



**Catalog**

**Research**

**01 / 2010**  
Rev. A

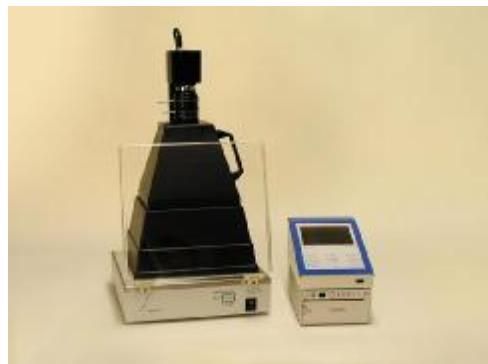
## **BIOTEC-FISCHER GmbH**

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### Gerix Systeme

142211-001 **GeIDoc system Gerix 1010 containing:**

Gerix 1010 is an easy-to-use imaging system for a simple gel documentation where no PC is needed for control. Proteins and DNA/RNA samples can be recorded in a fast and efficient way. The exposed gels can be saved as digital image on a memory card and can be processed and evaluated on a PC afterwards. The small transportable documentation system includes a set-top dark hood and a UV transilluminator. Gerix 1010 can also be placed on any other transilluminator with a maximum filter size of 23 x 30 cm. The CCD camera guarantees a real live image for an easy positioning of the gels. The settings of the integration time for an optimal image acquisition are made by an external control unit with integrated LCD display. The image can be printed immediately on an optionally available thermal printer P93E.



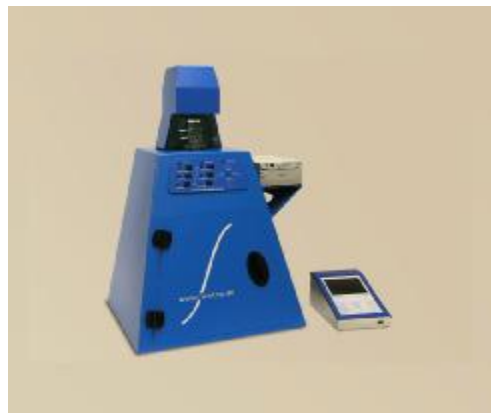
142211-002 **GeIDoc system Gerix 1015 containing:**

Gerix 1010 is an easy-to-use imaging system for a simple gel documentation where no PC is needed for control. Proteins and DNA/RNA samples can be recorded in a fast and efficient way. The exposed gels can be saved as digital image on a memory card and can be processed and evaluated on a PC afterwards. The small transportable documentation system includes a set-top dark hood and a UV transilluminator. Gerix 1010 can also be placed on any other transilluminator with a maximum filter size of 23 x 30 cm. The CCD camera guarantees a real live image for an easy positioning of the gels. The settings of the integration time for an optimal image acquisition are made by an external control unit with integrated LCD display. The image can be printed immediately on an optionally available thermal printer P93E.

\* s/w Videoprinter P93E

## Gel documentation

Product no. Product  
142214-001 **GeIDoc system Gerix 1040 containing:**  
Gerix 1040, basing on the basic system Gerix 1000, is a comfortable documentation system with various application possibilities. The equipment with UV transilluminator, white top-light and white light transmission (UV conversion screen) enables fluorescence and white light acquisitions, such as gels, films, blots and Petri dishes. The intensity switch 50/100 % on the transilluminator allows the change between preparative and analytic applications. The dark hood is equipped with an automatic UV shut-off when open the door. Inspecting the gels under UV light can be realised with the preparativ function. If requested, a UV protection shield can be used in the dark hood DH-40. Gerix 1040 does not need an additional PC for the acquisition and print-out of images. The control of the system and the overexposure control is made via the external control unit. The optional thermal printer P93E can be put on the printer holder which is mounted on the dark hood. This is spacesaving and convenient.



142214-002 **GeIDoc system Gerix 1045 containing:**  
Gerix 1040, basing on the basic system Gerix 1000, is a comfortable documentation system with various application possibilities. The equipment with UV transilluminator, white top-light and white light transmission (UV conversion screen) enables fluorescence and white light acquisitions, such as gels, films, blots and Petri dishes. The intensity switch 50/100 % on the transilluminator allows the change between preparative and analytic applications. The dark hood is equipped with an automatic UV shut-off when open the door. Inspecting the gels under UV light can be realised with the preparativ function. If requested, a UV protection shield can be used in the dark hood DH-40. Gerix 1040 does not need an additional PC for the acquisition and print-out of images. The control of the system and the overexposure control is made via the external control unit. The optional thermal printer P93E can be put on the printer holder which is mounted on the dark hood. This is spacesaving and convenient.

\* s/w Videoprinter P93E

Product no. Product

142215-001 **GeIDoc system Gerix 1050 containing:**

Gerix 1050 is an excellent documentation system, suitable for analytical and preparative tasks. Based on the basic system Gerix 1000, it is equipped with UV light (transilluminator 312 nm), white top-light and white light transmission (UV conversion screen). The control of the camera and of the overexposure as well as the storage of the image data is realised by the external control unit. In addition to the automated UV shut-off and the preparative function, the dark hood DH-50 contains a roll-out table for the transilluminator and a UV protection shield. This equipment eases the cutting of bands as well as the positioning and removing of gels considerably. Furthermore, the 10 stepped intensity setting of 10 - 100 % on the UV transilluminator is of high advantage. If requested, the system can be equipped with UV top-light in two wavelengths (e.g. 254 nm, 365 nm) for TLC applications. The printer holder mounted on the side of the Dark hood provides space for the thermal printer P93E or another A6 printer.



142215-002 **GeIDoc system Gerix 1050 containing:**

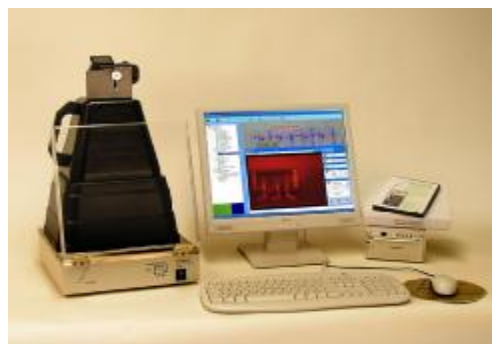
Gerix 1050 is an excellent documentation system, suitable for analytical and preparative tasks. Based on the basic system Gerix 1000, it is equipped with UV light (transilluminator 312 nm), white top-light and white light transmission (UV conversion screen). The control of the camera and of the overexposure as well as the storage of the image data is realised by the external control unit. In addition to the automated UV shut-off and the preparative function, the dark hood DH-50 contains a roll-out table for the transilluminator and a UV protection shield. This equipment eases the cutting of bands as well as the positioning and removing of gels considerably. Furthermore, the 10 stepped intensity setting of 10 - 100 % on the UV transilluminator is of high advantage. If requested, the system can be equipped with UV top-light in two wavelengths (e.g. 254 nm, 365 nm) for TLC applications. The printer holder mounted on the side of the Dark hood provides space for the thermal printer P93E or another A6 printer.



### *Felix Systeme*

142111-001 **GeIDoc system Felix 1010 containing:**

The PC-controlled gel documentation systems Felix 1010 and Felix 2010 are based on a digital camera. They are user-friendly and distinguish by their high resolution. The complete control of the camera and the motorzoom objective is realised via the biostep PC-software argusX1®. The program contains many functions for the image processing. An integrated data base serves for the clear administration of large data amounts. Two digital camera models are available which differ in their resolution, sensitivity and equipment. In addition to the transportable set-top dark hood, the systems consist of a UV transilluminator. In dependence on their application, they can also be place over any other transilluminator with a maximum filter size of 23 x 30 cm. Felix 1010 and 2010 are optionally upgradable, e. g. with a PC, thermal printer P93DW and analysis software.



142111-002 **GeIDoc system Felix 1015 containing:**

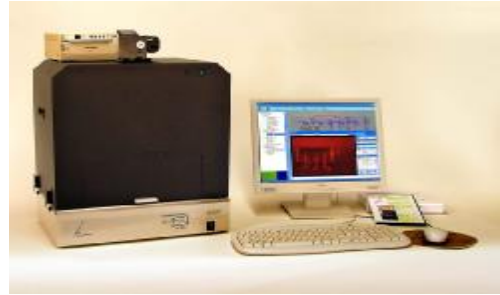
The PC-controlled gel documentation systems Felix 1010 and Felix 2010 are based on a digital camera. They are user-friendly and distinguish by their high resolution. The complete control of the camera and the motorzoom objective is realised via the biostep PC-software argusX1®. The program contains many functions for the image processing. An integrated data base serves for the clear administration of large data amounts. Two digital camera models are available which differ in their resolution, sensitivity and equipment. In addition to the transportable set-top dark hood, the systems consist of a UV transilluminator. In dependence on their application, they can also be place over any other transilluminator with a maximum filter size of 23 x 30 cm. Felix 1010 and 2010 are optionally upgradable, e. g. with a PC, thermal printer P93DW and analysis software.

\* UV-Transilluminator 20x20 cm, 312 nm

Product no. Product

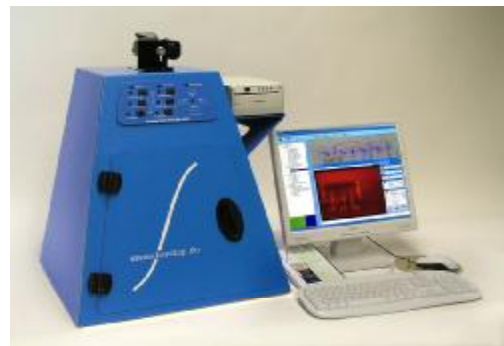
142112-001 **GeIDoc system Felix 1020 containing:**

The gel documentation systems Felix 1020/2020 and Felix 1030/2030 are based on the basic systems Felix 1000/2000. They are equipped with the dark hoods DH-20 or DH-30 as well as appropriate transilluminators. Image acquisition, control of the cameras and image processing are realised via the biostep software argusX1®. In combination with argusX1®, the systems are efficient, easy-to-use and have all advantages of a digital camera. The systems differ in their max. detectable sample size. Felix 1020/2020 can expose samples with a size of max. 20 x 20 cm, Felix 1030/2030 samples of max. 23 x 30 cm. Due to the equipment of the dark hoods with white toplight, the positioning of the gels is simplified and the application possibilities are widened.



142113-001 **GeIDoc system Felix 1040 containing:**

Felix 1040 and Felix 2040 are comfortable documentation systems with various application possibilities as well as a complete control of the camera and the motorzoom objective. The equipment with UV transilluminator, white top-light and white light transmission (UV conversion screen) enables fluorescence and white light acquisitions, such as gels, films, blots and Petri dishes. The intensity switch 50/100% on the transilluminator allows the change between preparative and analytic applications. The dark hood is equipped with an automatic UV shut-off when open the door. Inspecting the gels under UV light can be realised with the preparativ function. If requested, a UV protection shield can be used in the dark hood DH-40. The gel documentation systems Felix 1040/Felix 2040 are equipped with the powerful software packages argusX1® incl. the additional module User administration and Gelix One® 220 (1D analysis).



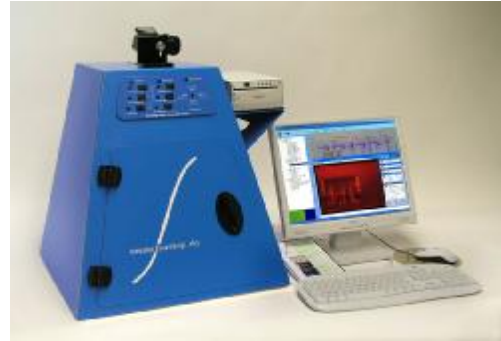


## Gel documentation

Product no. Product

142113-002 **GelDoc system Felix 1040 containing:**

Felix 1040 and Felix 2040 are comfortable documentation systems with various application possibilities as well as a complete control of the camera and the motorzoom objective. The equipment with UV transilluminator, white top-light and white light transmission (UV conversion screen) enables fluorescence and white light acquisitions, such as gels, films, blots and Petri dishes. The intensity switch 50/100% on the transilluminator allows the change between preparative and analytic applications. The dark hood is equipped with an automatic UV shut-off when open the door. Inspecting the gels under UV light can be realised with the preparativ function. If requested, a UV protection shield can be used in the dark hood DH-40. The gel documentation systems Felix 1040/Felix 2040 are equipped with the powerful software packages argusX1® incl. the additional module User administration and Gelix One® 220 (1D analysis).



142161-001 **GelDoc system Felix 6050 containing:**

The systems Felix 5050/6050/7050 are professional documentation and quantification systems, which distinguish in a highly comfortable handling, a great equipment and high-quality acquisitions. Due to the newly developed Super Contrast transilluminator, different fluorescence stains can be exposed with an improved proof sensitivity and a brilliant signal contrast - without changing the filter. The functionality of the dark hood DH-50 (roll-out table, UV protection shield) and of the transilluminator (intensity setting 10 - 100 %) allow a comfortable preparative work. The high resolution, the huge linear dynamic range and the excellent proof sensitivity are very advantageous for analytic applications. The software packages argusX1® incl. the additional modules User administration and GLP as well as Gelix One® 230 are part of the systems. If requested, the systems can be equipped with UV top-light in two wavelengths.





## Horizontal electrophoresis equipment

Product no. Product

### **PHERO-sub 0710 E**

The PHERO-sub 0710 E is the smallest unit in the range, designed for low to medium numbers of samples. The small gel size maximises run economy but does not compromise versatility as two tray options are available – 7 x 7cm and 7 x 10cm, and combs ranging from preparative up to 16 samples. Simply by altering the gel tray or comb, this compact unit is capable of resolving up to 64 different samples, prepping 1ml of sample or separating sample bands over a distance of 9cm.



Product no. Product

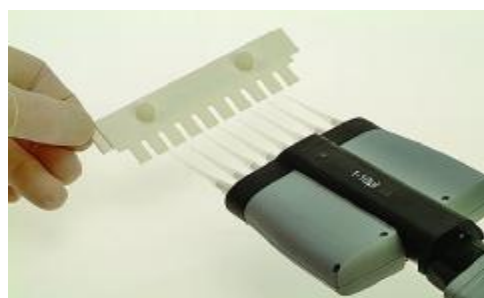
111100-001 PHERO-sub 0710-E, complete system incl.  
\* 1x gel tray 70x70 mm, UV transparent  
\* 1x casting dams (2 pcs.)  
\* 2x comb, 8 slots, 1.0mm  
\* Loading guides; Platform; Cable set

111100-002 PHERO-sub 0710-E, complete system incl.  
\* 1x gel tray 70x100 mm, UV transparent  
\* 1x casting dams (2 pcs.)  
\* 2x comb, 8 slots, 1.0mm  
\* Loading guides; Platform; Cable set

111100-003 PHERO-sub 0710-E, complete system incl.  
\* 1x gel tray 70x70 mm, UV transparent  
\* 1x gel tray 70x100mm, UV transparent  
\* 1x casting dams (2 pcs.)  
\* 2x comb, 8 slots, 1.0mm  
\* Loading guides; Platform; Cable set

### **Accessories**

Some combs are designed to be used together with a multipipette. This gives the advantage to apply a sum of samples into the slots in one process.



#### **Combs 0.75 mm**

111120-001 Comb, 0.75mm, prep., 1 slot, 1 marker  
111120-002 Comb, 0.75mm, prep., 2 slots, 2 marker  
111120-003 Comb, 0.75mm, prep., 4 slots, 2 marker  
111120-004 Comb, 0.75mm, 8 slots  
111120-005 Comb, 0.75mm, 8 slots, Multichannel pipette  
111120-006 Comb, 0.75mm, 10 slots  
111120-007 Comb, 0.75mm, 12 slots, Multichan. pipette  
111120-008 Comb, 0.75mm, 16 slots

## Horizontal electrophoresis equipment

Product no. Product

### Accessories

To distinguish between different thicknesses of combs we stained them in different colors. This optical aid prevents user for using wrong thicknesses of combs and saves casting unusable gels.



#### Combs 1.0 mm

- 111121-001 Comb, 1.0mm, prep., 1 slot, 1 marker
- 111121-002 Comb, 1.0mm, prep., 2 slots, 2 marker
- 111121-003 Comb, 1.0mm, prep., 4 slots, 2 marker
- 111121-004 Comb, 1.0mm, 8 slots
- 111121-005 Comb, 1.0mm, 8 slots, Multichan. pipette
- 111121-006 Comb, 1.0mm, 10 slots
- 111121-007 Comb, 1.0mm, 12 slots, Multichan. pipette
- 111121-008 Comb, 1.0mm, 16 slots

#### Combs 1.5 mm

- 111122-001 Comb, 1.5mm, prep., 1 slot, 1 marker
- 111122-002 Comb, 1.5mm, prep., 2 slots, 2 marker
- 111122-003 Comb, 1.5mm, prep., 4 slots, 2 marker
- 111122-004 Comb, 1.5mm, 8 slots
- 111122-005 Comb, 1.5mm, 8 slots, Multichannel pipette
- 111122-006 Comb, 1.5mm, 10 slots
- 111122-007 Comb, 1.5mm, 12 slots, Multichan. pipette
- 111122-008 Comb, 1.5mm, 16 slots

#### Combs 2.0 mm

- 111123-001 Comb, 2.0mm, prep., 1 slot, 1 marker
- 111123-002 Comb, 2.0mm, prep., 2 slots, 2 marker
- 111123-003 Comb, 2.0mm, prep., 4 slots, 2 marker
- 111123-004 Comb, 2.0mm, 8 slots
- 111123-005 Comb, 2.0mm, 8 slots, Multichannel pipette
- 111123-006 Comb, 2.0mm, 10 slots
- 111123-007 Comb, 2.0mm, 12 slots, Multichan. pipette
- 111123-008 Comb, 2.0mm, 16 slots

#### Gel trays

- 111130-001 Gel tray, 70x70mm
- 111131-001 Gel tray, 70x100mm

#### Casting tools

- 111140-001 Gel casting stand
- 111140-002 Casting dams (2 pcs.)
- 111140-003 Loading guides
- 111140-004 Viewing platform
- 111140-005 Gel scoop, 70mm

## Horizontal electrophoresis equipment

Product no. Product

### **PHERO-sub 1008 E**

The PHERO-sub 1008-E is a completely self contained system designed for quick checks of samples. Gel casting, running and analysis are all performed in the same ultra compact unit. Buffer and gel volumes have been kept to a minimum and the parallel electrode arrangement allows ultra efficient current transfer, enabling resolution to be completed within 30 minutes. The UV transparent base allows direct viewing on a UV Transilluminator with no need for time consuming transfer and potential gel damage. Dual comb slots allow the loading of up to 40 samples per gel while multichannel pipette compatible combs further enhance the speed and convenience.



Product no. Product  
111200-001 **PHERO-sub 1008-E, complete system incl.**

- \* 1x gel tray 100x80mm, UV transparent
- \* 1x casting dams (2 pcs.)
- \* 2x comb, 8 slots, 1.5mm
- \* Cable set

#### **Combs 1.0 mm**

- 111220-001 Comb, 1.0mm, prep., 1 slot, 1 marker
- 111220-002 Comb, 1.0mm, 4 slots
- 111220-003 Comb, 1.0mm, 8 slots
- 111220-004 Comb, 1.0mm, 12 slots
- 111220-005 Comb, 1.0mm, 16 slots
- 111220-006 Comb, 1.0mm, 20 slots, Multichan. pipette

#### **Combs 1.5 mm**

- 111221-001 Comb, 1.5mm, prep., 1 slot, 1 marker
- 111221-002 Comb, 1.5mm, 4 slots
- 111221-003 Comb, 1.5mm, 8 slots
- 111221-004 Comb, 1.5mm, 12 slots
- 111221-005 Comb, 1.5mm, 16 slots
- 111221-006 Comb, 1.5mm, 20 slots, Multichan. pipette



### **PHERO-sub 1010 E**

With gel tray options of 10 x 7cm and 10 x 10cm, the PHERO-sub 1010-E has been designed for routine horizontal gel electrophoresis. Extending only the width of this unit allows more samples to be resolved per gel than the PHERO-sub 0710-E without a significant increase in buffer or gel volumes. A maximum of 100 samples per gel can be resolved making this unit ideal for those routinely checking medium numbers of samples over short to medium gel run lengths.



## Horizontal electrophoresis equipment

Product no. Product

### **PHERO-sub 1010 E**

Product no. Product

111300-001 **PHERO-sub 1010-E, complete system incl.**

- \* 1x gel tray 100x70mm, UV transparent
- \* 1x casting dams (2 pcs.)
- \* 2x comb, 16 slots, 1.0mm
- \* Loading guides, Platform, Cable set

111300-002 **PHERO-sub 1010-E, complete system incl.**

- \* 1x gel tray 100x100mm, UV transparent
- \* 1x casting dams (2 pcs.)
- \* 2x comb, 16 slots, 1.0mm
- \* Loading guides, Platform, Cable set

111300-003 **PHERO-sub 1010-E, complete system incl.**

- \* 1x gel tray 100x70mm, UV transparent
- \* 1x gel tray 100x100mm, UV transparent
- \* 1x casting dams (2 pcs.)
- \* 2x comb, 16 slots, 1.0mm
- \* Loading guides, Platform, Cable set



### **Accessories**

#### **Combs 0.75 mm**

- 111320-001 Comb, 0.75mm, prep., 1 slot, 1 marker
- 111320-002 Comb, 0.75mm, prep., 2 slots, 2 marker
- 111320-003 Comb, 0.75mm, prep., 4 slots, 2 marker
- 111320-004 Comb, 0.75mm, 8 slots
- 111320-005 Comb, 0.75mm, 10 slots, Multichan. pipette
- 111320-006 Comb, 0.75mm, 12 slots
- 111320-007 Comb, 0.75mm, 16 slots
- 111320-008 Comb, 0.75mm, 20 slots, Multichan. pipette
- 111320-009 Comb, 0.75mm, 25 slots

#### **Combs 1.0 mm**

- 111321-001 Comb, 1.0mm, prep., 1 slot, 1 marker
- 111321-002 Comb, 1.0mm, prep., 2 slots, 2 marker
- 111321-003 Comb, 1.0mm, prep., 4 slots, 2 marker
- 111321-004 Comb, 1.0mm, 8 slots
- 111321-005 Comb, 1.0mm, 10 slots, Multichan. pipette
- 111321-006 Comb, 1.0mm, 12 slots
- 111321-007 Comb, 1.0mm, 16 slots
- 111321-008 Comb, 1.0mm, 20 slots, Multichan. pipette
- 111321-009 Comb, 1.0mm, 25 slots

#### **Combs 1.5 mm**

- 111322-001 Comb, 1.5mm, prep., 1 slot, 1 marker
- 111322-002 Comb, 1.5mm, prep., 2 slots, 2 marker
- 111322-003 Comb, 1.5mm, prep., 4 slots, 2 marker
- 111322-004 Comb, 1.5mm, 8 slots
- 111322-005 Comb, 1.5mm, 10 slots, Multichan. pipette
- 111322-006 Comb, 1.5mm, 12 slots
- 111322-007 Comb, 1.5mm, 16 slots
- 111322-008 Comb, 1.5mm, 20 slots, Multichan. pipette
- 111322-009 Comb, 1.5mm, 25 slots



## Horizontal electrophoresis equipment

### *PHERO-sub 1010 E*

Product no. Product

#### **Accessories**

##### **Combs 2.0 mm**

- 111323-001 Comb, 2.0mm, prep., 1 slot, 1 marker
- 111323-002 Comb, 2.0mm, prep., 2 slots, 2 marker
- 111323-003 Comb, 2.0 mm, prep., 4 slots, 2 Marker
- 111323-004 Comb, 2.0mm, 8 slots
- 111323-005 Comb,2.0mm,10 slots, Multichan. pipette
- 111323-006 Comb, 2.0mm, 12 slots
- 111323-007 Comb, 2.0mm, 16 slots
- 111323-008 Comb,2.0mm,20 slots, Multichan. pipette
- 111323-009 Comb, 2.0mm, 25 slots

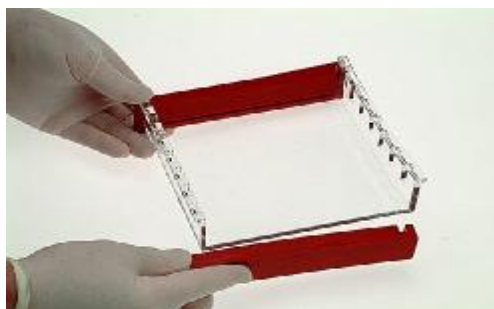


##### **Gel trays**

- 111330-001 Gel tray for PHERO-sub 1010-E, 100x70mm
- 111331-001 Gel tray for PHERO-sub 1010-E, 100x100mm

##### **Casting tools**

- 111340-001 Casting stand
- 111340-002 Casting dams (2 pcs.)
- 111340-003 Loading Guides
- 111340-004 Viewing Platform
- 111340-005 Gel scoop, 100mm



### *PHERO-sub 1515 E*

The PHERO-sub 1515-E offers a wide degree of versatility. Three tray options are available - 15 x 7cm, 15 x 10cm and 15 x 15cm - allowing the choice of one, two or all three gel length options at the time of purchase. Further purchases of additional accessories are no longer required. Maximising comb and tray options allow up to 210 samples to be resolved per gel. The 15cm total run length allows restriction fragment or other close MW sample bands to be easily separated and identified. Speed loading is accomplished using 10, 14, 16, 18, 28 and 30 sample multi-channel pipette compatible combs.



- 111400-001 **PHERO-sub 1515-E, complete system incl.**
  - \* 1x gel tray 150x70mm, UV transparent
  - \* 1x casting dams (2 pcs.)
  - \* 2x comb, 20 slots, 1.0mm
  - \* Loading guides, Platform, Cable set
- 111400-002 **PHERO-sub 1515-E, complete system incl.**
  - \* 1x gel tray 150x100mm, UV transparent
  - \* 1x casting dams (2 pcs.)
  - \* 2x comb, 20 slots, 1.0mm
  - \* Loading guides, Platform, Cable set
- 111400-003 **PHERO-sub 1515-E, complete system incl.**
  - \* 1x gel tray 150x150mm, UV transparent
  - \* 1x casting dams (2 pcs.)
  - \* 2x comb. 20 slots, 1.0mm
  - \* Loading guides, Platform, Cable set



## Horizontal electrophoresis equipment

Product no. Product

### PHERO-sub 1515 E

- 111400-004 **PHERO-sub 1515-E, complete system incl.**  
\* 3x UV Tray 150x70, 150x100, 150x150mm  
\* 1x casting dams (2 pcs.)  
\* 2x comb, 20 slots, 1.0mm  
\* Loading guides, Platform, Cable set



### Accessories

#### Combs 0.75 mm

- 111420-001 Comb, 0.75mm, prep., 1 slot, 1 marker  
111420-002 Comb, 0.75mm, prep., 2 slots, 2 marker  
111420-003 Comb, 0.75mm, prep., 4 slots, 2 marker  
111420-004 Comb, 0.75mm, 10 slots  
111420-005 Comb, 0.75mm, 12 slots  
111420-006 Comb, 0.75mm, 16 slots  
111420-007 Comb, 0.75mm, 20 slots  
111420-008 Comb, 0.75mm, 10 slots, Multichan. pipette  
111420-009 Comb, 0.75mm, 14 slots, Multichan. pipette  
111420-010 Comb, 0.75mm, 18 slots, Multichan. pipette  
111420-011 Comb, 0.75mm, 28 slots, Multichan. pipette  
111420-012 Comb, 0.75mm, 30 slots, Multichan. pipette  
111420-013 Comb, 0.75mm, 35 slots

#### Combs 1.0 mm

- 111421-001 Comb, 1.0mm, prep., 1 slot, 1 marker  
111421-002 Comb, 1.0mm, prep., 2 slots, 2 marker  
111421-003 Comb, 1.0mm, prep., 4 slots, 2 marker  
111421-004 Comb, 1.0mm, 10 slots  
111421-005 Comb, 1.0mm, 12 slots  
111421-006 Comb, 1.0mm, 16 slots  
111421-007 Comb, 1.0mm, 20 slots  
111421-008 Comb, 1.0mm, 10 slots, Multichan. pipette  
111421-009 Comb, 1.0mm, 14 slots, Multichan. pipette  
111421-010 Comb, 1.0mm, 18 slots, Multichan. pipette  
111421-011 Comb, 1.0mm, 28 slots, Multichan. pipette  
111421-012 Comb, 1.0mm, 30 slots, Multichan. pipette  
111421-013 Comb, 1.0mm, 35 slots

#### Combs 1.5 mm

- 111422-001 Comb, 1.5mm, prep., 1 slot, 1 marker  
111422-002 Comb, 1.5mm, prep., 2 slots, 2 marker  
111422-003 Comb, 1.5mm, prep., 4 slots, 2 marker  
111422-004 Comb, 1.5mm, 10 slots  
111422-005 Comb, 1.5mm, 12 slots  
111422-006 Comb, 1.5mm, 16 slots  
111422-007 Comb, 1.5mm, 20 slots  
111422-008 Comb, 1.5mm, 10 slots, Multichan. pipette  
111422-009 Comb, 1.5mm, 14 slots, Multichan. pipette  
111422-010 Comb, 1.5mm, 18 slots, Multichan. pipette  
111422-011 Comb, 1.5mm, 28 slots, Multichan. pipette  
111422-012 Comb, 1.5mm, 30 slots, Multichan. pipette  
111422-013 Comb, 1.5mm, 35 slots



## Horizontal electrophoresis equipment

Product no. Product

### PHERO-sub 1515 E

#### Combs 2.0 mm

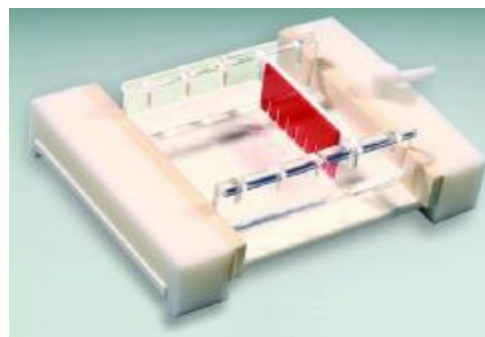
111423-001	Comb, 2.0mm, prep., 1 slot, 1 marker
111423-002	Comb, 2.0mm, prep., 2 slots, 2 marker
111423-003	Comb, 2.0mm, prep., 4 slots, 2 marker
111423-004	Comb, 2.0mm, 10 slots
111423-005	Comb, 2.0mm, 12 slots
111423-006	Comb, 2.0mm, 16 slots
111423-007	Comb, 2.0mm, 20 slots
111423-008	Comb, 2.0mm, 10 slots, Multichan. pipette
111423-009	Comb, 2.0mm, 14 slots, Multichan. pipette
111423-010	Comb, 2.0mm, 18 slots, Multichan. pipette
111423-011	Comb, 2.0mm, 28 slots, Multichan. pipette
111423-012	Comb, 2.0mm, 30 slots, Multichan. pipette
111423-013	Comb, 2.0mm, 35 slots

#### Gel trays

111430-001	Gel tray for PHERO-sub 1515-E, 150x70mm
111431-001	Gel tray for PHERO-sub 1515-E, 150x100mm
111432-001	Gel tray for PHERO-sub 1515-E, 150x150mm

#### Casting tools

111440-001	Casting stand
111440-002	Casting dams (2 pcs.)
111440-003	Loading guides
111440-004	Viewing platform
111440-005	Gel scoop, 150mm



### PHERO-sub 2020 E

The PHERO-sub 2020-E is primarily designed for resolution of high numbers of samples such as from Cloning or PCR. The PHERO-sub 2020-E allows ultra high-resolution separations over extended runs. Tray sizes correspond to standard blotter sizes. It also allows easy sample transfer onto a membrane for further analysis. Three tray sizes are available – 20 x 20cm, 20 x 25cm and a half-length 20 x 10cm. Multichannel pipette compatible combs up to 40 sample facilitate speed loading of up to 440 samples per gel. 50 sample combs allow maximum sample capacity of 550 samples per gel.



111500-001	<b>PHERO-sub 2020-E, complete system incl.</b> <ul style="list-style-type: none"><li>* 1x gel tray 200x100mm, UV transparent</li><li>* 1x casting dams (2 pcs.)</li><li>* 2x comb, 20 slots, 1.0mm</li><li>* Loading guides, Platform, Cable set</li></ul>
111500-002	<b>PHERO-sub 2020-E, complete system incl.</b> <ul style="list-style-type: none"><li>* 1x gel tray 200x200mm, UV transparent</li><li>* 1x casting dams (2 pcs.)</li><li>* 2x comb, 20 slots, 1.0mm</li><li>* Loading guides, Platform, Cable set</li></ul>



## Horizontal electrophoresis equipment

Product no. Product

### PHERO-sub 2020 E

111500-003 **PHERO-sub 2020-E, complete system incl.**

- \* 1x gel tray 200x100mm, UV transparent
- \* 1x gel tray 200x200mm, UV transparent
- \* 1x casting dams (2 pcs.)
- \* 2x comb, 20 slots, 1.0mm
- \* Loading guides, Platform, Cable set

111500-004 **PHERO-sub 2020-E, complete system incl.**

- \* 1x gel tray 200x250mm, UV transparent
- \* 1x casting dams (2 pcs.)
- \* 2x comb, 20 slots, 1.0mm
- \* Loading guides, platform, Cable set



### Accessories

#### Combs 0.75 mm

- 111520-001 Comb, 0.75mm, prep., 1 slot, 1 marker
- 111520-002 Comb, 0.75mm, prep., 2 slots, 2 marker
- 111520-003 Comb, 0.75mm, prep., 4 slots, 2 marker
- 111520-004 Comb, 0.75mm, 10 slots
- 111520-005 Comb, 0.75mm, 16 slots
- 111520-006 Comb, 0.75mm, 20 slots, Multichan. pipette
- 111520-007 Comb, 0.75mm, 25 slots
- 111520-008 Comb, 0.75mm, 30 slots
- 111520-009 Comb, 0.75mm, 36 slots
- 111520-010 Comb, 0.75mm, 40 slots, Multichan. pipette
- 111520-011 Comb, 0.75mm, 50 slots

#### Combs 1.0 mm

- 111521-001 Comb, 1.0mm, prep., 1 slot, 1 marker
- 111521-002 Comb, 1.0mm, prep., 2 slots, 2 marker
- 111521-003 Comb, 1.0mm, prep., 4 slots, 2 marker
- 111521-004 Comb, 1.0mm, 10 slots
- 111521-005 Comb, 1.0mm, 16 slots
- 111521-006 Comb, 1.0mm, 20 slots, Multichan. pipette
- 111521-007 Comb, 1.0mm, 25 slots
- 111521-008 Comb, 1.0mm, 30 slots
- 111521-009 Comb, 1.0mm, 36 slots
- 111521-010 Comb, 1.0mm, 40 slots, Multichan. pipette
- 111521-011 Comb, 1.0mm, 50 slots

#### Combs 1.5 mm

- 111522-001 Comb, 1.5mm, prep., 1 slot, 1 marker
- 111522-002 Comb, 1.5mm, prep., 2 slots, 2 marker
- 111522-003 Comb, 1.5mm, prep., 4 slots, 2 marker
- 111522-004 Comb, 1.5mm, 10 slots
- 111522-005 Comb, 1.5mm, 16 slots
- 111522-006 Comb, 1.5mm, 20 slots, Multichan. pipette
- 111522-007 Comb, 1.5mm, 25 slots
- 111522-008 Comb, 1.5mm, 30 slots
- 111522-009 Comb, 1.5mm, 36 slots
- 111522-010 Comb, 1.5mm, 40 slots, Multichan. pipette
- 111522-011 Comb, 1.5mm, 50 slots



## Horizontal electrophoresis equipment

Product no. Product

### *PHERO-sub 2020 E*

#### **Combs 2.0 mm**

- 111523-001 Comb, 2.0mm, prep., 1 slot, 1 marker
- 111523-002 Comb, 2.0mm, prep., 2 slots, 2 marker
- 111523-003 Comb, 2.0mm, prep., 4 slots, 2 marker
- 111523-004 Comb, 2.0mm, 10 slots
- 111523-005 Comb, 2.0mm, 16 slots
- 111523-006 Comb, 2.0mm, 20 slots, Multichan. pipette
- 111523-007 Comb, 2.0mm, 25 slots
- 111523-008 Comb, 2.0mm, 30 slots
- 111523-009 Comb, 2.0mm, 36 slots
- 111523-010 Comb, 2.0mm, 40 slots, Multichan. pipette
- 111523-011 Comb, 2.0mm, 50 slots



#### **Gel trays**

- 111530-001 Gel tray for PHERO-sub 2020-E, 200x100mm
- 111531-001 Gel tray for PHERO-sub 2020-E, 200x200mm
- 111532-001 Gel tray for PHERO-sub 2020-E, 200x250mm



#### **Casting tools**

- 111540-001 Casting stand
- 111540-002 Casting dams (2 pcs.)
- 111540-003 Loading Guides
- 111540-004 Viewing Platform
- 111540-005 Gel scoop, 200mm

### *PHERO-sub 2632 E*

Designed for rapid screening of very large numbers of Clonal or PCR samples, the PHERO-sub 2632-E horizontal gel unit has a 672 maximum sample capacity per gel. This allows loading and analysis of exactly seven 96 well format micro titre plates. The large gel run length of 32cm also allows resolution of samples over a long distance for separation of complex sample bands such as in restriction fragment analysis. The unit is available with a full length tray or with other tray length options of 16 or 24cm so that the user's exact requirements can be matched. In addition to options for single length gel trays, PHERO-sub 2632-E is available with all three gel tray lengths to provide the maximum in flexibility, versatility and value. Buffer recirculation ports are included as standard to allow enhanced resolution over extended runs while loading guides enhance well visibility for easy sample loading.



- 111600-001 **PHERO-sub 2632-E, complete system incl.**
  - \* 1x gel tray 260x160mm, UV transparent
  - \* 6x comb, 28 slots, 1.0mm
  - \* Loading guides, Platform, Cable set

## Horizontal electrophoresis equipment

Product no. Product

### PHERO-sub 2632 E

- 111600-002 **PHERO-sub 2632-E, complete system incl.**  
\* 1x gel tray 260x240mm, UV transparent  
\* 6x comb, 28 slots, 1.0mm  
\* Loading guides, Platform, Cable set
- 111600-003 **PHERO-sub 2632-E, complete system incl.**  
\* 1x gel tray 260x320mm, UV transparent  
\* 6x comb, 28 slots, 1.0mm  
\* Loading guides, Platform, Cable set
- 111600-004 **PHERO-sub 2632-E, complete system incl.**  
\* 1x gel tray 260x160mm, UV transparent  
\* 1x gel tray 260x240mm, UV transparent  
\* 1x gel tray 260x320mm, UV transparent  
\* 6x comb, 28 slots, 1.0mm  
\* Loading guides, Platform, Cable set



### Accessories

- Combs 0.75 mm**
- 111620-001 Comb,0.75mm,28 slots, Multichan. pipette  
111620-002 Comb,0.75mm,56 slots, Multichan. pipette

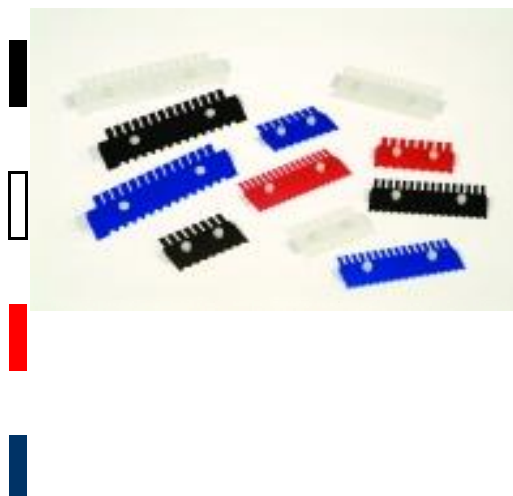
- Combs 1.0 mm**
- 111621-001 Comb,1.0mm,28 slots, Multichan. pipette  
111621-002 Comb,1.0mm,56 slots, Multichan. pipette

- Combs 1.5 mm**
- 111622-001 Comb,1.5mm,28 slots, Multichan. pipette  
111622-002 Comb,1.5mm,56 slots, Multichan. pipette

- Combs 2.0 mm**
- 111623-001 Comb,2.0mm,28 slots, Multichan. pipette  
111623-002 Comb,2.0mm,56 slots, Multichan. pipette

- Gel trays**
- 111630-001 Gel tray for PHERO-sub 2632-E, 260x160mm  
111631-001 Gel tray for PHERO-sub 2632-E, 260x240mm  
111632-001 Gel tray for PHERO-sub 2632-E, 260x320mm

- Casting tools**
- 111640-001 Casting stand  
111640-003 Loading Guides  
111640-004 Viewing Platform  
111640-005 Gel scoop, 260mm



## Vertical electrophoresis systems

Product no. Product

### **PHERO-vert 1010 E**

The preferred unit for routine mini protein electrophoresis, the PHERO-vert 1010-E is constructed using the latest injection moulding manufacturing techniques. This gives a high quality, low cost product with unsurpassed finish, durability and strength. The unit incorporates a sealing system which is compatible with all major types of 8 x 10cm and 10 x 10cm precast gel. Gel casting and running utilise the same insert, no transfer of glass plates during gel casting is necessary. The insert contains the option of sliding clamps or just one screw per clamping bar side allowing very rapid set up of both hand cast and precast gels. Ultra soft silicone seals and pressure bars which surround the glass plates guarantee leak proof gel casting. 2mm thick glass plates prevent breakage and have bonded spacers for convenience. Accessory electroblotting and tube gel modules are available which use the same outer tank and lid.



- 113100-001 **PHERO-vert 1010-E; complete system incl.**  
\* 1x notched glass plates (2pcs.)  
\* 1x glass plate w. spacers, 1.0mm(2pcs)  
\* 1x dummy plate  
\* 2x comb, 12 slots, 1.0mm
- 113100-002 **PHERO-vert 1010-E, complete system incl.**  
\* 1x notched glass plates (2pcs.)  
\* 1x glass plate w. spacers, 1.0mm(2pcs)  
\* 2x comb, 12 slots, 1.0mm  
\* 1x blotting insert; 1x dummy plate  
\* 3x blotting cassettes; 6x fibre pads
- 113100-003 **PHERO-vert 1010-E, complete system incl.**  
\* 1x notched glass plates (2pcs.)  
\* 1x glass plate w. spacers, 1.0m(2pcs.)  
\* 1x dummy plate  
\* 2x comb, 12 slots, 1.0mm  
\* 1x 2D insert
- 113100-004 **PHERO-vert 1010-E, complete system incl.**  
\* 1x notched glass plate (2pcs.)  
\* 1x glass plate w. spacers, 1.0mm(2pcs.)  
\* 2x comb, 12 slots, 1.0mm; 1x dummy plate  
\* 1x blotting insert; 1x 2D insert  
\* 3x blotting cassettes, 6 x fibre pads

## Vertical electrophoresis systems

Product no. Product

### Accessories

#### Combs 0.5 mm

113120-001	Comb, 0.5mm, prep., 1 slot, 1 marker
113120-002	Comb, 0.5mm, 5 slots
113120-003	Comb, 0.5mm, 8 slots, Multichan. pipette
113120-004	Comb, 0.5mm, 9 slots
113120-005	Comb, 0.5mm, 10 slots
113120-006	Comb, 0.5mm, 12 slots
113120-007	Comb, 0.5mm, 16 slots, Multichan. pipette
113120-008	Comb, 0.5mm, 20 slots



#### Combs 0.75 mm

113121-001	Comb, 0.75mm, prep., 1 slot, 1 marker
113121-002	Comb, 0.75mm, 5 slots
113121-003	Comb, 0.75mm, 8 slots, Multichan. pipette
113121-004	Comb, 0.75mm, 9 slots
113121-005	Comb, 0.75mm, 10 slots
113121-006	Comb, 0.75mm, 12 slots
113121-007	Comb, 0.75mm, 16 slots, Multichan. pipette
113121-008	Comb, 0.75mm, 20 slots

#### Combs 1.0 mm

113122-001	Comb, 1.0mm, prep., 1 slot, 1 marker
113122-002	Comb, 1.0mm, 5 slots
113122-003	Comb, 1.0mm, 8 slots, Multichan. pipette
113122-004	Comb, 1.0mm, 9 slots
113122-005	Comb, 1.0mm, 10 slots
113122-006	Comb, 1.0mm, 12 slots
113122-007	Comb, 1.0mm, 16 slots, Multichan. pipette
113122-008	Comb, 1.0mm, 20 slots

#### Combs 1.5 mm

113123-001	Comb, 1.5mm, prep., 1 slot, 1 marker
113123-002	Comb, 1.5mm, 5 slots
113123-003	Comb, 1.5mm, 8 slots, Multichan. pipette
113123-004	Comb, 1.5mm, 9 slots
113123-005	Comb, 1.5mm, 10 slots
113123-006	Comb, 1.5mm, 12 slots
113123-007	Comb, 1.5mm, 16 slots, Multichan. pipette
113123-008	Comb, 1.5mm, 20 slots

#### Combs 2.0 mm

113124-001	Comb, 2.0mm, prep., 1 slot, 1 marker
113124-002	Comb, 2.0mm, 5 slots
113124-003	Comb, 2.0mm, 8 slots, Multichan. pipette
113124-004	Comb, 2.0mm, 9 slots
113124-005	Comb, 2.0mm, 10 slots
113124-006	Comb, 2.0mm, 12 slots
113124-007	Comb, 2.0mm, 16 slots, Multichan. pipette
113124-008	Comb, 2.0mm, 20 slots

## Vertical electrophoresis systems

Product no. Product

### Accessories

#### Spacer

- 113130-001 Spacer 0.5mm, 100mm, (2 pcs.)
- 113131-001 Spacer 0.75mm, 100mm, (2 pcs.)
- 113132-001 Spacer 1.0mm, 100mm, (2 pcs.)
- 113133-001 Spacer 1.5mm, 100mm, (2 pcs.)
- 113134-001 Spacer 2.0mm, 100mm, (2 pcs.)

#### Glass plates

- 113140-001 Glass plate, 2.0mm, (2 pcs.)
- 113140-002 Glass plate w. spacers, 0.5mm,(2 pcs.)
- 113140-003 Glass plate w. spacers,0.75mm, (2 pcs.)
- 113140-004 Glass plate w. spacers, 1.0mm, (2 pcs.)
- 113140-005 Glass plate w. spacers, 1.5mm, (2 pcs.)
- 113140-006 Glass plate w. spacers, 2.0mm, (2 pcs.)
- 113140-007 Dummy plate

#### Notched glass plates

- 113141-001 Notched glass plate, 2.0mm, (2 pcs.)
- 113141-002 Notched plate w. spacers, 0.5mm,(2 pcs.)
- 113141-003 Notched plate w. spacers, 0.75mm,(2pcs.)
- 113141-004 Notched plate w. spacers, 1.0mm, (2pcs.)
- 113141-005 Notched plate w. spacers, 1.5mm, (2pcs.)
- 113141-006 Notched plate w. spacers, 2.0mm, (2pcs.)

#### Casting tools

- 113152-001 casting stand
- 113152-002 casting stand for 6 gels
- 113152-003 casting stand for 12 gels
- 113152-004 casting stand for 24 gels
- 113190-001 Replacement rubber for casting stand

#### Blotting insert

- 113170-001 Blotting insert, incl.:
  - \* 3x blotting cassettes
  - \* 6x fibre pads
- 113170-002 Blotting cassette
- 113170-003 fibre pads (6 pcs.)

#### Capillary insert

- 113180-001 Capillary insert, incl.
  - \* 10x glass tubes
  - \* 10x caps
- 113180-002 Glass tubes for capillary insert (10pcs)
- 113180-003 Caps for capillary insert (10 pcs.)



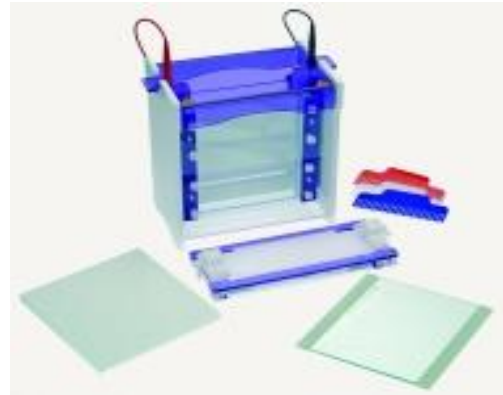


## Vertical electrophoresis systems

Product no. Product

### PHERO-vert 2020 E

The preferred unit for maxi protein electrophoresis, the PHERO-vert 2020-E unit combines convenient ease of use features with high resolution separations. Simple set up using ultra soft silicone seals guarantees trouble free glass plate loading and gel casting. Dual gaskets on the gel running insert along with notched and plain glass plates ensure leak proof gel running. Rapid set up cooling retains resolution in extended separations and also saves on buffer volume without affecting run quality. 4mm thick glass plates reduce breakage and have bonded spacers for added convenience. A wide range of accessories is available allowing many techniques to be performed using the same unit. Prep combs can be used to maximize sample loading and recovery. Accessory electroblotting and tube gel modules are available which use the same outer tank and lid.



113200-001 **PHERO-vert 2020-E; complete system incl.**

- \* 1x notched glass plates (2pcs.)
- \* 1x glass plate w. spacers, 1.0mm(2pcs.)
- \* 1x dummy plate
- \* 2x comb, 24 slots, 1.0mm

113200-002 **PHERO-vert 2020-E; complete system incl.**

- \* 1x notched glass plate (2pcs.)
- \* 1x glass plate w. spacers, 1.0m(2pcs.)
- \* 2x comb, 24 slots, 1.0mm
- \* 1x blotting insert; 1x dummy plate
- \* 3x blotting cassettes; 6x fibre pads

113200-003 **PHERO-vert 2020-E; complete system incl.**

- \* 1x notched glass plates (2pcs.)
- \* 1x glass plate w. spacers, 1.0m(2pcs.)
- \* 1x dummy-plate
- \* 2x comb, 24 slots, 1.0mm
- \* 1x capillary insert

113200-004 **PHERO-vert 2020-E, complete system incl.**

- \* 1x notched glass plate (2pcs.)
- \* 1x glass plate w. spacers, 1.0mm(2pcs.)
- \* 2x comb; 24 slots, 1.0mm; 1x dummy plate
- \* 1x blotting insert; 1x capil. insert
- \* 3x blotting cassettes; 6x fibre pads



### Accessories

#### Combs 0.75 mm

- 113220-001 Comb, 0.75mm, prep., 1 slot, 1 marker
- 113220-002 Comb, 0.75mm, 5 slots
- 113220-003 Comb, 0.75mm, 10 slots
- 113220-004 Comb, 0.75mm, 18 slots, Multichan. pipette
- 113220-005 Comb, 0.75mm, 24 slots
- 113220-006 Comb, 0.75mm, 30 slots
- 113220-007 Comb, 0.75mm, 36 slots, Multichan. pipette
- 113220-008 Comb, 0.75mm, 48 slots



## Vertical electrophoresis systems

Product no. Product

### Accessories

#### Combs 1.0 mm

- 113221-001 Comb, 1.0mm, prep., 1 slot, 1 marker
- 113221-002 Comb, 1.0mm, 5 slots
- 113221-003 Comb, 1.0mm, 10 slots
- 113221-004 Comb, 1.0mm, 18 slots, Multichan. pipette
- 113221-005 Comb, 1.0mm, 24 slots
- 113221-006 Comb, 1.0mm, 30 slots
- 113221-007 Comb, 1.0mm, 36 slots, Multichan. pipette
- 113221-008 Comb, 1.0mm, 48 slots



#### Combs 1.5 mm

- 113222-001 Comb, 1.5mm, prep., 1 slot, 1 marker
- 113222-002 Comb, 1.5mm, 5 slots
- 113222-003 Comb, 1.5mm, 10 slots
- 113222-004 Comb, 1.5mm, 18 slots, Multichan. pipette
- 113222-005 Comb, 1.5mm, 24 slots
- 113222-006 Comb, 1.5mm, 30 slots
- 113222-007 Comb, 1.5mm, 36 slots, Multichan. pipette
- 113222-008 Comb, 1.5mm, 48 slots

#### Combs 2.0 mm

- 113223-001 Comb, 2.0mm, prep., 1 slot, 1 marker
- 113223-002 Comb, 2.0mm, 5 slots
- 113223-003 Comb, 2.0mm, 10 slots
- 113223-004 Comb, 2.0mm, 18 slots, Multichan. pipette
- 113223-005 Comb, 2.0mm, 24 slots
- 113223-006 Comb, 2.0mm, 30 slots
- 113223-007 Comb, 2.0mm, 36 slots, Multichan. pipette
- 113223-008 Comb, 2.0mm, 48 slots

#### Spacer

- 113230-001 Spacer 0.75mm, 200 mm (2 pcs.)
- 113231-001 Spacer 1.0mm, 200mm, (2 pcs.)
- 113232-001 Spacer 1.5mm, 200mm (2 pcs.)
- 113233-001 Spacer 2.0mm, 200 mm, (2 pcs.)

#### Glass plates

- 113240-001 Glass plates, 4.0mm (2 pcs.)
- 113240-002 Glass plates w. spacers, 0.75mm, (2 pcs.)
- 113240-003 Glass plates w. spacers, 1.0mm, (2 pcs.)
- 113240-004 Glass plates w. spacers, 1.5mm, (2 pcs.)
- 113240-005 Glass plates w. spacers, 2.0mm, (2 pcs.)
- 113240-006 Dummy plate

#### Notched glass plates

- 113241-001 Notched glass plate, 4.0mm, (2pcs.)

#### Casting tools

- 113252-001 casting stand
- 113252-002 Replacement rubber for casting stand

#### Blotting insert

- 113270-001 Blotting insert, incl.:
  - \* 3x Blotting cassette
  - \* 6x fibre pads
- 113270-002 Blotting cassette
- 113270-003 fibre pads (6 pcs.)

## Vertical electrophoresis systems

Product no. Product

### Accessories

#### Capillary insert

- 113280-001 Capillary insert, incl. :
  - \* 10x glass tubes
  - \* 10x caps
- 113280-002 Glass tubes f. capillary insert (10pcs.)
- 113280-003 Caps for capillary insert (10 pcs.)

### PHERO-seq 2050 E

Ideal for a variety of large format vertical gel applications, these units offer advanced features for enhancing gel resolution and ease of use, essential when handling gels of this size. Each unit contains ultra soft silicone seals for easy plate sealing and trouble free runs, even over extended run times. Resolution is enhanced by using an aluminium heat sink plate, essential for even sample migration. Added convenience is provided by a removable lower buffer tank and upper buffer drainage tap. Special buffer chambers allow either low buffer volumes to be used for economy or high buffer volumes to be used for extended runs. A wide range of interchangeable comb and spacer options allows a large number of techniques to be easily accomplished including; DNA Sequencing, 2-D analysis, Micro-satellite analysis, DNA fingerprinting, Gel shift assays, Single-Strand Conformation Polymorphism (SSCP), Heteroduplex and Oligonucleotide analysis.



- 114100-001 **PHERO-seq 2050-E, complete system incl.**
  - \* 1x notched glass plate
  - \* 1x plain glass plate w. spacers, 0.35mm
  - \* 1x comb, 24 slots, 0.35mm, shark tooth

### Accessories

#### Combs 0.25 mm

- 114120-001 Comb, 0.25mm, 24 slots, shark tooth
- 114120-002 Comb, 0.25mm, 48 slots, shark tooth

#### Combs 0.35 mm

- 114121-001 Comb, 0.35mm, 24 slots, shark tooth
- 114121-002 Comb, 0.35mm, 48 slots, shark tooth

#### Combs 1.0 mm

- 114122-001 Comb, 1.0mm, 24 slots
- 114122-002 Comb, 1.0mm, 48 slots

#### Combs 1.5 mm

- 114123-001 Comb, 1.5mm, 24 slots
- 114123-002 Comb, 1.5mm, 48 slots

#### Spacer 0.25 mm

- 114130-001 Spacer, 0.25mm (2 pcs.)

## Vertical electrophoresis systems

Product no. Product

### Accessories

114131-001 **Spacer 0.35 mm**  
Spacer, 0.35mm (2 pcs.)

114132-001 **Spacer 1.0 mm**  
Spacer, 1.0mm (2 pcs.)

114133-001 **Spacer 1.5 mm**  
Spacer, 1.5mm (2 pcs.)

114140-001 **Glass plates**  
Notched glass plate, 200x500mm (2 pcs.)  
114140-002 Glass plate, 200x500mm, (2 pcs.)

### PHERO-seq 3345 E

114200-001 **PHERO-seq 3345-E, complete system incl.**  
\* 1x notched glass plate  
\* 1x plain glass plate w. spacers, 0.35mm  
\* 1x comb, 48 slots, 0.35mm, shark tooth



### Accessories

114220-001 **Combs 0.25 mm**  
Comb, 0.25mm, 48 slots, shark tooth  
114220-002 Comb, 0.25mm, 96 slots, shark tooth

114221-001 **Combs 0.35 mm**  
Comb, 0.35mm, 48 slots, shark tooth  
114221-002 Comb, 0.35mm, 96 slots, shark tooth

114222-001 **Combs 1.0 mm**  
Comb, 1.0mm, 48 slots  
114222-002 Comb, 1.0mm, 80 slots

114223-001 **Combs 1.5 mm**  
Comb, 1.5mm, 48 slots  
114223-002 Comb, 1.5mm, 80 slots

114230-001 **Spacer 0.25 mm**  
Spacer, 0.25mm (2 pcs.)

114231-001 **Spacer 0.35 mm**  
Spacer, 0.35mm (2 pcs.)

114232-001 **Spacer 1.0 mm**  
Spacer, 1.0mm (2 pcs.)

114233-001 **Spacer 1.5 mm**  
Spacer, 1.5mm (2 pcs.)

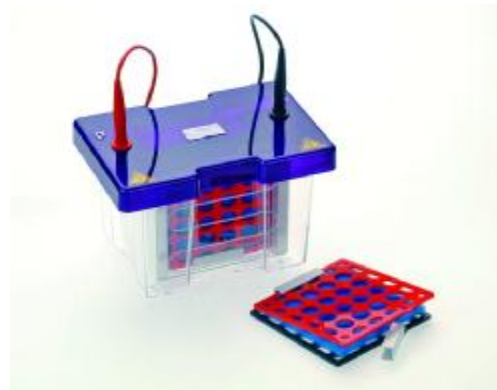
114240-001 **Glass plates**  
Notched glass plate, 330x450mm, (2 pcs.)  
114240-002 Glass plate, 330x450mm (2 pcs.)

## Blotting systems

Product no. Product

### ***PHERO-blot 1010 E***

Designed primarily for wet electroblotting of proteins, TankSub Electroblotters offer a combination of increased capacity with economy saving features. Both units, PHERO-blot 1010-E and PHERO-blot 2020-E, have increased capacity over standard systems with up to five gel blot cassettes utilised at any one time. This is especially useful in high throughput laboratories. A uniform electric field is provided by a high intensity coiled electrode and ensures uniform transfer across the blot surface. The cassette's open architecture ensures the maximum blot area allows direct transfer of current. Its rigid construction ensures contact between the gel and membrane is retained throughout the blot and an even pressure is maintained. These units are compatible with magnetic stirrers to aid heat dispersal and prevent pH drifts in the buffer due to incomplete buffer mixing. Each system includes a cooling pack to further enhance transfer efficiency by removing excess heat. This also saves on buffer for added economy.



115100-001 **PHERO-blot 1010-E, complete system incl.**

- \* 5x cassettes
- \* 2x fibre pads (6 pcs)
- \* 1x cooling pack

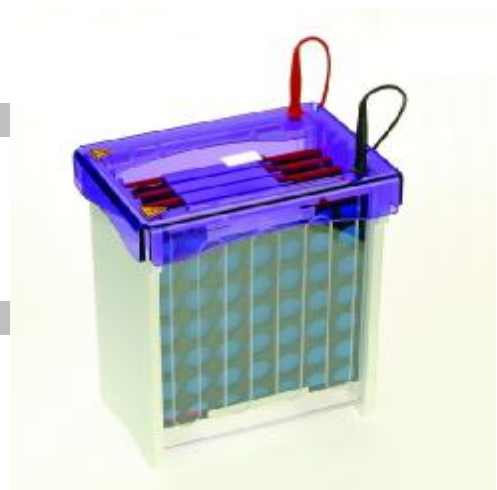
#### ***Accessories***

- 115170-001 Cassette incl. fibre pads  
115170-002 PHERO-blot 1010-E, Cassette  
115170-003 Fibre pads (6 pcs.)

### ***PHERO-blot 2020 E***

115200-001 **PHERO-blot 2020-E, complete system incl.**

- \* 5x cassettes
- \* 2x fibre pads (6 pcs)
- \* 1x cooling pack



#### ***Accessories***

- 115270-001 Cassette incl. fibre pads  
115270-002 PHERO-blot 2020-E, Cassette  
115270-003 Fibre pads, (6 pcs.)

## Blotting systems

Product no. Product

These PHERO-mul Semi Dry Blotters offer rapid transfer times for DNA, RNA and protein blotting - typically 15 to 30 minutes. All units can be used for all types of blotting: western, southern and northern via uncomplicated buffer and set up procedures and are compatible with gel thicknesses from 0.25 up to 10mm without the need for additional equipment. Each unit is compatible with their respective PHERO-vert vertical gel system. Semi Dry Blotting has the added benefit of economic transfers due to very low buffer volumes – typically only a few millilitres of buffer are required per transfer. These PHERO-mul Semi-Dry Blotters utilise a screw down lid, which secures the blot sandwich and allows complete control of pressure ensuring even transfer. The electrodes, comprising platinum coated anode and stainless steel cathode, will exhibit practically no corrosion and so provide many years of trouble free use. Uniform heat dispersion across the blot sandwich ensures stable transfer times and no heat induced sample loss or transfer distortions.



### ***PHERO-multiblot 1010 E***

116100-001 PHERO-multiblot 1010-E

### ***PHERO-multiblot 2020 E***

116200-001 PHERO-multiblot 2020-E

### ***PHERO-multiblot 2050 E***

116300-001 PHERO-multiblot 2050-E

### ***PHERO-multiblot 3345 E***

116400-001 PHERO-multiblot 3345-E

## Electrophoresis power supplies

Product no. Product

### Consort EV Serie ( 230 VAC )

131200-001	PHEROstab EV243,400V,300mA,50W(230VAC)
131200-002	Power supply EV231, 300V, 1000mA, 150W
131200-003	Power supply EV265, 600V, 500mA, 150W
131200-004	Power supply EV202, 300V, 2000mA, 300W
131200-005	Power supply EV261, 600V, 1000mA, 300W
131200-006	Power supply EV215, 1200V, 500mA, 300W
131200-007	Power supply EV232, 3000V, 150mA, 150W
131200-008	Power supply EV233, 3000V, 300mA, 300W
131200-009	Power supply EV262, 6000V, 150mA, 300W



### Consort EV Serie ( 115 VAC )

131210-001	PHEROstab EV243\$,400V,300mA,150W(115VAC)
131210-002	Power supply EV231\$, 300V, 1000mA, 150W
131210-003	Power supply EV265\$, 600V, 500mA, 150W
131210-004	Power supply EV202\$, 300V, 2000mA, 300W
131210-005	Power supply EV261\$, 600V, 1000mA, 300W
131210-006	Power supply EV215\$, 1200V, 500mA, 300W
131210-007	Power supply EV232\$, 3000V, 150mA, 150W
131210-008	Power supply EV233\$, 3000V, 300mA, 300W
131210-009	Power supply EV262\$, 6000V, 150mA, 300W

## Gradient mixers

127110-001	Gradient mixer PHERO-grad 005, 2x 5ml
127120-001	Gradient mixer PHERO-grad 010, 2x 10ml
127130-001	Gradient mixer PHERO-grad 020, 2x 20ml
127140-001	Gradient mixer PHERO-grad 040, 2x 40ml
127150-001	Gradient mixer PHERO-grad 100, 2x 100ml
127160-001	Gradient mixer PHERO-grad 500, 2x 500ml
127170-001	Gradient mixer PHERO-grad 1000,2x 1000ml



## Shaker

135100-001	PHERO-shaker mini, 29x19cm, 1.5V
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## Vacuum Centrifuge

Product no. Product

136100-001 PHERO-spin Vacuum Centrifuge



## Gel Dryer

Product no. Product

132120-001 Gel dryer, PHERO-temp 40, 40x40cm

132130-001 Gel dryer, PHERO-temp 60, 40x60cm



## Vacuum Pumps

139010-001 Vacuum pump, CLAB 232

139020-001 Vacuum pump, N8403FT



## UV-Transilluminators

Product no. Product

### **Spectroline L Standard ( 365 nm)**

- 151201-001 Spectroline TS-365R, 15x15cm Filter 15W
- 151201-002 Spectroline TC-365R, 20x20cm Filter 15W
- 151201-003 Spectroline TR-365R, 23x33cm Filter 15W
- 151201-004 Spectroline TL-365R, 20x40cm Filter 15W



### **Spectroline M Standard ( 312 nm)**

- 151202-001 Spectroline TS-312R, 15x15cm Filter 15W
- 151202-002 Spectroline TC-312R, 20x20cm Filter 15W
- 151202-003 Spectroline TR-312R, 15x36cm Filter 15W
- 151202-004 Spectroline TL-312R, 20x40cm Filter 15W

### **Spectroline S Standard ( 254 nm)**

- 151203-001 Spectroline TS-254R, 15x15cm Filter 15W
- 151203-002 Spectroline TC-254R, 20x20cm Filter 15W
- 151203-003 Spectroline TR-254R, 15x36cm Filter 15W
- 151203-004 Spectroline TL-254R, 20x40cm Filter 15W

### **Spectroline V Serie**

- 151205-001 Spectroline TVC-312R, 20x20cm, Filter variable intensity
- 151205-002 Spectroline TVR-312R, 15x36cm, Filter variable intensity
- 151205-003 Spectroline TVL-312R, 20x40cm, Filter variable intensity



### **Spare Parts**

#### **Spare Tubes**

- 151250-001 Replacement tube, 365nm, 15W
- 151250-002 Replacement tube, 312nm, 15W
- 151250-003 Replacement tube, 254nm, 15W
- 151250-004 Replacement tube, white light, 15W

#### **UV-Blocking lid**

- 151251-001 Spectroline UV-Blocking Cover for Select (1 wavelength) + Slimline
- 151251-002 Spectroline UV-Blocking Cover for Standard

#### **UV Diffusions Filter**

- 151251-003 Spectroline UV-Filterprotector for Select (1 wavelength) + Slimline
- 151251-004 Spectroline UV-Filterprotector for Standard

## UV-Transilluminators

Product no. Product

### **Spectroline Slim-Line Serie**

- 151211-001 Slimline TE-365S, 11x14cm Filter 8W
- 151212-001 Slimline TE-312S, 11x14cm Filter 8W
- 151213-001 Slimline TE-254S, 11x14cm Filter 8W

### **Spectroline Select Serie**

- 151222-001 Select TS-312E, 15x15cm Filter 8W
- 151222-002 Select TC-312E, 20x20cm Filter 8W
- 151222-003 Select TI-312E, 21x26cm Filter 8W

### **Spectroline Select Dual ( 365/254 nm )**

- 151231-001 Select TD-2020E, 20x20cm Filter 8W  
365/254nm
- 151231-002 Select TD-2120E, 21x26cm Filter 8W  
365/254nm

### **Spectroline Select Dual ( 365/312 nm )**

- 151232-001 Select TD-2000E, 20x20cm Filter 8W  
312/365nm
- 151232-002 Select TD-2100E, 21x26cm Filter 8W  
312/365nm

### **Spectroline Select Dual ( 312/254 nm )**

- 151233-001 Select TD-2010E, 20x20cm Filter 8W  
312/254nm
- 151233-002 Select TD-2110E, 21x26cm Filter 8W  
312/254nm



## UV-Hand lamps

Product no. Product

### **Spectroline EN Serie ( 365 nm )**

152201-001	EN-140L, 1x4Watt BL, 365nm, Filter Assembly
152201-002	EN-160L, 1x6Watt BL, 365nm, Filter Assembly
152201-004	EN-180L, 1x8Watt BL, 365nm, Filter Assembly
152201-005	EN-280L, 2x8Watt BL, 365nm, Filter Assembly

### **Spectroline EB Serie ( 312 nm )**

152202-002	EB-160C, 1x6Watt BL, 312nm, Filter Assembly
152202-004	EB-180C, 1x8Watt BL, 312nm, Filter Assembly
152202-005	EB-280C, 2x8Watt BL, 312nm, Filter Assembly

### **Spectroline EF Serie ( 254 nm )**

152203-001	EF-140C, 1x4Watt BL, 254nm, Filter Assembly
152203-002	EF-160C, 1x6Watt BL, 254nm, Filter Assembly
152203-003	EF-260C, 2x6Watt BL, 254nm, Filter Assembly
152203-004	EF-180C, 1x8Watt BL, 254nm, Filter Assembly
152203-005	EF-280C, 2x8Watt BL, 254nm, Filter Assembly

### **Spectroline ENF Serie ( 365 / 254 nm )**

152204-001	ENF-240C, 1x254nm, 1x365nm, 4 W, Filter Ass.
152204-002	ENF-260C, 1x254nm, 1x365nm, 6 W, Filter Ass.
152204-003	ENF-280C, 1x254nm, 1x365nm, 8 W, Filter Ass.

### **Spectroline EBF Serie ( 312 / 254 nm )**

152205-002	EBF-260C, 1x254nm, 1x312nm, 6 W, Filter Ass.
152205-003	EBF-280C, 1x254nm, 1x312nm, 8 W, Filter Ass.

### **Spectroline ENB Serie ( 365 / 312 nm )**

152206-002	ENB-260C, 1x365nm, 1x312nm, 6 W, Filter Ass.
152206-003	ENB-280C, 1x365nm, 1x312nm, 8 W, Filter Ass.

### **Spare Parts**

152251-001	Replacement tube BL 365nm, 4W
152251-002	Replacement tube BL 365nm, 6W
152251-003	Replacement tube BL 365nm, 8W
152252-002	Replacement tube 312nm, 6W
152252-003	Replacement tube 312nm, 8W
152253-001	Replacement tube 254nm, 4W
152253-002	Replacement tube 254nm, 6W
152253-003	Replacement tube 254nm, 8W



## UV-Bench lamps

Product no. Product

### UV\_Bench Lamps X-Series

152261-001	UV-lamp X15A,1x365nm,15 W,BLB Tube
152261-002	UV-lamp X15N,1x365nm,15W,BL Tube+Filter
152261-003	UV-lamp X30,1x365nm,30 W,BLB Tube
152261-004	UV-lamp X40,1x365nm,40 W,BLB Tube
152262-001	UV-lamp X15B,1x312nm,15W,BL Tube+Filter
152263-001	UV-lamp X15G,1x254nm,15 W,BLB Tube
152263-002	UV-lamp X15F,1x254nm,15 W,BL Tube+Filter
152263-003	UV-lamp X30G,1x254nm,30 W,BLB Tube



### UV\_Bench Lamps XX-Series

152271-001	UV-lamp XX15A,2x365nm,15 W,BLB Tube
152271-002	UV-lamp XX15N,2x365nm,15W,BL Tube+Filter
152271-003	UV-lamp XX40,2x365nm,40 W,BLB Tube
152271-004	UV-lamp XX40N,2x365nm,40W,BL Tube+Filter
152272-001	UV-lamp XX15B,2x312nm,15W,BL Tube+Filt.
152273-001	UV-lamp XX15F,2x254nm,15W,BL Tube+Filter
152273-002	UV-lamp XX15G,2x254nm,15 W,BLB Tube
152274-001	XX15NF,1x365nm,1x254nm,15W,BL Tube+Filt.
152275-001	XX15NB,1x365nm,1x312nm,15W,BL Tube+Filt.
152276-001	XX15BF,1x312nm,1x254nm,15W,BL Tube+Filt.



## UV-Dark rooms

### UV-Darkroom CM-Series

153210-001	CM-24, incl. ENF-240C hand lamp
153210-002	CM-26, incl. ENF-260C hand lamp



### UV-Darkroom CX-Series

153220-001	CX20, w. int. 365nm/254nm/white light,8W
153220-002	CX21, w. int. 365nm/254nm/white light,8W
153220-003	CX50,w.int.365nm/254nm/white light,XX-S.
153220-004	CX50N, w.int. 365nm/white light,XX-Serie
153220-005	CX50B, w.int. 312nm/white light,XX-Serie
153220-006	CX50F, w.int. 254nm/white light,XX-Serie



## UV-Crosslinker

Product no. Product

### Spectrolinker

- 154201-001 Spectrolinker XL-1000A, 5x8W, 365nm
- 154202-001 Spectrolinker XL-1000B, 5x8W, 312nm
- 154203-001 Spectrolinker XL-1000, 5x8W, 254nm



### Spectrolinker SELECT Series

- 154211-001 Spectrolinker XLE-1000A, 5x8W, 365nm
- 154212-001 Spectrolinker XLE-1000B, 5x8W, 312nm
- 154213-001 Spectrolinker XLE-1000, 5x8W, 254nm



### Spare Parts

- 154251-001 Spectrolinker Replacement tube 312nm, 8W
- 154252-001 Spectrolinker Replacement tube 365nm, 8W
- 154253-001 Spectrolinker Replacement tube 254nm, 8W

## UV-Protections

- 155200-001 UV Face shield, UVF-80
- 155210-001 UV eye goggles, UVS-30



## Daylight Transilluminators

### PHERO-lux

- 134100-001 Transilluminator PHERO-lux 20, 25x20cm
- 134100-002 Transilluminator PHERO-lux 30, 26x43cm
- 134100-003 Transilluminator PHERO-lux 40, 36x43cm
- 134100-004 Transilluminator PHERO-lux 60, 36x58cm
- 134100-005 Transilluminator PHERO-lux 120, 36x119cm

### Spare Parts

- 134500-001 Repl. tube w. special silver strip, 8W
- 134500-002 Repl. tube w. special silver strip, 15W
- 134500-003 Repl. tube w. special silver strip, 18W
- 134500-004 Repl. tube w. special silver strip, 36W



## Autoradiography products

Product no. Product

### **FOURSQUARE Cassettes ( stainless steel )**

- 137100-001 FOUR SQUARE cassette, 13x18cm
- 137100-002 FOUR SQUARE cassette, 20x25cm
- 137100-003 FOUR SQUARE cassette, 35x43cm
- 137100-004 FOUR SQUARE cassette, 35x91cm



### **VALUE Cassettes ( plastics )**

- 137110-001 VALUE cassette, 13x18cm
- 137110-002 VALUE cassette, 20x25cm
- 137110-003 VALUE cassette, 35x43cm



### **Intensifying screens**

- 137200-001 L-PLUS intensifying screen, 13x18cm
- 137200-002 L-PLUS intensifying screen, 20x25cm
- 137200-003 L-PLUS intensifying screen, 35x43cm
- 137200-004 L-PLUS intensifying screen, 35x91cm