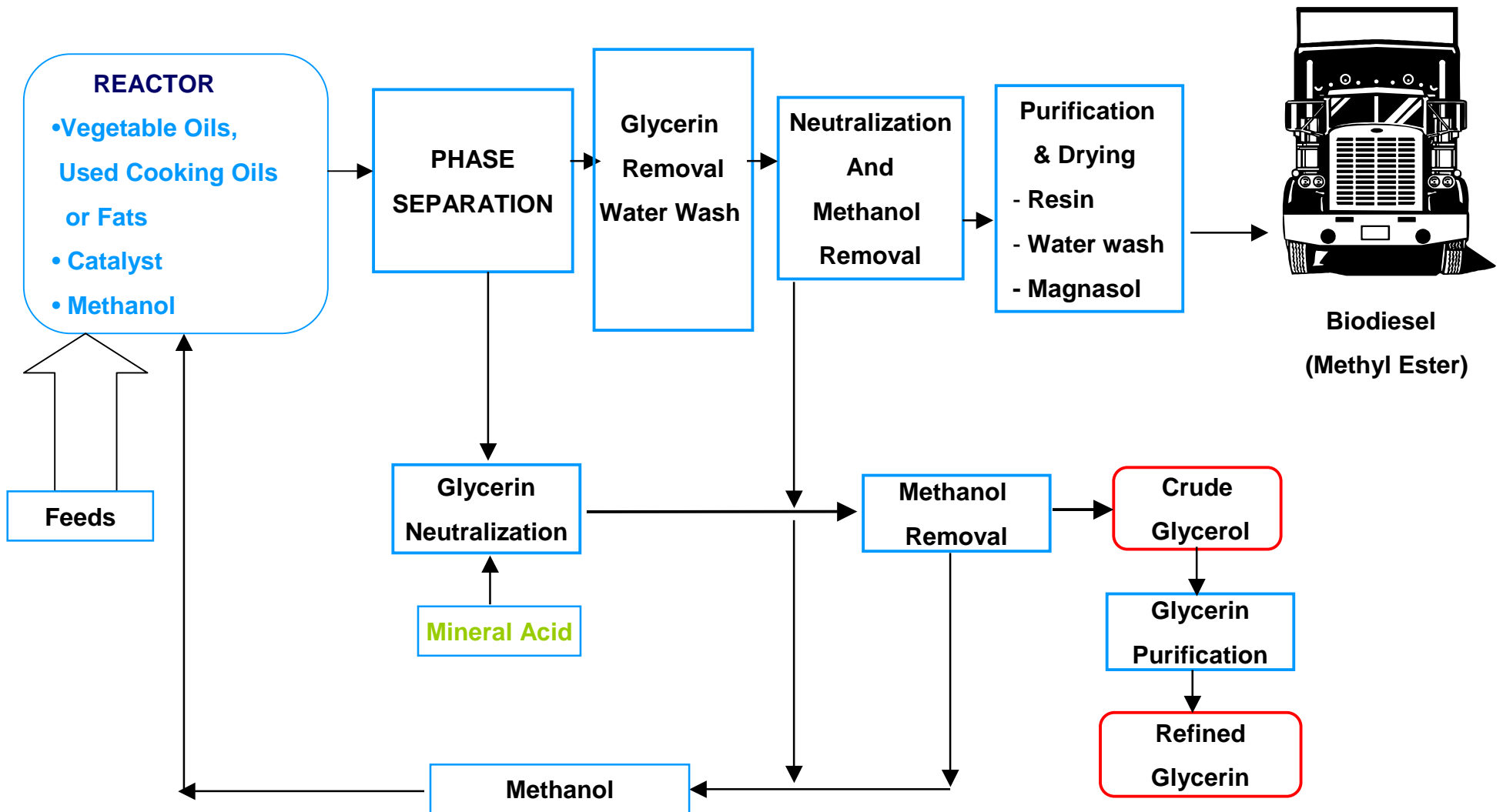


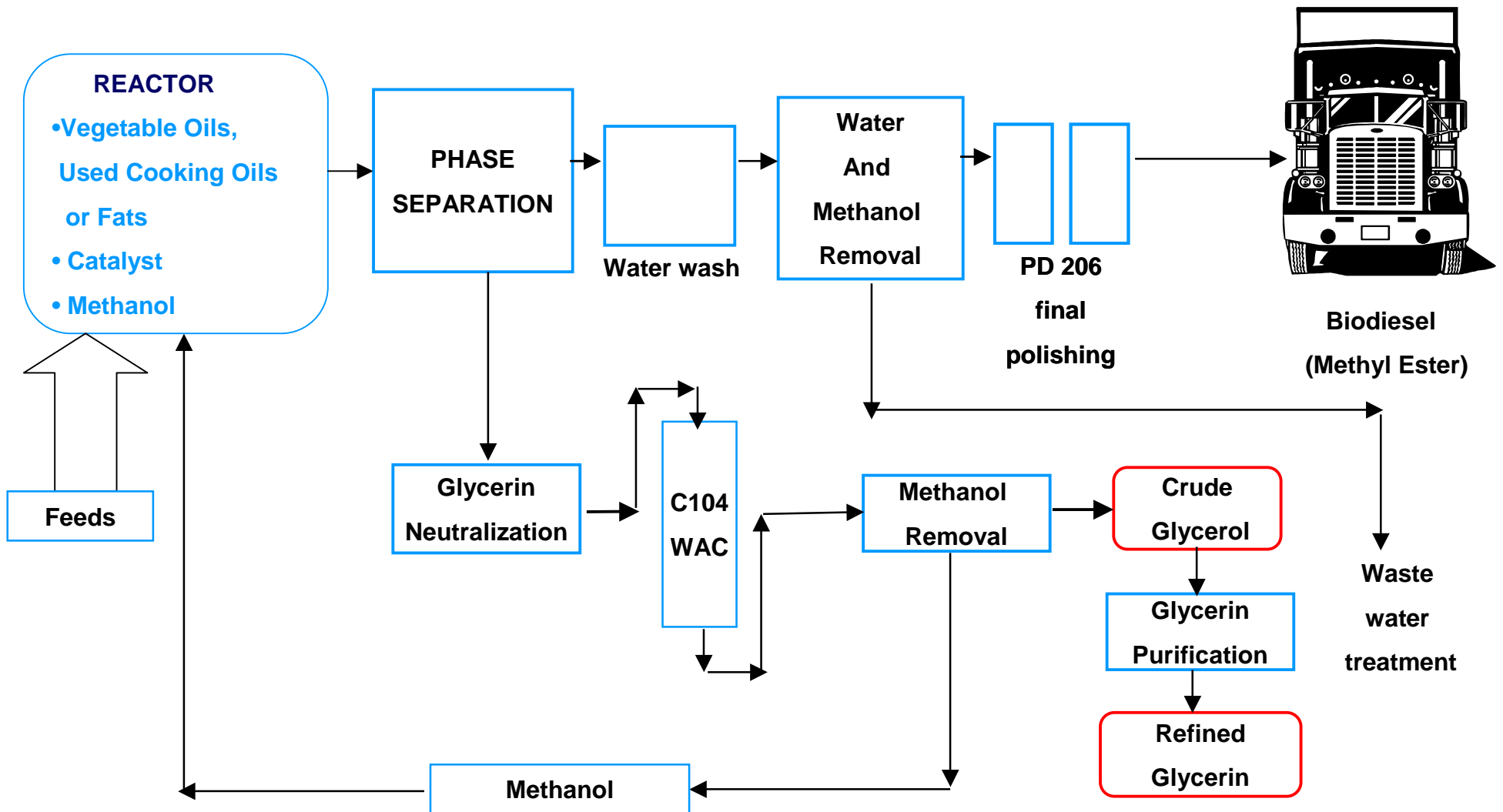


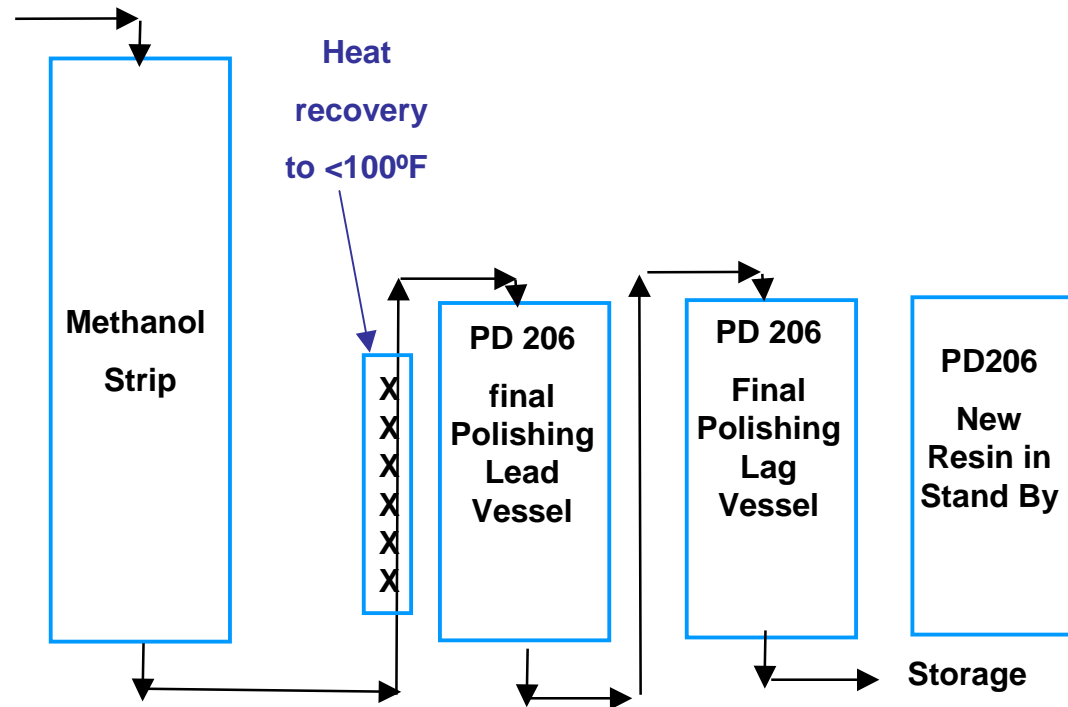
# **PUROLITE<sup>®</sup> PD 206**

**For Biodiesel  
Purification**

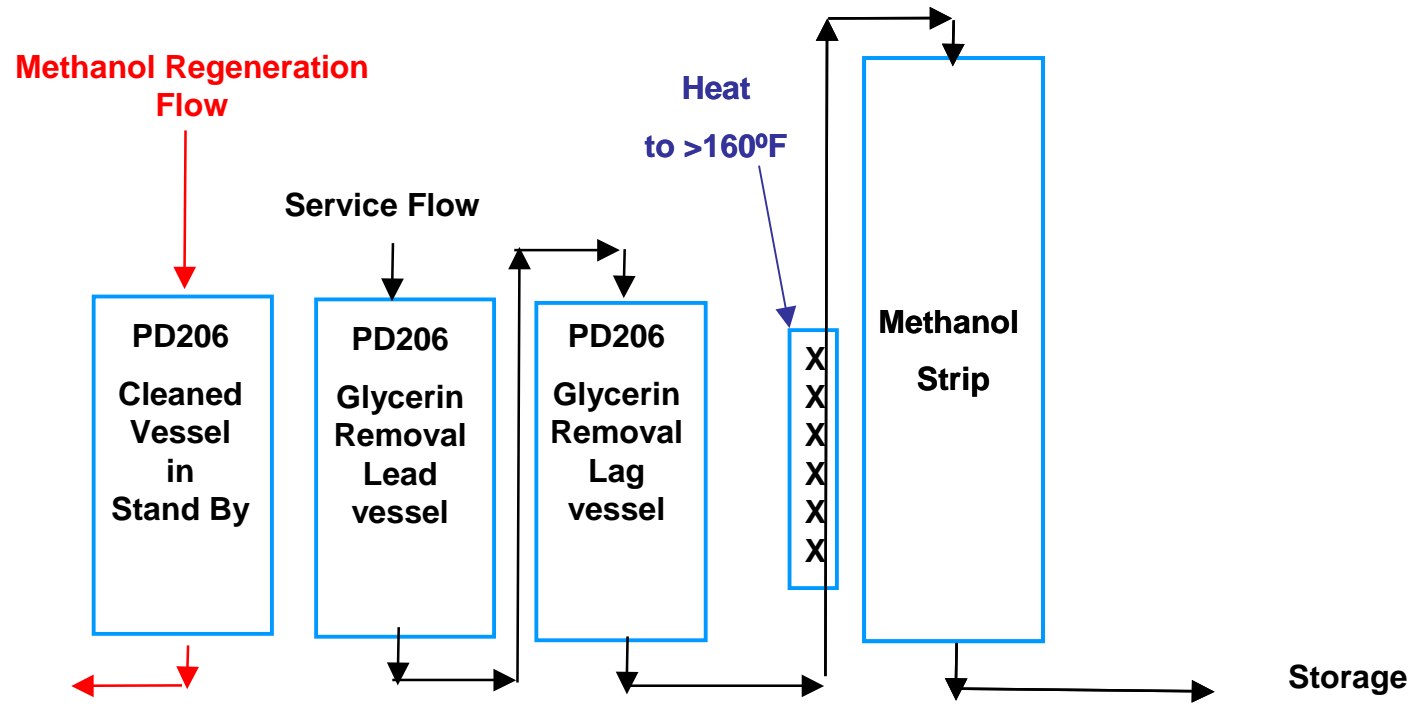
[http:// www.purolite.com](http://www.purolite.com)







Lead polishing vessel is moved to the gross polishing position and the oldest resin is disposed or sent for reconditioning. Lag moves to lead position and new resin is installed in lag position



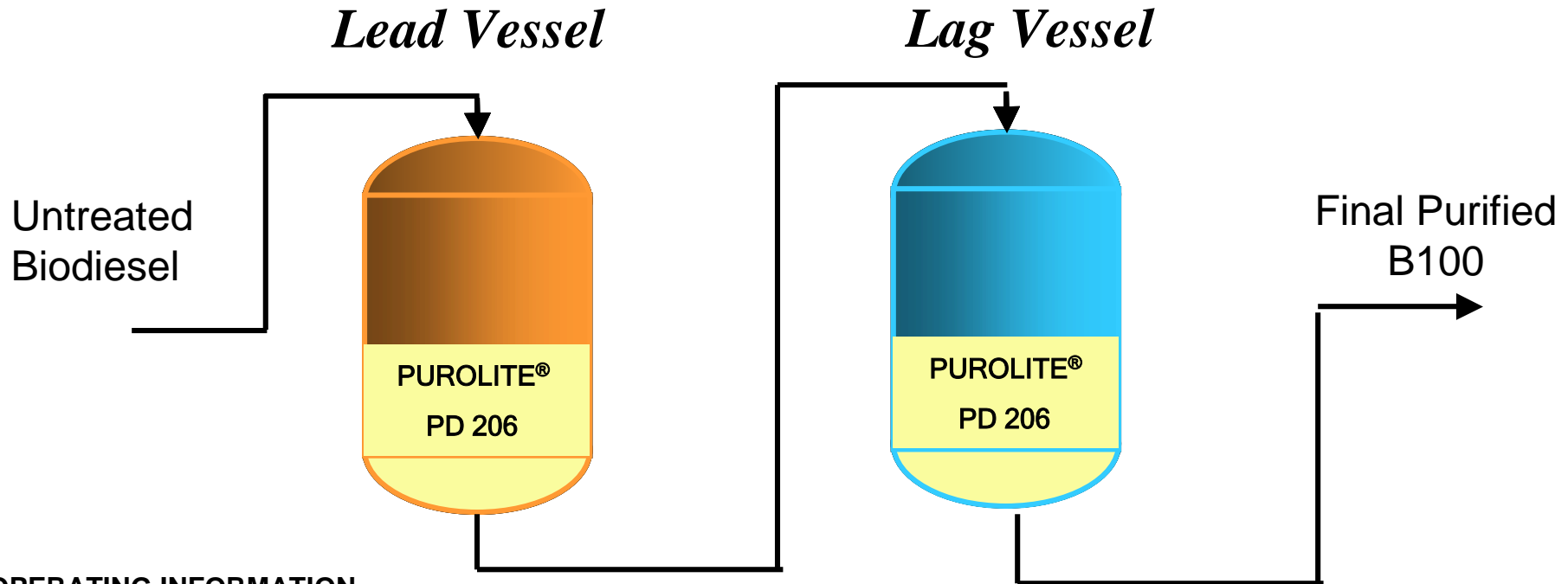
**To Reactor**

**Lead Vessel regenerated with methanol to remove glycerin. After regeneration lag vessel moves to lead position Methanol and glycerin are returned and used in the Transesterification process**

**PUROLITE<sup>®</sup> PD 206**  
**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Hard spherical beads
<b>Functional Group</b>	R-SO <sub>3</sub> <sup>-</sup>
<b>Ionic form (as shipped)</b>	H <sup>+</sup>
<b>Moisture Holding Capacity</b>	<3 %
<b>Bulk Density</b>	800-830 g/dm <sup>3</sup> (litre) (50-52 lbs/ft <sup>3</sup> )
<b>Specific Gravity</b>	1.20
<b>Chemical Resistance</b>	Insoluble in all common solvents
<b>Operating Temperature</b>	<300 °F (150 °C)





## OPERATING INFORMATION

Freeboard	>100%
Flow rates	2.5 BV/hr
Temperature	Ambient to 300 °F
Capacity	1lb PD 206 treat 1500-2000 lbs of B-100
Minimum bed depth	24 inches
Bottom screen size	<200 microns

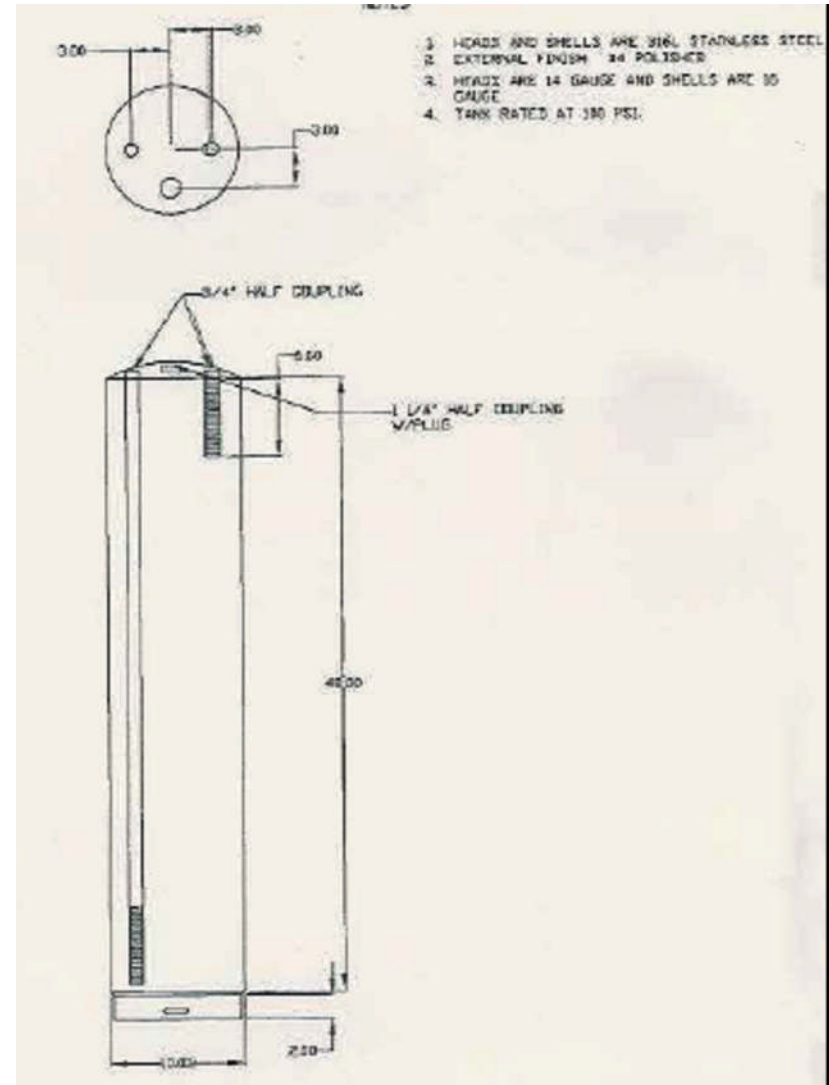
## *Vessel Dimension for PD206 Operated in Lead Lag design*

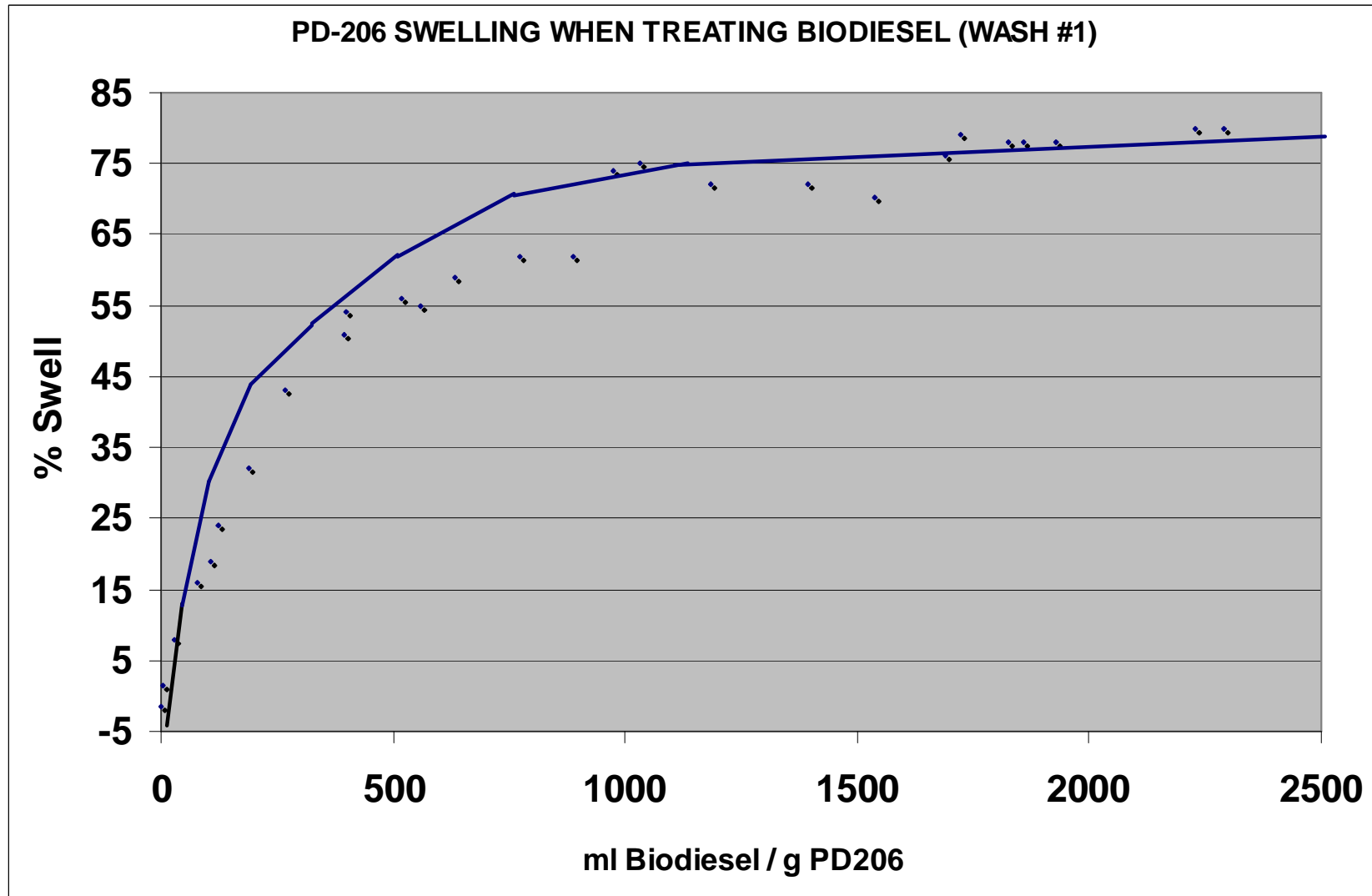
### *Tank dimensions base on annual production*

<i>Annual Gal</i>	<i>1,000,000</i>	<i>2,000,000</i>	<i>5,000,000</i>	<i>10,000,000</i>	<i>13,500,000</i>
<i>Flow gpm</i>	<i>2.7</i>	<i>5.3</i>	<i>13</i>	<i>26</i>	<i>35</i>
<i>PD206 lb's</i>	<i>440</i>	<i>880</i>	<i>2200</i>	<i>4400</i>	<i>5940</i>
<i>Resin Height</i>	<i>2' 10"</i>	<i>3'6"</i>	<i>6'</i>	<i>7'</i>	<i>7' 6"</i>
<i>Tank Height</i>	<i>7'</i>	<i>8.5</i>	<i>14'</i>	<i>16'</i>	<i>16' 6"</i>
<i>Tank Diameter</i>	<i>2'</i>	<i>2'6"</i>	<i>3'</i>	<i>4'</i>	<i>4' 6"</i>

Dimensions are approximate size







## Benefits of Purolite PD206

- **Reasonable use cost - \$0.035 per gallon of B100**  
*(Actual cost is dependent on contaminant levels in the crude bio-diesel)*
- **High capacity - 1lb PUROLITE<sup>®</sup> PD 206 treats 200-250 gal of bio-diesel**
- **Improves B100 quality to meet ASTM D6751 and EN 14212 specifications**
- **Allows for increased production**
- **Easy to implement at design stage or retrofit existing plants**
- **Reduced waste water and solids generation**
- **Low energy operation**
- **Effective at ambient**
- **Applicable to either continuous or batch operations**
- **No additional filtration steps**

