

Portable Air Conditioner Test Report

Report Number	2411B1124SHA-002
Test Laboratory Name / Address	Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Applicant Name / Address	Ningbo Fuda Intelligent Technology Co., Ltd. No.1 Zhenhua Road, Zhennan Village, Simen Town, 315470, Yuyao, Zhejiang Province, People's Republic of China
Manufacturing Name / Address	Ningbo Fuda Intelligent Technology Co., Ltd. No.1 Zhenhua Road, Zhennan Village, Simen Town, 315470, Yuyao, Zhejiang Province, People's Republic of China
Product	Single Duct Portable Air conditioner
Brand Name	FUDA(for model FDPH41-3031ZPWV1R3), HOMCOM(for model 823-069V81WT)
Description	The product covered by this report is a household, indoor use, cord connected portable air conditioner.
Model(s)	FDPH41-3031ZPWV1R3, 823-069V81WT
Model Similarity (if applicable)	1. Model FDPH41-3031ZPWV1R3 has heating and cooling function by reverse cycling. Model 823-069V81WT has cooling function only; 2. Model FDPH41-3031ZPWV1R3 has WI-FI function; 3. Both models have different appearance of control panel; Both models share similar electrical construction and components.
Rated voltage(V)	115
Rated input frequency(Hz)	60
Rated cooling input power(W)	N/A
Rated heating input power(W)	N/A
Rated SACC (BTU/h)	9200
Rated heating capacity (BTU/h)	11000
Date of receipt of sample(s)	May 6, 2023
Date of test	May 6, 2023 ~ May 7, 2023
Test standard(s) or criteria(s)	Appendix CC to Subpart B, Part 430 of Title 10 to the United States Code of Federal Regulations
Conclusion	Refer to Page 4
Date of issue	November 18, 2024

Prepared by:



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Approved by:



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Reviewer

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The test report only allows to be revised only within the report defined retention period unless standard or regulation was withdrawn or invalid.
Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

Product Information

Model number of Unit Under Tested	FDPH41-3031ZPWV1R3
Type of unit	Single-duct
Air-conditioner Type	Reverse cycle
Power Supply	Single phase
Refrigerant	R32

Test Equipments

Equipment Name	Manufacturer/Type	Type/model	Calibration Date	Due Date
Multiple function performance&safety chamber	OUCENG	EC5001	21/Dec/2022	20/Dec/2023
Digital Power Meters	WT 230	EC5001-1	21/Dec/2022	20/Dec/2023
Digital Power Meters	WT 230	EC5001-2	21/Dec/2022	20/Dec/2023

Critical Components

Name	Manufacturer/ trademark	Type/model	Technical data
Compressor	GUANGDONG MEIZHI COMPRESSOR LTD	KSM113E1UDZ	115V, 60Hz, R32
Capacitor for compressor	Various	Various	250VAC, 50/60Hz, 70 μ F
fan motor(Upper)	Ningbo Fuda Intelligent Technology Co., Ltd.	YY-60-6D	110-120VAC, 60Hz
Capacitor for fan motor(Upper)	Various	Various	250VAC, 50/60Hz, 12 μ F
fan motor(Down)	Ningbo Fuda Intelligent Technology Co., Ltd.	YY-110-6D	110-120VAC, 60Hz
Capacitor for fan motor(Down)	Various	Various	250VAC, 50/60Hz, 12 μ F

Cooling Capacity Test

Date of Test	May 7, 2023	May 7, 2023
Tested Model	FDPH41-3031ZPWV1R3	FDPH41-3031ZPWV1R3
Sample number	1	1
Barometric pressure (PSI)	15.006	15.006
Applied voltage (V)	114.5	114.3
Frequency (Hz)	60	60
Current input to test unit (A)	10.51	10.52
Power input to test unit (W)	1183.30	1185.71
Dry-bulb temperature of indoor air (°F)	80.08	80.06
Wet-bulb temperature of indoor air (°F)	66.96	67.08
Dry-bulb temperature of outdoor air (°F)	80.04	80.08
Wet-bulb temperature of outdoor air (°F)	66.92	66.88
Indoor Air flow (m3/h)	380.31	381.68
Total Cooling Capacity (Btu/hr)	11152.12	11167.31
Sensible Cooling Indoor Side (Btu/hr)	7254.94	7263.91
Latent cooling capacity (Btu/hr)	3897.19	3903.36
The outer diameter of duct, d(foot)	0.492	0.492
The extended length of duct, L(foot)	3.445	3.445
Surface Area of Duct (ft2)	5.326	5.326
Average Surface Temperature for the Condenser Exhaust Duct(°F)	106.871	106.73
Duct Heat Transfer(Btu/hr)	428.09	426.15
Dry Air Mass Flow Rate(lb/m)	15.180	15.168
Sensible Infiltration Air Heat Contribution Qs_95(Btu/hr)	3458.32	3455.58
Sensible Infiltration Air Heat Contribution Qs_83(Btu/hr)	657.97	657.45
Latent Infiltration Air Heat Contribution Ql_95(Btu/hr)	2802.51	2800.30

Latent Infiltration Air Heat Contribution QI_83(Btu/hr)	-328.57	-328.31
Total Heat Contribution of the Infiltration Air Qi_95(Btu/hr)	6260.83	6255.88
Total Heat Contribution of the Infiltration Air Qi_83(Btu/hr)	329.40	329.14
Adjust Cooling Capacity ACC_95(Btu/hr)	4463.21	4485.28
Adjust Cooling Capacity ACC_83(Btu/hr)	10394.64	10412.02
Seasonally Adjusted Cooling Capacity SACC(Btu/hr)	9208.35	9226.67
Off-Cycle Mode Power(W)	20.00	20.00
Total Annual Energy Consumption in Off- Cycle Mode(kWh/year)	17.60	17.60
Inactive Mode or Off Mode Power(W)	0.50	0.50
Total Annual Energy Consumption in Inactive Mode or Off Mode(kWh/year)	0.68	0.68
Total Annual Energy Consumption in Cooling Mode(kWh/year)	887.48	889.28
Total Annual Energy Consumption(kWh/year)	905.75	907.56
Combined Energy Efficiency Ratio CEER (Btu/Wh)	7.62	7.62

Item	Value
Sample size	2
Mean of SACC(Btu/h)	9217.5
Mean of Power Input(W)	1184.5
Mean of CEER(Btu/Wh)	7.62
LCL/0.9 regard to CEER	8.47
Represented Value of SACC(Btu/h)	9200
Rated SACC(Btu/h)	9200
Represented Value of Power input(W)	1185
Represented Value of CEER(Btu/Wh)	7.6
Rated CEER(Btu/Wh)	7.6

PORTABLE AIR CONDITIONER

Model No:	FDPH41-3031ZPWV1R3
Electric Shock Prevention:	Class I
Climate Type:	T1
Cooling Capacity(ASHRAE):	14,000Btu/h
Cooling Capacity(SACC):	9,200Btu/h
Heating Capacity:	11,000Btu/h
Rated Voltage:	115V/60Hz
Total Input Current:	13A
CEER:	7.6
Max.Allowable Pressure	
High side/Low side:	3.8/1.2Mpa (551/174PSIG)
Up fan Motor FLA:	1.0A
Down fan Motor FLA:	1.0A
Compressor(RLA/LRA):	10.6A/57A
Refrigerant/Charge	R32/290g(10.23OZ)
Net Weight:	29.5kg
Manufacturing Date:	


A2L

WARNING: RISK OF ELECTRIC SHOCK. CAN CAUSE INJURY OR DEATH.
DISCONNECT ALL REMOTE ELECTRIC POWER SUPPLIES BEFORE SERVICING.
AVERTISSEMENT, RISQUE DE CHOCS ÉLECTRIQUES. PEUT CAUSER DES
BLESSURES ET MÊME ENTRAÎNER LA MORT. COUPER LES SOURCES
D'ALIMENTATION À DISTANCE AVANT LE DÉPANNAGE.

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Photo(s):

FDPH41-3031ZPWW1R3



