Nantong Ningpu Electrical Appliance Co.,Ltd

TEST REPORT

SCOPE OF WORK
ENERGY EFFICIENCY TESTING - PORTABLE AIR CONDITIONER -[MODEL(S) LIST IN PAGE 2]

REPORT NUMBER
251028126GZU-002

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PAGES
12

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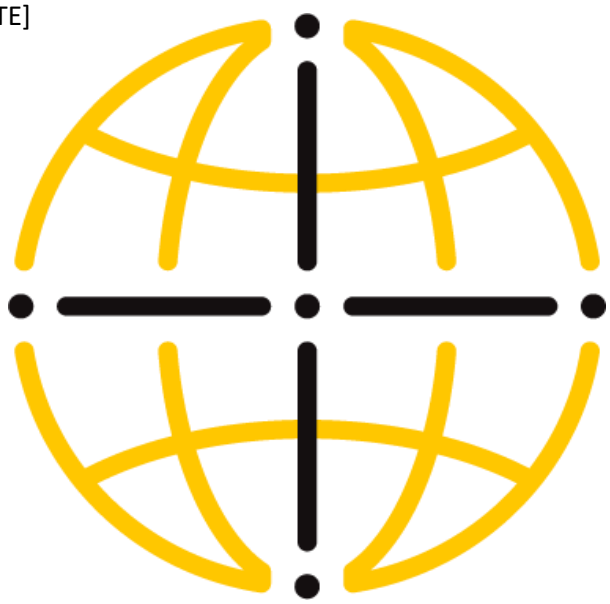


Report No. 251028126GZU-002

Testing Laboratory:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address:	Room 101/301/401/102/202/302/402/502/602/702/802,No. 7-2, Caipin Road, Huangpu District, Guangzhou,Guangdong, China
Applicant:	Nantong Ningpu Electrical Appliance Co.,Ltd
Address:	No.139, Huanghe Road, Rudong Economic Development Zone, Nantong, Jiangsu Province, China
Manufacturing site:	Nantong Ningpu Electrical Appliance Co.,Ltd
Address:	No.139, Huanghe Road, Rudong Economic Development Zone, Nantong, Jiangsu Province, China
Testing Location:	Same as Testing Laboratory
Address:	Same as Testing Laboratory Adderss
Product:	Portable air conditioner
Brand Name:	See model remark on page 6 & 7
Description:	The product covered by this report is a household, indoor use, cord connected portable air conditioner.
Model(s):	See model remark on page 6 & 7
Model Similarity:	See model remark on page 6 & 7
Ratings:	115V, 60Hz
Rated SACC (BTU/h)	6000
Date of receipt of sample(s):	28-Oct-2025
Date Range of Test:	30-Oct-2025
Test standard(s) or criteria(s):	20 CCR § 1605.3 ANSI/AHAM PAC-1-2015 10 CFR Part 430 Subpart B, Appendix CC IEC 62301 Edition 2.0, 2011-01
Conclusion:	The products tested comply with the Energy Efficiency Standards of DOE & CEC.

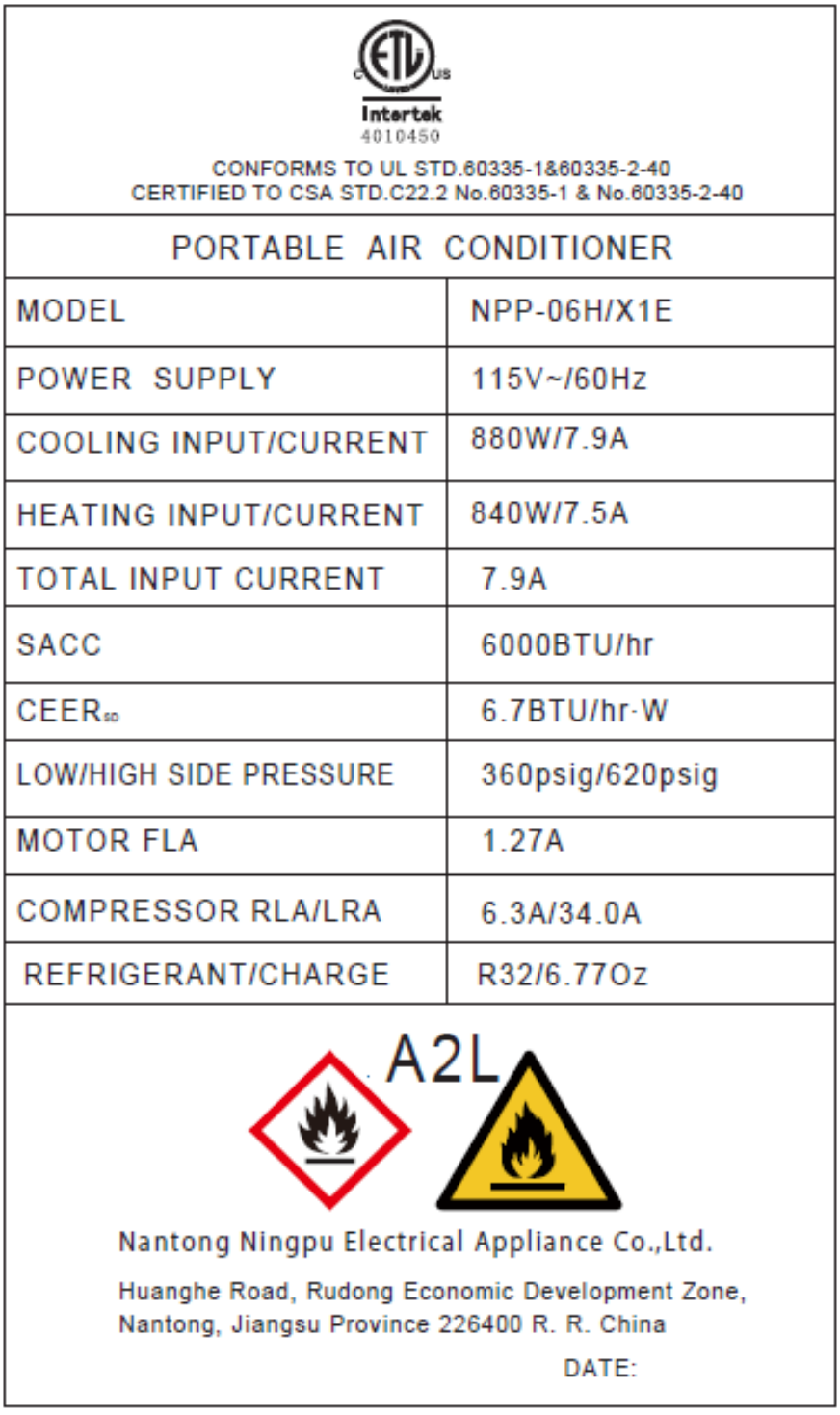
Prepared by:	Oscar Lin	Approved by:	Felix Li
Title:	Sr. Project Engineer	Title:	Technical Supervisor
Signature:		Signature:	

Photos:

Photo 1 - Front view

Photo 2 - Rear view

Photo 3 - Nameplate(s)



Intertek
4010450

CONFORMS TO UL STD.60335-1&60335-2-40
CERTIFIED TO CSA STD.C22.2 No.60335-1 & No.60335-2-40

PORTABLE AIR CONDITIONER	
MODEL	NPP-06H/X1E
POWER SUPPLY	115V~/60Hz
COOLING INPUT/CURRENT	880W/7.9A
HEATING INPUT/CURRENT	840W/7.5A
TOTAL INPUT CURRENT	7.9A
SACC	6000BTU/hr
$CEER_{SS}$	6.7BTU/hr·W
LOW/HIGH SIDE PRESSURE	360psig/620psig
MOTOR FLA	1.27A
COMPRESSOR RLA/LRA	6.3A/34.0A
REFRIGERANT/CHARGE	R32/6.77Oz

A2L

Nantong Ningpu Electrical Appliance Co.,Ltd.

Huanghe Road, Rudong Economic Development Zone,
Nantong, Jiangsu Province 226400 R. R. China

DATE:

Product Details

Item	Data
Model Number of Unit Under Tested	NPP-06H/X1E
Serial Number	N/A
Condition of Sample(s)	Prototype
Product Type	Single-duct
Refrigerant	R32
Standby and Off	Standby mode only

Critical Components

Name	Manufacturer / trademark	Type / model	Technical data
Compressor	GMCC	KSN76E02VBZC1	115V~,60Hz R32/R410A (refer to air-conditioner)
Fan motor	NANTONG NINGPU ELECTRICAL APPLIANCE CO., LTD.	YSL60-4B6	110-120V, 60Hz, 60W, 1.27A, Class B
Capacitor of Compressor	-	CBB65A	55μF±5%, 250VAC 50/60Hz
	Various	Various	
Capacitor of fan motor	-	C61	20uF±5%, 250VAC 50/60Hz
	Various	Various	

NOTE

“Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" can be used.

Model Remark

These models are identical except for the model names and brand names. First*=A to Z or blank (represents the difference of Front shell appearance), second*=1 to 20 or blank (represents the difference of machine top cover), third*=A to J or blank (represents the difference of Rear shell appearance). The model NPP-06H/X1E with brand name NINGPU was selected for testing.

Brand Name	Model Number
NINGPU	NPP***-06C/X1E
	NPP***-06H/X1E
	NPP***-06C/X1E-W
	NPP***-06H/X1E-W
NEPO	NPP***-06C/X1E
	NPP***-06H/X1E
	NPP***-06C/X1E-W
	NPP***-06H/X1E-W
Garvee	NPP-06C/X1E
Auseo	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
COWSAR	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
Fornido	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
Joy Pebble	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
Kndko	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
R.W.FLAME	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
ZAFRO	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E

Brand Name	Model Number
Xbeauty	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
Electactic	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
KISSAIR	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
Antarctic Star	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
Kismile	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
WAA	NPPB2A-06C/X1E
	NPPC3A-06C/X1E
	NPPD4A-06C/X1E
	NPPE5B-06C/X1E
Costway	FP11175US
	FP11175US-WH

Cooling Capacity Test

Item	Unit	Sample 1	Sample 2	Sample 3
Barometric pressure	PSIA	14.692	14.701	-
Fan speed	-	High	High	-
Applied voltage	V	114.9	115.0	-
Frequency	Hz	60.06	60.06	-
Current input to test unit	A	7.84	7.82	-
Power input to test unit	W	880.0	881.0	-
Dry-bulb temperature of indoor inlet air	°F	80.06	80.06	-
Wet-bulb temperature of indoor inlet air	°F	66.92	66.92	-
Dry-bulb temperature of indoor outlet air	°F	55.56	55.85	-
Wet-bulb temperature of indoor outlet air	°F	52.84	53.20	-
Dry-bulb temperature of outdoor inlet air	°F	80.06	80.06	-
Wet-bulb temperature of outdoor inlet air	°F	66.92	66.92	-
Dry-bulb temperature of outdoor outlet air	°F	110.95	111.02	-
Wet-bulb temperature of outdoor outlet air	°F	78.93	79.16	-
Volumetric flow rate of indoor outlet air	CFM	190.5	195.2	-
Volumetric flow rate of outdoor outlet air	CFM	215.0	213.4	-
Total Cooling Capacity	Btu/hr	8257.0	8267.3	-
Sensible cooling capacity	Btu/hr	5237.4	5298.8	-
Latent cooling capacity	Btu/hr	3019.6	2968.5	-

Duct Heat Transfer

Item	Unit	Sample 1	Sample 2	Sample 3
The outer diameter of duct, d	foot	0.492	0.492	-
The extended length of duct, L	foot	3.937	3.937	-
The surface area of duct, A_{duct}	square foot	6.085	6.085	-
The surface temperature of duct, t_1	°F	105.1	105.1	-
The surface temperature of duct, t_2	°F	104.5	104.5	-
The surface temperature of duct, t_3	°F	105.8	105.1	-
The surface temperature of duct, t_4	°F	105.4	105.4	-
T_{duct_SD}	°F	105.2	105.0	-
Convection coefficient, h ()	Btu/h per square foot per °F	3	3	-
Average evaporator inlet air dry-bulb temperature-T_{ei}	°F	80	80	-
Q_{duct_SD}	Btu/h	459.0	455.8	-

Infiltration Air Heat Transfer

Item	Unit	Sample 1	Sample 2	Sample 3
Average volumetric flow rate, V_{co_SD}	CFM	215.0	213.4	-
Dry bulb of the condenser outlet air	°F	110.95	111.02	-
Wet bulb of the condenser outlet air	°F	78.93	79.16	-
$p_{ws}(t^*)$	PSIA	0.4898690	0.4935825	-
Humidity ratio at saturation, W_s^*	-	0.0214520	0.0216071	-
Average humidity ratio of condenser outlet air, w_{co_SD}	lb_w/lb_{da}	0.0139381	0.0141272	-
Average density of the condenser outlet air, ρ_{co_SD}	lb_m/ft^3	0.0689220	0.0689467	-
Dry air mass flow rate of infiltration, $\dot{m}_{sd}$	lb/m	14.615	14.508	-
Specific heat of dry air, c_{p_da}	Btu/lb_m-°F	0.24	0.24	-
T_{ia_95}	°F	95	95	-
T_{ia_83}	°F	83	83	-
T_{indoor}	°F	80	80	-
C_{p_wv}	Btu/lb_m-°F	0.444	0.444	-
w_{ia_95}	lb_w/lb_{da}	0.01410	0.01410	-
w_{ia_83}	lb_w/lb_{da}	0.01086	0.01086	-
w_{indoor}	lb_w/lb_{da}	0.0112	0.0112	-
H_{fg}	Btu/lb_m	1061	1061	-
Sensible heat added to the room by infiltration air, Q_{s_95}	Btu/h	3329.4	3305.2	-
Sensible heat added to the room by infiltration air, Q_{s_83}	Btu/h	633.4	628.8	-
Latent heat added to the room by infiltration air, Q_{l_95}	Btu/h	2698.0	2678.4	-
Latent heat added to the room by infiltration air, Q_{l_83}	Btu/h	-316.3	-314.0	-
Total infiltration air heat, $Q_{infiltration\_95}$	Btu/h	6027.5	5983.6	-
Total infiltration air heat, $Q_{infiltration\_83}$	Btu/h	317.1	314.8	-

Seasonally Adjusted Cooling Capacity

Item	Unit	Sample 1	Sample 2	Sample 3
Cooling capacity, $Capacity_{SD}$	Btu/h	8257.0	8267.3	-
Adjusted Cooling Capacity, ACC_{95}	Btu/h	1770.6	1827.9	-
Adjusted Cooling Capacity, ACC_{83}	Btu/h	7480.9	7496.7	-
Seasonally Adjusted Cooling Capacity, SACC	Btu/h	6338.9	6363.0	-

Off-cycle Mode and Inactive Mode

Item	Unit	Sample 1	Sample 2	Sample 3
Temperature of indoor side	°F	80.06	80.06	-
Applied voltage	V	115.0	115.0	-
Frequency	Hz	60.0	60.0	-
Off-Cycle, P_{OC}	W	0.95	0.62	-
Inactive or Off, P_{OM}	W	0.85	0.59	-

Combined Energy Efficiency Ratio

Item	Unit	Sample 1	Sample 2	Sample 3
Cooling Mode (h)	h	750	750	-
Off-Cycle (h)	h	880	880	-
Inactive or Off (h)	h	1355	1355	-
Total annual energy consumption in off-cycle-AECoc	*kWh/year*	0.84	0.55	-
Total annual energy consumption in inactive or off mode-AECim or AECom	*kWh/year*	1.15	0.80	-
Total annual energy consumption attributed to all modes except cooling-AEC_T	kWh/year	1.99	1.35	-
Annual energy consumption in cooling mode, AEC_{SD}	kWh/year	660.00	660.75	-
Combined energy efficiency ratio, $CEER_{SD}$	Btu/hr·W	7.18	7.21	-

Conclusion

Item	Unit	Sample 1	Sample 2	Sample 3
Seasonally Adjusted Cooling Capacity, SACC	Btu/h	6339	6363	-
Power input to test unit	W	880.0	881.0	-
Combined energy efficiency ratio, $CEER_{SD}$	Btu/hr·W	7.18	7.21	-

Item	Unit	Value
Sampling size	-	2
Mean of SACC	Btu/h	6351
Mean of AEC_{SD}	kWh/year	660.4
Mean of AEC_T	kWh/year	1.67
Mean of $CEER_{SD}$	Btu/hr·W	7.19
UCL/1.1 regard to AEC_{SD}	-	602.5
UCL/1.1 regard to AEC_T	-	3.36
LCL/0.9 regard to $CEER_{SD}$	-	7.90
Represented Value of SACC	Btu/h	6350
Represented Value of AEC_{SD}	kWh/year	660
Represented Value of AEC_T	kWh/year	3
Represented Value of $CEER_{SD}$	Btu/hr·W	7.2
CEC Energy Efficiency Standards, manufactured on or after February 1, 2020	Btu/hr·W	6.6
Verdict	-	Pass

Revision Summary

Date/ Proj # Site ID	Project Handler/ Reviewer	Item	Description of Change
			None

--The End--