

Product Name :
Biogas Plant

Product Code :
DM952



Description :

Biogas Plant

Technical Specification :

Biogas Plant

Two-stage biogas plant (continuous or discontinuous operation possible)

2 stirred tank reactors made of stainless steel with capacitive level sensors

Separate supply unit with substrate tank and feed pump

Control of temperature and ph value in the reactors

2 metering pumps for acid and caustic

Heating water circuit with tank, heater, temperature controller and pump

Biogas is dried with silica gel

Biogas analysis: flow rate, methane content, carbon dioxide content, humidity and temperature

Control of the plant using a PLC, operated by touch screen

Software for data acquisition via USB under Windows 10

Technical data:

Tanks made of stainless steel

Reactor (stage 1): 26,3L

Reactor (stage 2): 73,5L

Substrate tank: 30L

Digestate tank: 26,3L

Pumps

3 peristaltic pumps: each 25L/h

2 metering pumps: each 2,1L/h
Heating water pump: 480l/h
Stirring machines
Substrate tank: 200min-1
Reactors: each 120min-1
Measuring ranges
Methane content: 0â€¹100%,
Carbon dioxide content: 0â€¹100%
Flow rate: 0â€¹30nl/h (biogas)
Ph value: 2x 1â€¹14
Humidity: 0â€¹100%
Temperature: 3x 0â€¹100Â°c (reactors and biogas)
400V, 50Hz, 3 phases.

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