
HEKTROS
SMART TOOLS
SMART SCIENCE

FOREFRONT-TECHNOLOGIES & PRODUCTS

- We develop and produce innovative equipment and disposables for general laboratory use in a wide range of chemical, biotechnological and medical-pharmaceutical applications.
- We create novel techniques and product solutions to raise efficiency of work flows in modern laboratories.
- Our innovative tools and instruments provide a unique spectrum of novel methodologies and techniques to our costumers.

SMART TOOLS
LESS WORRIES

Hektros labware products are developed to make a lab day easier.

TIP CUBE

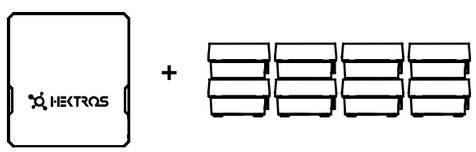
First of its kind

TipCube is a fully automated tip rack filling machine

- **Suitability** for the most commonly used pipette tip types of all brands and volumes from 0,1 to 10 µl and 10 - 300 µl
- **Easy and intuitive handling** through a function explaining design and smart software interface
- **High quality pipette TipBoxes**: repeatedly autoclavable, stackable and precise
- **Save thousands of euros** by using the much cheaper bulk pipette tips
- **Save thousands of working hours** by letting the machine do a machine`s job when using bulk pipette tips
  Save tons of plastic waste by using the TipCube to refill its high quality pipette TipBoxes
- **Fast and effective filling of pipette TipBoxes** through innovative and patent pending technology
- **The fast and cost effective alternative** to expensive prefilled boxes
- **The smart and convinient** way to reduce plastic waste

	0.1 - 10 µl	10 - 300 µl	100 - 1,000 µl
TipCube	✓	✓	

Configuration



TipCube

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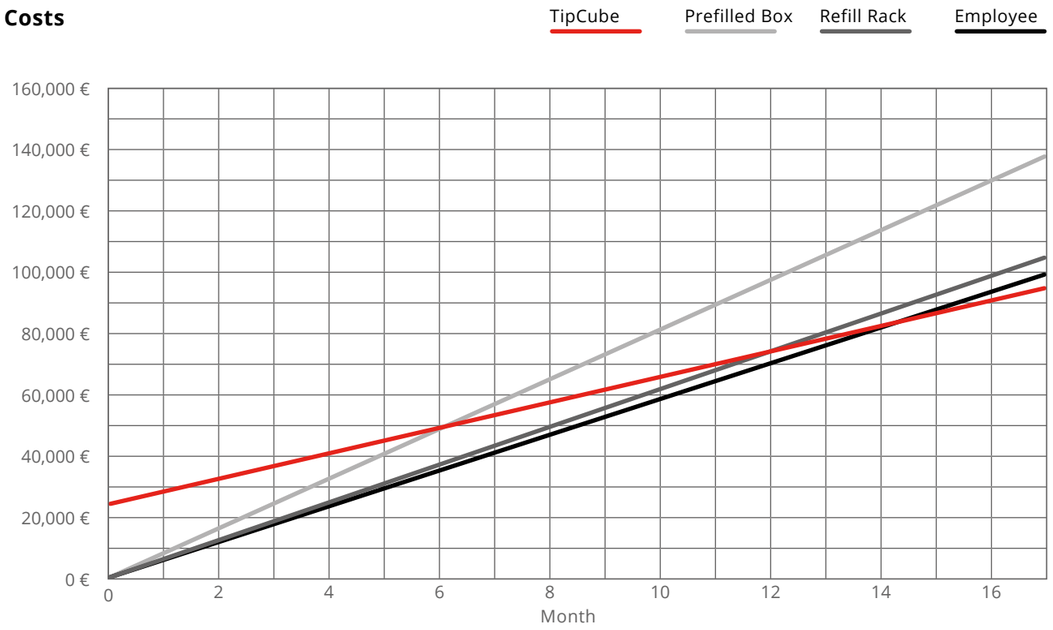
96 Rack / Red
8 Boxes

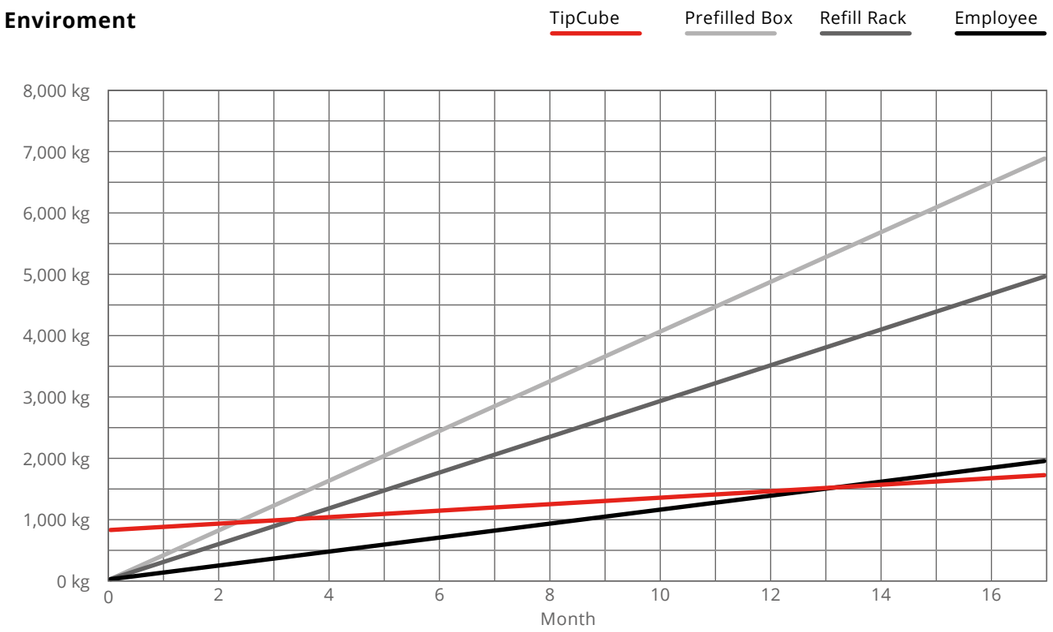
Price on demand

TipCube vs. conventional filling systems

Costs



Enviroment



*TipCube // Consumption (2000 TipBoxes per Month) // Bag 1000pcs. (20,00€) // Prefilled Box (4,00€) // Refill Rack (3,00€) // Employee (15€ per hour)
This calculation is an estimate, the costs and the eviromental impact can vary individually.
If you need more information you can visit our Website or contact our sales team.

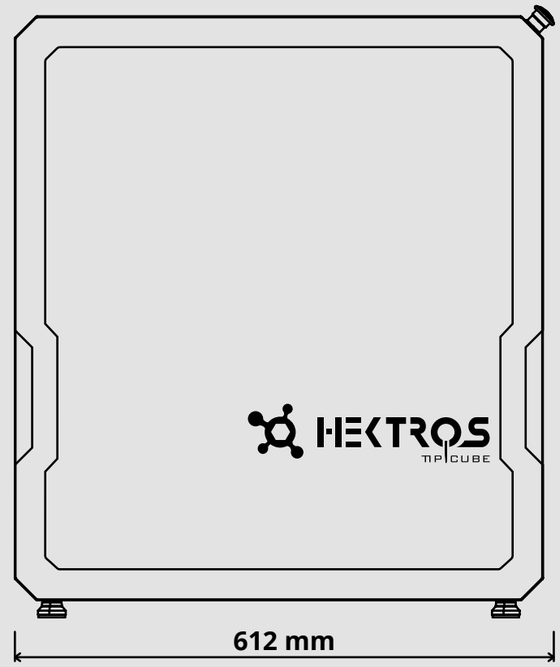
Specifications

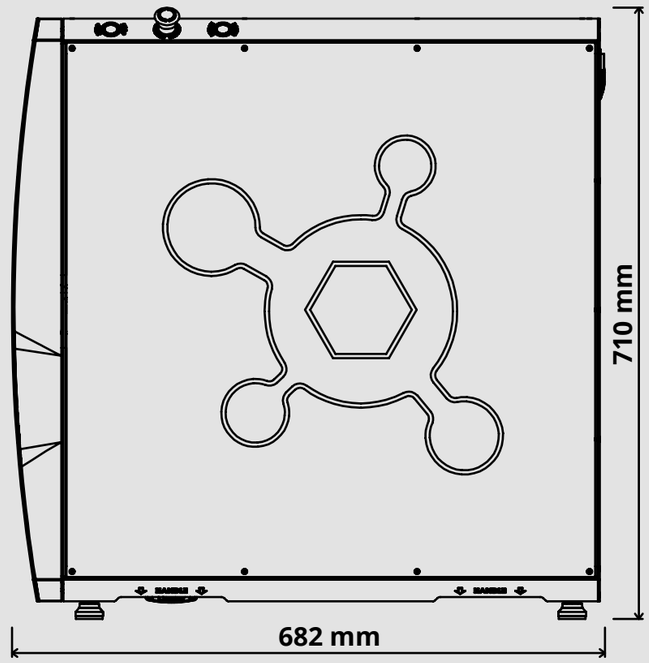
Filling time:
16 Boxes / hour

Drum capacity:
+1,000 pipette tips

Set-up time:
in under 2 min.

Weight:
68 kg





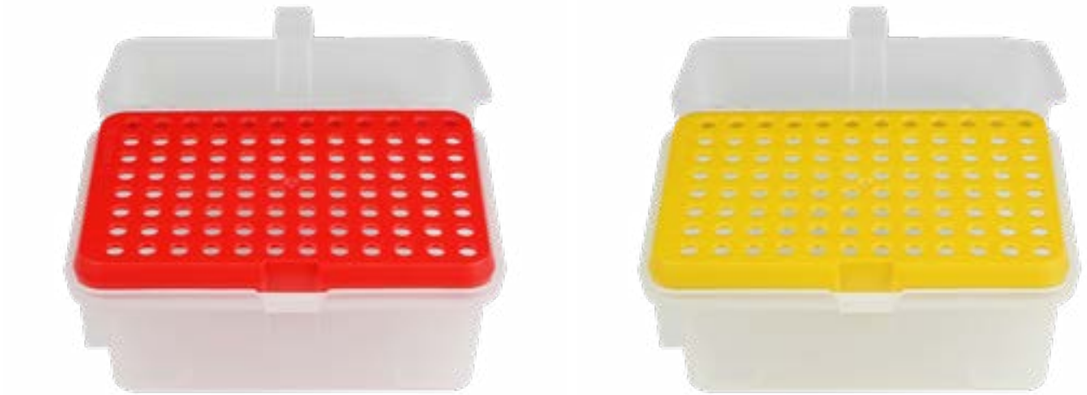
TIP BOX

The best place for your tips

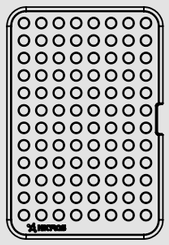
Pipette TipBoxes from Hektros offer reliable quality for precise and demanding analyses.

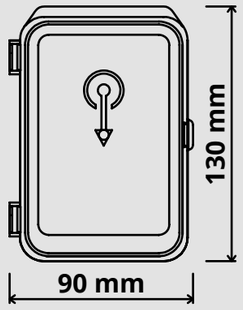
The well thought-out geometry and a carefully chosen centre of gravity guarantee a safe pick-up of the pipette tips.
The **TipBox Racked 96** for the TipCube has a capacity of **0.1 – 300 µl** and is available in red, yellow and customized colours.

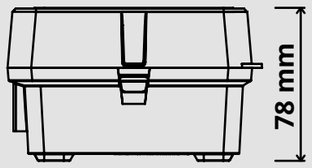
- Materials free of DiHEMDA and oleamide
- Made of Polypropylene (PP)
- Hight dimension stability and robustness
- No release agents or demoulding aids are used



Specifications







96 Rack

Reusable up to:
50 times

Rack:
12 x 8 (96)

Stackable:
Yes

Pipette tips:
0.1 - 300 µl

Material:
Polypropylene (PP)

Packaging units

96 Rack / Red

set / 8 Boxes
Price on demand

96 Rack / Yellow

set / 8 Boxes
Price on demand

96 Rack / custom colour

Price on demand

YOUR CELLS ON VACATION

The Cellware of Hektros provides advanced cell culture tools to simplify and speed up forefront methodologies *in vitro*: Live Cell Imaging.

- Hektros´ Plug & Play solutions are compatible with basic lab equipment; they are instantly ready and easy to use.
- Hektros supplies innovative products of highest quality, whereby the design is striped to functional essentials and it deliberatley dispenses complex control units.
- Boost your productivity using smart Cellware products and gain access to affordable Live Cell Imaging!

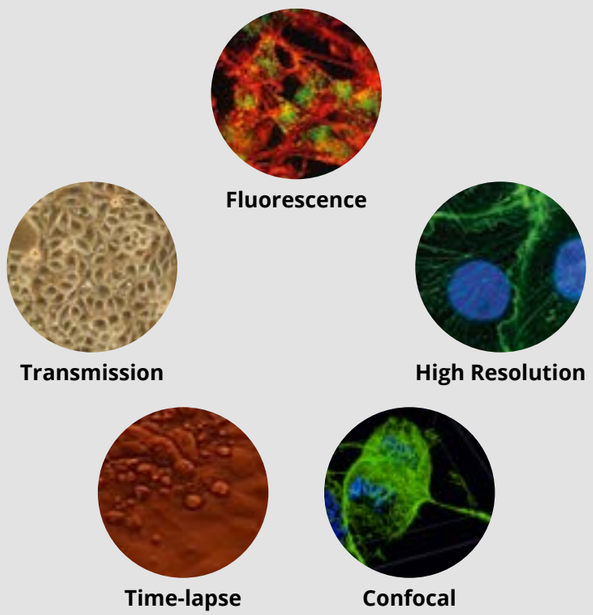
The versatile cell incubator at the microscope stage

reddot winner 2020

Spotlight your Relaxed Cells!

Hi5 is a versatile and handy cell incubator - your best choice for long-term cell examinations directly on the stage of inverted microscopes.

- Hi5 incubators are especially designed to provide a comfortable environment for your demanding cells. It can be used for various types of microscopic techniques: **Fluorescence, Time-lapse, High Resolution, Transmission and Confocal.**
- Hi5 incubators dispose of **five conical seats** to mount accurately fitting single-use **Hi5i culture wells**. The unique design ensures **exceptional temperature homogeneity** to keep your cells happy during your long-term experiments.
- Even **exchange of culture media** or **addition of sterile** reagents can be carried out easily **via septum-shielded ports** directly on the microscope stage!
- With our Hi5 incubator you can focus on your complex experiments – not on the hardware!



Exceptional temperature homogeneity at minimal gas-consumption rates

Stable culture conditions are maintained over days or even weeks

Exchange of culture media and addition of sterile reagents via septum-shielded ports

Perfectly equilibrated within a set-up time of less than 2 minutes

Magnifications up to 100-fold

As a special feature, Hi5 incubators can be connected to analytical instruments like HPLC / GC

Specifications

Materials:

Body material:
Anodised aluminium or Nickel-plated aluminium

Materials wetted with medium:
Polystyrene and borosilicate glass (see Hi5i)

Materials wetted with humidified gas:
Anodised aluminium or Nickel-plated aluminium, PTFE, PEEK, Polyoxymethylene, borosilicate glass

Sealings:
Silicone, Viton

Optical glass:
Borosilicate glass: Borofloat 33

Weight:
1,315 kg

Behaviour:

Typical heating-up time:
1 to 10 minutes (1 min when pre-heated)

Typical time to temperature equilibrium with the culture-medium:
2 to 10 minutes (2 min when pre-cultured and processed quickly)

Typical time to CO2-equilibrium:
1 to 10 minutes (2 min when pre-cultured)

Typical gas-consumption:
14.5 l/day

Autoclavable:
Yes

Inside the box:

1x Hi5

2x Water-tubing (temperature control)

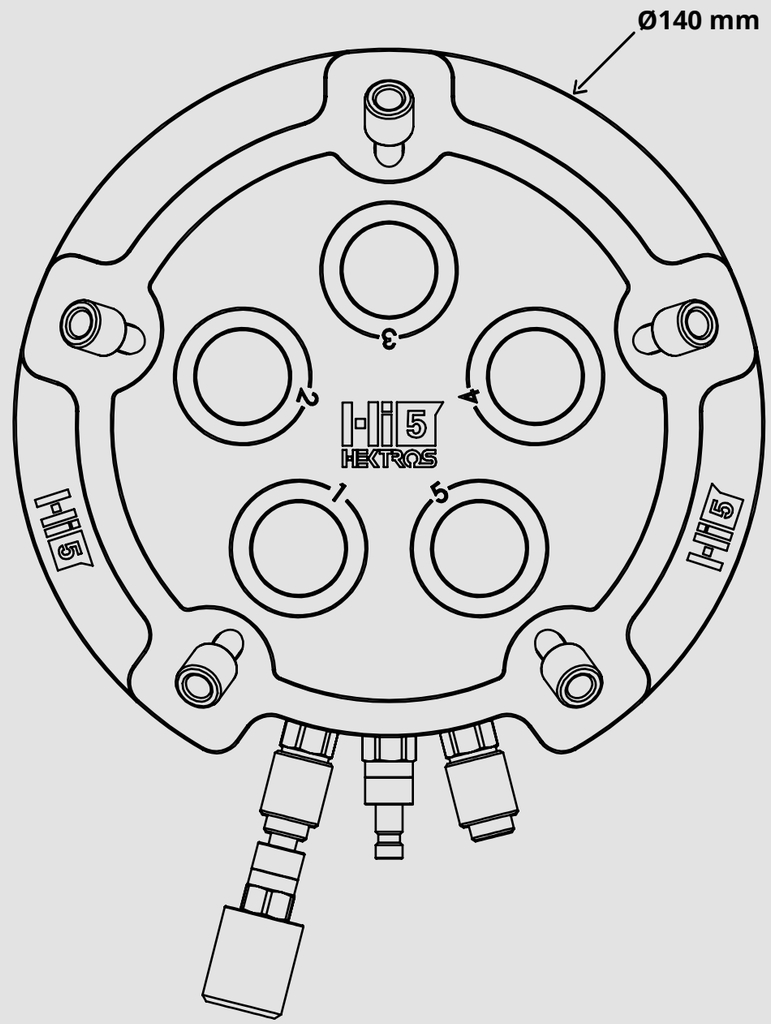
2x Needle for feeding and sampling

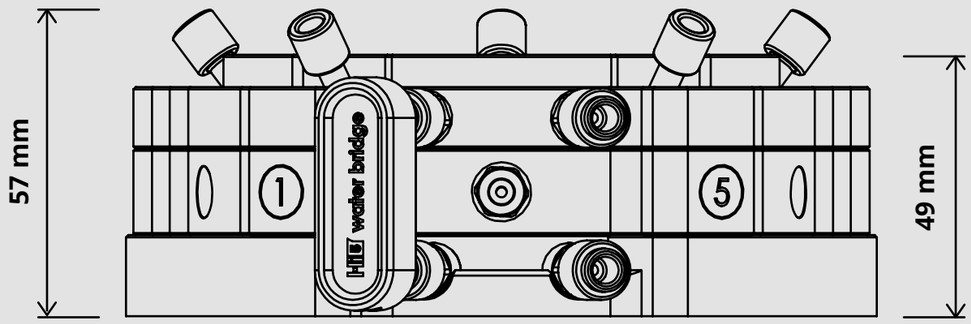
1x Biospir

2x Gas humidification insert

1x Gas-tubing

5x Feeding-port and caps





Configurations

Anodised

Hi5 Set

Price on demand

Hi5 Set

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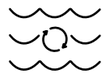

Heating Circulator
for int. applications

Price on demand

Hi5 Set

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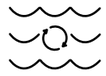

Heating Circulator for
use with ext. Sensor

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PT-100 Sensor

Price on demand

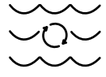
Nickel-plated

Hi5 Set

Price on demand

Hi5 Set

\+

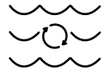


Heating Circulator
for int. applications

Price on demand

Hi5 Set

\+



Heating Circulator for
use with ext. Sensor

\+

PT-100 Sensor

Price on demand

reddot winner 2020

YEAR

2020

CATEGORY

Medical devices and
medical technology

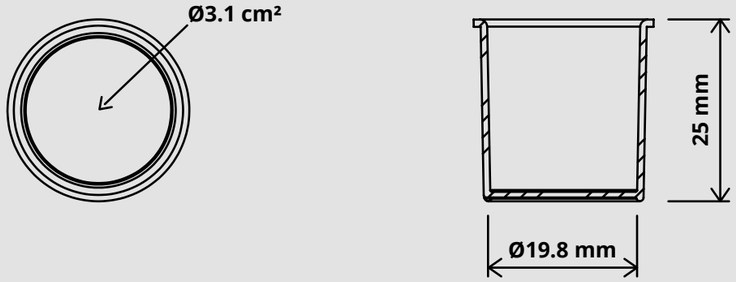
The Hektros Hi5i cell-culture wells were developed to provide optimal cultivation conditions as well as best optical properties for various microscopy techniques.

- The Hi5i cell-culture wells are made of **polystyrene walls** and a **borosilicate glass bottom**
- The glass bottoms with a **thickness of 160 µm** provide best optical properties and are suitable for high-resolution microscopy techniques and **magnifications up to 100 fold**
- The Hi5i cell-culture wells with glass insert are **produced without additional chemicals** like glue through integration into the injection molding process
- To meet the needs of various microscopy techniques, the Hi5i cell-culture wells are **available fully transparent** or with **white walls** especially for luminescence and with **black walls** for fluorescence imaging
- All Hi5i wells are **packed sterile** and seated within a polystyrene carrier. They are protected by a HiCult cell-culture dish and can therefore be **easily pre-cultivated in a standard CO2-incubator** without the need to set up the Hi5 incubator
- These features make the Hi5i-wells not only the perfect insert for the Hi5 incubator, but also convenient and **high-quality cell-culture wells for general microscopy applications**

- Optimal cultivation conditions
- Best optical properties through 160 µm glass bottom
- No additional chemicals like glue added
- Magnifications up to 100-fold
- Available for various microscopy techniques e.g. fluorescence imaging
- Convenient pre-cultivation in standard CO2-incubators

Specifications

Hi5 standard wells with polystyrene bottom



Wall material:
Polystyrene transparent

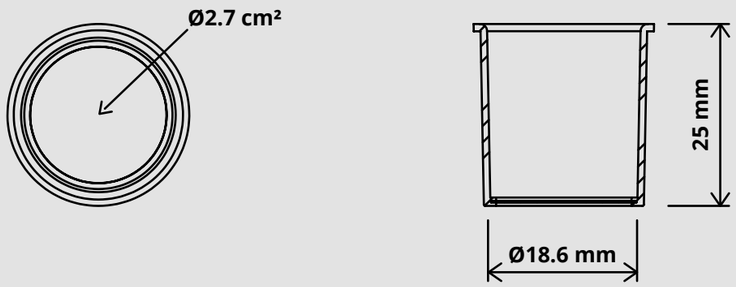
Bottom material:
Polystyrene transparent

Surface coating / -treatment:
Plasma treated

Non-pyrogenic:
Yes

Sterile:
Yes (UNI EN ISO 11137-1/2/3: SAL 10)

Hi5 wells with glass bottom



Wall material:
Polystyrene transparent / black / white

Bottom material:
Borosilicate glass

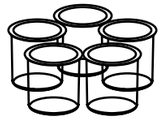
Surface coating / -treatment:
No

Non-pyrogenic:
Yes

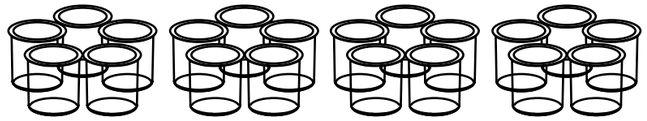
Sterile:
Yes (UNI EN ISO 11137-1/2/3: SAL 10)

Packaging units

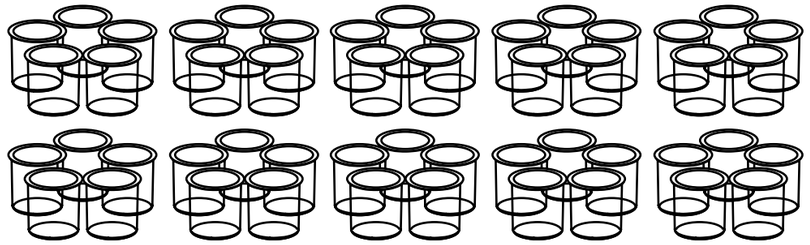
Cell-culture wells without glass insert



1 / set
Price on demand



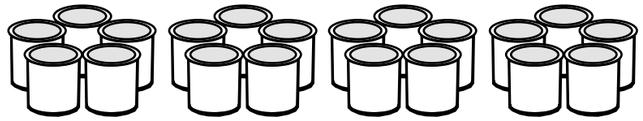
4 / set
Price on demand



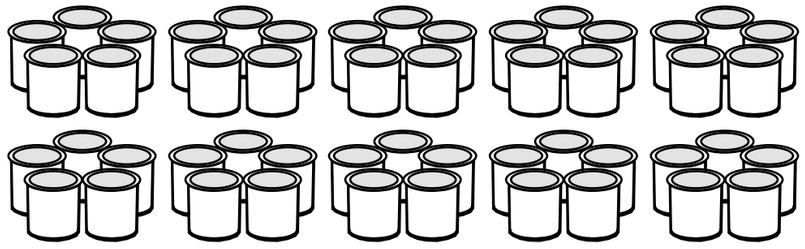
10 / set
Price on demand

Cell-culture wells with glass insert

1 / set
Price on demand



4 / set
Price on demand



10 / set
Price on demand

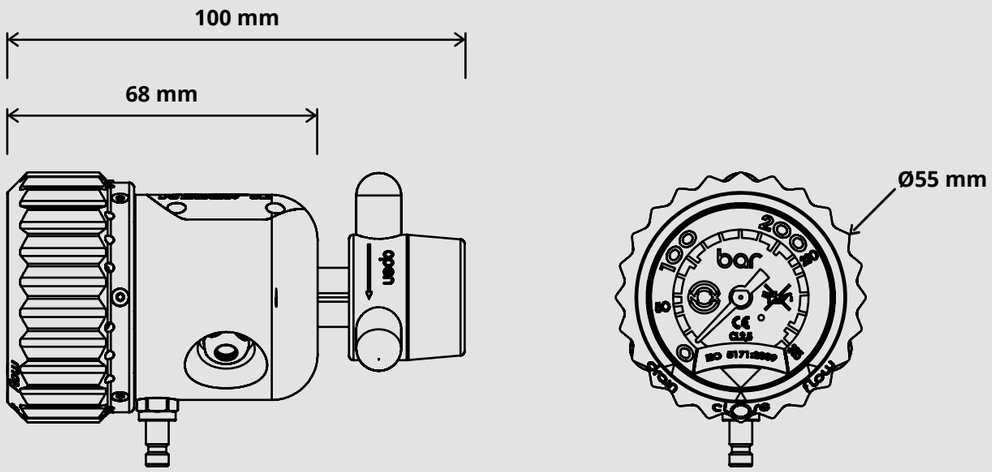
BIOSPIR

The Hektros BioSpir is a unique gas handling device, specially developed for gassing cell-cultures.

It combines a pressure-reducing valve with a calibrated fixed-flow regulator to provide a **constant gas flow of 10 ml/min**. The BioSpir was designed to meet the demands of the Hi5 Live Cell Imaging incubator as well as to provide a high-quality and easy-to-use gas valve for scientific applications.

- open/close to operate the valve
- drain position to quickly empty the valve before disconnecting
- no tools necessary for connecting or disconnecting

Specifications



Attention Pressure cylinder connection is country-specific!

Standard Bottle Connector:
Test gas UNc, cylinder connector (DIN M19x1,5 LH.)

Input pressure:
P1 230bar

Gas Mixture:
Air / Air +5% CO2 or similar gases

Output Connection:
Quick Coupling DN 2.5

Standard:
ISO 2503:2009

Class
cl.0

Pressure relief valve:
7 bar

Body material:
Aluminium 7075 - Ni-Plated

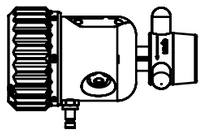
Precise two-piston pressure reducer valve

Pressure indicator (manometer) integrated into the housing

ISO

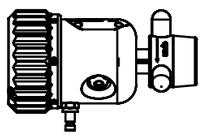
Developed and manufactured according to ISO 2503:2009

Configurations



10 ml/min

Price on demand



Custom

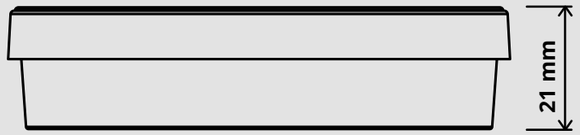
Price on demand

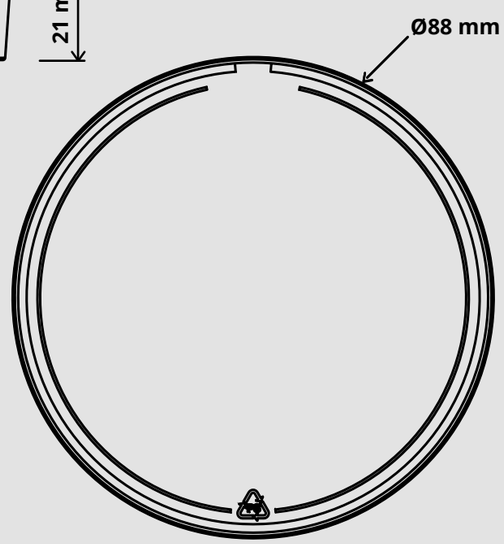
HiCULT

The Hektros HiCult dish was designed to meet the high requirements of cell culture in terms of attachment and proliferation.

- A key-feature of this product is the nearly perfect planarity of the surface to provide a more even distribution of the cells.
- In combination with a highly transparent polystyrene material the HiCult dish has superior optical properties for microscopic examinations.

Specifications





Material:
Polystyrene transparent

Sterile:
Yes (ISO 11137-1/2/3: SAL 10)

Non-pyrogenic:
Yes

Growth area:
50 cm^2

Surface coating / -treatment:
Plasma treated

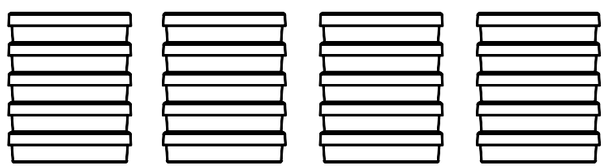
Plasma treated growth surface

Best optical properties through highly transparent polystyrene

Highly planar surface for a very even distribution of the cells

Standardized growth area of 50 cm^2

Packaging unit



Price on demand

20 / set

ViPRO
Ocular

KEEP YOUR VISION CLEAR

ViPRO Ocular

Individual virus protection for you and your ocular!

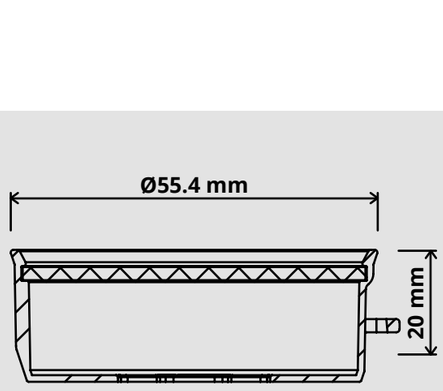
- **Protect yourself** easily from contaminations caused by viruses and microorganisms!
- Cleaning of your sensitive microscope-oculars can cause scratching and blinding of the glass.
- **Protect the oculars** of your precious microscopes!

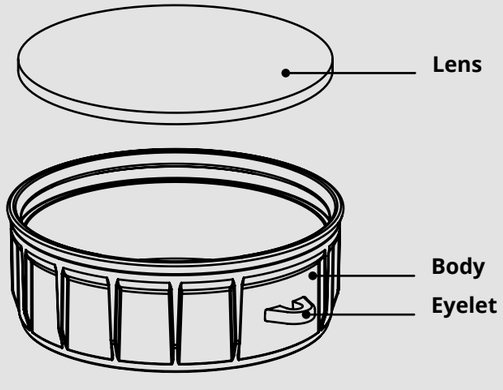
Specifications

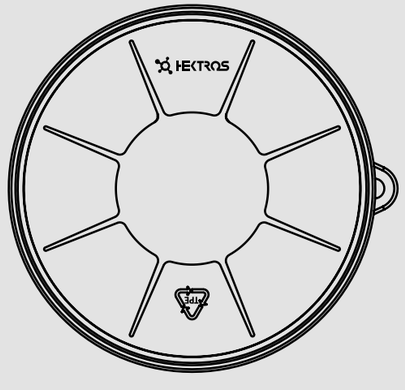
Body material:
TPE-black 95ShoreA

Lens material:
Scratchresistant Polycarbonate

Compatibility:
Oculars with diameter <54 mm







Protection from viruses and microorganisms

Protect the oculars of your precious microscopes!

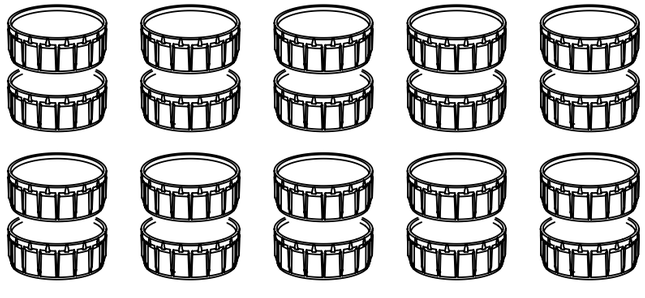
Perfectly fits the ocular of your microscope

Manually exchangeable lens

Easily connectable for the use with mono- or binocular

Easy cleaning

Packaging unit



Price on demand

10 / set

ABOUT US

Hektros is engaged in the development and production of innovative disposables and equipment for general laboratory use in a wide range of chemical, biotechnological and medical-pharmaceutical applications. Together with the technologists of our partner AFYS3G, an innovative manufacturer of laboratory equipment, we do not follow the classical approach of competing with existing companies by offering modified or easily improved products. We rely on our high innovative power!

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