rated for Class I, Division 2 locations. ATEX full coverage drum heaters are approved for ATEX Zones II 2G/2D use. They are fully insulated and water resistant.

Configure-to-order tank heaters along with a full line of temperature controllers, heating cable, heating tape, and insulators are also available to meet the needs of many unique applications.

### Standard Sizes and Models

|                             | 5 Gallon<br>(19 liter) | 15/16 Gallon<br>(57/61 liter) | 30 Gallon<br>(114 liter) | 55 Gallon<br>(208 liter) |
|-----------------------------|------------------------|-------------------------------|--------------------------|--------------------------|
| Economy<br>ECONO            | ✓                      | ✓                             | ✓                        | ✓                        |
| Heavy Duty<br>DHCS/DPCS     | ✓                      | ✓                             | ✓                        | ✓                        |
| Hazardous Area<br>DHCX      | N/A                    | N/A                           | ✓                        | ✓                        |
| Full Coverage<br>FGDH/FGDHW | ✓                      | ✓                             | ✓                        | ✓                        |
| ATEX<br>Wex                 | N/A                    | N/A                           | N/A                      | ✓                        |



**Ordinary-Location  
Model**



**Hazardous-  
Area Model**



**FGDHW**

### Industries

Chemical Processing/  
Extractions

Energy/Power Generation  
Gas & Oil