Product name:	Product code:
Biotechnical Production Of Ethanol	NEECHL0255



Description

Biotechnical Production Of Ethanol

Technical specification

- max. flow rate: each 2,1L/h Measuring ranges
- temperature: 10x 0…150°C
- water quantity mash tank: 0…20L
- pH value: 2…10
- pressure heating steam: 0…10bar 400V, 50Hz, 3 phases

230V, 60Hz, 3 phases
Dimensions and weight: LxWxH: 3500x1200x2000mm Weight: approx. 500kg
Installation & Basic operational training included

- batch conversion of starch-based raw materials into ethanol
- open mash tank with water-jacket cooling, steam injection and stirrer
- closed fermentation tank with stirrer and water-jacket cooling/heating
- distillation unit with 3 bubble cap trays, dephlegmator, condenser and stirrer
- 2 pumps for delivering the mash
- pH value control in the mash tank with acid and caustic delivered by metering pumps
- adjustment of the amount of injected heating steam, the cooling water flow rates and the head temperature by means of PID controllers
- system control using a PLC; operated by touch screen
- Software for data acquisition via USB under Windows 7, 8.1, 10

Technical data Mash tank: 40L
Fermentation tank: 50L Product tank: 10L Spent mash: 30L Distillation unit

- column: DxH: 220x1200mm
- sump capacity: 45L
- sump heater: 0…7500W 2 air-operated diaphragm pumps
- drive pressure: 2bar
- max. flow rate: 15L/min
- max. head: 20m
- max. solid lump size: 4mm 2 metering pumps (acid and caustic)

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