

PRODUCT SPECIFICATION

Shenzhen Kaisinuo Technology Co., Ltd.

Internal Product Specification

Revision History

Version	Revised By	Revision Date	Description
A1.0	Kiki / Yue Zhao	November 8, 2023	Created

Product Model: AYD2.5D

Brand: Yaufey

Product Name: Dehumidifier

DEHUMIDIFIER

1. Product Description

The AYD2.5D is a powerful commercial dehumidifier designed for large rooms and basements. It can remove up to **158 pints of moisture per 24 hours** under conditions of **95°F and 90% relative humidity**.

It is suitable for basements, laundry rooms, cellars, warehouses, garages, workshops, and commercial and industrial areas.

The dehumidifier features a built-in humidity sensor that intelligently detects and maintains indoor humidity at the desired level. The humidity setting can be adjusted from **10% to 90% RH**.

Additional features include a **24-hour ON/OFF timer** and **continuous drainage**.

2. Applications

- Large areas
- Commercial applications, including warehouses, grow rooms, basements, garages, cellars, libraries, laboratories, and more

3. Product Specifications

Specification	Details
Model	AYD2.5D
Rated Voltage/Frequency	115V / 60Hz
Total Input Current	8.5A

Specification	Details
Input Power (65°F, 60% RH)	500W
Input Current (65°F, 60% RH)	5.4A
Dehumidification Capacity (65°F, 60% RH)	48.5 Pints/Day (23 L/Day)
Dehumidification Capacity (80°F, 60% RH)	74 Pints/Day (35 L/Day)
Dehumidification Capacity (86°F, 80% RH)	123 Pints/Day (58 L/Day)
Dehumidification Capacity (95°F, 90% RH)	158 Pints/Day (74.76 L/Day)
Motor/Compressor	RLA: 6.4A; LRA: 30A
Refrigerant / Charge	R410A / 450g
High Pressure	580 psi (4.0 MPa)
Low Pressure	247 psi (1.7 MPa)
Noise Level	63 dB
Product Dimensions	538 × 438 × 405 mm (21.18 × 17.24 × 15.94 in)
Carton Dimensions	673 × 530 × 470 mm (26.5 × 20.87 × 18.5 in)
Net Weight	33.1 kg
Gross Weight	37.1 kg
Recommended Coverage Area	7,500 sq. ft.
Drain Hose Length and Diameter	5 m / ϕ5 mm
Container Loading Quantity	340 units
Certification	TÜV
Child Lock	No
Drainage Method	Pump Drainage
Accessories	1. Three-piece instruction manual set 2. Silicone Water Hose

4. Product Appearance Drawing

5. Product Operating Principle

6. Product Functions

1. Power Button

Turns the unit on or off for easy operation.

2. Set Button

Used to set the humidity level, timer, cleaning mode, and other settings.

3. Timer Setting

In standby mode, press the button to set the timer for automatically starting the unit.

The LED display will show the time. Press the “+” or “-” button to adjust the timer. The timer can be set from **01 to 24 hours**.

4. Automatic Defrost Function

When frost forms on the evaporator coil, the compressor will stop operating while the fan continues to run until the frost melts.

During defrosting, the “**Defrost**” indicator will illuminate on the LCD display.

5. Humidity Setting

Press the button to preset the desired humidity level.

The humidity range is **10% RH to 90% RH**, adjustable in **1% RH increments**.

The set humidity must be at least **5% RH lower than the indoor humidity**.

After setting the target humidity, press “**OK**” or wait **5 seconds** to confirm.

For continuous dehumidification, set the humidity level to **10% RH** to activate continuous dehumidification mode. The corresponding icon will illuminate.

6. Pump ON/OFF Button

When the unit is used for the first time, the pump is turned off by default.

Press the button to turn the pump on. When the unit is turned off, the pump function will retain its setting. When the unit is turned on again, the pump will remain activated.

Press the button again to turn the pump off. The pump will remain off the next time the unit is started.

7. Product Packaging

8. Labels and Nameplate

9. Cleaning and Storage

Cleaning

It is recommended to clean the air filter with a soft cloth and water approximately once a month.

Make sure the filter is completely dry before reinstalling it.

Storage

Clean the base and air filter, then cover the dehumidifier with a protective bag.

Store the unit **upright in a well-ventilated area**.

10. Product Sample Photos