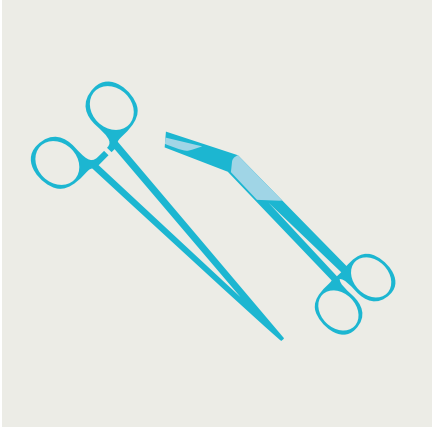
PRODUCT SPECIFICATION

DEKO 25iX
Washer Disinfector

rethink reuse rhima

Intended use

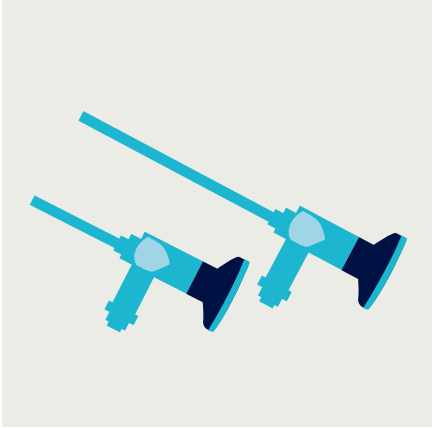
The DEKO 25iX Washer Disinfector is designed for automatic cleaning and thermal disinfection of reusable surgical and MIS instruments, dental instruments, rigid scopes, anaesthetic and respiratory equipment, hollowware, glassware, rubber and plastic goods and other similar and related equipment used in medical and laboratory applications.



Reusable surgical and MIS instruments

Dental instruments

Glassware



Rigid scopes

Hospital bowls and other plasticware

Anaesthetic and respiratory equipment

Main features

DEKO 25iX offers excellent washing and disinfection process quality for smaller clinics, laboratories and special care units.
Pre-set programs in accordance with EN ISO 15883 and individually programmable controls for optimised cleaning performance.

Brilliance in a small package
Thanks to its design, DEKO 25iX suits diverse installation locations. Ergonomic to use whether placed on top or beneath counter or on a special base cabinet.

Monitored washing resultss
Independent process control and recording to verify actualised process parameters providing assurance of quality.

Ease of use
Large touch-screen for clear and simple program selection, cycle phase and remaining time monitoring and process history checking.

Accessories that make a difference
Precisely designed washing baskets and racks allow efficient processing of a wide variety of different instruments and equipment.

Features and functionalities – benefits for the user

Perfect for small spaces
With compact design and features comparable to large washer disinfectors, DEKO 25iX offers excellent disinfection process quality according to EN ISO 15883 Part 1 & 2.

Installation location
DEKO 25iX can be placed below or on top of a counter.
For ideal loading height, installation on base cabinet or support table is recommended, both with room for detergent container and accessories.

Washing equipment
Removable, sliding wash wire basket for loading instruments. Optional second wash shelf with wash arm, connecting / closing wash arm and rack connector. Chamber roof and bottom equipped with rotating wash arms. Wash arms with removable end caps. Washing basket (WxDxH) 370x370x60 mm, max. usable height 255 mm with bottom washing basket only. Max. usable height 110 mm on bottom and 85 mm on top when using both levels.

Powerful water circulation
Powerful 260 l/ min water circulation pump with only 8,5 l water consumption per washing phase.

Panels and door
Framework, panels and wash chamber all made of stainless EN 1.4301 steel and fully recyclable. All outer panels heat and sound insulated. Interlocking hinged door with safety lock function as loading level when open.

Advanced State-of-the-art control
Fully automatic PLC control including back-up batteries for full memory protection. Multi-level access code system protects any unauthorised changes to washing cycles and set parameters. Separate codes for user, maintenance and au-thorised person. Special service and maintenance control system restore valuable information for technical performance follow-up and evaluation and enables component testing. Process control and independent recording accuracy compli-ant with ISO EN 15883-1 & 2 for washer disinfectors.

Display (loading side)
7” colour display showing selected cycle, batch number, cur-rent cycle phase, chamber temperature, washing pressure and remaining cycle time. Pressure and temperature indication available as graphs. Service instructions, warnings and error indications in signal colors.

Pressure control for foam and washing water
To secure powerful washing efficacy, automatic foam and washing water pressure control ensure proper water pressure is maintained during water circulation and throughout the whole washing cycle. In case of excess foam or sudden drop of circulating water pressure, machine automatically drains the chamber and restarts the aborted process cycle step from the beginning (max. 3 times). Failure to reach the predefined parameters will result in an interruption of the cycle and an error notification on the display. Load temperature protection and overtemperature cut-outs for secure operation.

Independent tamper-proof process recorder
Machine is equipped with a temperature recorder, with sensors and signal processing independent from the controller, to record the attainment of programmed washing and disinfection conditions.

Machine stores all cycle process data such as:
- Name of institution
- Date & time
- Machine identification
- Sequential cycle number
- Cycle name and configuration
- Cycle start and end time
- Temperature
- Water pressure

Internal storage of 32 GB for recording all process data, trans-ferable to external USB memory stick or throughout an option-al network connectivity (FTP over Ethernet) to external file-server. Verification is executed according to EN ISO 15883-3, clause 5.11.4 level b).

Network connectivity (Ethernet) (optional feature)
Network connectivity feature allows:
- Remote monitoring of the machine over network
- Logging process events over network to email client
- Sending process data printouts to local and network printer
- Storing process data to external fileserver (FTP over Ethernet)

See “DEKO WD networking, System description” for more in-formation.

Remote access (optional feature)
Capability for remote access allowing remote service support. See “Deko WD networking, System description” for more information.

Boss entry port
Machine is equipped with boss entry port to insert tempera-ture sensors to perform IQ, OQ, PQ (when requested by the user).

Wash programs
Program library with 6 different factory-set programs tested and approved to meet requirements stated in standard EN ISO 15883. Programs are easily adaptable to suit special washing and disinfection requirements. Internal memory provides a pre-set cycle library for creating a practically unlimited number of programs. User adjustable audible indicator notifying end of cycle. Cycle duration typically 30 minutes depending on the load items and cycle setup.

Media connections
Water connections with slow closing valves and flexible hoses prevent the transfer of sound and vibration. Media connections are located on the bottom half of the machine.

- Opaque cold and hot water connection hoses
- Drain outlet valve diameter 20 mm
- Pure water connection
- Back syphon Type A air gap protection
- Shut-off isolator valves
- Vapour condenser

Outlet pump
Machine is equipped with outlet pump for efficient draining.

Detergent dosing
- Suction tube: Adjustable suction tube to ensure fit for all types of detergent containers.
- Adjustable detergent pump: Pump with flow sensor for dosing process chemicals. Optional second detergent pump with flow sensor and low level indicator.
- Flow meter for detergent dosing: Measures the volume of dosed detergent and verifies the requested dosing volume.
- Detergent low-level indication: The detergent suction hose equipped with a float switch monitors sufficient detergent availability advising user to replace the container when detergent level is below minimum.
- Detergent dosing flushing cycle: Special flushing cycle to remove detergent build-up (precipitate) by hot water from the dosing system.
- Back syphon protection: Type A air gap solution to prevent back syphon from water supply.
- Rinse aid pump (optional feature): For dosing rinse aid to final rinse water.

Panel printer
Panel printer to print process data (see “Independent tamperproof process recorder”.

Purewater feed options (optional feature)
For purewater feed, machine may be equipped with a solenoid valve when connected to pressurised purewater resource. Purewater can be used in all water process phases.

Laboratory applications
DEKO 25iX laboratory model is specially equipped for processing laboratory utensils: including lab wash base & wash arms for glassware and solenoid valve for purewater feed.

Technical info

Model	DEKO 25iX
Material	Stainless EN 1.4301 steel
User interface / Display	
7“ colour Touch-Screen	X
Door functioning	
Manual hinged door	X
Single door model with door interlock	X
Washing mechanics	
Rotating washing arms	Max. 3
Removable washing levels	1–2
Wash arms equipped with easily removable end caps	X
Measurements	
Width (mm)	460
Depth (mm)	580
Height (mm)	845
Height with base cabinet/support table (mm)	1295
Chamber volume, l (gross)	40
Chamber volume, l (effective)	36
Wash chamber dimensions, mm (gross)	W 390 x D 390 x H 265
Wash level dimensions, mm (effective)	W 370 x D 370 x H 255
Wash levels, max load (trays/baskets)	3 DIN 1/4 OR 2 SPRI III
Loading height, mm • floor installation • on base cabinet	 490 935
Weight, kg	60
Floor loading, kN/cm^2	0.02
Adjustable feet for levelling ±10 mm	X
Media connections and consumption	
Back syphon protection	Back syphon Type A air gap protection
Cold water (CW, max 15 °C) inlet hose	R1/2” female thread, l. 1,5 m
Hot water (HW, min 45 °C) inlet hose	R1/2” female thread, l. 1,5 m
Min – max water pressure, bar	1–8
Min. water flow (CW/HW), l/s	0,2
Pure water inlet	R1/2” female thread, l. 1,5 m
Pure water min – max water pressure, bar	0–6
Water volume per cycle, l	8,5
Floor drain outlet	ø 20 mm, l. 2 m
Vapour condenser	X
Other technical features	
Total power, kW	3,5
Heating power, kW *	3 / 2,5 *
Wash pump, kW	0,54
Wash pump capacity, l/min	260
Drain outlet pump, kW	0,085
Drain outlet pump capacity, l/min	28
Total maximum heat transmission (W/m^2)	70
Maximum fascia heat transmission (W)	45
Mean sound power level (A), dB	65
Peak sound power level (A), dB	70
Electric connection *	U 200-220V 1PH AC 50/60Hz 1x16A U 230-240V 1PH AC 50/60Hz 1x13A U 230-240V 1PH AC 50/60Hz 1x16A

Model	DEKO 25iX
Controls/Programmes	
Programmability	X
Pre-set programmes	6
Customisable programme positions	Unlimited
Cycle status display	X
Cycle complete indication with mutable buzzer	X
Password protected modes	3
Automatic detergent dosing system	
Suction tube	Adjustable / Telescopic
Detergent low level indication	X
Independent detergent volume verification	X
Additional detergent pump incl. flow sensor and low level indicator	O
Rinse aid pump	O
Process control	
Load temperature protection and over temperature cut-outs	X
Pressure control for foam and washing water	X
Boss entry port for test temperature sensor leads	X
Independent tamper-proof process verification	X
Independent tamper-proof process recorder	X
Panel printer	X
Network connectivity (Ethernet)	X
Remote access	X
Solenoid valve for purewater feed	O (L)
Automatic maintenance reminder	X
Standard compliance	
EN ISO 15883	EN ISO 15883-1, -2
IEC 61010-1	X
IEC 61010-2-040	X
IEC 61326-1	X
CE 0537	X
EN ISO 14971	X
EN ISO 13485	X
EN 1717	X

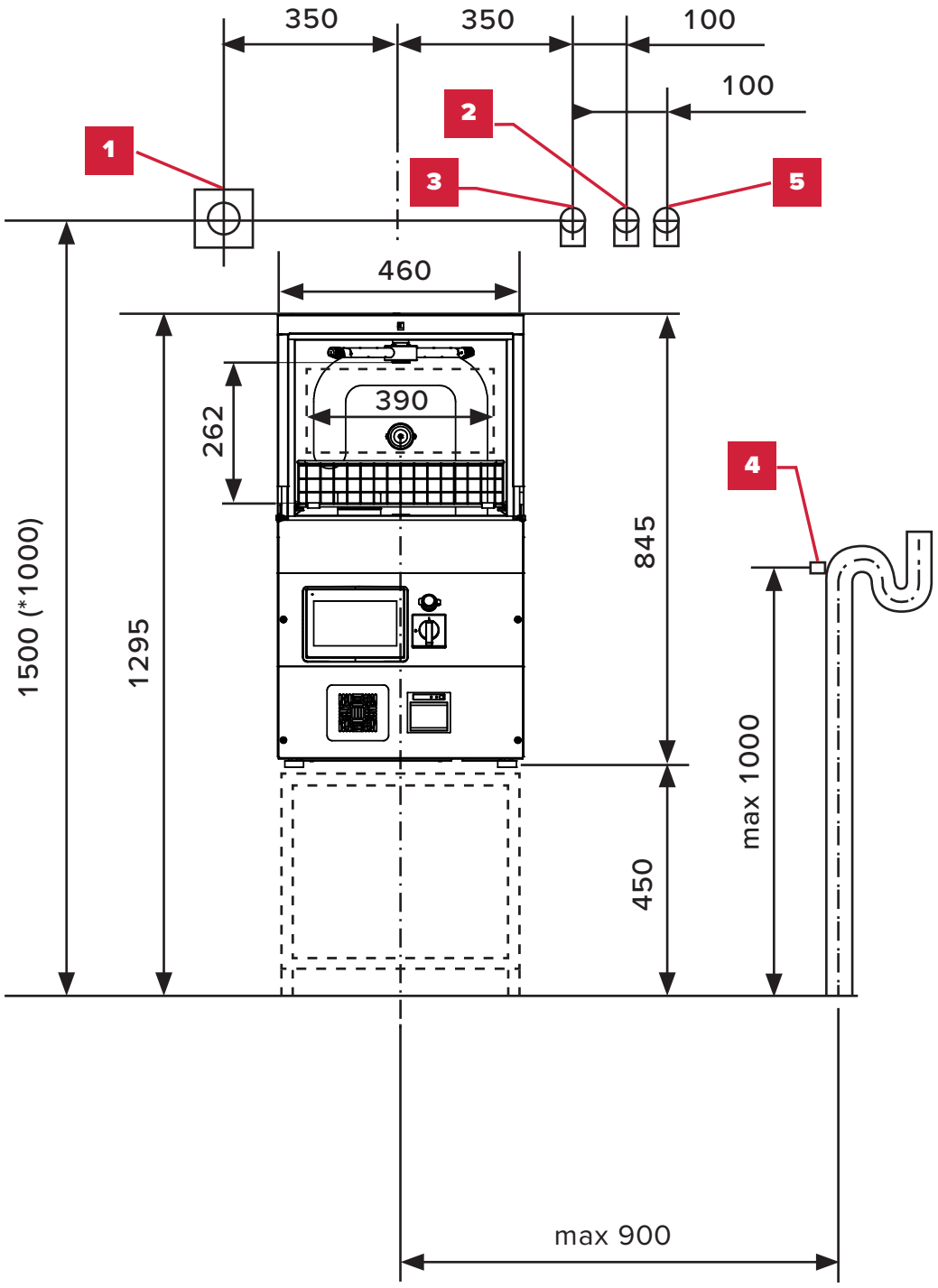
X = Standard O = Optional (L) = Standard in laboratoryX model * = Regional options

Installation

1. Circuit breaker [1]
2. Cold water R1/2” (female), shut off valve [1]
3. Warm water R1/2” (female), shut off valve [1]
4. Drain outlet NS dia 20 mm
5. Pure water R1/2” (female), laboratory models, option

[1] Connection height 1000 mm without base cabinet

[2] Supply by the buyer/installation party



Quality
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