

# AUTOCLAVES AND STERILIZATION

VWR



# FIELD-KOCH

PORTABLE FIELD AUTOCLAVE CAPACITY 23 LITRES



## “FIELD-KOCH” FIELD VERTICAL AUTOCLAVE

cylindrical chamber, single wall - die-cast alloy structure - max. operating pressure 1 atm (121 °C) - pressure gauge - automatic valve - automatic pressure regulator valve - safety valve - lid locking system - chamber dimensions: Ø 310x295 h mm - overall outside dimensions: Ø 440x380 h mm - weight 4.5 kg.

This model is ideal for field use, where handling and independent power source become essential features. “Field-Koch” may be used with any heat source, even the naked flame. The “Mediumbox” basket is used in “Field-Koch”.



## “MEDIUMBOX” BASKET

- Made of stainless steel
- With transporting handle
- Dimension: Ø 280x260 h mm



### WHAT TO ORDER

**39160** “Field-Koch” Field Vertical Autoclave - cap. 23 litres

### Accessories

**16123** “Mediumbox” basket - S/S sheet with handle - dim. Ø 280x260 h mm



# TIMO - TIMO PRINT

BENCH TOP VERTICAL AUTOCLAVE CAPACITY 23 LITRES

## "TIMO" - BENCH TOP VERTICAL AUTOCLAVE

ABS insulated lid

PT 100 accurate thermoprobe

According to "PED"  
European Standard

Automatic  
sterilization program

EC Marked

Maximum operating pres-  
sure: 1 ATM

Horizontal lid closure with blocking  
system

Maximum operating  
temperature: 121 °C

INOX Aisi 304 outer structure  
easy to clean and  
sanitize

Pressure gauge for  
pressure control

Aluminum sterilization  
chamber dim.:  
Ø 310x290 mm

Friendly  
instruction panel  
according to GLP

Overall dim.:  
Ø 470x580 h mm

Power supply:  
220 V; 50 Hz; 1300 W;  
(110 V on request)

Automatic thermoregulation  
controlled by a microprocessor

Mechanical lid safety closing

Portable unit

Main switch and electronic  
microprocessor with digital  
display of temperature and  
sterilization time

IQ/OQ/PQ manuals available  
on request

Reinforced heating element

INOX basket to be  
ordered separately

Weight: 13,250 kg

Automatic air valve, electronic temperature control,  
electronic cut off system

# TIMO -TIMO PRINT

BENCH TOP VERTICAL AUTOCLAVE CAPACITY 23 LITRES



## “TIMO PRINT” BENCH TOP VERTICAL AUTOCLAVE

Control panel **with printer** according to GLP

### Printed details:

- Date
- User's name (to be filled by hand)
- Batch No
- Temperature
- Progressive cycle No
- Programmable printing frequency: 10 sec. - 99 minutes



## “MEDIUMBOX” BASKET

- Made of stainless steel
- With transporting handle
- Dimension: Ø 280x260 h mm



### WHAT TO ORDER

**88944** “Timo” bench top vertical autoclave

**88957** “Timo-Print” bench top vertical autoclave with printer

### Accessories

**16123** “Mediumbox” basket - S/S sheet with handle - dim. Ø 280x260 h mm

# BETA EASY-LOCK

## AUTOCLAVES

### PBI AUTOCLAVES IN MORE THAN 100 COUNTRIES

#### RELIABILITY

High resistance to perforating corrosion.  
Outside structure and inside pressure vessel manufactured from mirror finished AISI 304 stainless steel for easy cleaning and sanitizing.

#### OVER NIGHT CYCLE

Is it possible to delay the cycle start.

#### EASY CLOSURE

"Easy-Lock" system to be used with a single hand.

#### SAFETY

"ABS" insulating cover with vertical position lock.

#### TRACEABILITY

Printer  
(on request).

#### FRIENDLY USE

User friendly instruction panel according to GLP.

#### FLEXIBILITY

Two models with 25 and 50 litres volume.  
Vertical loading to maximize usable vessel space.  
Up to seven personal passwords protected programs.

#### CERTIFICATION

Conforms to PED Directive.  
CE marked.  
Special fitting for certified thermo-probe to perform validation.

#### WORKING

#### TEMPERATURE/PRESSURE

Up to 134 °C (2.1 atm).

#### F<sub>0</sub> FUNCTION

Ideal to protect the thermosensitive products.  
Only for 50 litres models.



#### "3 R" FOR A GREEN ENVIRONMENT

- **R**educed energy
- **R**e-cyclable material
- **R**e-usable components





# BETA EASY-LOCK

AUTOCLAVES



## 4 GOOD REASONS TO CHOOSE THE “BETA” AUTOCLAVE MODEL

### GOOD LABORATORY PRACTICE

- Special fitting for insertion of certified thermo-probe to perform validation
- I.Q., O.Q., P.Q documentation available on request
- “Data Print” printer (optional)
  1. Date, lot number, cycle progressive number, temperature
  2. Interval time programming during sterilization cycle

### SAFETY AND ERGONOMY

- “ABS” insulating cover conforms to safety regulations
- “Easy-Lock” closure to be operated with just one hand
- Safety lid lock to avoid accidental closure
- Safety thermostat for low level water control on Beta 25
- Water sensor on Beta 50



*one hand “Easy Lock” closure*

### AUTOMATIC THERMOREGULATION

- Up to 7 automatic and personal sterilization cycles
- Friendly user program panel
- End-cycle acoustic signal
- Programmed temperature, real temperature, and sterilization time visual presentation
- Cycle start can be delayed

### RELIABILITY

- Outside structure and inside pressure vessel manufactured from mirror-finished AISI 304 stainless steel for easy cleaning and sanitizing
- Robust AISI 304 Stainless steel basket
- Reinforced heating element











*safety lid lock to avoid casual closure*

# BETA EASY-LOCK

AUTOCLAVES



MODEL	BETA 25	BETA 50
Volume	25 litres	50 litres
Vessel dimensions	Ø 250x450 h mm	Ø 320x600 h mm
External dimensions	550x540x1005 h mm	550x570x1005 h mm
Programs	5 personal programs	7 personal programs
Thermo-probe	Fixed PT100	Flexible PT100
Max pressure	2.1 atm (134 °C)	2.1 atm (134 °C)
Power supply	220 V (50 Hz) - 1700 W	380 V triphase (50 Hz) - 3700 W
Weight	45 kg	60 kg
Loading solutions: number and types of baskets	<b>A</b> 1 Macrobox (cod. 5422)	2 Betabox 50 (cod. 48850)
	<b>B</b> 2 Minibox (cod. 5421)	1 Betabox (cod. 89213) 1 Betabox-Mini (cod. 89214)
	<b>C</b> -	3 Betabox-Mini (cod. 89214)

Loading examples	500 ml bottles	1000 ml bottles	2000 ml bottles	2000 ml flasks
<b>BETA 25*</b> basket diameter d24 cm				
<b>BETA 50*</b> basket diameter d31 cm				

\* check the height of the load to stack the baskets



## WHAT TO ORDER

### Autoclave Beta 25 Easy-Lock

**91225** autoclave "Beta 25 Easy-Lock" - vol. 25 litres - 10 years warranty against corrosion perforation

#### Accessories

**5422** "Macrobox" basket - ext. dim. Ø 24x42 cm - stainless steel AISI 304 - MAX one basket loading

**5421** "Minibox" basket - ext. dim. Ø 24x21 cm - stainless steel AISI 304 - MAX two baskets loading

### Autoclave Beta 50 Easy-Lock

**91382** autoclave "Beta 50 Easy-Lock" - vol. 50 litres - 10 years warranty against corrosion perforation

#### Accessories

**48850** "Betabox 50" basket - ext. dim. Ø 31x28,5 cm - stainless steel AISI 304 - MAX two baskets loading

**89213** "Betabox" basket - ext. dim. Ø 31x38 cm - stainless steel AISI 304 - MAX one basket loading

**89214** "Betabox-Mini" basket - ext. dim. Ø 31x19 cm - stainless steel AISI 304 - MAX two baskets loading

#### Accessories for all models

**78383** "Data-Print" printer

#### Documentation

*IQ, OQ, PQ documentation available on request*



# AUTOCLAVES

## SERIES



Portable field autoclave "Field-Koch"



Bench top autoclave "Timo"



Bench top autoclave "Timo Print"



Automatic autoclave "Beta 25 Easy-Lock" Automatic autoclave "Beta 50 Easy-Lock"



Model	Field-Koch	Timo	Timo-Print	Beta 25	Beta 50
Code	39160	88944	88957	91225	91382
Capacity	23 litres	23 litres	23 litres	25 litres	50 litres
Mode	manual	automatic	automatic	automatic	automatic
Type	bench top	bench top	bench top	vertical	vertical
Printer	no	no	standard	optional	optional
Thermo-Probe	no	PT 100	PT 100	PT 100	flexible PT 100
T-Max (°C)	121	121	121	134	134
Max Pressure	1 atm	1 atm	1 atm	2.1 atm	2.1 atm
Insulated Lid	no	yes	yes	yes	yes
Warranty (years)	1	1	1	10*	10*

\* Only on pressure vessel

# BAGS FOR AUTOCLAVE STERILISATION

## AUTOCLAVABLE BAGS



### “STERILBAG” & “STERILBAG INDICATOR” AUTOCLAVABLE BAGS

- made of plastic material suitable for autoclave sterilisation
- resistant to 134 °C in autoclave
- these bags are ideal for autoclaving polystyrene containers and other items contaminated by pathogenic agents (Petri dishes, microtiter plates, pipettes, bottles, tubes, etc.)
- they can be use for realising and preserving sterile conditions
- available with sterilisation test stripes included
- instructions printed on the bag

### “BIOBAG” & “BIOBAG INDICATOR” AUTOCLAVABLE BAGS

- made of plastic material suitable for autoclave sterilisation
  - resistant to 121 °C in autoclave
- these bags are ideal for autoclaving polystyrene containers and other items contaminated by pathogenic agents (Petri dishes, microtiter plates, pipettes, bottles, tubes, etc.)
- they can be use for realising and preserving sterile conditions
  - available with sterilisation test stripes included
  - instructions printed on the bag



### “DRYBAG” AUTOCLAVABLE BAGS

- made of plastic material suitable for autoclave and oven sterilisation
- resistant to 134 °C in autoclave, 160 °C in oven
- these bags are ideal for autoclaving polystyrene containers and other items contaminated by pathogenic agents (Petri dishes, microtiter plates, pipettes, bottles, tubes, etc.)
- they can be use for realising and preserving sterile conditions
- instructions printed on the bag

# BAGS FOR AUTOCLAVE STERILISATION

AUTOCLAVABLE BAGS



## “WILD-WASTER” WASTE SACK HOLDER

- made of powder coated metal
- clamping ring for security sacks
- plastic lid
- dimensions 540x470x1060 h mm
- suitable for Drybag 60, Sterilbag 60, Sterilbag Indicator 60, Biobag 60, Biobag Indicator 60



## “FORBICE” WASTE TROLLEY

- made of chromium-plated tubular steel
- supplied with wheels and bag holding ring
- folding pantograph system to resolve space problems when not utilized
  - overall dimensions (open) 500x500x1100 h mm
- suitable for Sterilbag 60, Sterilbag Indicator 60, Biobag 60, Biobag Indicator 60



## “WASTE-HOLE” WASTE COLLECTOR

- floor waste collector made of stainless steel, oval section, clamping ring for security sacks and biohazard risk logo
- capacity 40 litres
- dim. diameter 300x680 mm
- suitable for Drybag 30, Sterilbag 30, Sterilbag Indicator 30, Biobag 30, Biobag Indicator 30





# BAGS FOR AUTOCLAVE STERILISATION

AUTOCLAVABLE BAGS



## “OSHA” WASTE BIN

- made of light alloy metal, autoclavable
- supplied with lid
- dimensions: diameter 183x250 h mm
- suitable for Drybag 30, Sterilbag 30, Sterilbag Indicator 30, Biobag 30, Biobag Indicator 30

## AUTOCLAVABLE BAG INSTRUCTION

- the bag have to remain open during the sterilisation and it have to be only partly filled to ensure the steam penetration
- avoid contact between the bag and the heating element
- not use over the suggested temperature
- chemical sterilisation indicator shows if the material was sterilised or not but it can't be use to validate the thermal treatment



### WHAT TO ORDER

<b>8330</b>	"Sterilbag" Autoclavable Bag - type 30 - dim. 300x500 h mm - resistant to 134 °C	500/box
<b>8331</b>	"Sterilbag" Autoclavable Bag - type 60 - dim. 600x780 h mm - resistant to 134 °C	500/box
<b>15338*</b>	"Sterilbag Indicator" Autoclavable Bag - type 30 - dim. 300x500 h mm - resistant to 134 °C	500/box
<b>15339*</b>	"Sterilbag Indicator" Autoclavable Bag - type 60 - dim. 600x700 h mm - resistant to 134 °C	500/box
<b>7847</b>	"Biobag" Autoclavable Bag - type 30 - dim. 300x500 h mm - resistant to 121 °C	500/box
<b>7848</b>	"Biobag" Autoclavable Bag - type 60 - dim. 600x780 h mm - resistant to 121 °C	500/box
<b>15473*</b>	"Biobag Indicator" Autoclavable Bag - type 30 - dim. 300x500 h mm - resistant to 121 °C	500/box
<b>15474*</b>	"Biobag Indicator" Autoclavable Bag - type 60 - dim. 600x700 h mm - resistant to 121 °C	500/box
<b>6227</b>	"Drybag" Autoclavable Bag - type 30 - dim. 300x500 h mm - resistant to: 134 °C (autoclave), 160 °C (oven)	500/box
<b>11971</b>	"Drybag" Autoclavable Bag - type 40 - dim. 400x780 h mm - resistant to: 134 °C (autoclave), 160 °C (oven)	500/box
<b>6228</b>	"Drybag" Autoclavable Bag - type 60 - dim. 600x780 h mm - resistant to: 134 °C (autoclave), 160 °C (oven)	500/box
<b>11972</b>	"Drybag" Autoclavable Bag - type 70 - dim. 700x1100 h mm - resistant to: 134 °C (autoclave), 160 °C (oven)	350/box
<b>89376</b>	"Wild-Waster" Waste Sack Holder - dim. 540x470x1060 h mm	1/box
<b>89403</b>	"Waste-Hole" Waste Collector - dim. diam. 300x680 h mm	1/box
<b>5242</b>	"Osha" Waste Bin - dim. diam. 183x250 h mm	1/box
<b>12258</b>	"Forbice" Waste Trolley with lid - dim. 500x500x1100 h mm	1/box
<b>6545</b>	"Forbice" Waste Trolley - dim. 500x500x1100 h mm	1/box

\* sterilisation test stripes included

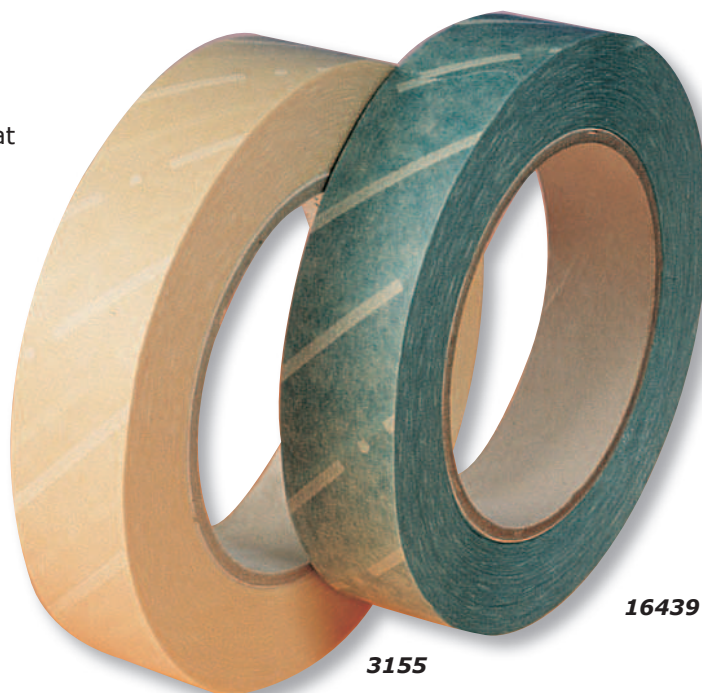
# PRESS

## CHEMICAL STERILIZATION INDICATOR

chemical sterilization indicator tape to verify that the items were submitted to sterilization cycle

self-adhesive, easy to use

ideal to check routine laboratory steam, dry-heat sterilization



**BEFORE**



**AFTER**



TYPE OF STERILIZATION	CODE	BEFORE STERILIZATION	AFTER STERILIZATION
steam	<b>3155</b>	white strip	brown (when steam saturation is reached)
dry-heat	<b>16439</b>	pale green V	brown V (after 30 min at 155 °C)



### WHAT TO ORDER

**3155** "Press" chemical sterilization indicator - for steam sterilization - dim. 19 mm x 50 m

**16439** "Press" chemical sterilization indicator - for dry-heat sterilization - dim. 19 mm x 50 m



6 rolls/box

6 rolls/box

### Accessories

**18966** "Press-Stand" dispenser for "Press" tape

1/box

# TORPEDO

## DEODORIZING CAPSULES

To reduce bad smell formation during autoclaving. These capsules have been specially developed to minimize or remove nauseating smells which are produced during autoclave sterilization of organic material. Insert one capsule into the autoclave, without breaking it off.



### WHAT TO ORDER

**25998** "Torpedo" deodorizing capsules

200/box



# BRAVO-FLAM DIGIT & FLAMMY

AUTONOMOUS BUNSEN BURNERS IDEAL FOR FIELD AND UNDER CABINET USE. THEY DON'T NEED PERMANENT POWER OR GAS SUPPLY.



## “BRAVO-FLAM DIGIT” SAFETY BUNSEN BURNER

**WITH INFRARED SENSOR - IDEAL UNDER CABINET AND ON THE WORKBENCH**

- safety bunsen burner with infrared sensor for lighting the flame
- portable
- option for making the unit fully autonomous using a rechargeable battery and a gas can; alternatively it can operate connected to the domestic supply of electricity and gas
- pilot flame not required
- overheating safety device
- three operation modes:
  - 1) with pedal control (optional)
  - 2) continuous operation
  - 3) with infrared sensor control
- complete with connector for 10 mm dia. town gas pipe and with extra nozzles for propane/butane and natural gas
- dimensions: 70x180x90 h mm
- power supply: 240 V, 50/60 Hz. 7.2 V rechargeable battery (optional)
- weight: 1.2 kg

## “FLAMMY” PORTABLE BUNSEN

**LITTLE DIMENSIONS - IDEAL BOTH FOR FIELD AND LAB USE**

- electronic switch on
- adjustable flame
- highest temperature of the flame 1300 °C
- rechargeable gas can
- capacity of the can 35 g
- working autonomy 60 minutes
- dimensions: 115x79x92 h mm
- weight: 440 g



BRAVO-FLAM DIGIT & FLAMMY

AUTONOMOUS BUNSEN BURNERS



91702 "Bravo-Flam Digit" bunsen burner

29092 - butane gas can 52 g



91703 adapter for gas cartridge 52 g



87331 - "Flammy" bunsen burner



87897 - butane gas can 42 g



WHAT TO ORDER

87331	"Flammy" bunsen burner	1/pz
<i>Accessories</i>		
87897	butane gas can - capacity 42 g	4/pz
91702	"Bravo-Flam Digit" safety bunsen burner - included battery charger and rechargeable battery	1/pz
<i>Accessories (for autonomous use)</i>		
29092	butane gas can 52 g	6/pz
91703	adapter for 52 g gas cartridge (optional)	1/pz
91705	rechargeable battery	1/pz
29007	foot switch	1/pz