

## Constant climate chambers with environmentally friendly thermoelectric cooling



Model KBF-S ECO 400

Sizes 247 L, 400 L, 720 L, 1020 L

### Serie KBF-S ECO

with Peltier-Technology!

The most energy-efficient constant climate chamber in its class

- Homogeneous climate even when fully loaded ensured by APT.line™ preheating chamber technology. 30% more load per shelf than conventional chambers
- Temperature range: 0 °C to +70 °C, Temperatures down to 28°C below ambient possible
- Exceptionally energy-saving due to BINDERs Peltier technology
- Exceptionally low noise level due to inside ventilator positioning
- Environmental-friendly without refrigerants

## SAFE



Homogeneous climate due to APT.line™ double-sided airflow ensures full coverage of the ICH Guidelines with 30% more load per shelf than conventional chambers

## SMART



Exceptionally quiet operation

## RELIABLE



Stable climate even at temperatures up to 28 °C below ambient

## ECONOMICAL



Lowest energy consumption of its class based on superior Peltier-technology

## TECHNICAL DATA

| Description                                                         | KBF-S ECO<br>240 | KBF-S ECO<br>400 | KBF-S ECO<br>720 | KBF-S ECO<br>1020 |
|---------------------------------------------------------------------|------------------|------------------|------------------|-------------------|
| <b>Performance Data Temperature</b>                                 |                  |                  |                  |                   |
| Max. heat compensation at 40 °C [W]                                 | 250              | 300              | 400              | 400               |
| Temperature fluctuation at 40 °C [± K]                              | 0,2              | 0,5              | 0,3              | 0,5               |
| Temperature range (max. 28°C below ambient temperature) [°C]*       | 0...70           | 0...70           | 0...70           | 0...70            |
| Temperature variation at 40 °C [± K]                                | 0,1              | 0,1              | 0,1              | 0,1               |
| <b>Performance data climate</b>                                     |                  |                  |                  |                   |
| Recovery time after 30 seconds door open at 25 °C and 60 % RH [min] | 5                | 6                | 7                | 5                 |
| Recovery time after 30 seconds door open at 40 °C and 75 % RH [min] | 11               | 15               | 17               | 15                |
| Humidity range [% RH]                                               | 10...80          | 10...80          | 10...80          | 10...80           |
| Temperature variation at 25 °C and 60 % RH [± K]                    | 0,1              | 0,1              | 0,1              | 0,1               |
| Temperature variation at 40 °C and 75 % RH [± K]                    | 0,2              | 0,5              | 0,3              | 0,5               |
| Temperature range (max. 28°C below ambient temperature) [°C]*       | 5...70           | 5...70           | 5...70           | 5...70            |
| Humidity fluctuation at 25 °C and 60 % RH                           | 0,3              | 0,3              | 0,3              | 0,4               |
| Humidity fluctuation at 40 °C and 75 % RH                           | 0,3              | 0,3              | 0,3              | 0,4               |
| Temperature fluctuation at 25 °C and 60 % RH [± K]                  | 0,1              | 0,1              | 0,1              | 0,1               |
| Temperature fluctuation at 40 °C and 75 % RH [± K]                  | 0,1              | 0,1              | 0,1              | 0,1               |
| <b>Measures</b>                                                     |                  |                  |                  |                   |
| Net weight of the unit (empty) [kg]                                 | 146              | 192              | 267              | 322               |
| Interior volume [L]                                                 | 247              | 400              | 700              | 1020              |
| Load per rack [kg]                                                  | 30               | 30               | 45               | 45                |
| Permitted load [kg]                                                 | 100              | 120              | 150              | 150               |
| <b>Environment-specific data</b>                                    |                  |                  |                  |                   |
| Energy consumption at 40 °C and 75 % RH [Wh/h]                      | 85               | 70               | 130              | 135               |
| Sound-pressure level [dB(A)]                                        | 46               | 46               | 48               | 49                |
| <b>Fixtures</b>                                                     |                  |                  |                  |                   |
| Number of shelves (std./max.)                                       | 2/9              | 2/15             | 2/15             | 2/15              |

\* With the KBF-S ECO 240, temperature differences of up to 28 °C below the ambient temperature are possible, with the KBF-S ECO 720 and KBF-S ECO 1020, temperature differences of up to 24 °C below the ambient temperature are possible.  
The lowest operating temperature for all devices is 0 °C, regardless of the ambient temperature

## OPTIONS & ACCESSORIES



Access ports



Qualification documents



Rack



LED strip light accessories

### Contact:

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Best conditions for your success