

DISTILLATION / LABORATORY WATER PURIFICATION

# WATER DISTILLATION UNIT - SINGLE

Single-stage distillation for routine laboratory water.

The ALC-WDU-01 Water Distillation Unit - Single is a compact stainless-steel system for producing laboratory distillate from a suitable tap-water feed using single-stage boiling and condensation.



**DISTILLATION RATE** 1 L/hour approx.

**MATERIAL** SS 304

**POWER** 750 W approx.

MODEL

ALC-WDU-01

CATALOGUE NUMBER

To be confirmed

#### REFERENCE SPECIFICATION SET

Values shown are reproduced from supplied ALC-Scientific artwork; final procurement values require approved datasheet confirmation.



## PRODUCT OVERVIEW

# Single-stage distillation for routine laboratory water.

The ALC-WDU-01 reference configuration integrates a stainless-steel boiling chamber, condenser, control housing, water-level indication and distillate outlet. It is intended for routine laboratory water preparation. Distillate quality depends on feed water, installation, maintenance and operating conditions.



## DISTILLATION RATE

1 L/hour approx.

## MATERIAL

SS 304

## POWER

750 W approx.

## Key Features

- Single-stage laboratory distillation
- SS 304 reference wetted construction
- Efficient condenser arrangement
- Automatic water-level control
- Boil-dry protection and automatic cut-off
- Compact benchtop format
- Simple cleaning and maintenance access

## Working Principle

Feed water is heated to produce steam. The steam enters the condenser, where cooling water removes heat and converts it back into liquid distillate. Non-volatile impurities remain in the boiling chamber and must be removed through routine descaling.

### TYPICAL APPLICATIONS

General laboratory water preparation / Media and reagent preparation where suitable / Biochemistry and microbiology laboratories / Rinsing and cleaning workflows / Pharmaceutical and analytical laboratories



## REFERENCE TECHNICAL DATA

# Final values require approved model-datasheet confirmation.

PARAMETER	REFERENCE SPECIFICATION
Model	ALC-WDU-01
Type	Single distillation
Material	Stainless steel SS 304, reference
Distillation rate	1 L/hour, approx.
Conductivity	2 - 4 microS/cm, approx.
pH range	5.5 - 6.5, approx.
Power consumption	750 W, approx.
Power supply	220 - 240 V AC, 50 Hz
Water source	Tap water
Safety	Boil-dry protection and automatic cut-off
Water-level control	Automatic, reference
Dimensions	300 x 220 x 520 mm, approx.
Weight	5.5 kg, approx.

## STANDARD SUPPLY

- Water distillation unit
- Connecting pipe
- Overflow pipe
- Operation manual

## INSTALLATION

- Stable, level bench
- Earthed AC supply
- Suitable feed-water connection
- Cooling-water and drainage arrangement
- Descale at the approved interval

## TO BE CONFIRMED

- Feed-water pressure and consumption
- Cooling-water flow requirement
- Distillate quality verification method
- Warranty period
- Installation and compliance documentation



## LABORATORY APPLICATIONS

# A practical source of routine laboratory distillate.

## Applications

- General laboratory water preparation
- Media and reagent preparation where suitable
- Biochemistry and microbiology laboratories
- Rinsing and cleaning workflows
- Pharmaceutical and analytical laboratories
- Educational and research institutions

## Product Advantages

- Straightforward single-stage operation
- Compact laboratory installation
- Stainless-steel reference construction
- Automatic water-level control
- Boil-dry safety protection
- Routine output for laboratory preparation



SCAN FOR PRODUCT PAGE

## Request a model-specific quotation.

Share your application, required capacity or range, preferred configuration, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved technical datasheet and quotation.

### ALC-SCIENTIFIC LABORATORY SYSTEMS

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OEM / PRIVATE LABEL AVAILABLE

Product images are for reference and may vary according to the selected configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those stated in the approved technical datasheet and commercial quotation. Standard warranty: To be confirmed according to the selected product and approved commercial quotation.