

LABOid



Water Distillation Unit
Cabinet Model:-LWDC Series

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Cabinet model



Introduction :-

LWDC stills high quality Borosilicate 3.3 Glass incorporating a high quality double coil condenser and boiler system or Semiconductor Grade Quartz for the double coil condenser and boiler system , combined with a silica glass sheathed heating element which provides a high quality pyrogen-free output with conductivity $<0.4 \mu\text{S/cm}$ for Quartz distillation models.

The unique condenser design ensures that the droplets of distilled water remains in contact with cooling coils for the longest possible time producing cold distilled water and preheated boiler input which increases efficiency of the unit.

A flow sensing device will detect any reduction in the flow of cooling water below the required level and will turn off the still before it can overheat. As a fail-safe device there is an over temperature sensor mounted in the boiling chamber.

The LWDC is very easy and safe to assemble and maintain. Both the acrylic safety screen and the cabinet lids are removable giving unrivalled access to the glassware components.

Screw threads are incorporated on all water connections so hoses can be fitted and removed easily and safely without risk of breakage.

Feature :-

Gate valve to prevent water wastage.

Flow switch for boiler safety.

Teflon drain cork for east maintaince.

Flow control safety to monitor low presser condenser flow.

Reservoir level sensor incorporated for automatic operation of the still.

Quartz heaters.

CLEANING :-

Cleaning acid to the boiler can be poured through a funnel .A Rota flow stopcock allows simple draining of chemicals after cleaning. The boiler is flushed with clean water before restart. LWDC stills can be removed easily to access glass parts and components internal connections to the condensers are made with screw threaded connectors.

LWDC SINGLE DISTILLATION

MODEL	LWDC- 200S	LWDC- 400S	LWDC - 800S
Output	2 litres/hr, single distilled	4 litres/hr, single distilled	8 litres/hr, single distilled
Boiler	Borosilicate	Borosilicate	Borosilicate
Condenser	Borosilicate	Borosilicate	Borosilicate
pH	5.5 - 6.0	5.5 - 6.0	5.5 - 6.0
Conductivity μScm^{-1}	1.0-2.0	1.0-2.0	1.0-2.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content*	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min, 3 - 100psi (20-700kPa)	2 litre/min, 3 - 100psi (20-700kPa)	2 litre/min, 3 - 100psi (20-700kPa)
Electricity supply	220 or 240V,50-60Hz Single phase	220 or 240V,50-60Hz Double phase	220 or 240V,50-60Hz Double phase
Power requirement	1.5kW	3kW	6kW

LWDC DOUBLE DISTILLATION:

MODEL	LWDC- 200D	LWDC- 400D	LWDC - 800D
Output	2 litres/hr, Double distilled	4 litres/hr, Double distilled	8 litres/hr, Double distilled
Boiler	Borosilicate	Borosilicate	Borosilicate
Condenser	Borosilicate	Borosilicate	Borosilicate
pH	6.0-7.0	6.0-7.0	6.0-7.0
Conductivity μScm^{-1}	0.8-1.0	0.8-1.0	0.8-1.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content*	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min x 2 Input,3 -100psi, (20-700kPa)	2 litre/min x 2 Input,3 -100psi, (20-700kPa)	2 litre/min x 2 Input,3 -100psi, (20-700kPa)
Electricity supply	220 or 240V,50-60Hz Single phase	220or240V,50-60Hz Double phase	220 or 240V,50-60Hz Three phase
Power requirement	3kW	6kW	12kW



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