

Advantages Of Orchid's IVC System Over Other Available Brands

Parameters	Orchid	Others
IVC Ventilator Unit (AHU) with UV-C light for disinfection of exhaust air	<p>Orchid's IVC Ventilator Unit (AHU) is fitted with inbuilt UV-C light inside the cabinet for disinfection of the exhaust air coming from cages before releasing to external environment.</p> <p>Providing Three-stage exhaust air treatment- Pre-filter, HEPA Filter, and UV-C lamp.</p>	No additional protection for disinfection of exhaust air.
IVC Ventilator Unit (AHU) with PLC error indication & Analogue Mode	Orchid's IVC Ventilator Unit (AHU) has PLC error indication provision, so in case of PLC failure, the error lamp will glow and user can run the system in manual mode without need of PLC. This will prevent immediate failure of system due to PLC error.	No alternative for PLC control. If PLC fails, complete system will stop.
IVC Ventilator Unit (AHU) with Hydrogen Peroxide Disinfection mode	H2O2 disinfection mode is provided inbuilt and log for the disinfection cycle is also taken for compliance.	No H2O2 mode and logs
Cage Lock Ergonomics	<p>Orchid's IVC Cages have specially designed finger touch lock which gives easy to operate air tight cage and these locks are made of Polysulfone material.</p> <p>Locks are designed in such a way that, when lids are stacked for cleaning and washing, locks of lid don't touch each other preventing any damage to the lock.</p>	Cage lock are made from Nylon material. Cage locks are more prone to breakage as locks touch each other during lid stacking.

<p>More secure Lid gasket – Less Maintenance</p>	<p>Special grade silicone gasket is securely positioned inside the groove of the cage lid protecting it from damage and at the same time imparting an air tight safe system</p>	<p>Hard nylon gasket gets dents during the handling and leads to air leakage.</p> <p>Nylon gasket is fitted on stainless steel grill which is open from all sides and easily gets damaged leading to more recurring maintenance cost.</p> <p>Some cages have silicon gasket fitted either on tray or on the grill so that gasket is open for any physical damage during cleaning, washing and autoclaving.</p>
<p>Rat IVC Cage floor space and Double supply and exhaust valves</p>	<p>Orchid's Rat IVC Cage has floor space of more than 900 cm², accommodating more number of animals compared with cages of other suppliers.</p> <p>Similarly, to achieve proper ventilation, Orchid's Rat IVC Cage is fitted with two air supply and two air exhaust valves giving sufficient ventilation.</p>	<p>Floor space equal to 800 cm sq. accommodating lesser animals.</p> <p>Cage is fitted with only one supply and exhaust valves giving lesser ventilation to the animals.</p>
<p>Cage with Enhanced breathing filter area</p>	<p>Orchid's Mice IVC Cage has a breathing filter area of 105 cm², whereas Rat IVC Cage has a breathing filter area of 208 cm².</p>	<p>The breathing filter area of the Mice and Rat IVC Cage is just 45cm².</p>

Performance evaluation	Orchid's system is tested for different evaluation tests like Smoke recovery test, Aeraulic test, air velocity at animal level, air leakage test, Differential pressure test, Vibration test, sound level test on site.	Only sound level, Aeraulic test is done on site.
Low maintenance cost of Spares	All cage plastic parts like Cage filter plate, cage lock, rack valve are made from polysulfone polymer so they have more life compared to the parts made of Nylon.	Cage and rack plastic parts are made from nylon material, so there are more chances of breakage, leading to recurring maintenance cost.



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