

# Product Specification



## Quadro Tabletop Sterilizer

Art. no 978049502

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## Intended Use

The Quadro is a fully automatic tabletop steam sterilizer for clinics and practices within primarily the dental and medical market. It has preset programs for the most common sterilization goods. The mechanical air removal is performed with a series of vacuum pulses. The chamber dimensions are adapted to sterilization, using trays, baskets or other accessories specially made for the chamber size.

The Quadro sterilizer is intended for sterilization with steam at temperatures between 121 and 138 °C of clean material that is used for medical, dental, veterinary and cosmetic purposes and, as such, is intended for steam sterilization.

## Standards and Codes

The Quadro sterilizer complies with relevant standards, codes and directives in the country or region of installation. The equipment is manufactured in accordance with industry requirements and standards including EN13060, B and S cycles.

A Declaration of Conformity, stating the relevant standards, codes and machine directives with which the equipment complies, is available on request.

## Documentation and Process Records

Documents related to the sterilizer such as installation commissioning, validation and service shall be stored the entire lifetime of the sterilizer. Process records shall be stored according to local requirements.

## Warranty Statement

Linder Medical AB warrants that each sterilizer is carefully tested, inspected and leaves the factory in proper working condition, free from visible defects. The sterilizers have a general two years (or 2,400 processes - whichever comes first, years or processes) product warranty. Furthermore, Linder Medical gives 10 years warranty on the chamber and the elements in the steam generator.

The warranty is only valid when maintenance and operations are performed in accordance with Linder Medical's instructions and recommendations. Not following the service intervals will void the warranty.

Furthermore, Linder Medical guarantees that the lifetime of the sterilizers is at least 10 years. During this period, the availability of spare parts is guaranteed.

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## Key Features

- High-speed Sterilization™
  - B-cycle in 28 minutes – including drying!
  - B-cycle for dental handpieces in 17 minutes!
- Super elliptical stainless steel chamber in 316L, for maximum load capacity, more or less 100% usable chamber volume.
- Deep drawn chamber, no weldings.
- Possible to connect label printer directly to the sterilizer.
- Loading capacity superior to most other tabletop sterilizers – 5 wrapped trays (tray size 287 x 186 x 39 mm).
- Four point safety hinged door
  - The hinged door has four fitting points. The construction is built to withstand the pressure with only 75% function (with one failing point) for optimal safety.
  - Equipped with an automatic door closure/opening device
  - Integrated large (8.5") display unit.
- Water reservoir made of easy-to-clean polymeric material with smooth corners and no dirt pockets – simplifies cleaning and prevents biofilm. Separated compartments for clean and condensate water. Built-in water quality control as standard. Prepared for different connection options (see heading installation versions).
- Control system PACS 350, the same as in large hospital sterilizer and disinfectors systems.
- Netcom solution for LAN connection as option and local built-in storage through USB as standard.
- Wide range of accessories, e.g. loading system, trays, baskets etc.
- X-large touch display for simplifying the use. Help texts and process release in the display.

## Principle of Operation

The Quadro sterilizer is designed to consistently sterilize all type of heat-resistant goods, such as wrapped, unwrapped, porous, hollow and solid. The equipment is fully automatic in operation and follows a general sequence.

No.	Type	Standard Programs	Load
P01	B-cycle	134 °C Wrapped	Instruments: wrapped, unwrapped, hollow
P02	B-cycle	121 °C Wrapped	Sensitive instruments: wrapped, unwrapped, hollow
P03	B-cycle	134 °C Heavy load	Porous load: wrapped, unwrapped, hollow
P05	Test cycle	Bowie & Dick	Steam penetration test (also Helix)
P06	Test cycle	Leakage test	Leak test
P07	B-cycle	134 °C 18 minutes	Instruments: wrapped, unwrapped, hollow
P08	B-cycle	134 °C Dental Special	Dental handpieces: wrapped, max. 10 pcs

Just select the desired program and press the start key. The sterilizer heats up in less than 15 minutes from stand-by mode or from cold after it has been switched on.

The standard program can be divided into three phases:

1. Pre-treatment

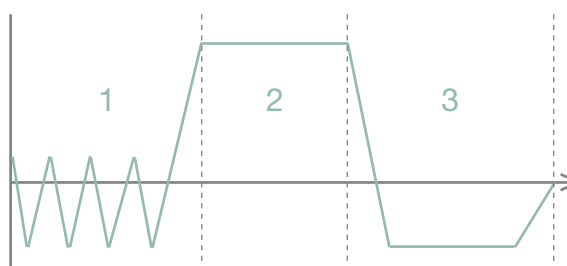
During pre-treatment the air is removed from the chamber and the load through a number of pre-vacuum pulses.

2. Sterilization “Holding time”

During sterilization, the micro-organisms are inactivated or killed. The sterilization phase lasts for a preset number of minutes at the preset temperature and pressure.

3. Post-treatment

During post-treatment the load is dried. Depending on the program, the sterilizer generates a vacuum defined in terms of pressure and duration. At the end of the phase, air is forced through an air filter until the chamber returns to atmospheric pressure.



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## Basic Design Features

The Quadro sterilizer is designed and constructed to meet the rigorous requirements of the MDD.

### Chamber construction

The super elliptic stainless sterilizer chamber is constructed from solid stainless steel, EN 1.4404 (corresponding to ASME 316L), without welding. Internal surfaces are electro-polished to facilitate cleaning. A stainless steel mesh strainer protects the drain from blockage by debris.

- 18-liters super elliptic chamber (0.7 cu.ft) with internal dimensions of 250 x 340 x 250 mm (w x d x h).
- Usable depth, trays and containers: 313 mm.

A number of different racks are available for optimizing the loading.

To optimize the environmental protection, the sterilizer chamber is completely insulated with 10 mm high efficiency iso-glass insulation covered with aluminum foil. The chamber is mounted on the steel framework of the sterilizer. The design pressure for the chamber is 2.7 bar overpressure and vacuum. The safety valve is preset to 2.7 bar overpressure (depending on local requirements).



### Chamber pre-heating

The chamber is pre-heated by a 400 W electrical jacket.

### Frame and panels

The front and top cover is made of stainless steel (AISI 304). Side covers are white RAL 9003 powder painted aluminum sheets. The rear panel and the frame are made of corrosion protected (galvanized) steel.

### Service access

The panels are easily removed by undoing the screws or snap lockers.

### Validation connections

The temperature connection port is placed in the chamber entrance port in the rear part of the chamber and the pressure connection is for easy access placed in the service area, but can also be placed in the rear part of the chamber.

### Safety hinged door

To minimize the foot print the sterilizer has a left opening hinged door with easy access to door gasket and for operator safety equipped with with four fitting points. The door incorporates a large (8.5") operators panel for easy reading of display and maneuvering operator keys.

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## Basic Design Features (continued)

### Door gasket

The door gasket is mounted in the door and can easily be changed by the user himself. The door locking/unlocking is controlled by an operator key. The door is locked/unlocked automatically by means of a twin hedge system actuated by an 12V motor.

### Sterile filter

A disposable sterile filter is provided for filtering the atmospheric air entering the chamber. The air is used to equalize the chamber pressure at the end of the sterilization process. The filter separation efficiency is higher than 99.998 % for particle size 0.2  $\mu\text{m}$ . The sterile filter is easy accessible in the service area.

### Dust filter

The Quadro sterilizer is equipped with a dust filter, which can prevent air borne particles to enter the inside of the sterilizer and thus among others prevent the cooler from being obstructed, and thereby losing efficiency. The filter shall be replaced at regular basis.



### Steam supply

The Quadro sterilizer has a built-in electrical steam generator, 1.8 kW, mounted on the left side of the sterilizer chamber. The unique design has an integrated energy storing system that builds up power for sterilization of large loads in a short time. The steam generator is powered by two heating elements, 900 W each, which are never in contact with the water. This design gives the elements an extremely long lifetime.

### Vacuum system

The sterilizer is equipped with a highly efficient vacuum system based on a membrane pump and a high efficient condensation system, avoiding condense from entering the pump and causing process errors or delay. The pump is for easy access placed on the bottom frame.

### Water quality

The water quality for steam production shall be max. 15  $\mu\text{S}$  (see below).

### Water reservoir

The water reservoir is for very easy access placed for both filling and cleaning on the top of the sterilizer, covered by an opening lid. The reservoir consists of two separated compartments with smooth corners and no dirt pockets. One compartment is for water for steam production (deionized, distilled or RO-water). The second compartment is for condensate water. Access points with a quick coupling system, for drainage is for eas of operation placed in the service area.

The construction is prepared for two versions of installation, see below.

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## Installation Versions

Quadro is designed for tabletop installation only. The unit is designed for different installations:

### Stand-alone (no water connection)

Just plug in the power supply, fill sufficient water in the clean water reservoir and start to sterilize. Once the condensate water reservoir is filled or the clean side reservoir doesn't contain enough water for a process, an information text tells either to drain the condensate water tank or fill the clean tank (what comes first). The reservoirs are cleaned at least once a week, or more often if based on experience.

### Main water connected

The sterilizer is prepared for main water connection. A deionizer is connected to the sterilizer and automatically fills the clean tank. The level is controlled by the reservoir level controls. The used water passes the condensate tank and then goes to the drain automatically. Clean the tank once a week or based on experience. Linder Medical offers a deionizer adapted to Quadro.

## Operator Panel

The PACS 350 control system is operated via an easy-to-use display. Processes are selected via the preset scrolling system. To start the process, press the start button. For emergency stop, press the stop button. Access to other functions, such as running test cycles, setting parameters, calibration, service and maintenance is controlled using pre-defined access levels to prevent unauthorized access.



Avanti - Touch multi color

### Operator panel location

For easy reading and operation, the operators panel is placed in the chamber door.

## Process Release

Quadro is equipped with a process release procedure. At the end of the process, and before it is possible to open the door, the user is asked to digitally release the process directly on the display. Following the procedure ending with a signature in terms of a password, the sterilizer produces labels which can be attached on the load after opening the door. The label also features a bar code. Number of labels can be chosen directly on the display.

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## Personal Safety Features

The sterilizer is equipped with an electrical door locking system that prevents the door from being unlocked during the sterilization process. In the event of failure, the door cannot be unlocked until the error has been acknowledged and reset. An interruption service routine resets the sterilizer to its standby mode before it is possible to safely open the door.



## Control System

The PACS 350 system includes:

- CPU processor with battery backup
- Digital in- and outputs for sterilizer control
- Analog measuring inputs
- COM ports for printer and PC communication

PACS 350 controls all system functions, monitors system operations, both visually and audibly alerts the operator of cycle malfunctions and, on demand, provides visual indication of the chamber temperature and pressure.

## Temperature and Pressure Sensors

The PACS 350 control system has built-in linearization to correct the individual characteristics of each type of sensor connected to the system. Each sensor is calibrated with individual constants to correct the deviation in manufacturing and aging. The following sensors are provided and are used in the automatic control of the sterilizer:

- Chamber temperature sensor
- Steam temperature sensor
- Chamber pressure sensor
- Steam generator temperature

The temperature sensors are of Pt100 type. The pressure sensor is an absolute pressure transducer, range 0-4 bar, output 4-20 mA.



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## Alarms

Automatic process check-up and failure corrections are provided with the PACS 350 control system. In case of a disturbance during the sterilization process, the process enters an alarm phase which safely ends the process automatically.

The range of alarms includes:

- Temperature and pressure sensor failure
- Time-outs
- Door not properly locked
- Power failure (a power cut-off of less than 10 seconds will be ignored, i.e. there will be no alarm and the process will continue when the power comes back)
- Continuous self-check of all safety devices

## Self-diagnostic Program

PACS 350 features a comprehensive alarm/alert system, with automatic triggering of pre-programmable information alerts (service intervals, maintenance etc). The self-diagnostic program that monitors the sterilizer performance is pre-programmed to alert the operator for:

- Time for service
- Error codes
- Water alarm (control of water quality for all installation versions)
- Level indicator for water reservoirs indicating when it is time to either drain the condensate tank or fill the clean tank, also indicating when the clean tank is full. The level is controlled when the sterilizer is main water-connected.

### Self-diagnostics – Water level control

The clean/condensate water tanks are equipped with floaters controlling the water level:

Clean tank	- Max.-min. level
Condensate tank	- Max. level.

### Self-diagnostics – Water quality sensor

The steam supply system has a built-in safety device, securing the water quality for steam production. At levels between 15 and 20  $\mu\text{S}/\text{cm}$ , the sterilizer indicates the water quality is insufficient and the filter or other water source needs to be checked, and the water in the reservoir needs to be changed to a better quality. At levels above 20  $\mu\text{S}$ , the sterilizer will block and can not be started until the water in the clean reservoir is changed to a better quality.

## Process Evaluation System

Quadro is equipped with a process evaluation system according to EN 13060, which triggers an alarm if deviations from preset values occur. The temperature and pressure parameters are individually controlled.

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## PACS 350 Process Documentation

The sterilizer is equipped with two RS232 ports, one for external printer and one for the service diagnostic tool CS100/CS1000. It is also equipped with an built-in USB storage solution, storing each process as an PDF, both numerical and a small two color graph.

As an option the sterilizer can be equipped with LAN connection through Netcom.

- RS232
- USB printer port
- LAN - process data storage via Ethernet on clinic computer

## Mechanical Features

### Valves and components

All standard components are non-proprietary and commonly available. Valves and major components are arranged to be easily accessible for service and replacement.

### Steam-generating pump

The steam generator is fed with deionized water by a piston pump. The pump gives a flow of 4.8 liters/minute.

## Sterilization Processes

The sterilizer is equipped with a set of pre-programmed processes. The process time mentioned in all documentation is approximate with factory-set values and depends on the load. The heavier the load, the longer the process. The material in the load also affects the process time. All weight indications of the load include the goods to be sterilized as well as the weight of racks, trays, containers etc. The lighter the trays etc, the more goods/weight can be sterilized.

### Adjustable parameters

The sterilization and drying times are adjustable, from the minimum (as per the type test) up to defined values. Adjustments are easily done by the operator on the display and require a password (558).

### P01 WRAPPED 134 B

MDD type-tested B-cycle. For sterilization of medical devices, e.g. wrapped/unwrapped instruments, porous loads, hollow loads etc.

Total process time incl. drying (according to type test):

Empty chamber	~22 min
Solid load (average load)	~28 min
Full porous load (acc. to type test load EN 13060)	~35 min

### P02 WRAPPED 121 B

MDD type-tested B-cycle. For sterilization of medical devices, e.g. wrapped/unwrapped instruments, porous loads, hollow loads etc.

Total process time incl. drying (according to type test):

Empty chamber	~32 min
Solid load (average load)	~39 min
Full porous load (acc. to type test load EN 13060)	~56 min

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## Sterilization Processes (continued)

### P03 HEAVY LOAD 134 B

MDD type-tested B-cycle. For sterilization of medical devices, e.g. wrapped/unwrapped instruments, porous loads, hollow loads etc.

Total process time incl. drying (according to type test):

Empty chamber	~29 min
Porous load ~2.5 kg	~45 min
Maximum solid load 6 kg	~50 min

### P07 18 MINUTES 134 B

MDD type-tested B-cycle (wrapped/unwrapped instruments, porous loads, hollow loads etc) for the decontamination/sterilization of CJD-related goods.

Please note that this process is a general-purpose process, to be configured in accordance with local requirements and regulations. Linder Medical assumes no responsibility for the sterilization results of CJD-related goods.

Total process time incl. drying (according to type test):

Empty chamber	~36 min
Solid load (average load)	~42 min
Solid load 6 kg	~50 min

### P08 DENTAL SPECIAL B

MDD type-tested B-cycle. For sterilization of wrapped or unwrapped dental handpieces, max. 10 pieces.

Total process time incl. drying (according to type test):

Empty chamber	~15 min
10 wrapped handpieces	~17 min

### Test cycles included

The two (2) included test cycles are:

### P05 BOWIE&DICK TEST

Password-required (558). A test cycle (usage required by EN ISO 17665-1) to control the air removal and steam penetration of the sterilizer cycle. The holding time can be set according to the specific test pack/device.

Sterilization temperature	134 °C
Holding time	3.5 min
Total process time with test pack	~20 min

### P06 LEAKAGE TEST

Password-required (558). The sterilization process is sensitive to residual air in the chamber. If the chamber is not leak-tight, sterilization efficacy may be impaired. Quadro is equipped with a fully automatic leak test process to confirm leak-tightness of the chamber.

Total process time	~17 min
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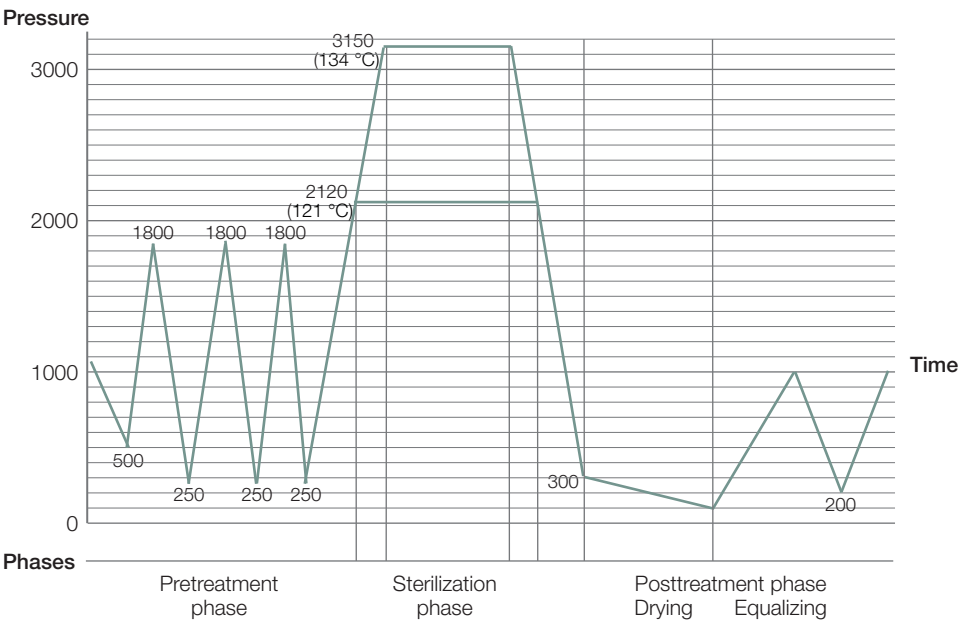
Detailed cycle descriptions on the following pages in this specification.

## Standard Processes

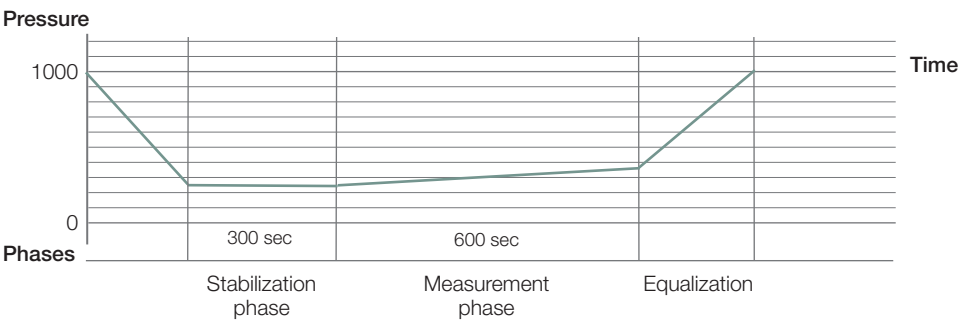
Description	Parameters	Range	Default
P01	Pre-pulse vacuum		4
Wrapped instruments	Pre-pulse positive		3
134 °C	Sterilization temperature		134 °C
(B-cycle, EN 13060)	Sterilization time	4-30 min	4 min
	Drying time, vacuum	3-60 min	5 min
P02	Pre-pulse vacuum		4
Wrapped instruments	Pre-pulse positive		3
121 °C	Sterilization temperature		121 °C
(B-cycle, EN 13060)	Sterilization time	15-59 min	16 min
	Drying time, vacuum	3-60 min	5 min
P03	Pre-pulse vacuum		4
Heavy load	Pre-pulse positive		3
134 °C	Sterilization temperature		134 °C
(B-cycle, EN 13060)	Sterilization time	4-30 min	4 min
	Drying time, vacuum	3-60 min	10 min
P05	Pre-pulse vacuum		4
Bowie & Dick test	Pre-pulse positive		3
	Sterilization temperature		134 °C
	Sterilization time	3.5-30 min	3.5 min
	Drying time, vacuum	3-30 min	4 min
P06	Leak rate	1.3 mbar/min	
Leak test			
P07	Pre-pulse vacuum		4
18 minutes	Pre-pulse positive		3
134 °C	Sterilization temperature		134 °C
(B-cycle, EN 13060)	Sterilization time	18-30 min	18 min
	Drying time, vacuum	3-60 min	5 min
P08	Pre-pulse vacuum		4
Dental special	Pre-pulse positive		3
134 °C	Sterilization temperature		134 °C
(B-cycle, EN 13060)	Sterilization time	3.5-30 min	3.5 min
	Drying time, vacuum	1-60 min	1.5 min

# Schematic Processes

## B-cycle



## Leak Test



## Ordering Information

Check the appropriate box.

☐ Standard choice

☐ Optional

### ☐ Quadro

18-liters super elliptic stainless steel chamber  
8.5" color touch display  
Tray holder 5 levels  
USB storage  
Connection for printer or label printer  
Built-in process release on the display  
RS232 connection for service  
Art. no 978049502

### Loading capacity

- Standard rack (included)  
5 wrapped trays with lid (287 x 186 x 39 mm) or 5 instrument trays (310 x 190 x 38 mm)

### Voltage supply

- 230 V 1-phase, 50/60 Hz

### Installation versions (page 7)

- ☐ Stand-alone
- ☐ Water connection kit, for main water connection through deionizer filter, incl. hoses and filter. Art. no 0616011000297. If direct connected, Quadro complies to EN 1717.
- ☐ Water connection kit, for connection to existing water treatment system.  
Art. no 0616011000328.

### Documentation system (page 10)

- ☐ No printer
- ☐ Receipt printer "Martel". For process registration. The printout lasts for 15 years - if correct paper is used and stored under right conditions. Art. no 0614836100
- ☐ Label printer "Zebra". For printing labels for traceability. Art. no 0614836383
- ☐ LAN connection - one-off license. Process storage via LAN to local computer.  
Art. no 06148326134

### Conformity

Linder Medical is certified to develop, design and sell CE-marked (MDD) products for the healthcare sector, in countries covered by the EES treaty. CE conformity is required within the EU countries.

- CE and MDD conformity, e.g. for hospitals, dental and medical clinics or commercial re-use sterilization

### Languages

Operator displays and user manuals are available in a selection of languages (multi-lingual manual). Service manuals available (on request) in English. Operator displays are available in:

Bulgarian	Estonian	Hungarian	Norwegian	Slovak
Czech	Finnish	Icelandic	Polish	Slovenian
Danish	French	Italian	Portuguese	Spanish
Dutch	German	Latvian	Romanian	Swedish
English	Greek	Lithuanian	Russian	

Chosen language: \_\_\_\_\_

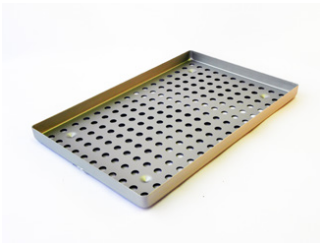
# Ordering Information (continued)

## Tray holders

The sterilizer chamber is equipped as standard with a stainless 5-levels tray holder for dental trays or instrument trays with a maximum height of 40 mm. The tray holder is equipped with a locking device in order to avoid the rack to be undeliberately pulled out. The tray holder can be released from the chamber by actuation a locking device placed on the tray holder.

- ☐ Rack for container, no levels. Art. no 06148326127
- ☐ Tray holder with three levels  $\leq 20$  mm (H). Art. no 06148326125
- ☐ Tray holder with four levels  $\leq 20$  mm (H). Art. no 06148326126
- ☐ Tray holder with five levels  $\leq 20$  mm (H). Art. no 06148326047
- ☐ Tray holder with eight levels  $\leq 20$  mm (H). Art. no 06148326128

- ☐ Tray, perforated, aluminum, 285 x 185 x 19 mm.  
Art. no 0614835576



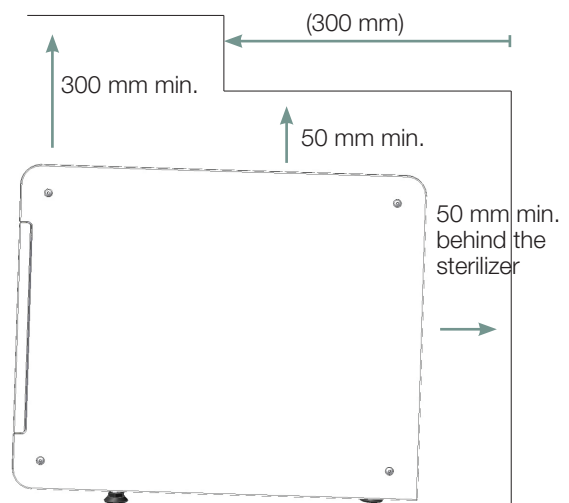
Customer

Reference

## Installation

### Quadro parts names

- |                                 |                                |
|---------------------------------|--------------------------------|
| 1 Door                          | 9 Main switch                  |
| 2 Door locking                  | 10 USB storage                 |
| 3 Door gasket                   | 11 RS232                       |
| 4 Tray holder                   | 12 Drain, condensate           |
| 5 Chamber                       | 13 Drain, clean                |
| 6 Pressure test port connection | 14 Service door                |
| 7 Sterile filter                | 15 Water reservoir, condensate |
| 8 Service area                  | 16 Water reservoir, clean side |



Chamber should be installed with a slope of 5 mm towards the rear to allow for full drainage.



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## Installation Stand-alone

### Installation demand

Water	Particle-free cold water, max. room temperature
Water quality	$\leq 10 \mu\text{S/cm}$
Water reservoir	9.8 liters (2 x 4.9 liters). The minimum volume for the clean tank is 1.2 liters.
Processes / filling	8 – 14 cycles (depending on cycle)
Drain	12 mm silicone hose. To be connected to (12) in the service area (temporary) or on the rear side of the sterilizer (permanent).

## Installation Water Connection

### Installation demand

Water	Particle-free cold water, max. room temperature
Water quality	$\leq 10 \mu\text{S/cm}$
Water reservoir	4.9 liters (reservoir feed water compartment)
Water pressure to sterilizer	2 - 5 bar
Processes / filling	8 – 14 cycles (depending on cycle)
Drain	12 mm silicone hose. Fixed connection on the rear side of the sterilizer.
Wastewater temperature	$< 50^\circ\text{C}$

### Water connection kit

Art. no 0616011000297	Deionizer with connection kit
Feedwater quality	7.3 – 14 dH (conductivity 260 – 500 $\mu\text{S/cm}$ gives approximately 126 liters of deionized water). Recommended value max. 10 dH.
Feedwater connection	1/2" or 3/4"
Water inlet pressure	0.3 – 7.0 bar
Temperature range	4.0 – 38.0 $^\circ\text{C}$

## Documentation

One (1) copy of the user manual is delivered together with the sterilizer in a multi-lingual version (EU languages).

Service manual available (on request) in English. The service manual includes electrical, piping diagram, spare parts list and all service instructions.

## Packing for Shipment

The sterilizer is shipped in a special packaging. When shipping one sterilizer, it is shipped on a half pallet (Euro), and two sterilizers are shipped on a full sized pallet (Euro). The sterilizer is fixed in the packaging with a special cut foam that also can carry possible accessories.

The sterilizer(s) shall be transported and stored on its wooden pallet in its upright position, see arrows on the packaging. Do not stack more than three packages.

Transport/storage temperature	2 – 40 $^\circ\text{C}$
Transport/storage relative air humidity	Maximum 95 % (not condensated)
Transport/storage pressure	No limits

Note! The installation must not be carried out at altitudes higher than 2,000 m a.s.l.

## Technical Data Quadro

External dimensions ( w x d x h)	454 x 575* x 480 mm (incl. feet) * Add 50 mm on the back for sufficient ventilation
Chamber dimensions (w x d x h)	250 x 340 x 250 mm (usable space for dental trays is 313 mm)
Chamber volume	18 liters (0.7 cu.ft)
Chamber design pressure	2.7 bar
Chamber regulations	PED 97/23, EN13445
Chamber material	ASME 316L, EN 1,4571
Door material	316L, PED EN 5754 (JBA/ASME EN 2014T6)
Max load: instruments / textiles	6 kg / 2.5 kg
Feedwater sterilizer	Pressure: 2 - 5 bar Quality: max. 10 µS/cm (demineralized water) Temperature: 5 – 40 °C
Incoming water pressure	Follow water filter specification
Volume of water reservoir	4.9 liters demineralized water
Water consumption/process	Approximately 0.4 – 0.8 liters (depending on load, installation and process type)
Flow rate at minimum pressure	3 liters/minute
Flow rate at maximum pressure	4.8 liters/minute
Water flow to waste connection	Approximately 0.4 – 0.8 liters/process, water temperature ≤50 °C
Electrical supply/Operating voltage	As stated on rating plate
Total wattage	2 200 W
Wattage of steam generator element	2 x 900 W
Wattage of electrically heated jacket	400 W
Electrical connection (max variation)	1N 230 V AC, 1N 200 VAC
Frequency	50/60 Hz
Rating	10 Amp
Heat emission	Closed door: approximately 100 W Open door: approximately 400 W
Noise level, A-weight	48 dB
Sterile filter	EN 143 / P3, 0.2 µm
Weight	53 kg
Weight with full load and filled water tanks	72 kg





Linder Medical AB designs, manufactures and sells equipment to the Infection Control market, primarily clinics and practices, under its own brand. The product history starts in the early 1950s when Dr. Fritz Linder designs a sterilizer that will revolutionize the hospitals' and clinics' instrument handling. Thanks to the unique construction, Dr. Linder's autoclave sterilized more instruments in shorter time than any other equal sized sterilizer of those days. Since then, through several constellations and different owners, the ideas of Dr. Linder still live through the family generation of today and Linder Medical AB. This heritage is shown in the Quadro, a sterilizer that provides super-fast processes and thanks to the superellipse shaped chamber, the highest loading capacity of all 18-liter tabletop sterilizers. The head quarter and production are situated in the Swedish village Stora Höga, just close to Skärhamn where it all started. Linder Medical is part of the Processkontroll Group.

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Appendix

Document history, Product Specification Quadro

Date	Edition	Change	Updated by
2018-10-29	Rev A 181029	First edition	Jesper Wahlin
2019-02-11	Rev B 190211	Typo Accessories available	Jesper Wahlin