

**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 0â€¦100Â°C  
Pressure: 1x 0â€¦6bar (abs.)  
Flow rate: 11x 0â€¦30L/h  
Level:  
3x 1â€¦22cm  
2x 1â€¦29cm  
230V, 50Hz, 1 phase

## Naugralabequipments

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