



# Minitron

Maximum performance in minimum space



- ▶ Maximum growth
- ▶ Space-saving design
- ▶ Minimum CO<sub>2</sub> consumption
- ▶ Intuitive operation
- ▶ Easy cleaning
- ▶ Wireless bioprocess control

« Even at the maximum load with a culture volume totalling 7.5 L, the Minitron's low-vibration and low-noise operation are persuasive factors. »

Dr. Daniel Brücher, Product Manager Shakers, INFORS HT



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May be subject to technical amendments

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# Maximum performance in minimum space

## ▶ Maximum growth

The powerful drive allows shaking speeds of up to 400 rpm, even when units are stacked. When combined with the new Ultra-Yield Flasks™ (Thomson), you get optimal oxygen transfer for maximum growth and high cell densities.

## ▶ Space-saving design

Thanks to its modular design, the Minitron can be operated either on the floor or on a table and even in a stack of two units.

## ▶ Minimum CO<sub>2</sub> consumption

The thorough housing seal minimises CO<sub>2</sub> consumption to a level that is comparable to that of static incubators. CO<sub>2</sub> regulation is particularly recommended for the cultivation of mammalian cells or algae.

## ▶ Intuitive operation

The newly designed touch controller has modern sensor keys and a newly developed menu structure. The result is an intelligent controller that leads the user through the menu with targeted feedback.

## ▶ Easy cleaning

The interior has been redesigned on hygienic principles and enables reliable cleaning. The bottom well retains liquid that escapes if a flask breaks, allowing it to be drained off via a nozzle.

## ▶ Wireless bioprocess control

The combination of the bioprocess platform software eve® and wireless data transmission offers convenient process data recording options, e.g., for process validation and Process Analytical Technology (PAT). Temperature-controlled induction of protein expression, for instance, can be enabled by simply creating time-based profiles.



### Key technical Data\*

**Minimum dimensions (W x D x H):** 800 x 623 x 700 mm (Individual device on rubber feet, without outlet nozzle)  
**Maximum capacity:** 2 x 5 L Erlenmeyer flasks  
**Maximum expansion:** Stackable, up to 2 units  
**Speed ranges:** 20–400 rpm  
**Temperature range:** 5°C above RT up to 65°C (without cooling system); 16°C below RT up to 65°C (with cooling system); minimum 4°C  
**Standard parameters:** Temperature and speed  
**Optional parameters:** Cooling, CO<sub>2</sub> control, humidification, illumination (on request)

\* Technical data are based on a Minitron without options, measured under optimal conditions.

Erlenmeyer flasks	Max. capacity*
50 mL	69
100 mL	46
250 mL	25
500 mL	15
1000 mL	10
2000 mL	6
5000 mL	2

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