LED Stirred Tank Option

The traditional Labfors 5 Lux stirred tank for photosynthesis applications

Web Version
low resolution

QUALITY
MADE IN SWITZERLAND

www.infors-ht.com
May be subject to technical amendments

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Now high tech with LED!

New: LED lighting

A total of 16 LED strips with air cooling offer a reproducible light source with a long service life. The maximum light intensity of approx. 700 µmol/m²s is entirely sufficient for the majority of applications. The energy efficiency is approx. five times greater than for fluorescent tubes.

Extremely adaptable

The LED strips are replaceable individually, which in turn also allows the light spectrum to be matched to the application at a later point.

Traditional stirred tank vessel

The standard cultivation technique on a laboratory scale.

Controllable light intensity

Continuously variable electronic dimming from 0–100 % facilitates the precise adjustment of light intensity. When used in conjunction with Iris 6 parallel bioprocess control software, not only are on/off cycles possible, but even the simulation of a daylight curve.

Choice of light spectra

Warm white light in the standard design offers an ideal spectrum in the visible range that is similar to sunlight and contains a high proportion of photosynthetically-active light. Alternatively, other light colours such as red, blue, UV-A or infrared can be selected. The dimming of two colours independently of one another, allowing a dynamic change to the spectrum to be achieved, is optional.

Multiple applications

Designed for the cultivation of algae, plant cells and cyanobacteria, the Labfors 5 Lux is ideal for every photosynthetic process, e.g. investigations into the feasibility of biofuel production using algae. The Labfors 5 Lux control unit is also perfectly suited for other applications, e.g. for bacteria or mammalian cell cultures – depending on the specification.

Key technical data

Total volume: 3.6 L
Working volume: 0.5–2.3 L
Light: approx. 600–700 µmol/m²s (approx. 50 000 lux)

Standard parameters:
- Stirrer speed
- temperature
- light
- pH
- pO_2
- antifoam
- feed

Additional parameters:
Easy integration of many online systems, e.g. extra sensors, balances, external pumps
- 4 Analogue In
- 6 Analogue Out
- 2 Digital Out

Advanced process control features via Iris 6 software, e.g. regulated control of medium feed

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