Professional sterilization systems

Newmed

Professional sterilization systems

Newmed was created to satisfy the needs of customers who demand safety, reliability and simplicity all in one sterilization instrument. And thanks to experience, technology and research, we have been able to achieve this objective.

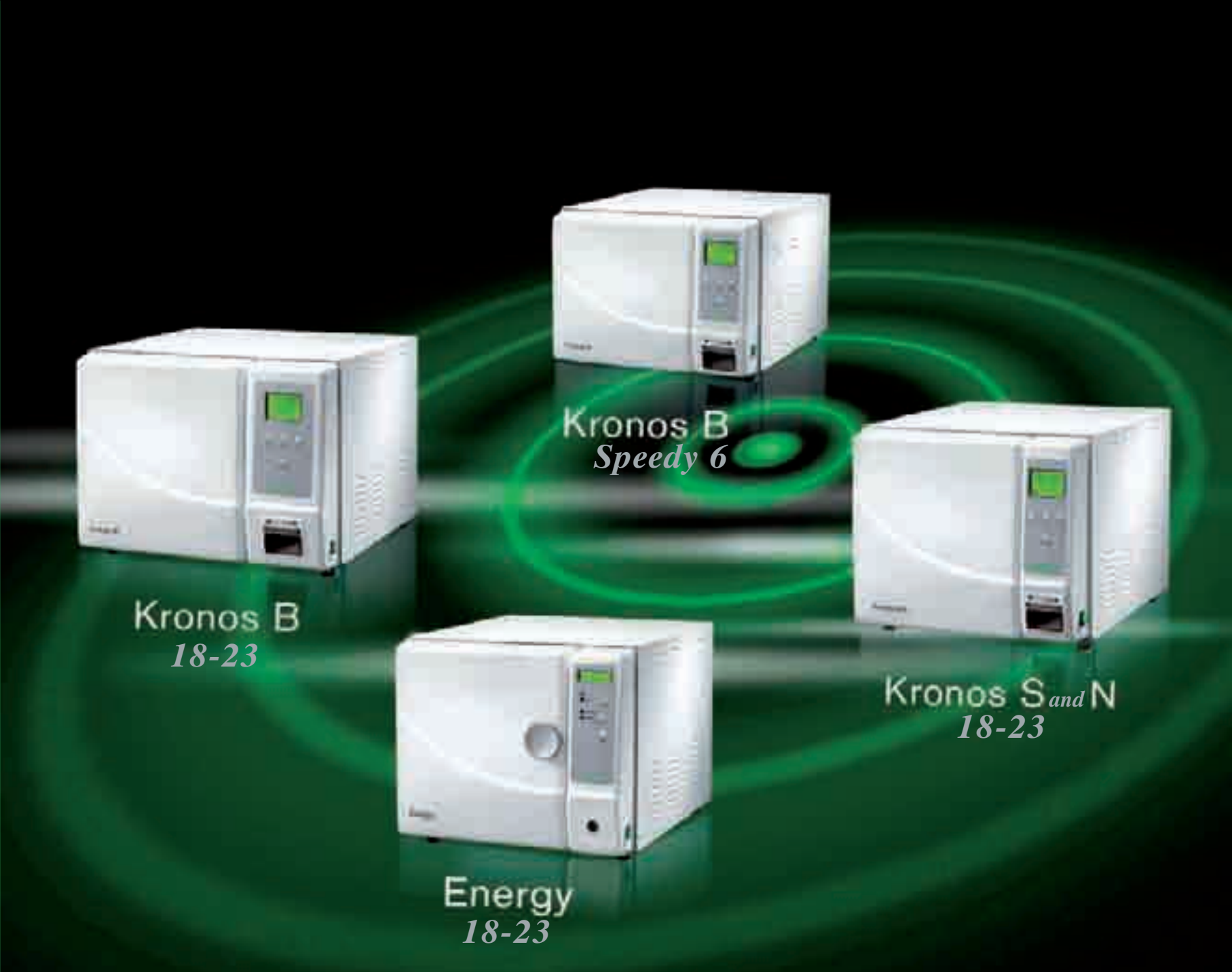
Nowadays NEWMED is a company certified ISO 9001 and UNI EN ISO 13485.


Newmed

IT IS JUST A QUESTION OF TIME...

MODELS

KRONOS B 18 - 23
KRONOS B Speedy 6
KRONOS S 18 - 23
KRONOS N 18 - 23
ENERGY 18 - 23
NUBYRA 6



Kronos Autoclaves

fast sterilization

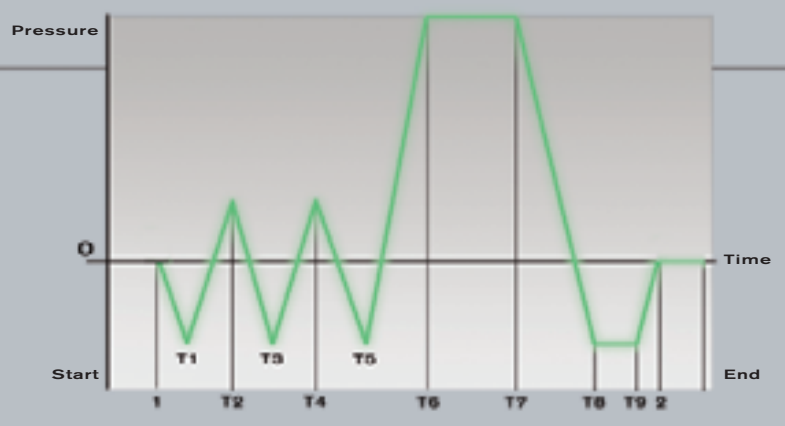
Newmed

Kronos B
18-23

Fractionated Vacuum

Using a high-performance Double-stage Vacuum pump

COMPLETE GRAPHIC CYCLE KRONOS B



KRONOS B 18-23

STERLIZABLE PRODUCTS

SOLID INSTRUMENTS

HOLLOW INSTRUMENTS

WRAPPED INSTRUMENTS

POROUS LOADS

Kronos B

18-23

Standards EN-13060

Motor-operated closure
with triple-protection, guarantees a total safety, greater ease of handling and a reliable self-regulation of the hatch.

Instantaneous Vaporizer
outside the chamber allows higher sterilization speeds and reduces water consumption.

Thermal printer
installed on board the machine to allow complete recording of the sterilization cycle.
Ensures the user greater cycle control and easy archiving.

Multi-language graphic display
makes it easier for the operator to select the sterilization cycles, continuous control over the cycle phases and gives graphic indication of the errors committed by the operator.

Connection to STS-Data logger system
It is possible to store the data on a PC.

Stainless steel chamber
Made of thick one-piece moulded steel.

Connection to Demineralization System

FEATURES	ADVANTAGES
Motor-operated closure	+ ergonomics
Instantaneous vaporizer	+ speed - consumption
Standard printer	+ control
Loading with self-priming pump	+ practical
Graphic display	+ easier
Latest Software	+ process self-control
Possibility of connection to data logger	+ archiving
Provision for connection to demineralizer and direct dirty water drainage	+ handy
Electronic drying in vacuum	+ safety
Double loading tank and water drainage	+ hygiene
Moulded stainless steel one-piece chamber	- porous
Memory Test System	+ diagnostics
3-cycles Test	+ safety
Bowie and Dick Helix Test Vacuum Test	

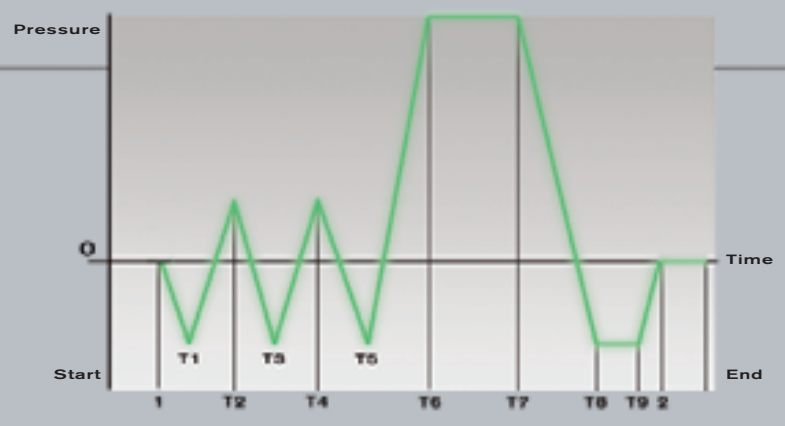
Kronos B
Speedy 6

The fastest sterilization process

Fractionated vacuum

With high-performance Double-stage pump

COMPLETE GRAPHIC CYCLE KRONOS B Speedy



KRONOS B *Speedy 6*

STERILIZABLE PRODUCTS

SOLID INSTRUMENTS

HOLLOW INSTRUMENTS

WRAPPED INSTRUMENTS

POROUS LOADS

Standards EN-13060

Motor-operated closure
with triple-protection, guarantees a total safety, greater ease of handling and a reliable self-regulation of the hatch.

Instantaneous Vaporizer
outside the chamber allows higher sterilization speeds and reduces water consumption

Thermal printer
installed on board the machine to allow complete recording of the sterilization cycle.
Ensures the user greater cycle control and easy archiving.

Multi-language graphic display
makes it easier for the operator to select the sterilization cycles, continuous control over the cycle phases and gives graphic indication of the errors committed by the operator.

Connection to STS-Data logger system
It is possible to store the data on a PC.

Thick Aluminium chamber
for faster sterilization cycle

FEATURES	ADVANTAGES
Motor-operated closure	+ ergonomics
Instantaneous vaporizer	+ speed - consumption
Standard printer	+ control
Loading with self-priming pump	+ practical
Graphic display	+ easier
Latest Software	+ aprocess self-control
Possibility of connection to data logger	+ archiving
Electronic drying in vacuum	+ safety
Double loading tank and water drainage	+ hygiene
Aluminium chamber	+ rapidity
Memory Test System	+ diagnostics
3-cycles Test	+ safety
Bowie and Dick	
Helix Test	
Vacuum Test	

Kronos S
18-23

Kronos N
18-23

S

Pre and Post vacuum

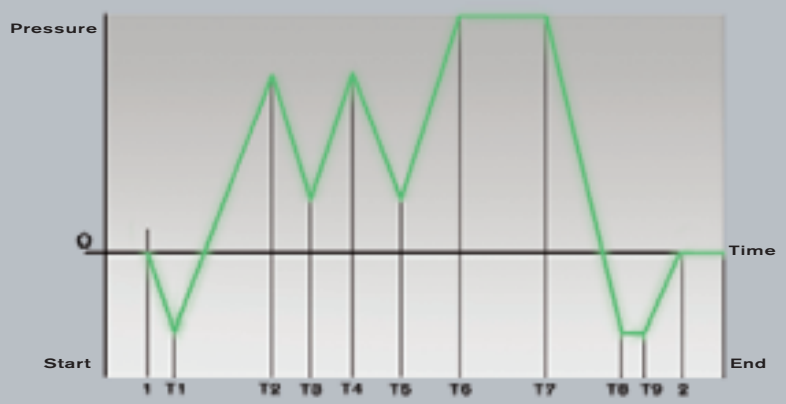
With Double-stage Vacuum Pump

N

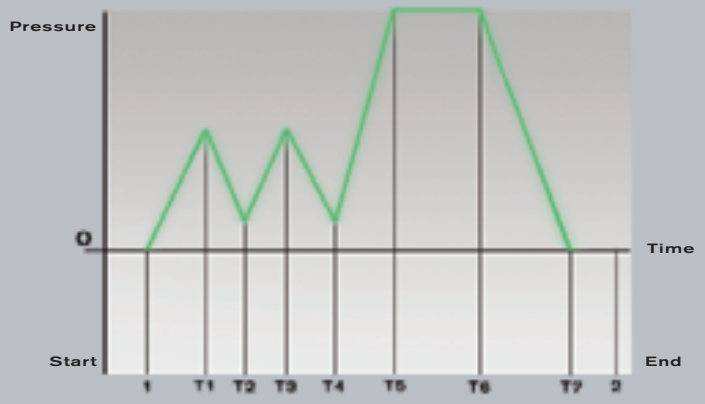
Thermodynamic vacuum

Electronically Controlled

COMPLETE GRAPHIC CYCLE KRONOS S



COMPLETE GRAPHIC CYCLE KRONOS N



KRONOS S 18-23

STERILIZABLE PRODUCTS

SOLID INSTRUMENTS

WRAPPED INSTRUMENTS

SMALL POROUS LOADS

KRONOS N 18-23

STERILIZABLE PRODUCTS

SOLID INSTRUMENTS

Kronos S and N

18-23

Standards EN-13060

Motor-operated closure
with triple-protection, guarantees a total safety, greater ease of handling and a reliable self-regulation of the hatch.

Instantaneous Vaporizer
outside the chamber allows higher sterilization speeds and reduces water consumption.

Thermal printer
installed on board the machine to allow complete recording of the sterilization cycle.
Ensures the user greater cycle control and easy archiving.

Multi-language graphic display
makes it easier for the operator to select the sterilization cycles, continuous control over the cycle phases and gives graphic indication of the errors committed by the operator.

Connection to STS-Data logger system
It is possible to store the data on a PC.

Stainless steel chamber
Made of thick one-piece moulded steel

Connection to Demineralization System

FEATURES	ADVANTAGES
Motor-operated closure	+ ergonomics
Instantaneous vaporizer	+ speed - consumption
Standard printer	+ control
Loading with self-priming pump	+ practical
Graphic display	+ easier
Latest Software	+ process self-control
Possibility of connection to data logger	+ archiving
Provision for connection to demineralizer and direct dirty water drainage	+ handy
Electronic drying in vacuum (kronos S only)	+ safety
Double loading tank and water drainage	+ hygiene
Moulded one piece stainless steel chamber	- porous
Memory Test System	+ diagnostics
2-cycles Test (Kronos S only)	+ safety
Bowie and Dick Vacuum Test	

Energy
18-23

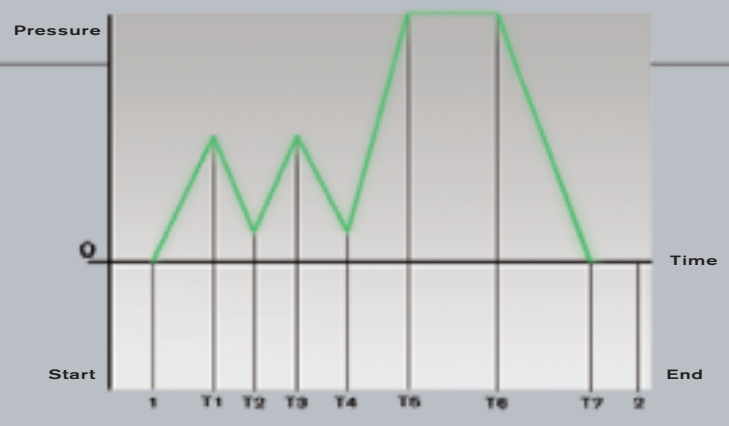
Completely Automatic

controlled by microprocessor

Thermodynamic vacuum

Electronically Controlled

COMPLETE GRAPHIC CYCLE ENERGY



ENERGY 18-23

STERILIZABLE PRODUCTS

SOLID INSTRUMENTS

Energy

FEATURES

The closure system
Easy and practical with double safety

INOX chamber
Thick one-piece moulded steel

LCD Display
Makes it easier for the operator to select the sterilization cycles, allows a continuous control over the cycle phases and gives an information of the errors committed by the operator.

Closure system
Easy and practical

Stainless steel chamber
Single piece moulded steel

LCD display with continuous temperature and pressure display

Double sensor
for safety on door closure

Double control
of sterilization process

Electronic Transducer
Allowing a precise check of pressure

Two electronic temperature probes
for measuring the temperature inside and outside the sterilization chamber

Internal tank with probe
which shows the minimum and maximum level on the display

Loading of water through a self-priming pump

Sterilization cycles
Completely automatic:
2 sterilization cycles at 121˚
2 sterilization cycles at 134˚

THE PROGRAMS MENU

Designed for perfect sterilization of various materials, thanks to the combination of vacuum, temperature and drying.

Kronos B *18-23*

Materials and instruments	Program	Vacuum phases	Total time*
Delicate hollow** and rustproof hollow (wrapped)	121° Hollow wrapped	4	28 minutes
Rustproof hollow (wrapped)	134° Hollow wrapped	4	15 minutes
Solid made of rubber and delicate solids (wrapped)	121° Solid wrapped	2	28 minutes
Rustproof solid (wrapped)	134° Solid wrapped	2	15 minutes
Rustproof solid and hollow (wrapped)	134° Prion	4	30 minutes
Delicate, hollow and porous (wrapped	121° Porous	4	33 minutes
Solid rustproof, hollow, and porous (wrapped)	134° Porous	4	20 minutes
Solid made of rubber and delicate (unwrapped)	121° Rapid	2	22 minutes
Solid rubber (unwrapped)	134° Rapid	2	9 minutes
Hollow made of rubber and stainless steel (unwrapped)	134° Open hollow	4	9 minutes
Test Cycle for Helix and Bowie & Dick	134° Helix/B&D Test	4	7.5 minutes
Test Cycle for vacuum	<40° Vacuum Test	1	15 minutes

* Including drying phase, excluding preheating. The preheating may vary from 20 to 25 minutes depending on the load
** Type A and B hollow instruments, in accordance with EN 13060
*** For Kronos B23 the total time must be increased by 5 minutes

Kronos B *Speedy*

Materials and instruments	Program	Vacuum phases	Total time*
Delicate hollow** and rustproof hollow (wrapped)	121° Hollow wrapped	4	28 minutes
Rustproof hollow (wrapped)	134° Hollow wrapped	4	15 minutes
Delicate hollow and rustproof hollow (unwrapped)	121° Open hollow	4	20 minutes
Hollow rubber and rustproof hollow (unwrapped)	134° Open hollow	4	7 minutes
Rustproof solid and hollow (wrapped)	134° Prion	4	30 minutes
Delicate, hollow and porous (wrapped	121° Porous	4	33 minutes
Solid rustproof, hollow, and porous (wrapped)	134° Porous	4	20 minutes
Solid made of rubber and delicate (unwrapped)	121° Solid open	2	20 minutes
Solid rustproof (unwrapped)	134° Solid open	2	7 minutes
Solid rustproof (wrapped)	134° Solid wrapped	2	15 minutes
Test Cycle for Helix and Bowie & Dick	134° Helix/B&D Test	4	6 minutes
Test Cycle for vacuum	<40° Vacuum Test	1	15 minutes

* Including drying phase, excluding preheating. The preheating may vary from 7 to 10 minutes depending on the load
** Type A and B hollow instruments, in accordance with EN 13060

Kronos S 18-23

Materials and instruments	Program	Vacuum phases	Total time*
Delicate hollow** and rustproof hollow (wrapped)	121° Hollow wrapped	2	30 minutes
Rustproof hollow (wrapped)	134° Hollow wrapped	2	22 minutes
Solid made of rubber and delicate solids (wrapped)	121° Solid wrapped	2	28 minutes
Rustproof solid (wrapped)	134° Solid wrapped	2	15 minutes
Rustproof solid and hollow (wrapped)	134° Prion	2	35 minutes
Delicate, hollow and porous (wrapped)	121° Porous	2	33 minutes
Solid rustproof, hollow, and porous loaded small(wrapped)	134° Porous	2	20 minutes
Solid made of rubber and delicate (unwrapped)	121° Rapid	2	33 minutes
Solid rrustproof (not wrapped)	134° Rapid	2	10 minutes
Hollow made of rubber and rustproof (unwrapped)	134° Open hollow	2	11 minutes
Test Cycle for Helix and Bowie & Dick	134° Helix/B&D Test	2	7.5 minutes
Test Cycle for vacuum	<40° Vacuum Test	1	15 minutes

* Including drying phase, excluding preheating. The preheating may vary from 20 to 25 minutes depending on the load

** Type A and B hollow instruments, in accordance with EN 13060

*** For Kronos S23 the total time must be increased by 5 minutes

Kronos N 18-23

Materials and instruments	Program	Total time*
Solid made of rubber and delicate solid (with prolonged drying)	121° Solid open	33 minutes
Solid made of rubber and solid metal (with prolonged drying)	134° Solid open	21 minutes
Solid stainless steel and metal instruments	134° Prion	35 minutes
Solid made of rubber and delicate solid (with brief drying)	121° Rapid	23 minutes
Solid made of rubber and solid metal (with brief drying)	134° Rapid	11 minutes

* Including drying phase, excluding preheating. The preheating may vary from 20 to 25 minutes depending on the load

*** For Kronos N23 the total time must be increased by 5 minutes

Energy 18-23

Materials and instruments	Program	Total time*
Solid made of rubber and delicate solid (wrapped drying)	121° Long Dry	33 minutes
Solid made of rubber and solid metal (unwrapped)	121° Short Dry	27 minutes
Solid stainless steel and metal instruments (wrapped)	134° Long Dry	21 minutes
Solid made of rubber and delicate solid (unwrapped)	134° Short Dry	26 minutes

* Including drying phase, excluding preheating. The preheating may vary from 20 to 25 minutes depending on the load

*** For Energy 23 the total time must be increased by 5 minutes

Technical features

	Kronos B 18-23		**Kronos B** Speedy	**Kronos S** 18-23		**Kronos N** 18-23		**Energy** 18-23	
Motor-operated closure	●		●	●		●		Mechanical	
Door lock **safety**	Electric		Electric	Electric		Electric		Mechanical	
Type of **Vacuum**	Fractionated		Fractionated	Pre and Post vacuum		Thermodynamics		Thermodynamics	
Instantaneous **Vaporizer**	●		●	●		●		—	
Test Programs	Bowie & Dick/ Helix/Vacuum		Bowie & Dick/ Helix/Vacuum	Bowie & Dick/ Helix		—		—	
Onboard **Printer**	●		●	●		●		—	
Display	Graphic		Graphic	Graphic		Graphic		Digital	
M.T.S. Memory System Test	●		●	●		●		—	
Connection to PC	●		●	●		●		—	
Connection to demineralizer	●		—	●		—		—	
Night Cycle	●		●	●		●		●	
Internal **water tanks** (loading and unloading)	2		2	2		2		1	
Chamber volume in litres	**18**	**23**	**6**	**18**	**23**	**18**	**23**	**18**	**23**
No. of Cycles with water loading (indicative)	8	6	18	10	8	10	8	16	12
Wrapped **sterilizable weight** in kg	3	4,5	1	3	4,5	—	—	—	—
Unwrapped **sterilizable weight** in kg	4	6	1,8	4	6	4	6	4	6
Porous material in kg	1	1,5	0,5	0,5	1	—	—	—	—
Empty machine weight in kg	56	60	40	45	50	43	48	40	45
Outer measurement:									
Depth mm	610	695	610	610	695	610	695	610	695
Width mm	505	505	445	445	445	445	445	445	445
Height mm	400	400	345	400	400	400	400	400	400
Supply voltage	220-240 V								
Mains frequency	50-60 Hz								
Rated power	2400 W		2500 W	2400 W		2400 W		1800 W	

● standard — not present

Newmed reserves the right to make modifications without prior warning

Standard **Trays**

	Quantity	Dimensions in mm
6 liters autoclaves	1	150 x 240 x 19
	2	115 x 240 x 19
18 liters autoclaves	4	185 x 285 x 17
23 liters autoclaves	4	185 x 440 x 17

NUBYRA 6

Completely automatic cycle
controlled by microprocessor

Thermodynamic vacuum
Electronically Controlled

Chamber in aluminium

LCD Display
Makes it easier for the operator to select the sterilization cycles, allows a continuous control over the cycle phases and gives an information of the errors committed by the operator.

Features

Closure system: easy and practical

LCD display: with continuous control of temperature and pressure

Double sensor: for safety on door closure

Double control: of sterilization process

Electronic transducer: allowing a precise check of pressure

Two electronic temperature probes,
one inside and one outside the sterilization chamber

Sterilization cycles: completely automatic
2 sterilization cycles at 121°
2 sterilization cycles at 134°

Vacum type: thermodynamic

Water filling: manual

Night cycle: yes

Chamber capacity: 6 liters

Sterilizable weight: 1 Kg

Autoclave weight: 30 Kg

Dimensions: 480 mm depth
445 mm width
350 mm height

Voltage: 230 V 50/60 Hz

Rated power: 1350 W

Trays: 3 1x(150x240x19)
2x(115x240x19)

ACCESSORIES and Optionals

Perfect Water
Electrical water distiller.

Aquamed
Water demineralizer with visual control of conductibility, with intake pistol (optional).

Osmo2
Osmotic system with high purification capacity.
It is optimum for the use with the autoclave, with 16 Lt. tank (optional).

STS-Datalogger USB
Device for data collection with direct recording on USB key, complete with software for data evaluation (developed for s.o. Windows).

Tests for Autoclaves
Wide range of tests:
HELIX TEST to check sterilization inside hollow instruments
BOWIE & DICK TEST: to check sterilization in porous materials
CHEMICAL INDICATORS: to check each sterilization cycle
SPORES: for the biological control of sterilization.

Reversible Trayholders
To make autoclave load optimum
It can be used both for standard trays and cassettes for implants.
Available for 18 and 23 Lt. autoclaves.

Ultrasonic Tanks
Wide range of ultrasonic tanks from 2.5 to 9 litres.
All the models are of electronic type with automatic control of frequency.
Equipped with stainless steel tanks.
Many accessories are available.

Sealing machine Termoseal:
Ergonomic design and fast sealing times.
Concealed roll-holder
Stretched 12mm seal
Dimensions:
480x198x385 mm (LXHXD)
Voltage: 230V - 50/60 Hz
Power adsorbed 100 W
Weight: 9 kg

IT IS JUST A QUESTION OF TIME...

Your time…

Directives applicable
Reference **Standards** of Autoclaves

Directive: Medical Devices **93/42/EEC**
Directive: Pressure Vessels **97/23/EEC**
Directive: Small steam sterilizers **EN13060** (excluding Energy and Nubyra)
Directive: Electromagnetic Compatibility **CEI EN 61326-1**
Directive: Safety instructions for laboratory apparatus **CEI EN 61010-1**
Directive: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials **CEI EN 61010-2-40**

CE 0051 93/42 CEE MEDICAL DEVICES

Supported by Regione Emilia-Romagna

Newmed

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