Animal Cage & Bottle Washer (Cabinet Type)

EQUIPMENT APPLICATION

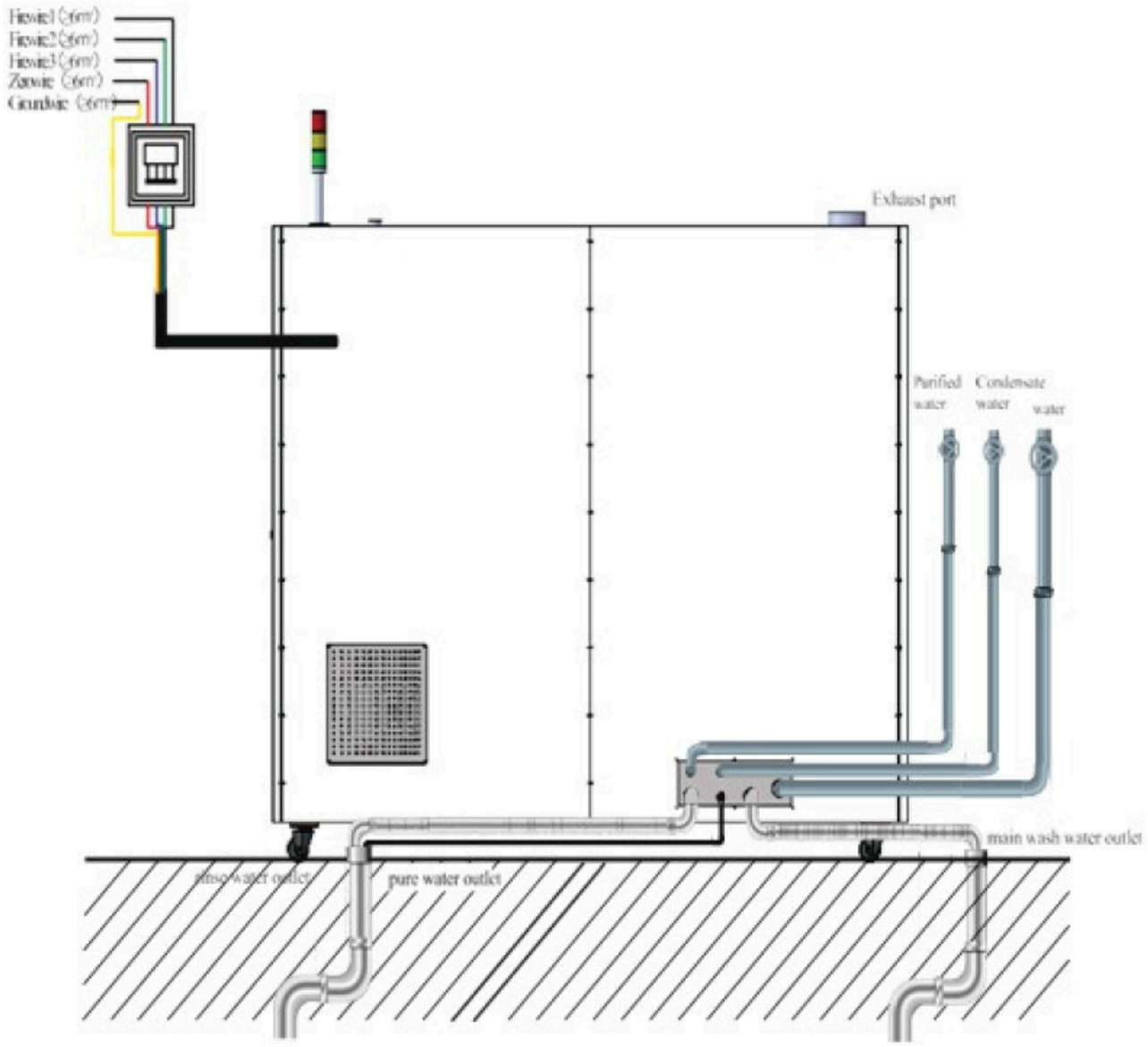
Orchid Scientific's CW-C1 Series Cage and Bottle Washer is designed for facilities that require a heavy-duty washer with the same features as a floor mounted cage washer but in a cabinet configuration. The automatic cage washer equipment designed by Orchid Scientific is according to the requirements of users in the laboratory animal industry for cage cleaning. It uses hot water combined with acidic or alkaline cleaning agent, high pressure and large flow spray method to achieve the automatic spray cleaning process for cage boxes, box covers, metal gride and drinking bottles.

Designed To Match Requirements Of Users In The Laboratory Animal Industry For Cage Cleaning

CLEANING PRINCIPLE

Principle: Water in the cleaning chamber is circulated using the circulating pump and sprayed at higher pressure over the uncleaned cages through the spraying arm and nozzles so as to clean the cages. High-temperature purified rinsing water is recycled as the cleaning water for the next process, saving resources.

	Acid Cleaning Process	Alkaline Cleaning Process
Application	Effectively remove urine stains and lime dirt, especially suitable for cleaning PSU animal cages and drinking bottles.	Effectively remove various organic residues in rodent cages.
Material Compatibility	PP, PSU, PC, PEI and stainless-steel material, etc.	
Automatic Spray Cleaning	Acid liquid, High efficiency cleaning agent without surfactant.	Alkaline liquid without surfactant, phosphates and oxidants. It is recommended to use an acidic cleaning agent after alkaline cleaning
Drying	Adequate rinsing can avoid the formation of scale spots on the surface after drying. Polysulfone (PSU) materials must use surface - free cleaning agents & Cage surface must be free from any traces of the detergent before drying / autoclaving	



STRUCTURE

- Door: Vertical lift glass door.
- Door sealing system: Inflatable expansion silicon resin seal.

MATERIAL

The shell material is S.S. 304 stainless steel.
Cleaning Chamber - S.S 316 L

CONTROL SYSTEM

- PLC control with 9-inch touch screen HMI.
- Two cleaning types: Quick Clean (without detergent) and Standard Cleaning (with detergent) with 12 protocols in each type.
- Equipped with automatic start program

CLEANING SYSTEM

- Standard Cycle: Cleaning temperature ≥55°C, rinse temperature upto 80°C. In case of Standard cleaning method, provision for detergent time from 1 to 200sec is given and rinsing time is 1 to 18 sec with 1 to 3 times repeatability selectable as per user requirement.
- Equipment fitted with two peristatic pump/ dosing pump for acid & alkaline detergent.
- Quick cleaning method is without detergent with washing time in the range of 1 to 20min, rinsing time in the range of 1 to 200sec selectable as per user requirement.
- Cleaning volume upto 32cages/cycle, upto 100 drinking bottle/cycle (depending on cage and bottle sizes).
- Washing arm design: Three sparing arms fitted with 44 washing nozzles and 86 rinsing holes.
- Circulating pump spray cleaning (1200 L/min), equipped with variable frequency soft start function, reduce the damage to the cages.
- The rinsing system is equipped with an independent temperature control water tank, spray pipelines and spray water pumps.
- The pressure of the cleaning faucet is ≥1.5 Bar, the rinsing tap is ≥ 1.4 Bar.
- Cages and bottles can be in placed in different angles by adjusting/ tilting the angle of baskets. For increasing the holding capacity of the cages and cleaning efficiency, appropriate angle of basket must be selected.

SAFETY PROTECTION

- Equipment is fitted with Door locking device which prevents the machine from working when door is open.
- The control Panel has the emergency stop device.
- Power-off protection: automatically close the water supply and steam pipelines when the power is off.
- Pressure protection for cleaning chamber: It has a pressure release device to avoid excessive pressure in the cleaning chamber.
- Abnormal situation alarm: buzzer and visual.

CAGE CAPACITY PER CYCLE

Cage Model (Orchid's IVC Cage)	Number of cages per cycles
US 300 Lid	32
US 300 Tray	32
US 500 Lid	28
US 500 Tray	28
US 900 Lid	12
US 900 Tray	12

ORDERING INFORMATION :

Model	Internal dimensions (LxWxH) mm	External dimensions (LxWxH) mm	Material of Construction	Power requirement	Accessories Supplied	Optional Accessories
CW-C1	1550x750x1070	2050x950x2050 (±10) (After opening the Door, total height will be 2350 mm)	Stainless Steel 304	380V AC 50Hz Three phase supply	Supplied with: Baskets for holding cages of any 1 size: 04 Nos Basket for holding water bottles of 300ml capacity: 04 Nos Stand for increasing the height by 260mm: 01	Compressor: 30Ltr, ¼ HP, 8 bar, 1440 rpm Stabilizer required if any to achieve 380V, 50 Hz, 60KVA.

Note: Note: Specifications are subject to change without prior intimation

Note: The user needs to share the cage, lid, grill, and water bottle sizes along with the order so that baskets are manufactured according to the cage sizes. Estimation for the number of cages per cycle is given on the basis of Orchid Scientific's IVC cage models US300, US500, and US900. The number may vary for the cages from different manufacturers.

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