Portable Air Conditioner Test Report

Report Number	230400693SHA-001
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	Pasapair, COSTWAY, Acekool, Humsure, SERENELIFE, HOMCOM, GARVEE
Description	The product covered by this report is a household, indoor use, cord connected portable air conditioner.
Model(s)	FDP maybe followed by H; followed by 41; followed by -3030, -3031, -3032, -3033, -3034, -3035, -3036, or -3037; followed by ZV1R3, ZPV1R3, ZWV1R3, or ZPWV1R3; FDPH41-3033ZPWR3, FDP41-3033ZPWR3,FP10584US-WH, FP10582US-WH, FDP41-3034ZPR3, FDP41-3033ZPR3, FDP41-3034ZR3,FDP41-3034R3, FDP41-3032ZPR3, FDP41-3030ZR3, FDP41-3031ZPR3, SLACP14, SLACHT14W, FDP41-3036ZR3, FDP41-3037ZR3, 823-069V81WT
Model Similarity (if applicable)	1. Models with "H" have heating and cooling function by reverse cycling. Models without "H" have cooling function only; 2. Models with "W" have WI-FI function; 3. Number 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037 indicate different appearance of control panel; 4. Details of model and brand name refer to page 3. All 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)	ANSI/AHAM PAC-1-2015 Appendix CC to Subpart B of Part 430 IEC 62301 Edition 2.0, 2011-01 California Code of Regulations: Title 20, Division 2, Chapter 4, Articl 4, § 1605.3. State Standards for Non-Federally – Regulated Appliances
Conclusion	Refer to Page 6
Date of issue	May 10, 2023
Date of revision	November 18, 2024

Prepared by:

Wendy Wang
Project Engineer

Approved by:

Vicent Ni
Reviewer

Summary of Revision:

Revision 1:
The original report No. 230400693SHA-001, dated on May 10, 2023, was modified on September 26, 2023 with following changes:
Added extended models FDP maybe followed by H; followed by 41; followed by -3034, -3036, or -3037; followed by ZV1R3, ZPV1R3, ZWV1R3, or ZPWV1R3, which are identical with original models with similar electrical construction and components, except for the different appearance of control panel.
After evaluation, no additional test is needed.

Revision 2:
The original report No. 230400693SHA-001, dated on May 10, 2023, was modified on August 21, 2024 with following changes:
Added new models with brand name that are exactly the same as identical model as following:

New model	Brand name	Identical model	Brand name
FP10584US-WH	COSTWAY	FDPH41-3036ZPWV1R3	N/A
FP10582US-WH	COSTWAY	FDPH41-3037ZPWV1R3	N/A
FDP41-3034ZPR3	Acekool	FDP41-3034ZPV1R3	N/A
FDP41-3033ZPR3	Acekool	FDP41-3033ZPV1R3	N/A
FDP41-3034ZR3	Acekool	FDP41-3034ZV1R3	N/A
FDP41-3034R3	Acekool	FDP41-3034V1R3	N/A
FDP41-3032ZPR3	Acekool	FDP41-3032ZPV1R3	N/A
FDP41-3030ZR3	Acekool	FDP41-3030ZV1R3	N/A
FDP41-3031ZPR3	Acekool	FDP41-3031ZPV1R3	N/A
FDP41-3031ZPV1R3	Humsure	FDP41-3031ZPV1R3	N/A
SLACP14	SERENELIFE	FDP41-3030ZV1R3	N/A
SLACHT14W	SERENELIFE	FDPH41-3030ZWV1R3	N/A
FDPH41-3033ZPWR3	pasapair	FDPH41-3033ZPWV1R3	N/A
FDP41-3033ZPWR3	pasapair	FDP41-3033ZPWV1R3	N/A

After evaluation, no additional test is needed.

Revision 3:
The original report No. 230400693SHA-001, dated on May 10, 2023, was modified on November 18, 2024 with following changes:
Added new models with brand name that are exactly the same as identical model as following:

New model	Brand name	Identical model	Brand name
FDP41-3034ZPR3	GARVEE	FDP41-3034ZPV1R3	N/A
FDP41-3033ZPR3	GARVEE	FDP41-3033ZPV1R3	N/A
FDP41-3034ZR3	GARVEE	FDP41-3034ZV1R3	N/A
FDP41-3034R3	GARVEE	FDP41-3034V1R3	N/A
FDP41-3032ZPR3	GARVEE	FDP41-3032ZPV1R3	N/A
FDP41-3030ZR3	GARVEE	FDP41-3030ZV1R3	N/A
FDP41-3031ZPR3	GARVEE	FDP41-3031ZPV1R3	N/A
FDP41-3036ZR3	GARVEE	FDP41-3036ZV1R3	N/A
FDP41-3037ZR3	GARVEE	FDP41-3037ZV1R3	N/A
823-069V81WT	HOMCOM	FDP41-3033ZPV1R3	N/A

After evaluation, no additional test is needed.

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

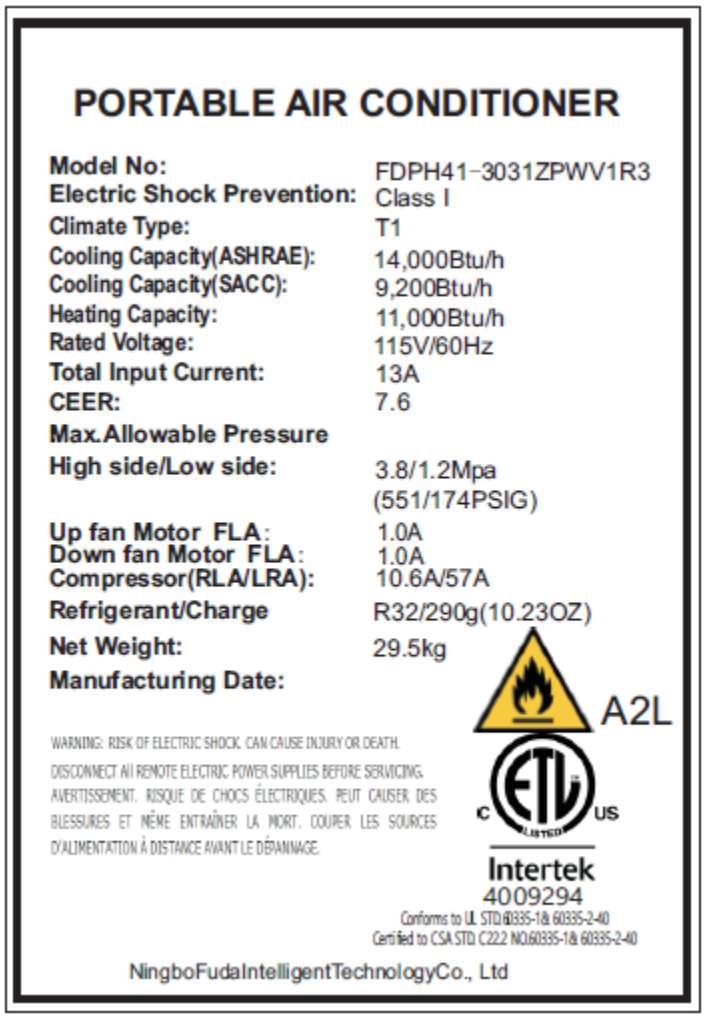
Cooling Capacity Test

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 (ºF)	80.08	80.06
Wet-bulb temperature of indoor air (ºF)	66.96	67.08
Dry-bulb temperature of outdoor air (ºF)	80.04	80.08
Wet-bulb temperature of outdoor air (ºF)	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(ºF)	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 Ql_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
Represented Value of Power input(W)	1185
Represented Value of CEER(Btu/Wh)	7.6
CEC Energy Efficiency Standard, manufactured on or after February 1, 2020(Btu/Wh)	7.6

Label(s):


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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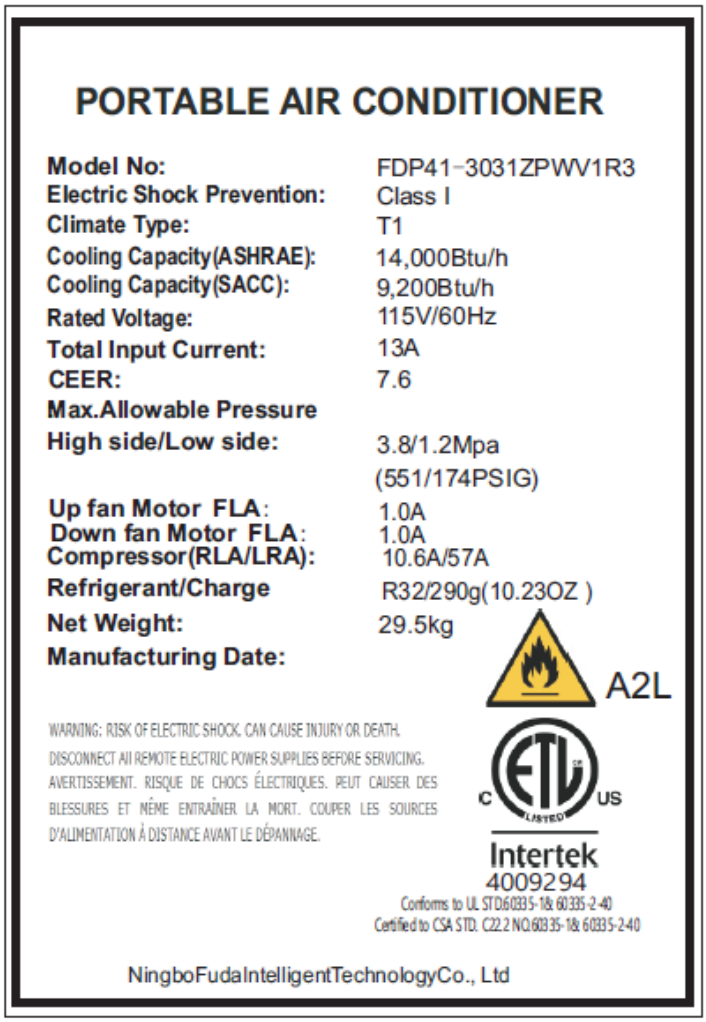
4009294
Conforms to UL STD 60335-1& 60335-2-40
Certified to CSA STD C22.2 NO.60335-1& 60335-2-40
NingboFudaIntelligentTechnologyCo., Ltd



PORTABLE AIR CONDITIONER

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Max.Allowable Pressure High side/Low side:	3.8/1.2Mpa (551/174PSIG)
Up fan Motor FLA:	1.0A
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Refrigerant/Charge	R32/290g(10.23OZ)
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Manufacturing Date:	

A2L

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Conforms to UL STD.60335-1& 60335-2-40
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NingboFudaIntelligentTechnologyCo., Ltd

Photo(s):

FDPH41-3031ZPWV1R3


SWING/UV
FAN
TIMER
SLEEP
MODE
ON/OFF