

# NINGBO FUDA

## PERFORMANCE TEST REPORT

### SCOPE OF WORK

<DOE TESTING – DEHUMIDIFIER - SEE PAGE TWO>

### REPORT NUMBER

2311A0298SHA-001

### ISSUE DATE

01-December-2023

### [REVISED DATE]

[None]

### PAGES

8

### DOCUMENT CONTROL NUMBER

TTRF\_10CFR 430 SUBPART B APPENDIX X1





Total Quality. Assured.

**DOE TEST REPORT**

**INTERTEK TESTING SERVICES SHANGHAI LIMITED**

BUILDING NO.86, 1198 QINZHOU ROAD (NORTH), SHANGHAI, CHINA 200233  
WWW.INTERTEK.COM

Issued: December 01, 2023

Intertek Report No. 2311A0298SHA-001

Intertek Project No. 2311A0298SHA

**PERFORMANCE TEST  
OF  
DEHUMIDIFIER  
RENDERED TO**

**Ningbo Fuda Intelligent Technology Co., Ltd  
CHINA**

**GENERAL:** This Report gives the results of Performance Tests of dehumidifier. Models: FDD12-5093B1V1R5, FDD12-5092B1V1R5, FDD12-5091B1V1R5, FDD12-5090B1V1R5, FDD12-5093B1V1R5-1, FDD12-5092B1V1R5-1, FDD12-5091B1V1R5-1, FDD12-5090B1V1R5-1. This investigation was authorized by Mr. Zhu Jinggeng on November 10, 2023. The investigation was begun on November 15, 2023 and completed on November 20, 2023. Each of prototype samples in good condition was provided by the client on November 14, 2023 and tested at Intertek Testing Services Shanghai Limited. (7F, Building 51, No. 1089, Qinzhou North Road, Shanghai, China).

**10CFR 430 SUBPART B APPENDIX X1**

**Applicant:**  
Ningbo Fuda Intelligent Technology Co., Ltd.

**Manufacturer:**  
Ningbo Fuda Intelligent Technology Co., Ltd.

**Address:**  
No.1 Zhenhua Road, Zhennan Village, Simen Town,  
315470 Yuyao, Zhejiang Province, China.

**Address:**  
No.1 Zhenhua Road, Zhennan Village, Simen  
Town, 315470 Yuyao, Zhejiang Province, China.

**Contact:** Mr. ZHU  
**Phone:** --  
**Fax:** --

**Contact:** Mr. ZHU  
**Phone:** --  
**Fax:** --

**An independent organization testing for safety, performance, and certification.**

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



Total Quality. Assured.

**DOE TEST REPORT**

Report No. 2311A0298SHA-001

**Sample Descriptions:**

Model Number.....: FDD12-5093B1V1R5

Sample Sizes.....: 2

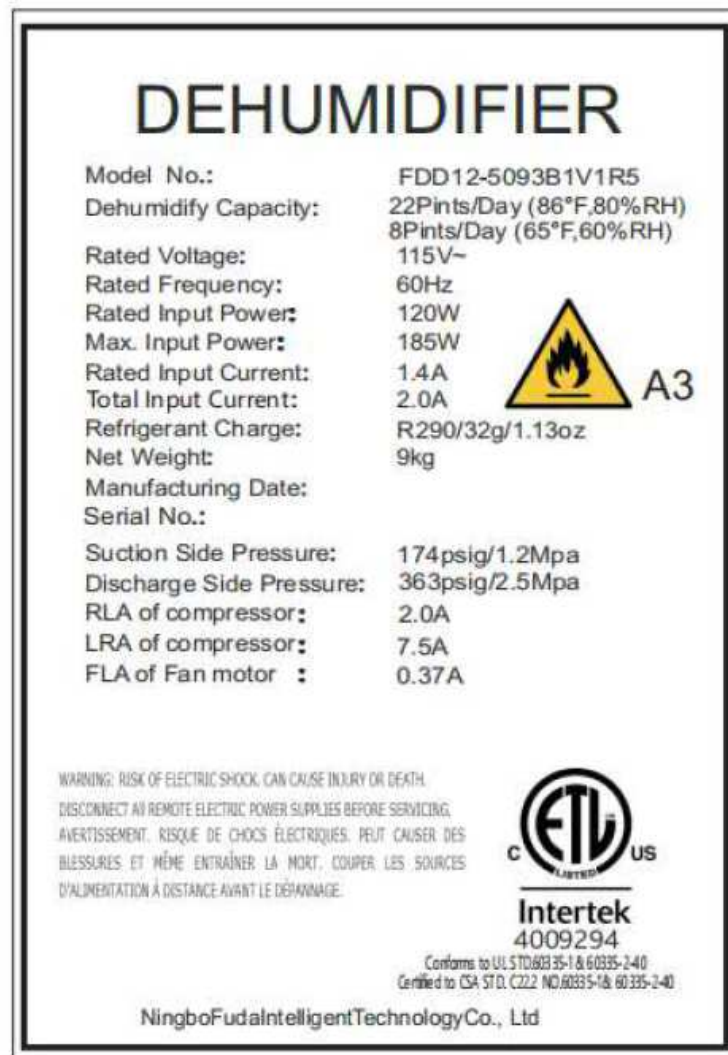
Brand Name. ....: NA

Ratings .....: 115V/60HZ, R290

Rated Product capacity .....: 8 pints/day (65°F, RH60%)

Remark: None.

Marking Plate: (All models in this report are same appliances except different appearance.)



Remark: The parameters for other models are same as FDD12-5093B1V1R5, only model number on nameplate is different.

**Photos:**





Total Quality. Assured.

## DOE TEST REPORT

Report No. 2311A0298SHA-001

### Critical Components Table:

Object / part No.	Manufacturer/ trademark	Type / model	Technical data
Compressor	NINGBO ANUODAN MACHINERY CO LTD	QD32R11	110-120VAC, 60Hz, R290
Fan motor	Ningbo Fuda Intelligent Technology Co., Ltd	YJF611611060B003	115VAC, 60Hz, 0.30A, 19.6W



Total Quality. Assured.

## DOE TEST REPORT

Report No. 2311A0298SHA-001

### Test results:

Model number of Unit Under Tested	FDD12-5093B1V1R5	
Sample Number	1	2
Dry-bulb temperature of entering air (°C)	18.29	18.29
Dry-bulb temperature of entering air (°F)	64.9	64.9
Wet-bulb temperature of entering air (°C)	13.71	13.69
Wet-bulb temperature of entering air (°F)	56.7	56.6
Applied voltage (V)	114.6	114.7
Ampere input (A)	1.37	1.37
Power input (W)	115.4	116.5
Duration of the test (hr)	6.00	6.00
Weight of condensate (lb)	2.14	2.15
Capacity - tested, Ct (pints/day)	8.22	8.26
Dehumidifier inactive mode power or off mode power ( $P_{IO}$ )(W)	0.28	0.28
Dehumidifier off-cycle mode power ( $P_{OC}$ )(W)	1.55	1.57
Annual combined low-power mode energy consumption ( $E_{TLP}$ )(KWh/year)	3.37	3.40
Integrated energy factor(IEF)(L/KWh)	1.37	1.36



Total Quality. Assured.

## DOE TEST REPORT

Report No. 2311A0298SHA-001

Sample no.	Dehumidify capacity(pints/day)	Integrated energy factor(IEF)(L/KWh)
Sample 1	8.22	1.37
Sample 2	8.26	1.36
Sample mean	8.24	1.37
95 percent confidence(LCL)/0.9	--	1.48

Verification of DOE and CEC	
Models:	FDD12-5093B1V1R5,FDD12-5092B1V1R5,FDD12-5091B1V1R5,FDD12-5090B1V1R5,FDD12-5093B1V1R5-1,FDD12-5092B1V1R5-1,FDD12-5091B1V1R5-1,FDD12-5090B1V1R5-1
Equipment type:	Portable dehumidifier
Dehumidify capacity:	Tested:8.24(pints/day), Rated:8(pints/day)
Integrated energy factor(IEF)	1.37
DOE and CEC requirements	IEF>1.30 (L/KWh)
Verdict	Pass

### Conclusion:

From the results of our testing on the submitted samples, we are of the opinion that the samples comply with the requirements of DOE and CEC.

Report prepared by:

Project Engineer  
Wendy Wang

Report approved by:

Technical Supervisor  
Vicent Ni