Labfors 5 Lux | Option

LED Flat Panel Option









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



High standard – high productivity

High-power LED lighting

A total of 260 water-cooled high-power LEDs, focused with reflectors, offer a reproducible light source with a long service life. The maximal irradiation intensity of approx. 3000 µmol/m²s is comparable to Caribbean sunlight. The energy efficiency is approx. five times greater than for fluorescent tubes.

Ideal light distribution

With a layer thickness of only 2 cm, the flat panel culture vessel offers a uniform irradiation strength for the entire culture without shadowing effects.

Airlift

The mixing of the culture is achieved gently yet effectively using the Airlift process. Foam formation and biofouling are both reduced thanks to the asymmetrical shape of the head space.

Scale-up

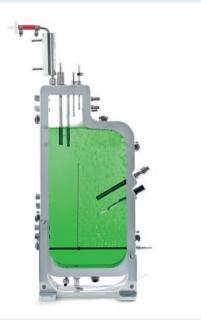
A scaling up of the flat panel culture vessel to a pilot or production scale is possible.

Controllable light intensity

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

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: 1.9 L Additional parameters: Working volume: Easy integration of many 1.6-1.8 L online systems, e.g. extra Light: sensors, balances, approx. 3000 µmol/m²s external pumps (approx. 180,000 lux) • 4 Analogue In • 6 Analogue Out • 2 Digital Out Standard parameters: • Temperature Advanced process • light control features via eve® • pH software, e.g. regulated • pO control of medium feed • antifoam feed

For more information and your local sales office please visit: **www.infors-ht.com**



Infors AG Headoffice, Switzerland

Rittergasse 27 CH-4103 Bottmingen T +41 (0)61 425 77 00 F +41 (0)61 425 77 01 info@infors-ht.com