



You asked us for higher throughput

You asked us for faster optimization

You asked us to help you reach your goals even faster

...We listened



Introducing the all-new Algem[®] HT24 from Algenuity

It will change the way you think about growing algae

We promise



Why the HT24?

The Algem HT24 is a compact, high throughput, computer-controlled photobioreactor for microalgae research.

- ✓ **24 separate reactors**, each independently controlled and monitored
- ✓ **Every reactor vessel is under independent LED lighting control** and data is stored separately for each one
- ✓ **Enables the highest throughput** of strain, culture media, and growth condition variance commercially available

Raise the standards of your algae cultivation and improve your data accuracy and reproducibility with the Algem HT24

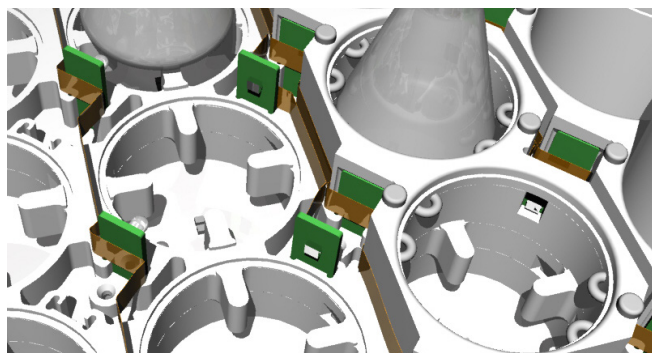
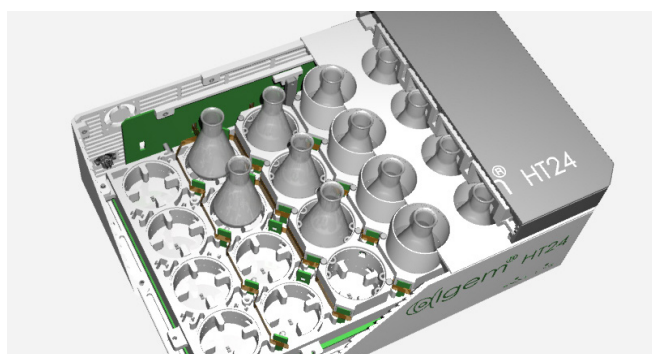
Fast and versatile

- Intuitive point-and-click software easily monitors each reactor
- Unique lighting profiles for independent reactors can be applied in a single experiment
- Individual reactor wells are fully optically insulated from each other
- Automated OD readings (740 nm) as standard



Easy to use

- Intuitive play, pause, and stop buttons with optional start time (within photoperiod) control
- Drag-and-drop experimental sample definitions in seconds
- Experimental data, with color-coded replicates, plotted in real time makes it easy to define and visualize experimental data sets

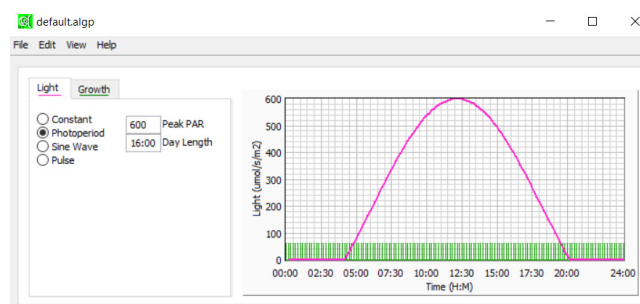


The highest throughput bench-top algal culturing system

- Includes 24 separate reactors, all independently controlled and monitored
- Precisely calibrated, white LEDs provide maximum flexibility with light intensity and diurnal light cycle (light/dark periods) control
- Fully enclosed design eliminates contamination from unwanted light (optional red LEDs available)
- Uses standard 50 ml Erlenmeyer lab flasks that are inexpensive, and easy to install, use, and clean (fully autoclavable)
- Active ventilation ensures uniform temperature throughout the entire system, whether it is used on a shaking table or placed in an incubator for heating (requires available ports for USB and power connections)

Algenious® software

The Algem HT24 features Algenuity's own custom-designed Algenious user interface that displays acquisition of all major parameters simultaneously in real time. Data can be plotted during the run and exported to Microsoft Excel for analysis. Algenious is highly intuitive and easy to use, and also features advanced capabilities that support even the most demanding research requirements.



HT24 technical specifications

H: 6.45" (164 mm)
W: 18.30" (465 mm)
D: 13.40" (340 mm)

Reactor vessels: 24 x 50 ml standard Pyrex® Erlenmeyer flasks

Weight (without flasks): approximately 14 lb (6.5 kg)

White light LEDs: simulate sunlight spectrum (optional red LEDs available)

Power supply: 100–240 V

Algenious software is included, and a Windows®-based computer is required, which can be provided by Algenuity (optional).

(Windows 7 or later; Microsoft Word® and Microsoft Excel® v.10.0 or later recommended).

Specifications may be subject to change

Our Algem® products:



About Algenuity

Algenuity innovates, develops, produces and licenses algal technologies to make algae work for a growing number of market-driven applications. Our world-class expertise in algal biotechnology delivers a positive global impact for the food, beverage and nutrition, feed and aquaculture, cosmetics and pharmaceuticals industries. Our proprietary solutions increase performance, reduce time to market, boost overall profitability and change the world for the better through algae and algae-based products.

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