

## **Program for calculating the efficiency of CO<sub>2</sub> incubators**

**When purchasing a CO<sub>2</sub> incubator, many different things must be taken into account. A new program for calculating the efficiency and safety of various designs can help in making the decision.**

**Tuttlingen, 22/05/2015** – Working with cell and tissue cultures plays a key role in biomedical research. The cells are cultivated in a CO<sub>2</sub> incubator, also known as a gassed incubator. Optimum growth conditions and maximum safety from contamination are fundamental in this process. What are the essential quality requirements for a CO<sub>2</sub> incubator? How efficient are the anticontamination concepts? Especially in cell cultivation, no problem is more feared than contamination. Contamination of specimens can have catastrophic consequences, not just loss of reputation but also considerable financial damages. Pristine cell cultures can only be guaranteed by avoiding contamination by working in a germ-free environment. When purchasing a CO<sub>2</sub> incubator, many specific details must thus be taken into account. Performance characteristics must meet individual requirements. BINDER GmbH, the leading expert in simulation chambers for scientific and industrial laboratories, has therefore developed a new calculation program for evaluating the various designs of the prevalent CO<sub>2</sub> incubators (<http://www.co2-incubator.com/de/>). In just a few steps, the program evaluates the efficiency and safety of the available features. For instance, the user can select the method of decontamination, the frequency of individual cleaning procedures and the incubator's equipment. The overall result assesses the safety of the decontamination procedure in relation to the scope of effort necessary to clean the unit and the costs for consumables and

service. The evaluation can then be used as an aid to the decision-making process in the purchase of a new CO<sub>2</sub> incubator. Because finding the right solutions saves a lot of time and money.

**About BINDER GmbH:**

BINDER is the world's largest specialist in simulation chambers for scientific and industrial laboratories. With its technical solutions, the company contributes significantly to improving the health and safety of people. Our range of products is well suited for routine applications, highly specialized work in research and development, production, and quality assurance. With approx. 400 employees worldwide and an export rate of 80%, BINDER 2013 sales were more than 60 million euros.

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