NEW GENERATION

Efficient use of valuable space

INCUBATORS
THE NEW HETTCUBE GENERATION

Now with touchscreen and more options
EVERYTHING UNDER CONTROL

Intuitive operation with the new touchscreen

Get clear and concise information on your incubation process – at a glance! With the new 4.3 inch touchscreen and intuitive menu dashboard, you can easily view the status of the device, as well as any alarms and events in the past 4 weeks. Any event or irregularity (such as door openings, tolerance band violations or power failures) are electronically documented in the logbook.

Easy weekly programming

The user-friendly touchscreen allows for uncomplicated adjustment of weekly programming without additional software – directly on the device. The holiday function allows you to define additional temperature drops for your days off already months in advance. Easily determine the start time or the time period as well as the frequency of your Temperature reduction in a real-time calendar.
SAFETY FOR YOUR SAMPLES

Flexible settings

Various events and alarm functions are individually adjustable. For example: Deviations from the interior temperature can be limited individually over tolerance range limits or fixed via independent temperature safety device of Classes 3.1 and 3.2. Class 3.2 is already included in the standard version of all refrigerated HettCubes.

Process reliability even in the event of a power failure

With the new HettCube generation, you can keep control over your samples even in the event of a power failure. Define by yourself two different settings options how your HettCube’s should behave in the event of a power failure.

Setting the period

By default, the device automatically restarts at the point where the power failed. But Users can also define the acceptable length of time in the event of a power failure. Once power is restored, the HettCube will verify whether this pre-set period has been exceeded. Should this be the case, the settings will be paused and the incubator will automatically move to a Standstill (Safe) Mode. Otherwise, the unit will continue with normal operation and user settings.

Setting the tolerance band

Tolerance band limits and holding temperature are individually configurable. After a power failure, the HettCube checks whether there is a tolerance band violation. The HettCube then automatically adjusts to the previous configured holding temperature. If there is no violation of the tolerance band the HettCube resumes its work.

Perfect conditions

HettCube incubators combine the advantages of natural and forced convection to provide a stable and uniform environment for cultures. The fan is housed outside of usable space, providing higher throughputs and limiting airflow inside the incubator. Temperature is primarily maintained by radiated heat to ensure even temperature distribution and to prevent hotspots. This yields optimum growth conditions and considerably reduces the potential of samples drying out.
MAXIMUM USABLE SPACE – SMALLEST FOOTPRINT

30 % more validated usable space

Due to their gentle air flow and edge-to-edge temperature uniformity, HettCube incubators provide up to 30 % more validated usable space* than a traditional incubator with the same internal volume.

*In accordance with DIN 12880:2007-05

50 % smaller footprint

The HettCube’s upright design requires up to 50 % less floor space than a traditional incubator with similar capacity. The spacesaving footprint allows you to nearly double your capacity by accommodating two HettCube incubators within the same footprint as one conventional incubator.

Conventional incubators
360 litres of validated usable space

HettCube
702 litres of validated usable space with the same footprint

<table>
<thead>
<tr>
<th>HettCube</th>
<th>Conventional incubators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gentle air flow</td>
<td>Strong air flow</td>
</tr>
<tr>
<td>+ High-performance insulation</td>
<td>+ Bulky insulation</td>
</tr>
<tr>
<td>+ Small footprint</td>
<td>+ Large footprint</td>
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<tr>
<td>=</td>
<td>=</td>
</tr>
<tr>
<td>Maximum loading capacity</td>
<td>Low loading capacity</td>
</tr>
<tr>
<td>+ cost savings per m² laboratory space</td>
<td>+ higher costs per m² laboratory space</td>
</tr>
</tbody>
</table>
USER COMFORT

Easy cleaning
The internal lining, drawers and shelves are made of stainless steel and can be readily removed for thorough cleaning and autoclaving.

Maximum use of space
Get higher loading capacities in less space by using the special inserts.
Our rack for Petri dishes and the Loewenstein shelf, allows large numbers of cultures to be processed quickly and economically. They provide more space, clear order and a comfortable handling.

Unimpeded access
The stable telescopic rails of the Hettich Tray System (HTS) can be extended up to 70% horizontally. This allows you to reach easily the samples in every corner.

Stay mobile
The HettCube 400 and 600 models have castors for moving them to the desired position. Once in position they can be fixed with adjustable feet.
Quiet operation
Our incubators are quieter than normal conversation when running, and will not increase the noise levels within your lab. A HettCube incubator has a remarkably low noise output of ≤ 44 dB(A).

Optimum safety
The practical door-locking mechanism locks both the door and the control panel at the same time. This prevents inadvertent changes to parameters and harmful effects on samples.

External connection
One bushing on the rear panel (42 mm opening) for independent measurements and external devices.

Fast and easy access
HettCubes need only one door and do not require an inner door. This allows a true one-hand operation. A HettCube incubator will close automatically at an opening angle below 90°. A magnetic mechanism assists this automatic closing.

Save space
The door does not require space at the side to open. This means that the incubator can be positioned in a corner or close to other lab equipment. The door hinges can easily be moved from one side of the incubator to the other.
HEAT COMPENSATION

Reliable compensation of temperature differences between the inside and outside

HettCube models react to changes in ambient conditions. Temperature fluctuations outside the incubator and energy introduced into the usable space by external equipment are compensated for immediately and actively.

HettCubes with glass door

The optional glass door enables users to check on their cultures without opening the door.
LOW ENVIRONMENTAL IMPACT

Minimal operating costs

Our HettCubes heat or cool only when needed. At an operating temperature of 37 °C a HettCube incubator consumes less than 0.05 kWh. This brings average savings of up to 450 Euros annually*. Therefore, investment costs are recouped within shorter time. The use of a HettCube incubator saves on average up to 940 kg of CO$_2$ emissions annually*.

Additionally: The insulation of the HettCubes consists of water-driven foam, which contains no fluorinated hydrocarbons. Their GWP value (Global Warming Potential) is a thousand times lower than that of conventional insulating foams.

*Assuming 24h operation 365 days a year. The basis for calculation is € 0.29 per kWh – the average price of electricity in Germany in 2018 and 0.6 kg CO$_2$ per kWh.

First-class isolation

The advanced control system and insulation mean that the incubator will maintain a set temperature even if there is only a difference of 1 K (°C) from the ambient temperature. This allows an uncooled HettCube incubator to be used in situations in which a comparable incubator would require cooling.

PROVEN QUALITY

Certifications

Hettich products comply with all applicable safety regulations, carry the TÜV seal and are compliant with lVD. Hettich manufactures according to the applicable quality and environmental management systems, including ISO 9001, ISO 13485 and ISO 14001.

Each HettCube is temperature validated before delivery by means of the 9 point measurement and receives a HettCert factory certificate, included free of charge. All temperature data are determined according to DIN 12880: 2007-5.
## TECHNICAL DATA

**HettCube 200 | 200 R**
- **Temperature range for incubators cooled incubators:** 1 K above ambient temperature up to +65 °C
- **Exterior dimensions (without bushing and door handle) W x D x H in mm:** 710 x 825 x 970
- **Interior dimensions W x D x H in mm:** 535 x 690 x 420
- **Internal volume in litres:** 150
- **Validated usable volume in litres:** 82
- **Percentage validated usable volume / internal volume:** 54 %
- **Footprint in m²:** 0,6
- **Weight in kg:** 92
- **Number of trays provided as standard:** 2 (1 standard + 1 HTS)
- **Temperature fluctuation at +37 °C:** ± 0,1 K
- **Temperature uniformity at +37 °C:** ± 0,2 K
- **Recovery time after door has been opened for 30 s at +37 °C:** ≤ 3 min
- **Energy consumption at +37 °C:** 0,045 kWh
- **Noise level:** ≤ 41 dB(A)
- **Power supply:** 220 – 240 V 1 ~ / 50 – 60 Hz
- **Catalog No.:** 62000 | 62005

**HettCube 400 | 400 R**
- **Temperature range for incubators cooled incubators:** 1 K above ambient temperature up to +65 °C
- **Exterior dimensions (without bushing and door handle) W x D x H in mm:** 710 x 825 x 1425
- **Interior dimensions W x D x H in mm:** 535 x 690 x 850
- **Internal volume in litres:** 310
- **Validated usable volume in litres:** 199
- **Percentage validated usable volume / internal volume:** 64 %
- **Footprint in m²:** 0,6
- **Weight in kg:** 117
- **Number of trays provided as standard:** 3 (2 standard + 1 HTS)
- **Temperature fluctuation at +37 °C:** ± 0,1 K
- **Temperature uniformity at +37 °C:** ± 0,2 K
- **Recovery time after door has been opened for 30 s at +37 °C:** ≤ 4,5 min
- **Energy consumption at +37 °C:** 0,046 kWh
- **Noise level:** ≤ 44 dB(A)
- **Power supply:** 220 – 240 V 1 ~ / 50 – 60 Hz
- **Catalog No.:** 64000 | 64005

**HettCube 600 | 600 R**
- **Temperature range for incubators cooled incubators:** 1 K above ambient temperature up to +65 °C
- **Exterior dimensions (without bushing and door handle) W x D x H in mm:** 710 x 825 x 1990
- **Interior dimensions W x D x H in mm:** 535 x 690 x 1415
- **Internal volume in litres:** 520
- **Validated usable volume in litres:** 351
- **Percentage validated usable volume / internal volume:** 67 %
- **Footprint in m²:** 0,6
- **Weight in kg:** 128
- **Number of trays provided as standard:** 4 (3 standard + 1 HTS)
- **Temperature fluctuation at +37 °C:** ± 0,1 K
- **Temperature uniformity at +37 °C:** ± 0,1 K
- **Recovery time after door has been opened for 30 s at +37 °C:** ≤ 5,5 min
- **Energy consumption at +37 °C:** 0,056 kWh
- **Noise level:** ≤ 44 dB(A)
- **Power supply:** 220 – 240 V 1 ~ / 50 – 60 Hz
- **Catalog No.:** 66000 | 66005

**120 V 1 ~ / 50 – 60 Hz**
- **Weight in kg:** 97 | 122 | 169
- **Energy consumption at +37 °C:** 0,04 kWh | 0,05 kWh | 0,06 kWh
- **Noise level:** ≤ 42 dB(A) | ≤ 42 dB(A) | ≤ 42 dB(A)

*All other data are the same as for the product versions with standard voltage (220 – 240 V 1 ~ / 50 – 60 Hz). All temperature values were ascertained at an ambient temperature of + 22 °C in accordance with DIN 12880:2007-5. The data apply for incubators with standard features.*
# MORE OPTIONS AND ACCESSORIES

### Switchboard
- **Cat. No.:** 60521
- **Description:** 4-fold socket strip, as a unit controllable via display, on the back of the device

### Rack for petri dishes
- **Cat. No.:** 60038
- **Description:** For Petri dishes, stainless steel, with telescopic rails, pull out up to 70%, Petri dishes Ø (mm): 90, max. load (pcs): 90

### Rack for Loewenstein application
- **Cat. No.:** 60036
- **Description:** For inclined storage of cultures (Loewenstein), stainless steel, with telescopic rails, pull out up to 70%, inclination angle: 5°, tube Ø (mm): 15-20, max. load (pcs): 81 tubes

### Accessories Table

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelf (Set)</td>
<td>Made of stainless steel, with standard rails, max. load (kg): 50</td>
</tr>
<tr>
<td>Shelf (HTS-Set)</td>
<td>Made of stainless steel, with telescopic rails, pull out up to 70%, max. load (kg): 40</td>
</tr>
<tr>
<td>Drawer (HTS-Set), High 30 mm</td>
<td>Made of stainless steel, with telescopic rails, pull out up to 70%, tightly welded, max. load (kg): 40</td>
</tr>
<tr>
<td>Drawer (HTS-Set), High 65 mm</td>
<td>Made of stainless steel, with telescopic rails, pull out up to 70%, tightly welded, max. load (kg): 40</td>
</tr>
<tr>
<td>Drawer (HTS-Set), High 105 mm</td>
<td>Made of stainless steel, with telescopic rails, pull out up to 70%, tightly welded, max. load (kg): 40</td>
</tr>
<tr>
<td>Rack (HTS-Set)</td>
<td>For Petri dishes, stainless steel, with telescopic rails, pull out up to 70%, Petri dishes Ø (mm): 90, max. load (pcs): 90</td>
</tr>
<tr>
<td>Rack (Set)</td>
<td>For Petri dishes, stainless steel, Petri dishes Ø (mm): 90, max. load (pcs): 90</td>
</tr>
<tr>
<td>Rack (HTS-Set)</td>
<td>For inclined storage of cultures (Loewenstein), stainless steel, with telescopic rails, pull out up to 70%, inclination angle: 5°, tube Ø (mm): 15-20, max. load (pcs): 81 tubes</td>
</tr>
<tr>
<td>Rack (Set)</td>
<td>For inclined storage of cultures (Loewenstein), stainless steel, with standard rails, inclination angle: 5°, tube Ø (mm): 15-20, max. load (pcs): 81 tubes</td>
</tr>
<tr>
<td>Rack</td>
<td>For inclined storage of cultures (Loewenstein), stainless steel, inclination angle: 5°, tube Ø (mm): 15-20, max. load (pcs): 81 tubes</td>
</tr>
<tr>
<td>Frame L, 16-place</td>
<td>Made of stainless steel, for inclined storage of cultures, tube Ø (mm): 15-20, Tube length (mm): 100-125, inclination angle 5° or 20°</td>
</tr>
<tr>
<td>Frame XL, 16-place</td>
<td>Made of stainless steel, for inclined storage of cultures, tube Ø (mm): 15-20, Tube length (mm): 126-170, inclination angle 5° or 20°</td>
</tr>
<tr>
<td>Switchboard</td>
<td>4-fold socket strip, as a unit controllable via display, on the back of the device</td>
</tr>
<tr>
<td>Independent PT 100 sensor</td>
<td>For independent temperature measurement, four-wire system, temperature values output with 4 pole connection on the back of the device</td>
</tr>
<tr>
<td>Independent PT 100 sensor</td>
<td>For independent temperature measurement, four-wire system, temperature values output with analogue output 4-20 mA on the back of the device</td>
</tr>
<tr>
<td>Glass door</td>
<td>All-glass outer door, for HettCube 200</td>
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<tr>
<td>Glass door</td>
<td>All-glass outer door, for HettCube 400</td>
</tr>
<tr>
<td>Glass door</td>
<td>All-glass outer door, for HettCube 600</td>
</tr>
<tr>
<td>Access port</td>
<td>Ø (mm): 22, Foam stoppers</td>
</tr>
<tr>
<td>Access port</td>
<td>Ø (mm): 42, Foam stoppers</td>
</tr>
<tr>
<td>Access port</td>
<td>Ø (mm): 67, Foam stoppers</td>
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<tr>
<td>Stacking kit</td>
<td>For safe stacking of two HettCubes 200</td>
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<tr>
<td>Rolling cabinet</td>
<td>Lockable, with one drawer, incl. lockable castors, WxDxH (mm): 770x500x550, for HettCube 200</td>
</tr>
</tbody>
</table>
EXTENSIVE STANDARD EQUIPMENT

4.3 inch touchscreen:
- Target / actual display
- Real-time calendar
- Timer
- 12/24 hour clock?
- Language options (English, German, French and Spanish)
- Week programming with holiday function
- Log (door openings, alarms and operating hours)
- Temperature diagram in 3 zoom levels (up to 4 weeks)
- Setting accuracy 0.1 °C
- PIN lock
- Door alarm individually adjustable
- Temperature selection monitor class 3.1 for all models
- Temperature selection monitor class 3.2 for all refrigerated models
- Power failure scenarios
- Programming external devices via switchboard (option)
- Up to 99 program functions (Start/Stop, Period, Timer at start, Timer at temperature, ...)

Control panel and door lockable simultaneously
USB service interface
Bushing on rear panel Ø 42 mm
Potential-free alarm output
Interior of high-quality stainless steel (W-St 1.4301 (ASTM 304))

In addition you get for free...

Up to 3 Shelf standard shelves of stainless steel (depending on model size)
HTS shelf of stainless steel with telescopic rails
Factory certificate (HettCert) - 9 points measurement analog to DIN 12880: 2007-05
Compensation for unneeded standard shelves*

* Choose other shelves / drawers as standard, we credit you the price of unused standard inserts.