

Providing total solution to animal experiments through integrated technology

Good equipments themselves are not enough for successful animal experiments. In addition to them, comprehensive planning based on the thorough consideration for environmental safety, operators' safety, improvement of operating efficiency, laborsaving and close cooperation with research division, is essential to successful animal experiments.

CLEA Japan has broad experience on comprehensive planning of many research facilities for successful animal experiments by harmonizing various factors. Brochure 3, that is a consequence of our efforts, provides various kinds of animal breeding/caring equipments best suitable for your experiments.



- List of Items
- Bracket Units
 - Running Water Flushing Units
 - Auto Scraper Units



CLEA JAPAN

CLEA CATALOG **3** Contents

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About appropriate number of animals in a breeding cage

In the case of group caging, it is necessary to decide the proper number of animals in a cage before starting experiments. It is reasonable to reduce the number of animals in a cage as their age and weight increase. Please refer to the right tables for a recommended number of animals in a cage.

■Rats (Per cage, Unit: the number of animals)

Model name	Age in week		Weight		Usage
	3~4w	5~6w	7~8w	9~10w	
Rat Bracket Cage (R-IS)	8~10	7~8	5~7	3~5	Toxicity study
FRP Rat Bracket Cage	8~10	7~8	5~7	3~5	
Rat Bracket Cage (R-IV)	4~5	2~3		1~2	General experiments
Rat Bracket Cage (R-IIS)	4~5	2~3		1~2	

週令と体重の関係はJcl:SD, Jcl:Wistarを基準にしております。

■Guinea Pigs (Per cage, Unit: the number of animals)

Model name	Weight:250g and less	250~350g	350g and over
Guinea Pig Bracket Cage	5~6	3~5	2~3
FRP Guinea Pig Bracket Cage	2~3	1~2	1

■Cats, Rabbits, Dogs, Monkeys

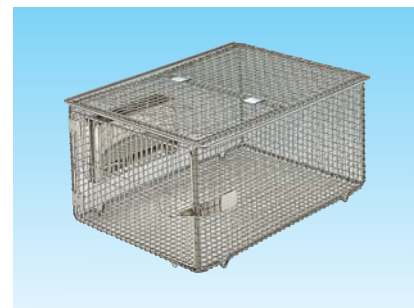
These cages are designed for single housing, unless otherwise specified. It is recommended to house one animal per cage (chamber).



CL-0408
FRP Rat Bracket Cage
Dimensions / 260×382×200mm
Materials / FRP, Stainless steel



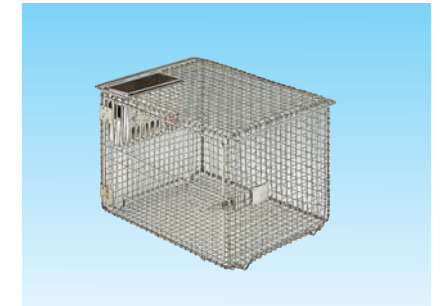
CL-0402-1
Rat Bracket Cage (R-IA)
Dimensions / 260×380×180mm
Materials / Aluminum, Stainless steel



CL-0402-2
Rat Bracket Cage (R-IS)
Dimensions / 260×380×180mm
Material / Stainless steel



CL-0403-1
Rat Bracket Cage (R-IIA)
Dimensions / 260×200×180mm
Materials / Aluminum, Stainless steel



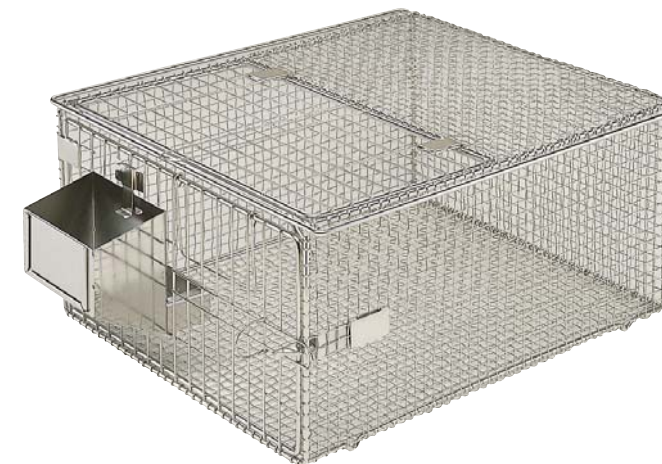
CL-0403-2
Rat Bracket Cage (R-IIS)
Dimensions / 260×200×180mm
Material / Stainless steel



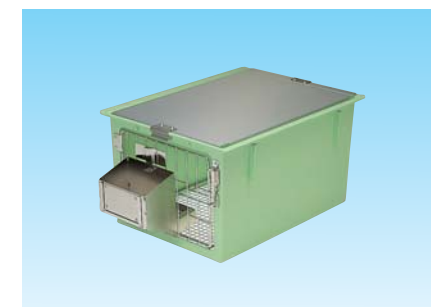
CL-0405-2
Rat Bracket Cage (R-IVS)
Dimensions / 300×400×200mm
Material / Stainless steel
※Stackable



CL-0406-1
Rat Bracket Cage (R-VA)
Dimensions / 300×400×200mm
Materials / Aluminum, Stainless steel
※Stackable



CL-0420
Guinea Pig Bracket Cage
Dimensions / 350×420×200mm
Material / Stainless steel



CL-0421
FRP Guinea Pig Bracket Cage
Dimensions / 260×382×200mm
Materials / FRP, Stainless steel



CL-0431-1
Rabbit Bracket Cage
Dimensions / 350×500×350mm
Materials / Aluminum, Stainless steel



CL-0431-2
Rabbit Bracket Cage
Dimensions / 350×500×350mm
Materials / Aluminum, Stainless steel



CL-0435
FRP Rabbit Bracket Cage
Dimensions / 350×527×350mm
Materials / FRP, Stainless steel



CL-0460
Cat Bracket Cage
Dimensions / 350×500×350mm
Materials / Aluminum, Stainless steel



CL-0462
Cat Bracket Cage
Dimensions / 400×500×380mm
Materials / Aluminum, Stainless steel
※ With a partition plate



CL-0465
FRP Cat Bracket Cage
Dimensions / 350×527×350mm
Materials / FRP, Stainless steel
※ With a partition plate



CL-0470
Dog Bracket Cage
Dimensions / 700×760×690mm
Material / Stainless steel

Bracket Units

Units containing bracket cages and trays.



■ Specifications of Bracket Units All the materials are steel with paint finish.

Model number	Model name	Dimensions mm			Layout		Dedicated Cages
		W	D	H	Number of Rows	Number of Shelves	
CL-0510 ⁻¹ ₋₂ ⁻³	Rat Bracket Unit	1,280	400	1,600	4	5	CL-0402-1 (R-IA) CL-0402-2 (R-IS) CL-0408 (FRP)
CL-0511 ⁻¹ ₋₂		1,280	450	1,500	4	5(W)	CL-0403-1 (R-IIA) CL-0403-2 (R-IIS)
CL-0520	Guinea Pig Bracket Unit	1,680	490	1,650	4	5	CL-0420
CL-0521		1,280	400	1,600	4	5	CL-0421 (FRP)
CL-0540 ⁻¹ ₋₂	Cat Bracket Unit	1,700	550	1,650	4	3	CL-0460 (FRP)
CL-0541 ⁻¹ ₋₂		2,040	550	1,650	5	3	CL-0465 (FRP)
CL-0542		1,850	550	1,740	4	3	CL-0462
CL-0570 ⁻¹ ₋₂ ⁻³	Rabbit Bracket Unit	1,700	550	1,600	4	3	CL-0431-1 (FRP)
CL-0571 ⁻¹ ₋₂ ⁻³		2,100	550	1,600	5	3	CL-0431-2 (FRP) CL-0435 (FRP)

※ Please contact our customer service for [Stainless steel model] [Automatic watering model] and [Custom made model].



CL-0511
Rat Bracket Unit (R-II)



CL-0513
Rat Bracket Unit (R-VA)



CL-0510
Rat Bracket Unit (FRP)



CL-0631
Water flushing unit for dog cages

■ Dimension and specification of a water flushing unit
All of them are made of stainless steel

Model number	Model name	Dimensions mm			Layout		Dedicated Cage
		W	D	H	Number of Rows	Number of Shelves	
CL-0631	Water flushing unit for dogs	1,600	840	1,850	2	2	CL-0470
CL-0632		850	840	1,850	1	2	
CL-0641	Water flushing unit for monkeys	1,300	750	1,650	2	2	Integrated with the Unit
CL-0642		650	750	1,650	1	2	

※Water supply and drainage are required at installation. Please contact our customer service.
※Automatic watering system can be installed by customer's request.



CL-0470

This unit sequentially flushes cages from top to bottom shelf with uniform water flow. It is ideal for saving workload in controlling animal breeding and handling.

Features of the running water flushing unit

- It is economical since only a small amount of water is required for flushing.
- Flushing power does not depend on water pressure or tube diameter at the installed site. Uniform water flow guarantees uniform washing.
- Operation noise is minimum and it does not cause stress on animals.
- The rack is made of stainless steel (SUS304) and its cleanness lasts long.
- A control box is equipped with a 24-hour timer to set flushing on and off at any time and for any number of times.



Control box for a 4-shelf running water flushing unit (Example)

■ Specifications of the running water flushing units. All the materials are stainless steel

Model number	Model name	Dimensions mm			Layout		Dedicated Cage	Equipment installation on the primary side	
		W	D	H	Number of Rows	Number of Shelves		Power supply	Water supply and drainage
CL-0701	Running water flushing unit for rats	2,150	480	1,700	6	4	CL-0402-1 (R-IA)	50	Water supply: 20A valve Drainage: Pt. 75A to 100A valve
CL-0702		1,850	480	1,700	5	4	CL-0402-2 (R-IS)		
CL-0703		2,050	630	1,700	6	4(W)	CL-0403-1 (R-IIA)		
CL-0704		1,750	630	1,700	5	4(W)	CL-0403-2 (R-IIS)		
CL-0706	Running water flushing unit for guinea pigs	1,950	550	1,780	5	4	CL-0405 (R-IV)		
CL-0720		2,300	520	1,780	5	4	CL-0420		
CL-0721	Running water flushing unit for rabbits	1,900	520	1,780	4	4	CL-0431-1		
CL-0730		2,300	600	1,800	5	3			
CL-0731	Running water flushing unit for cats	1,900	600	1,800	4	3	CL-0435 (F R P)		
CL-0740		2,100	600	1,950	4	3	CL-0462		
CL-0741	Running water flushing unit for cats	2,300	600	1,800	5	3	CL-0460		
CL-0742		1,900	600	1,800	4	3	CL-0465 (F R P)		

※Water supply and drainage, and AC power supply (100V, 10A) are required at installation. Please contact our customer service.
※An automatic watering device is standard for all the units listed in this table except for cats.



CL-0702
Running water flushing unit for rats



CL-0702
Running water flushing unit for rats



CL-0730
Running water flushing unit for rabbits



CL-0730
Running water flushing unit for rabbits



CL-0720
Running water flushing unit for guinea pigs



RUNNING WATER FLUSHING UNITS

Features of FRP running water flushing units

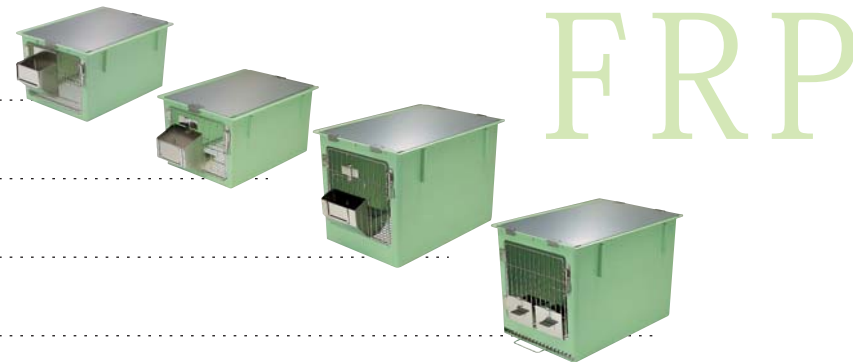
Compared to stainless steel unit, there is little adherence of urine calculus on shelf plates and it is easier for clean up.
In addition, no metallic vibration noise is produced while flushing and quiet breeding environment is insured.

Specifications of FRP stands and FRP cages

Model number	Model name	Dimensions mm			Materials	Layout		FRP Cage
		W	D	H		Number of Rows	Number of Shelves	
CL-0575	FRP running water flushing unit for rat	2,110	530	1,700	FRP Stainless steel	6	4	CL-0408
CL-0576		1,810				5	4	
CL-0580	FRP running water flushing unit for guinea pig	2,110	530	1,700		6	4	CL-0421
CL-0581		1,810				5	4	
CL-0585	FRP running water flushing unit for rabbit	2,260	650	1,800		5	3	CL-0435
CL-0586		1,870				4	3	
CL-0590	FRP running water flushing unit for cat	2,260	650	1,800		5	3	CL-0465
CL-0591		1,870				4	3	

Dedicated cages for each unit

- CL-0408
FRP Bracket Cage for rats
- CL-0421
FRP Bracket Cage for guinea pigs
- CL-0435
FRP Bracket Cage for rabbits
- CL-0465
FRP Bracket Cage for cats



Examples of customized units



Features of Auto Scraper Unit

An automatic scraper is equipped on each shelf to remove litters.

Specifications of Auto Scraper Units

Model number	Model name	Number of cages	Layout		Dimensions mm		
			Number of Rows	Number of Shelves	W	D	H
CL-1311	Rats	48	12	4	4,624	600	1,770
CL-1312		72	18	4	6,461	600	1,785
CL-1313		96	24	4	8,298	600	1,800
CL-1314		120	30	4	10,135	600	1,815
CL-1331	Guinea pigs	40	10	4	4,930	690	1,850
CL-1332		60	15	4	6,920	690	1,865
CL-1333		80	20	4	8,910	690	1,880
CL-1334		100	25	4	10,900	690	1,895
CL-1341	rabbits	30	10	3	4,930	770	1,880
CL-1342		45	15	3	6,920	770	1,895
CL-1343		60	20	3	8,910	770	1,910
CL-1344		75	25	3	10,900	770	1,925
CL-1351	Dogs	12	6	2	5,510	1,050	2,085
CL-1352		16	8	2	7,010	1,050	2,100
CL-1353		20	10	2	8,510	1,050	2,115
CL-1354		24	12	2	10,010	1,050	2,130
CL-1355		28	14	2	11,510	1,050	2,145
CL-1356		32	16	2	13,010	1,050	2,160
CL-1357		36	18	2	14,510	1,050	2,175
CL-1371		Monkeys	12	6	2	4,750	890
CL-1372	18		9	2	6,640	890	2,025
CL-1373	24		12	2	8,530	890	2,040
CL-1374	30		15	2	10,420	890	2,055
CL-1375	36		18	2	12,310	890	2,070
CL-1376	42		21	2	14,200	890	2,085

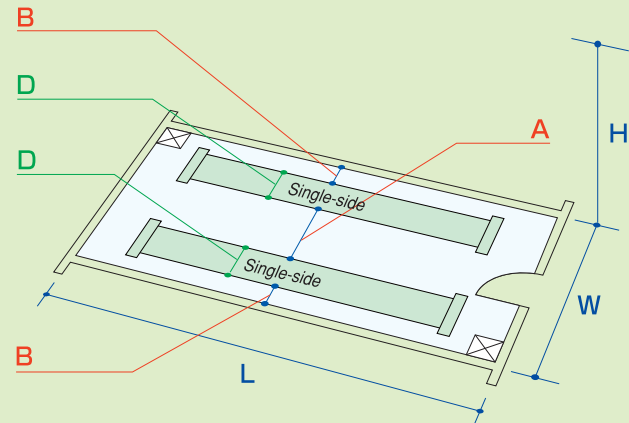
※Prior discussion in every detail is required for the installation. Please contact our customer service.
※Double-sided unit is available for rats, guinea pigs, and rabbits. Please contact our customer service.

Auto Scraper Unit for rats



Installation Space for Auto Scraper Units

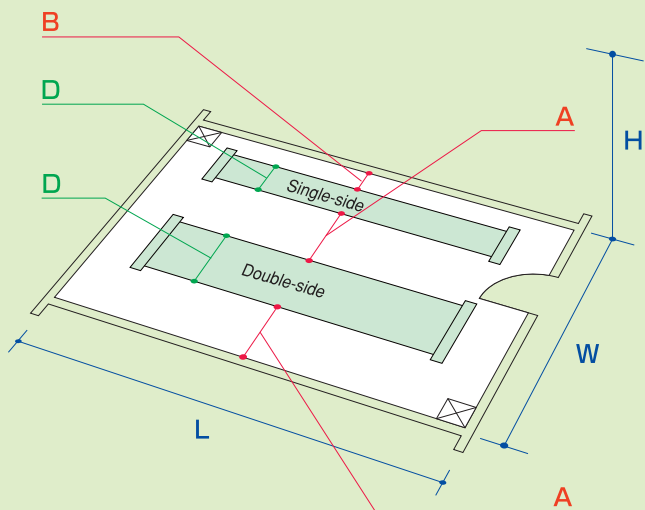
● Example of two single-side units



■ Dimensions (Unit:m)

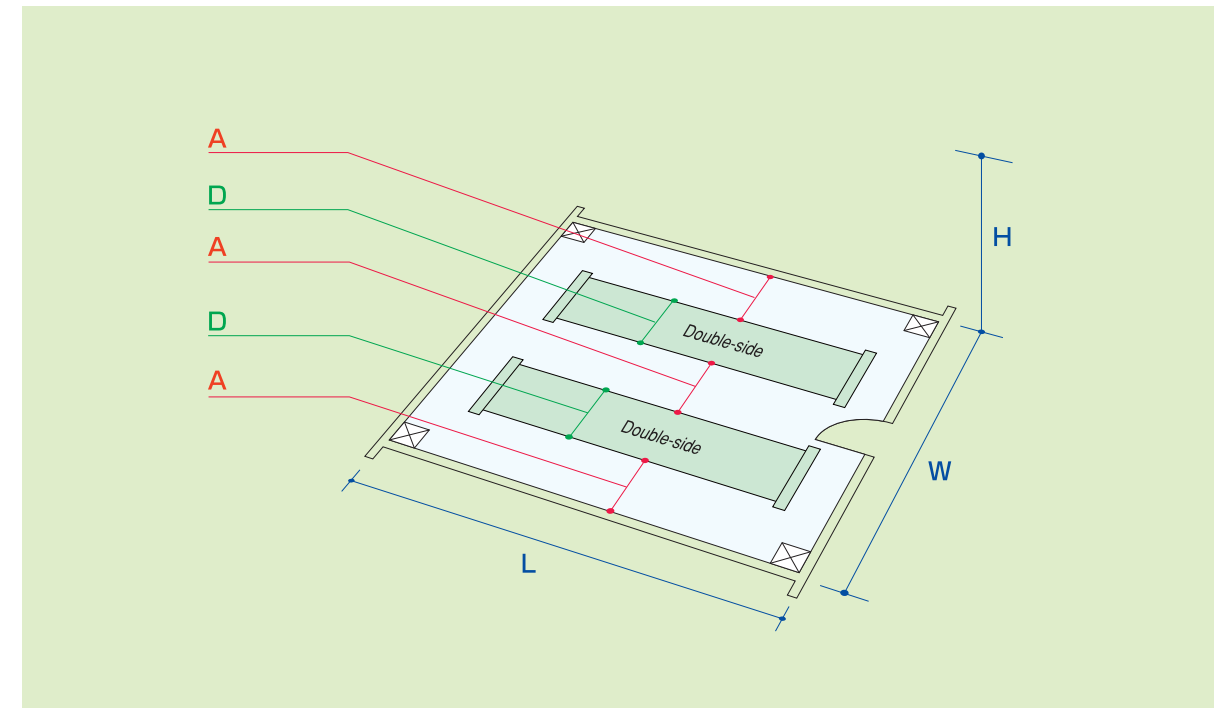
Animal Species	Rats	Rabbits	Guinea pigs	Dogs
W : Width of breeding room	3.5~3.7	3.9~1.2	3.7~3.9	4.4~4.9
L : Length of breeding room	Total length (Refer to specification table on P3-12 (Total Length)) +1.8~2.3			
H : Height of breeding room	2.3~2.5	2.5~2.7	2.6~2.7	
D : Width of breeding equipment	Refer to specification table on P3-12 (Width)			
A : Work space	1.3~1.5	1.5~1.8	1.4~1.6	1.6~2.0
B : Distance from wall	0.4~0.5			

● Example of a single-side unit and a double-side unit



■ Dimensions (Unit:m)

Animal Species	Rats	Rabbits	Guinea pigs
W : Width of breeding room	4.8~5.2	5.5~6.2	5.1~5.5
L : Length of breeding room	Single-side: Total length (Refer to specification table on P3-12 (Total Length)) +1.8~2.3 Double-side: Total length (Refer to specification table on P3-12 (Total Length)) +2.0~2.6		
H : Height of breeding room	2.3~2.5	2.5~2.7	
D : Width of breeding equipment	Refer to specification table on P3-12 (Width)		
A : Work space	1.3~1.5	1.5~1.8	1.4~1.6
B : Distance from wall	0.4~0.5		



■ Dimensions (Unit:m)

Animal Species	Rats	Rabbits	Guinea pigs
W : Width of breeding room	5.9~6.5	6.9~7.8	6.3~7.0
L : Length of breeding room	Total length (Refer to specification table on P3-12 (Total Length)) +2.0~2.6		
H : Height of breeding room	2.3~2.5	2.5~2.7	
D : Width of breeding equipment	Refer to specification table on P3-12 (Width)		
A : Work space	1.3~1.5	1.5~1.8	1.4~1.6



Draining sink (Example)

Stainless steel, FRP
Prior discussion in every detail is required for the installation.
Please contact our customer service.

Unit to set wall hanging cages.

■ Specifications of Wall hanging type units All the materials are stainless steel

Model number	Model name	Dimensions mm			Layout		Dedicated cages
		W	D	H	Number of Rows	Number of Shelves	
CL-0670	Wall hanging type unit for dogs	1,540	1,010	1,900	2	2	CL-0472
CL-0671		2,260			3	2	
CL-0672		3,040			4	2	
CL-0673		4,480			6	2	
CL-0680	Wall hanging type unit for monkeys	1,340	850	1,800	2	2	CL-0480
CL-0681		1,960			3	2	
CL-0682		2,640			4	2	
CL-0683		3,880			6	2	
CL-0690	Wall hanging type unit for marmosets	970	750	2,100	2	2	CL-0482
CL-0691		1,430			3	2	
CL-0692		1,890			4	2	



CL-0472
Wall hanging type unit for dogs



CL-0480
Wall hanging type unit for monkeys



CL-0482
Wall hanging type unit for marmosets

•Dedicated cages for each unit



CL-0670
Wall hanging type unit for dogs



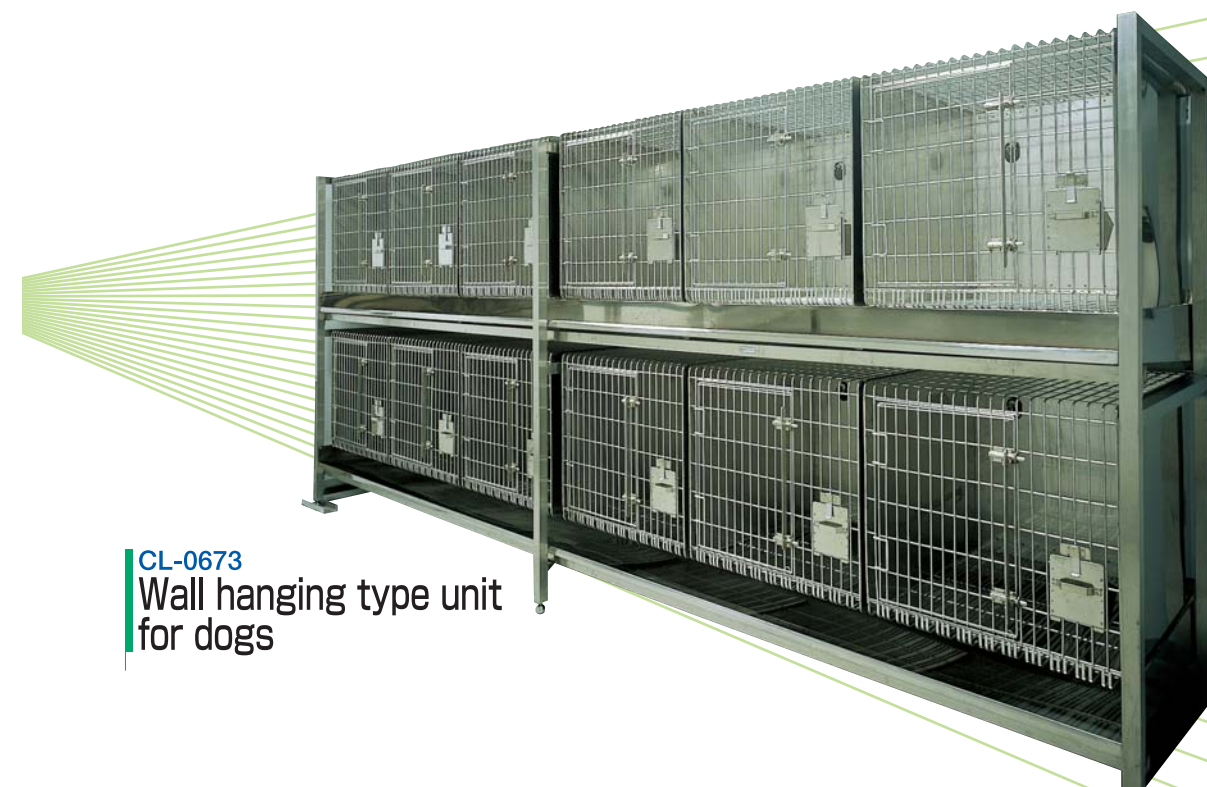
CL-0680
Wall hanging type unit for monkeys



CL-0691
Wall hanging type unit for marmosets



CL-0698 Lifter
An electrically powered lifter is also available



CL-0673
Wall hanging type unit for dogs

WALL HANGING TYPE UNITS

Features of Running Water Flushing Clean Racks

Running Water Flushing Clean Rack, combined with "clean rack" and "running water flushing unit", can protect animals from mutual infection even when many racks are used in a large room.

This is an automatic water flushing and sanitary breeding/rearing device suitable for long term animal care under clean environment.

In addition to the primary use, it can be also used as a "running water flushing negative rack" by making airflow opposite. For that purpose, a blower unit for negative pressure will be used and small holes on front-side flap doors for air-intake will be made to inhale air from the front.

This is for allergen control for caretakers and prevention of spreading contamination to surrounding environment. It is applicable to quarantine animals and prevent contamination in your facility.



CL-5415 Running Water Flushing Clean Racks



Specifications of Running Water Flushing Clean Racks

Timer and automatic water supply nozzles are equipped.

Model number	Model name	Dimensions mm			Layout		Material	Dedicated cages
		W	D	H	Number of Rows	Number of Shelves		
CL-5415	Rats and guinea pigs	1,860	730	1,640	5	4	Stainless steel	CL-0408 CL-0402
CL-5416		2,210	730	1,680	6	4		
CL-5417	Rabbits and cats	1,910	830	1,720	4	3	Acrylic plastic	CL-0435 CL-0465 CL-0431 CL-0460
CL-5418		2,310	830	1,760	5	3		

Specifications of Blower Units for Running Water Flushing Clean Racks

Model number	Type	Usage	Dimensions mm			Blast Volume 50/60Hz	Primary AC power supply 100V2PW
			W	D	H		
CL-5431-1FT	Built-in type for single rack	Clean Rack	1,260	430	450	1.2/1.3K	150/220W
CL-5432-1FT	Separate type for 4-rack		700	700	1,440	4.2/4.5K	240/340W
CL-5433-1FT	Separate type for 8-rack		700	700	1,440	6.6/7.0K	400/400W

This is a device to sterilize water by pressurizing and heating tap water, cool and store it in reservoir tanks, and deliver it to animals.

Features of Automatic Water Sterilizing System

- It has a filter at the intake of tap water to remove dust and the filtered water is put into a sterilizing water tank.
- It has a steam heater or an electric heater to heat water to 121°C or more and the pressure in the tank is set to 1.2kg/cm² or more.
- After those temperature and pressure conditions are fulfilled, a timer starts the sterilizing process by keeping the temperature and pressure for the preset duration (30 to 60 minutes) to ensure complete sterilization.
- After sterilizing process is finished, the sterilized water is cooled down by cooling water and is stored in the reservoir tanks at the proper temperature for use.
- The system is automatically activated depending on the water level of the reservoir tank. Eighty liters of sterilized water can be obtained at one sterilization process. Sterilization process is repeated until the water level in the tank reaches the desired level.
- An outlet filter is installed to ensure no contamination for the drinking water.



CL-2771 Automatic Water Sterilizing System



Specifications of Automatic Water Sterilization System

External Dimensions of main body	W1,650×D1,700×H1,900 A
Sterilization capacity	100 liters/h (Sterilization time 1.5h Sterilization temperature 120°C)
Capacity of reservoir tanks	Whole capacity 1.25t (Main reservoir tank 0.5t Auxiliary reservoir tank 0.75t)
Sterilized water pressure pump	Type 25UBSMD5.4
Chemical-feed pump and tank	Type C50A I
Specifications of primary supply sources	Steam supply Steam pressure 2.0kg/F
	Consumption rate Steam pressure 40kg/h
	Water supply Water consumption rate 400R/h (including cooling water)
	Primary AC power source 3P200V5kw/h (15A)
	Drainage piping Steam and water drainage piping 25A General drainage piping 40A

