sinTion
by christof systems

Specialised Plants

sinTion
Microbiological Material Treatment Device

Technology

sinTion: Simple Setup, Easy Operation, Safe Results

The effective and safe solution for the disinfection and sterilisation of infectious medical waste from hospitals, clinics and labs.

Features

- Highly efficient disinfection/sterilisation by combination of microwaves and saturated steam
- No chemical additives
- No pre-shredding of waste required
- Pre-vacuum phase
- Vacuum drying
- High throughput (up to 210 litres of waste per hour)
- Automatic printout for documentation

Safety measures

- Easy and safe operation via modern PLC and operation display
- Error detection and automatic switch-off

Certifications

- Robert Koch Institute (RKI), Berlin
- Austrian Society for Hygiene, Microbiology and Preventive Medicine (ÖGHMP)

Technical data

Unit dimensions	
Depth:	1200 mm
Width:	860 mm
Height:	1320 mm
Weight:	520 kg

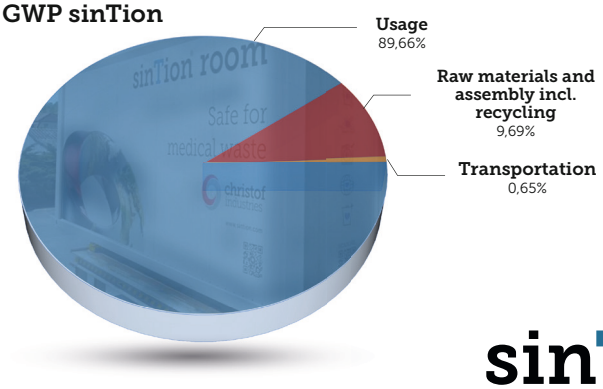
Disinfection chamber dimensions	
Height:	650 mm
Diameter:	450 mm
Volume:	103 litres

Facility	
Ambient temperature:	10 °C to 30 °C

Additional equipment

The remote maintenance option requires a network connection

GWP sinTion



Connection requirements (power)	
Maximum current:	25 A
Frequency:	50 Hz
Voltage:	3P + N + PE (400 V)
Maximum rate of power:	10 kW

The system is able to handle a power supply fluctuation of ± 5 %. However at fluctuations the complete specification cannot be guaranteed.

Connection data (water)	
Water consumption per batch (depends on program):	max. 30 l
Maximum rate of water:	5.5 l/min

Drinking water quality, < 1° dH, min. 4.5 bar (measured at a flow rate of 5.5 l/min), max. 10 bar static pressure, maximum temperature 20 °C. Water softener and booster pump available on request.

Functional data	
Either disinfection or sterilisation:	121-134 °C
Effectiveness:	STAAT level III, IV; ABCD
Duration of cycle (depending on amount of waste):	20-30 min
Power consumption per cycle:	~ 2.5 kWh
Number of mw generators:	6

Environmental impacts (Global Warming Potential)	
GWP per treatment cycle	0,77 kg CO_2 eq
GWP total life cycle	23.193 kg CO_2 eq

Life Cycle Assessment (LCA) according to ISO 14040 for 1 sinTion (functional unit) with 30,000 treatment cycles, data basis 2022 Ecoinvent and GaBi, impact category IPPC 2013 GWP 100a

Scan to see how it works.

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