

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

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