# Intech

### Automatic Cabinet Water Still IDO Series



Flow Control Safety: enables you to use IDO under low pressure sources, a

A Gate Valve: to prevent wastage of cooling water in the event of power

Level Sensor: A level sensor is incorporated for the safety of boiler, in the

All IDO stills are manufactured either from high quality PYREX Brand

Borosilicate Glass incorporating a high quality double coil condenser

and boiler system or using GE 214 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 µS/cm for Quartz distillation models. The design of a double coil condenser also ensures a much lower temperature of distillate at output ready for immediate use. The IDO has been designed for

fully automatic operation, when connected to a reservoir. Depending on the

Cleaning acid to the boiler can be poured through a funnel. A Rotaflow stopcock allows simple draining of chemicals after cleaning. The boiler is

flushed with clean water before restart. IDO Stills can be table mounted / wall

mounted. The tint cover and cabinet roof can be removed easily to access glassparts and components. Internal connections to the condensers are made

Reservoir Level Sensor: Incorporated for automatic operation of the still.

HIGH OUALITY, LOW TEMPERATURE OUTPUT

SALIENT FEATURES

event of no water in the boiler.

condition in which other stills cannot operate.

water in the reservoir, the unit will switch On/Off.

with screw threaded connectors.

Intech presents IDO series of automatic cabinet water stills for trouble free distillation in the laboratory. The IDO provides ultra high purity water for demanding applications in the laboratory / tissue culture work. The IDO stills incorporate several safety devices for automatic operation for use in hospitals and labs. The still incorporates all electrical safety standards IEC

### IDO IN BOROSILICATE GLASS

IDO 45: Made from PYREX Brand Borosilicate Glass is an ideal water still for high purity water producing 4 Ltrs of single distilled water. IDO 85: Made from PYREX Brand Borosilicate Glass Designed for laboratories using high volume production of high purity distilled water, produces 8 Ltrs of single distilled water.

IDO 4D: Made from PYREX Brand Borosilicate Glass for specialized high level research, biological and medical laboratories, capable of producing 4 Ltrs/hr high purity double distilled water.

### IDO IN TRANSPARENT FUSED QUARTZ

IDO 8SQ IDO 4DQ

IDO 4SQ Cabinet Stills made from Transparent Fused Quartz, which does not dissolve in water hence very low conductivity. Quality of water is ideal for Bio-medical research and tissue culture work.

> \* S-Single Distillation \* D-Double Distillation \* Q-Construction in Transparent Fused Quartz.

## TECHNICAL SPECIFICATION

Models (Borosilicate Glass)	IDO – 4S	IDO – 8S	IDO – 4D
Output (ltrs/hr)	4. Single distilled	8, Single distilled	4. Double distilled
pH	5.5 - 6.0	5.5 - 6.0	6.0 - 7.0
Conductivity µS/cm*	1.0 - 2.0	1.0 - 2.0	0.8 - 1.0
Cooling water input for condenser	2 ltrs/min	2 ltrs/min x 2 Inputs	2 ltrs/min x 2 Inputs
Power	230 V	230 V	230 V
	50/60 Hz	50/60 Hz	50/60 Hz
	Single phase, 3 KW	Single phase, 6 KW	Single phase, 6.5 KW
		Or 2 Phase (as reqd)	Or 2 Phase (as reqd)
Models (Quartz)	IDO - 4SQ	IDO - 8SQ	IDO - 4DQ
Output (ltrs/hr)	4. Single distilled	8, Single distilled	4, Double distilled
Quality of distillate	Grade II	Grade II	Grade I – Distillate must
1507			be tested before use
pH	5.0 - 8.0	5.0 - 8.0	Not specified
Conductivity µS/cm*	0.5 - 0.8	0.5 - 0.8	0.1- 0.5
Cooling water input for condenser	2 ltrs/min	2 ltrs/min x 2 Inputs	2 ltrs/min x 2 Inputs
Power	230 V	230 V	230 V
	50/60 Hz	50/60 Hz	50/60 Hz
	Single phase, 3 KW	Single phase, 6 KW	Single phase, 6.5 KW
		Or 2 Phase (as reqd)	Or 2 Phase (as reqd)

<sup>\*</sup> Output quality would depend on the quality of the boiler feed inlet water & other environmental factors.

Note on pH:- Because of the difficulties associated with measurement of pH value of high purity water and the doubtful significance of the value obtained, limits for the pH values are not mentioned for Grade I and Grade 2 water.

Note on Distilled Output:- All parameters have been tested under standard test laboratory conditions. Also, the output distillate is rated for 230V input. Incase of voltage drop, the output would decrease accordingly.

## Perfection in Laboratory Science

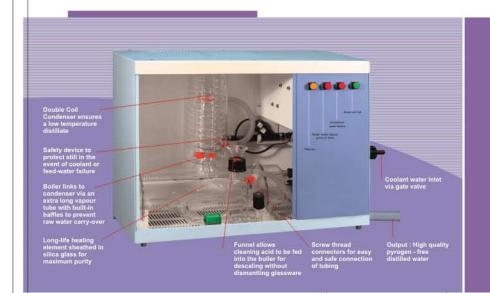
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An ISO 9001:2000 Certified Company

# Automatic

# Cabinet Water Still

IDO Series





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<sup>\*</sup> Design & Specifications are subject to change without any prior notice.