

	Test Report				
		Energy consur	nption te	st	
	for the AU ene	rgy labelling of	househo	ld air-co	nditioner
Test R	eport No.:	AU100012			Page 1 of 12
Applica	ant Name:	Gree Electric Appliances Inc. of Zhuhai			
Addres	s	Jinji West Road, Qianshan, Zhuhai, Guangdong 519070, P.R.China			
Manufa	actyrer	Gree Electric Appliances Inc. of Zhuhai			
Addres	SS	Jinji West Road, Qians	han, Zhuhai, (Guangdong 5	19070, P.R.China
Produc	ct Name	Window-type air condit	ioner		
Trade	Mark	Gree			
Model/	Type reference	See the name panel			
Rated	and characteristics	220-240V ~ 50Hz			
Test sp	pecification:	AS/NZS 3823.1.1:1998	+A1:2001+A2	2:2002+A3:20	006
		AS/NZS 3823.2:2009			
Date of receipt of test item		2009-12-23	Date of test		2010-1-13
Test Resul	Comparative Energy Consumption	Cooling mode(KWh per hr): 1.983		Heating code(KWh per hr): 1.869	
ι.	Star Rating	Cooling mode:1.5		Heating mode:1.5	
	Measured cooling capacity (KW)	5.979	Measured heating capacity (KW)		5.628
	Measured EER:	3.015	Measured COP:		3.011
	Measured AEER:	3.006	Measured /	ACOP:	3.001
Test b	/:	Sun Zhaohan			
Review	ved by:	Chen Zancheng			
Approv	ved by:	Xiao Biao			
Date o	fissue	2010-01-13			
Testing	Laboratory:	Test laboratory of Gree Electric Appliances Inc. of Zhuhai(GTL)			
Testing location:Jinji West Road, Qianshan, Zhuhai, Gua http://www.gree.com.cn Tel:086-756-8			Guangdong 5 6-8614883 F	19070, P.R.China ⁻ ax:086-756-8614998	
Abbrevia	Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested N/T = not tested				
This test	This test report relates to the a.m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.				



Summary of testing

- 1. The appliance was tested according to AS/NZS 3823.1.1 and AS/NZS 3823.2.
- 2. Test location:
 - The tests were performed at Gree Electric Appliances Inc. of Zhuhai

Energy consumption test for the AU energy labelling of household air-conditioner

Possible test case verdicts:

- test object does not meet the requirement	F(Fail)
- test object does meet the requirement	P(Pass)
- test case does not apply to the test object	N/A

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

The test report is invalid without the official stamp of GREE.

The test report is invalid without the signatures of author and reviewer.

Throughout this report a comma is used as the decimal separator.



1 Ratings Rated voltage/Rated voltage range(V) 220-240V~ Rated input(KW)(cooling/Heating) 1.99/1.83 Rated capacity(KW)(cooling/Heating) 6.00/5.50 2 Type power supply Single phase 3 Construction of the unit Split type 4 Type of the unit considering if it has the air ducts Split type 5 The number of the indoor units if multisplit type 6 Type of the indoor unit if split type 7 Type of outdoor unit if split type 8 Supplementary heating element 9 Type of the cooling method 10 Operation function 11 Type of the refrigerant 12 Mass of refrigerant (Kg) 14 Variable output compressor used	BRIEF	RIEF DESCRIPTION OF THE TESTED SAMPLES:				
Rated voltage/Rated voltage range(V) 220-240V~ Rated frequency (Hz) 50 Rated input(KW)(cooling/Heating) 1.99/1.83 Rated capacity(KW)(cooling/Heating) 6.00/5.50 2 Type power supply Single phase 3 Construction of the unit Split type 4 Type of the unit considering if it has the air ducts Split type 5 The number of the indoor units if multisplit type Single packaged type 6 Type of the indoor unit if split type Wall-mounted 7 Type of outdoor unit if split type Ceiling-mounted 8 Supplementary heating element Yes 9 Type of the cooling method Air cooled 10 Operation function Cooling mode and Heating mode 11 Type of the refrigerant K410A 12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used No	1	Ratings				
Rated frequency (Hz) 50 Rated input(KW)(cooling/Heating) 1.99/1.83 Rated capacity(KW)(cooling/Heating) 6.00/5.50 2 Type power supply Single phase 3 Construction of the unit Split type 4 Type of the unit considering if it has the air ducts Split type 5 The number of the indoor units if multisplit type Single packaged type 6 Type of the indoor unit if split type Wall-mounted 7 Type of outdoor unit if split type Ceiling-mounted 8 Supplementary heating element Yes 9 Type of the cooling method Air cooled 10 Operation function Cooling mode and Heating mode 11 Type of the refrigerant R410A 12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used Yes		Rated voltage/Rated voltage range(V)	220-240V~			
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Image: Superior of the unit Image: Split type 3 Construction of the unit Split type 3 Type of the unit considering if it has the air ducts Split type 4 Type of the unit considering if it has the air ducts Split type 5 The number of the indoor units if multisplit type Multi-split type 6 Type of the indoor unit if split type Image: Wall-mounted Image: Free-standing Ceiling-mounted Image: Ceiling-mounted Other type 7 Type of outdoor unit if split type Image: Free-standing Image: Ceiling-mounted Other type 8 Supplementary heating element Yes 9 Type of the cooling method Air cooled 10 Operation function Image: Cooling mode and Heating mode 11 Type of the refrigerant R410A 12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used Yes	2	Type power supply	Single phase			
3 Construction of the unit Split type 4 Type of the unit considering if it has the air ducts Split type 5 The number of the indoor units if multisplit type Multi-split type 6 Type of the indoor unit if split type Wall-mounted 7 Type of outdoor unit if split type Ceiling-mounted 8 Supplementary heating element Yes 9 Type of the refrigerant R410A 10 Operation function Cooling mode and Heating mode 12 Mass of refrigerant (Kg) 1.40 13 Series number H9008139			□ Three phase			
3 Construction of the unit Split type 4 Type of the unit considering if it has the air ducts Split type 5 The number of the indoor units if multisplit type Single packaged type 6 Type of the indoor unit if split type Wall-mounted 7 Type of outdoor unit if split type Wall-mounted 8 Supplementary heating element Yes 9 Type of the cooling method Air cooled 10 Operation function Cooling mode and Heating mode 11 Type of the refrigerant R410A 12 Mass of refrigerant (Kg) 1.40 13 Series number Hoo						
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Image: Second		air ducts	□ Single packaged type			
5 The number of the indoor units if multi-split type Wall-mounted 6 Type of the indoor unit if split type Wall-mounted 6 Type of the indoor unit if split type Free-standing 7 Type of outdoor unit if split type Free-standing 8 Supplementary heating element Yes 9 Type of the cooling method Air cooled 10 Operation function Cooling mode and Heating mode 11 Type of the refrigerant R410A 12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used Yes			□ Multi-split type			
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Type of outdoor unit if split typeFree-standing Other type8Supplementary heating elementYes No9Type of the cooling methodAir cooled Water cooled10Operation functionCooling mode and Heating mode Cooling mode only11Type of the refrigerantR410A12Mass of refrigerant (Kg)1.4013Series numberH090813914Variable output compressor usedYes			Ceiling-mounted			
7 Type of outdoor unit if split type □ Free-standing 8 Supplementary heating element □ Yes 9 Type of the cooling method ■Air cooled 10 Operation function ■Cooling mode and Heating mode 11 Type of the refrigerant R410A 12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used □ Yes			■ Other type			
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9 Type of the cooling method Air cooled Water cooled 10 Operation function Cooling mode and Heating mode Cooling mode only 11 Type of the refrigerant R410A 12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used Yes No 			■No			
9 Type of the cooling method ■ Air cooled 10 Operation function ■ Cooling mode and Heating mode 11 Type of the refrigerant R410A 12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used □ Yes						
Image: Image	9	Type of the cooling method	■Air cooled			
10 Operation function ■ Cooling mode and Heating mode 11 Type of the refrigerant R410A 12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used □ Yes			Water cooled			
Image: Solution of the set of the refrigerant Image: Cooling mode only Image: Solution of the refrigerant R410A Image: Solution of the refrigerant (Kg) 1.40 Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg) Image: Solution of the refrigerant (Kg)	10	Operation function	■Cooling mode and Heating mode			
11Type of the refrigerantR410A12Mass of refrigerant (Kg)1.4013Series numberH090813914Variable output compressor usedImage: YesImage: NoImage: No			Cooling mode only			
12 Mass of refrigerant (Kg) 1.40 13 Series number H0908139 14 Variable output compressor used □ Yes	11	Type of the refrigerant	R410A			
13 Series number H0908139 14 Variable output compressor used □ Yes	12	Mass of refrigerant (Kg)	1.40			
14 Variable output compressor used □ Yes	13	Series number	H0908139			
	14	Variable output compressor used				
		•	■ No			



NAMEPLATE OF TH	E TESTED SAMPLE:		
		_	
	T GREE	=	
	WINDOW TYPE AIR CO.	NDITIONER	
	Model GJH24	AC-K3MNB8A	
	Rated Voltage	220-240V~	
	Rated Frequency	50Hz	
	Climate Type	TI	
	Comp. LRA	40A	
	Cooling Canacity	680000	
	Heating Capacity	5500W	
	Cooling Power Input	1990W	
	Heating Power Input	1830W	
	Cooling Rated Input	2450W	
	Heating Rated Input	2109W	
	Hi. Side Pressure	3.0MPa	
	Low Side Pressure	1.0MPa	
	Sound Pressure Level	58/6438(4)	
	Defrigerent	D4184	
	Refri Charge	1 40kg	
	Weight	75kg	
	Isolation	Ť	
	Moisture Protection(Outdoor	Part) IP24	
	Manufactured Date	,	
	GREE ELECTRIC APP	LIANCES,	
	INC. OF ZHUH	AI	
	TM413.GJH24A	CK3MNB8A	
l			



1. Summary

One air conditioner unit, window-type air-cooled with cooling and heating function, model type **GJH24AC-K3MNB8A** was tested in the Balanced Ambient Room-type Calorimeter at Gree's laboratory according to the standard AS/NZS

3823.1.1:1998+A1:2001+A2:2002+A3:2006, operating condition T1 for cooling and for heating.

Star rating, comparative energy consumption (CEC) and Minimum energy performance standard (MEPS) was determined in accordance with AS/NZS 3823.2:2009.

The key results, in compliance with energy labeling requirements of AS/NZS 3823.2:2009 are presented on the followed pages.





2 Cooling Canacity	and Enor	av Consumptio	n Measuremon	t Test f	or Cooling Condition
T1	2. Cooling Capacity and Energy Consumption Measurement Test for Cooling Condition				
As required in AS/NZ	S 3823.1	.1. APPENDIX	ZZ. reading we	ere take	n at intervals of 5
minutes.			,		
2.1 electrical quantitie	s				
Tested current input (A)		8.61		
Power factor			0.987		
Tested effective powe	er input(K	(W)	1.983		
2.2 cooling capacity					
Test sensible cooling	capacity	(KW)	4.213		
Tested latent cooling	capacity	(KW)	1.766		
Tested total cooling c	apacity(ł	(W)	5.979		
2.3 Ratios			1		
Measured EER			3.015		
2.4 Annal efficiency					
Pnoc (W)			1.73		
Measured AEER			3.006		
SRI cooling			1,512		
Star rating			1.5		
2.5 Control air temper	rature:				
Dry bulb temperature,	, roomsic	le (℃):	27±0.3		
Wet bulb temperature	, roomsi	de(℃):	19±0.2		
Dry bulb temperature,	, outside	(℃):	35±0.3		
Wet bulb temperature	, outside	e(℃):	24±0.2		
2.6 Deviation			·		
Rated cooling	6.000		Rated input(K	W):	1.990
capcity(KW):					
Measured cooling	5.979		Measured rate	ed	1.983
capcity(KW):			input(KW):		
Difference (%)	-0.	.35	Difference (%) -0.35		-0.35
Required Difference	≥-5		Required Differ	rence	≤5
Minimum Energy Performance Standard(MEPS):					
IVIEASULEU EER Required minimum EER Veraict 2.01 2.04 Deee					
J.UI Z.Ö4 Pass					
AFER=(cooling canacity/2000)/(effective nower input/2000+ Procy6 76)					
SRI cooling= (AFFRX	SRI cooling= (AEERX8-18)/4				



3.	Cooling Capacity Measurement Data		
1	Supply Voltage	V	230.1
2	Frequency	Hz	50
3	Stabilization period	Min	60
4	Test period	Min	120
5	Indoor dry bulb	°C	27.02
6	Indoor wet bulb	°C	19.01
7	Outdoor dry bulb	°C	35.02
8	Outdoor wet bulb	°C	24.00



4. Heating Capacity and Energy Consumption Measurement Test for Heating Condition						
As required in AS/NZS	3 3823.1.1, APPENDI	X ZZ, reading were take	n at intervals of 5			
minutes.		, 0				
4.1 electrical quantities	S					
Tested current input (/	۹)	8.22				
Power factor		0.985				
Tested effective powe	r input(KW)	1.869	1.869			
4.2 Heating capacity						
Tested total heating ca	apacity(KW)	5.628				
4.3 Ratios						
Measured COP		3.010				
4.4 Annal efficiency						
Pnoh (W)		1.800				
Measured ACOP		3.001				
SRI heating 1.503						
Star rating		1.5				
4.5 Control air temperature:						
Dry bulb temperature,	roomside (°C):	20±0.3				
Wet bulb temperature	, roomside(℃):	15±0.2				
Dry bulb temperature,	outside (°C):	7 <u>±0.3</u>				
Wet bulb temperature	, outside(℃):	6±0.2				
4.6 Deviation						
Rated heating	5.500	Rated input(KW):	1.830			
capcity(KW):						
Measured heating	5.628	Measured rated	1.869			
capcity(KW): input(KW):						
Difference (%)	2.33	Difference (%)	2.13			
Required difference≥-5Required Difference≤5						
Note:						
ACOP=(heating capacityx2000)/(effective power inputx2000+ Pnohx6.76)						

SRI heating=(ACOPX8-18)/4



5.	5. Heating Capacity Measurement Data			
1	Supply Voltage	V	230.1	
2	Frequency	Hz	50	
3	Stabilization period	Min	60	
4	Test period	Min	120	
5	Indoor dry bulb	°C	20.01	
6	Indoor wet bulb	°C	15.03	
7	Outdoor dry bulb	°C	7.01	
8	Outdoor wet bulb	°C	6.02	



6. Maximum cooling test:				
Test result	Pass			
Parameter	Standard test conditions			
Temperature of air entering indoor side				
Dry bulb (°C)	32 ℃			
Wet bulb(℃)	23 ℃			
Temperature of air entering outdoor side				
Dry bulb	43 ℃			
Wet bulb	26 ℃			
Frequency of power supply	50Hz			
Test voltage	198V and 264V			
Test voltage 198V and 264V The controls of the air conditioner were set for maximum cooling. The unit was operated contimuously for a period of I hour after the specified temperature and equilibrium condensate level was achieved. All power to the equipment was then cut off for a period of 3 minutes and then restared for 1 hour. Performance Requirments: a) during one entire test, the equipment shall operate without any indication condamage; b) the motors of the equipment shall operate continuously for the first hour of the test without tripping any protective device; and c) the shut down period of 3 minutes, the motor overload protective device shall restar no more than 5 minutes period after restart of the compressor. d) after the interruption of power the equipment shall resume operation within 3 minutes and run continuously for one hour.				



7. STANDBY POWER AND CRANK CASE HEATERS POWER MEASUREMENT						
Test method	Measurements of standby power and crank case heater power is undertaken in accordance with the procedures and instruments specified in AS/NZS 62301					
Test results	Non-operation power consumption according with clause2.4 of AS/NZS3823.2:2009					
			Passive standby power consumption (W)			
	Non-operation mode description	The remote controller is off. The appliance is not operational and monitoring for a remote signal	1,7			
		The remote controller is off. The appliance is not operational and the timer for auto start is on.	1,7			
	The average crank at 7 °C (outdoor)					
	heater power At 20°C (outdoor)					



8. APPENDIX ——GREE CONTROLLED ENVIRONMENT CHAMBER						
8.1 Operating Specifications						
Indoor Side						
Dimensions (L×W×H,m):		4.8×4.3×3.2				
Volume (m ³)		66				
Maximum heating capacity(KW):		14				
Maximum cooling capacity(KW):		12				
humidification capacity (Kg/h):		5.5				
Maximum air flow rate (m/s)		0.72				
Maximum air changed (m ³ /min)		138				
Outdoor Side						
Dimensions (L×W×H,m):		4.8×4.3×3.2				
Volume (m ³)	_	66				
Maximum heating capacity(KW):		17				
Maximum cooling capacity(KW):		10				
humidification capacity (Kg/h):		4				
Maximum air flow rate (m/s)		0.9				
Maximum air changed (m°/min)		159				
8.2 Measuring instruments	T		_			
Item	Description		Accuracy			
Indoor Side						
Temperature control	YOKOGAWA/UT	550	±0,1℃			
Temperature monitor	YOKOGAWA/DF	₹240	±0,1 ℃			
Outdoor Side						
Temperature control	YOKOGAWA/UT	550	±0,1 ℃			
Temperature monitor	YOKOGAWA/DF	₹240	±0,1℃			
Water flow	OVAL/LUS-52C1	1-7112	±0,5%			
Water temperature	CHINO/SOLIDPO	ЭК	±0,1℃			
The drawing of the lab:						
		Ai				
	otri	COT				
Coil removal						
Ai conditioner						

