

**Product Name :**  
Biodiesel Plant

**Product Code :**  
DM109



**Description :**

Biodiesel Plant

**Technical Specification :**

Biodiesel Plant  
Chemical transesterification of vegetable oils  
Two-stage, continuous process  
Two heated stirred tank reactors for chemical transesterification  
Two phase separators for separating products and by-products  
Methanol recovery (distillation) to reduce the amount of methanol required  
Biodiesel washing (absorption) to extract impurities from the biodiesel  
Variation of process parameters to investigate the dependencies of biodiesel production  
PLC for controlling the plant  
Touch panel for operating the PLC  
Software for data acquisition via USB under Windows 10

Technical data:

Tanks

Stirred tank reactors: 2x 5L

Storage tank (vegetable oil): 110L

Storage tank (chemicals): 45L

Product tank: 110L

By-product tank: 45L

Methanol tank: 6L

Phase separator/biodiesel washer: 3x 15L  
Peristaltic pumps: 25L/h  
Measuring ranges  
Temperature: 6x 0...100°C  
Pressure: 1x 0...6bar (abs.)  
Flow rate: 11x 0...30L/h  
Level:  
3x 1...22cm  
2x 1...29cm  
230V, 50Hz, 1 phase

## Naugralabequipments

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