

Product Name :
Plant For The Production Of Biodiesel

Product Code :
TK422



Description :

Plant For The Production Of Biodiesel

Technical Specification :

Plant For The Production Of Biodiesel

Structure

The plant is mounted on a structure made of 40x40x2 square tubes of stainless steel AISI 304. The total dimensions of the plant are 1100 mm. long and 650 mm. deep.

Methoxide tank

A 5-liter capacity tank made of plastic material in which the methoxide is stored.

Pre-treatment tank

The oil to be treated is stored in a stainless steel tank of 200 mm. diameter and 350 mm. height for a volume of about 10 liters. The tank is provided with flanged caps for easy dismantling and cleaning. It is used to perform the pretreatment of the oil, by means of a stirrer, a heating resistor and a temperature sensor with digital controller to maintain the desired value.

Reactor

The oil is transferred to the reactor by a metering pump with regulation of the flow, which is subsequently used to perform the recirculation in the reactor while the reaction takes place. This reactor is a stainless steel tank of 200 mm. diameter and 350 mm. height for a volume of about 10 liters. This tank is also provided with flanged caps for easy dismantling and cleaning

Pump

A peristaltic pump with adjustable flow rate that, by means of a valve system, is responsible for: the transfer of the oil from the tank to the reactor, the metering of the methoxide and the recirculation. By means of the same metering pump the methoxide, coming from a tank of 5 liters. made of plastic material, is added to the reactor.

Electric Box

The inside of the box has all the necessary elements for the activation of the electrical components, as well as the necessary protections against electrical failures, like overloads, short circuits or currents that derive to earth, according to the electro-technical standard in force for the protection of people and equipment. The activation switches of the various elements (Resistances, Stirrer, Pump) are located on the front. There is also a general on/off switch and an emergency stop button. The power supply is single-phase with neutral and earthing.

Complete with:

User manual

Experiment manual

Documentation on stirrer, pump and temperature sensor.

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