

**NATIONAL CENTRE FOR SUSTAINABLE COASTAL MANAGEMENT**

Ministry of Environment and Forests (MoEF)

Koodal Building, Anna University Campus

Chennai – 600025

**ITEM: LABORATORY GLASS WASHER AND DRYER****QTY : 1 NOS**

Technical Specification for Laboratory Glass Washer and Dryer

<b>Chamber volume litres</b>	<b>175 L</b>
<b>Wash Levels</b>	<b>1 to 3 with upper level height adjustable ( 2 positions)</b>
<b>Total Electric Power</b>	<b>10 kW</b>
<b>Voltage</b>	<b>230V</b>
<b>Water Consumption</b>	<b>15 L per fill</b>
<b>Heat Loss</b>	<b>3410 Btu/hr – 4760 kcal/hr</b>
<b>Heating</b>	<b>9kW</b>
<b>Noise Level</b>	<b>&lt; 63 dBa</b>
<b>Drying</b>	<b>1.8 kW</b>
<b>Chamber Volume</b>	<b>~175 litre</b>
<b>Water Supply</b>	<b>Cold, Hot and Distilled water</b>
<b>Flow</b>	<b>~20 L/min</b>
<b>Pressure</b>	<b>~29-87 psig or 2-6 bars</b>
<b>Features</b>	
• <b>Ergonomic and safe loading of racks on load bearing telescopic runners</b>	
• <b>Choice of present and user customised PIN code protected programs</b>	
• <b>Accurate and repeated intake of cleaning chemicals by automatic peristaltic dosing pumps</b>	
• <b>Robust high grade stainless steel construction</b>	
• <b>Cost effective – low life cycle costs and efficient operation uses less resources and inventory</b>	
• <b>Eco-friendly, low energy, chemicals and water usage</b>	
• <b>Chemical storage facility</b>	
• <b>Free standing</b>	
• <b>Large capacity and volume with three levels cleaning in a small footprint</b>	

• <b>Powerful and rapid HEPA filtered drying through injectors and in wash chamber</b>
• <b>Increased safety with on board storage and input of chemicals</b>
• <b>Higher grade 316 L Stainless Steel Chamber</b>
• <b>Fast cycles and outstanding results from powerful wash action and design</b>
• <b>Easy to use microprocessor controls with self-diagnostic software and alarms</b>
• <b>Flexibility of multilevel injection washing and interchangeable racks</b>
• <b>All sizes and types of glassware cleaned with chamber configuration choices</b>
<b>RACKS/ACCESSORIES</b>
• <b>Basic Baskets: Clean beakers and other wide mouth items on lowest level.</b>
• <b>DNA sequencing plate and Microwell plate</b>
• <b>Pipette racks (grommet and canister)</b>
• <b>HPLC/GC Vial racks</b>
• <b>Culture dish rack</b>
• <b>Mesh baskets</b>
• <b>Combination racks</b>
• <b>Loading trolleys/carts</b>