



Washer H₂O₂ Decontamination Lock

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(Built-in)

(: , , Fungi, Yeast, Spore) 가

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Washer H₂O₂ Decontamination Lock

[1]

	Common items to be processed	For small animal facilities up to 2000 cages type 2L ¹ per week	For large animal facilities starting with 2000 cages type 2L ¹ per week	Common dimensions of effective chamber area (h x w d in mm)	Common overall dimensions of the unit (h x w x d in mm)	Number of doors
Cabinet cage washer	cages tops wire lids accessories	YES	NO	400 to 800 x ca 1300 x 700 to 800	1700 to 2000 ¹ x 1400 to 1900 x ca 1000	1-D / 2-D
Tunnel cage washer	cages tops wire lids accessories	NO	YES	300 to 700 x 600 to 1000 ²	2100 to 2800 x 900 to 1400 x length ³	-
Cage and rack washer	racks, cages tops wire lids accessories	YES	YES	ca 2000 x 900 to 1100 x 1800 to 3000	2500 to 3100 x 2200 to 3500 x 2300 to 3500	1-D / 2-D
Bottle washer	water bottles	YES	YES	300 to 800 x 500 to 1300 x 500 to 800	1400 to 2000 x 600 to 1900 x 600 to 1000	1-D / 2-D

¹ Height when closed. Machines with vertically opened hood / door can measure up to 3000 mm.
² These dimensions describe the height and width of the pass-through section.
³ The machine length depends on the required throughput and usually ranges between 7 m and 15 m.
⁴ Cage type 2L: Common cage size for housing mice, dimensions approximately 365 x 207 x 140 mm (lxbxh).

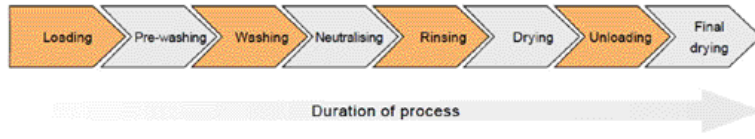
2.1

Rack

, Cage

(1)

Loading,



[1]

Pre-washing, Washing, Neutralising, Rinsing, Drying, Unloading, Final drying	Cabinet washer Cage and Rack washer	Tunnel washer 가
Loading		Cabinet
Loading	Cage Rack washing chamber Tunnel washer	washer Cage and Rack washer 가
	Loading	Neutralising
		Neutralising
Pre-washing	Pre-washing	Poly-
	Tunnel washer	Cage
zone	Pre-washing	Neutralising
washer	Cage and Rack washer	가
Pre-washing		Rinsing
		Washing Neutralising
		Rinsing
Washing		Rinsing
Washing (alkaline, pH neutral, or acid)	가	가
가		Drying
		Tunnel washer
	Cage and Rack washer	
	(가)	
	가	washer
		Cage and Rack

... , Bottle washer
가 Drying

Unloading
Unloading

. Tunnel washer

Final drying outside the machine

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(2)

Cabinet Cage Washers ([2])

Cabinet cage washer

Sliding hinged Door가

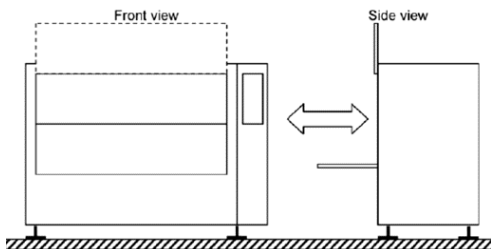
Cabinet Cage washer One Door Two Door

, Two Door , Clean

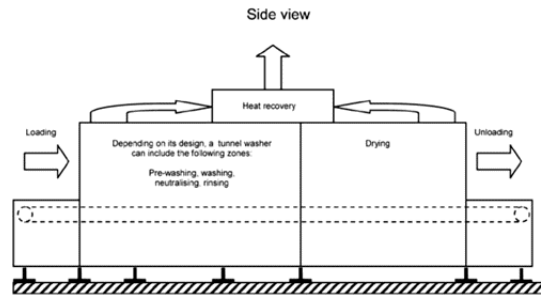
Zone Dirty Zone Door가

Tunnel Cage Washers ([3])

Cabinet washer Tunnel washer



[2] Cabinet cage washer with hinged or sliding door



[3] Tunnel cage washer

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Loading Zone

Unloading Zone

Washing Zone

Tunnel Cage Washer

Cage and Rack Washer ([4])

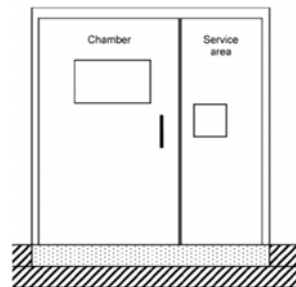
Cage and Rack Washer Cage

Rack

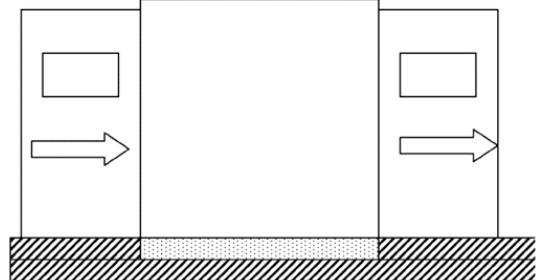
가

. Cage

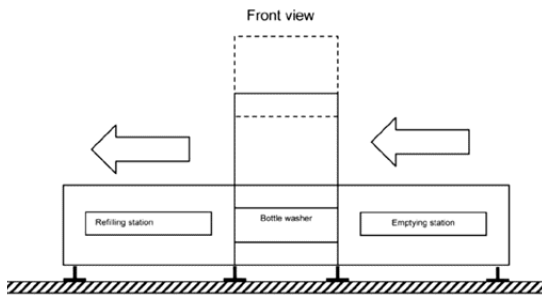
Front view, chamber with floor level access



Side view, chamber with floor level access and doors opened



[4] cage and Rack washer



[5] Bottle washer

and Rack Washer

가

(3)

Washing Chamber
Washing Chamber

Chamber

가

Chamber

SUS 304

Bottle Washers ([5])
 Bottle Washer Bottle Bottle Cap
 . Bottle Cap Cage
 , Bottle Cap
 가 Bottle Washer
 . (Bottle Cap
 ,
 가 .)
 Bottle Washer Dirty Zone Clean Zone
 , Zone
 . Bottle
 Bottle Washer
 . Bottle Washer
 Bottle Cap
 Bottle

Wash and Rinse Tank
 Wash tank Rinse Tank
 Wash tank Rinse
 tank Washing Chamber
 Jet System
 Jet System
 . Jet System
 가
 가
 가
 가

[2] Washing Chamber

Cabinet cage washer Bottle washer	<ul style="list-style-type: none"> • one or two loading levels • application of carrier systems(e.g. baskets and crates, etc.)
Tunnel cage washer	<ul style="list-style-type: none"> • belt, carriers and runners made of stainless steel or plastic • device for circulating spray water back into the respective washing zone to prevent water carry over from one wash section to the next
Cage and rack washer	<ul style="list-style-type: none"> • chamber floor designed for flexible use of loading trolleys with different track width • interior light • emergency stop button with door release in the chamber

- (: Oscillating, Rotary,
Linearly moved, Fixed)
-
-
Loading System
Cabinet cage washer

Washing Chamber Carrier
System . Carrier System
가 , 가

가
가
. Cage and Rack Washer

Trolley가 . Chamber
가 ,

Trolley . 가 가
Trolley
, Trolley

Carrier Trolley SUS 304

. Carrier Trolley

Machine shell

SUS

가

Display and Monitoring

가

- 가
-
-

-
-
-
-
-

Washing Chamber 가

Chambe가

Washing Chamber

2.2 H₂O₂ Decontamination Lock

“ Bio-containment ”

IVC , Laminar flow cabinet)

Rack

Lock .

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H₂O₂

가 H₂O₂ Decontamination

- gauge port
- HEPA Filter
- 가
- (1)
 -
 -
 - , , , , ,
- H₂O₂ Decontamination Lock
- H₂O₂ generator H₂O₂ Decontamination Lock : PLC
- (2) H₂O₂ Decontamination Lock
 - H₂O₂ , , ,
 - (, , ,)
 - Gassing cycle
 - Valve feedback signal
 - Chamber 가
- H₂O₂ Decontamination Lock
- H₂O₂ Decontamination (3)
 - Large, walk-in Lock
 - 가 SUS Chamber Gassing cycle
 - (D × W × H) : 2000mm × 1000 mm × 2000mm
 - Small Pass-through Lock
 - (D × W × H) : 760mm × 560 mm × 560mm /
 - Cage and Rack Washer
 - H₂O₂ 가 가 probe 0.5m 1.5m
 - . Probe
- H₂O₂ Decontamination Lock
 - Chamber (4) H₂O₂
 - Room H₂O₂ 가
 - Gasket system 가 Geobacillus stearothermophilus 가
 - (Biological Indicator, BI)

가

가 , . BI

100
BI

BI

. 100 (6-log reduction)

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1. "Cage Processing in Animal Facilities," AK-KAB, 3rd issue, 2010.
2. Jack R.Hessler and Noel D.M. Lehner, "Planning and Designing Research Animal Facilities," Elsevier, 2009.
3. "Guide for the Care and Use of Laboratory Animals", The National Academies Press, 2010.

Washer H₂O₂ Decontamination

Lock

(: 031-888-9369)