

TEST REPORT EN14825:2016

Report Number.: GDKA20220101003

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Tested by (name+signature).....: HE RI LANG

Approved by (name+signature): CHEN GANG QUAN

何日朗

陈钢权



TESTING
CANS L7450

Applicant's name.....: HISENSE (GUANGDONG) AIR CONDITIONING Co., Ltd.

Address: No. 8 HISENSE ROAD, ADVANCED MANUFACTURING
JIANGSHA DEMONSTRATION PARK, JIANGMEN CITY,
GUANGDONG PROVINCE, P.R.CHINA

Standard: EN14825:2016

COMMISSION REGULATION EU No 626:2011
COMMISSION REGULATION EU No 2016/2282
COMMISSION REGULATION EU No 2017/254

Test item description: Split type air-Conditioner (Room Air Conditioner)

Trade Mark: Hisense

Manufacturer.....: HISENSE (GUANGDONG) AIR CONDITIONING Co., Ltd.

Model/Type reference: AST-18UW4RXA**03, AST-18UW4RXA**03A

First ** means front panel of indoor unit: **can be TD,TE,TF,
TG,TM,TL,TQ,TR,TT,DA,DB,DC,DE,DF,DG,DH,DJ,DK,DL,DX
,TJ,LB,CC

Ratings: 220-240V~, 50Hz, R32, IPX4 for outdoor unit,

Rev.01

List of Attachments (including a total number of pages in each attachment):

1.Photo document 2.Hisense Europe Model Name

Summary of testing:

The products tested comply with the requirements of EN14825:2016

Tests performed :

The appliances comply with the above standards.

Tests Date: 2021.12.22 - 2021.12.30

Tests Result: Pass

Testing location:

No. 8 HISENSE ROAD, ADVANCED
MANUFACTURING JIANGSHA DEMONSTRATION
PARK, JIANGMEN CITY, GUANGDONG PROVINCE
P.R.CHINA

Pdesign Capacity/SEER Cooling: 5.0KW/6.1

Pdesign Capacity/SCOP Heating(AVERAGE): 4.6KW/4.0

Test laboratory Information:
Name: Testing Center of Hisense(Guangdong) Air Conditioner Co., Ltd.

Address: No. 8 HISENSE ROAD, ADVANCED MANUFACTURING JIANGSHA DEMONSTRATION
PARK, JIANGMEN CITY, GUANGDONG PROVINCE, P.R.CHINA

Laboratory Accreditation Certificate:

Shown on page 3

Copy of marking plate:

The artwork below may be
only a draft.

MODE		COOLING	HEATING
CAPACITY	W	5000	5600
POWER INPUT (FOR INDOOR UNIT ONLY)	W	70	70
CURRENT (FOR INDOOR UNIT ONLY)	A	0.3	0.3
RATED POWER INPUT (FOR INDOOR UNIT ONLY)	W	90	
RATED CURRENT (FOR INDOOR UNIT ONLY)	A	0.5	
MAX DISCHARGE PRESSURE	MPa	4.15	
MAX SUCTION PRESSURE	MPa	1.6	
SOUND POWER	dB(A)	60	
POWER SUPPLY:220-240V~50Hz ANTI-ELECTRIC SHOCK:CLASS I NET WEIGHT:12kg ELECTRIC CHARACTERISTICS ARE ONLY FOR INDOOR UNIT.			
AIR FLOW:1000m ³ /h REFRIGERANT:SAME AS OUTDOOR'S CLIMATE TYPE:T1			
 AST-18UW4RXA**03 ROOM AIR CONDITIONER 			
Made In P.R.C. Hisense Corporation			

 AST-18UW4RXA03 ROOM AIR CONDITIONER			
			
MODE		COOLING	HEATING
CAPACITY	W	5000	5600
POWER INPUT	W	1540	1515
CURRENT	A	6.9	6.8
RATED POWER INPUT	W	2300	
RATED CURRENT	A	12.3	
MAX DISCHARGE PRESSURE	MPa	4.15	
MAX SUCTION PRESSURE	MPa	1.6	
SOUND POWER	dB(A)	63	
POWER SUPPLY:220-240V~50Hz ANTI-ELECTRIC SHOCK:CLASS I DEGREES OF PROTECTION:IPX4 MAX PRESSURE OF COIL:20MPa REFRIGERANT:R32/1.17kg			
NET WEIGHT:33kg CLIMATE TYPE:T1 Contains fluorinated greenhouse gases covered by the Kyoto Protocol. GWP:675; 0.790 tonnes CO ₂ equivalent.			
Made In P.R.C. Hisense Corporation			



China National Accreditation Service for Conformity Assessment
LABORATORY ACCREDITATION CERTIFICATE
 (Registration No. CNAS L7450)

**Testing Center of Hisense (Guangdong) Air Conditioner
 Co., Ltd.**

No.8, Hisense Road, Advanced Manufacturing Jiangsha Demonstration Park,
Jiangmen, Guangdong, China

is accredited in accordance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule form an integral part of this certificate.

Date of Issue: 2018-02-12

Date of Expiry: 2024-02-11

Date of Initial Accreditation: 2015-02-04

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People' s Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC-MRA) and the Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC-MRA). The validity of the certificate can be checked on CNAS website at <http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml>

Test conditions

1.1. Rating conditions. Cooling mode

	Test mode	Outdoor heat exchanger		Indoor heat exchanger	
		Inlet dry bulb temperature °C	Inlet wet bulb temperature °C	Inlet water temperature °C	Inlet wet bulb temperature °C
Standard rating conditions	A	35	-	27	19
Part load conditions according the standard EN 14825:2018	B	30	-	27	19
	C	25	-	27	19
	D	20	-	27	19

1.2. Rating conditions for air-to-air units. Heating mode

	Test mode	Outdoor heat exchanger		Indoor heat exchanger	
		Inlet dry bulb temperature °C	Inlet wet bulb temperature °C	Inlet water temperature °C	Inlet wet bulb temperature °C
Standard rating conditions	R	7	6	20	-
Part load conditions according the standard EN 14825:2016 for heating season Average	A(A)	-7	-8	20	-
	B(A)	2	1	20	-
	C(A)	7	6	20	-
	D(A)	12	11	20	-
	E(A)	-10 (TOL)	-	20	-
	F(A)*	-7 (Tbiv)	-8	20	-
Part load conditions according the standard EN 14825:2016 for heating season Warmer	B(W)	2 (TOL)	1	20	-
	C(W)	7	6	20	-
	D(W)	12	11	20	-
	F(W)**	2 (Tbiv)	1	20	-
	E(C)	-20 (TOL)	-	20	-
	F(C)***	-10 (Tbiv)	-	20	-

* To reduce the tests, for Average conditions, is assumed Tbiv=-7°C.

** To reduce the tests, for Warmer conditions, is assumed Tbiv=2°C.

Test Standard 测试标准:

☒ (EU) No 626/2011
 ☒ (EU) No 206/2012
 ☒ EN14825
 ☒ EN 14511
 ☒ EN 12102
 ☐ Other _____

GPA requirement: 产品审批要求:

GPA requirement for rated SEER
 GPA 的额定制冷季节能效比要求 (%)

>=100%

GPA requirement for rated SCOP
 GPA 的额定制热季节性能系数要求 (%)

>=100%

GPA requirement for Sound Power
 GPA 的声功率要求

<=Rated

☒ Inverter Single Split type 变频一拖一 分体机
 ☐ On/off Single Split type 定速一拖一 分体机
 ☐ Inverter Multisplit type 变频一拖多 分体机
 ☐ On/off Multisplit type 定速一拖多 分体机

OEM Model:
OEM型号:

Manufacturer Model:
工厂型号:

AST-18UW4RXATD03

Test Result:

Function (indicate to which function information applies)

If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.

Cooling	Y				Average (mandatory)	Y			
Heating	Y				Warmer (if designated)	Y			
					Colder (if designated)	N			
Item	Symbol	Rated value	Tested Value	Unit	Item	symbol	Rated value	Tested Value	unit
Design load					Seasonal efficiency				
cooling	Pdesignc	5.0	5.010	kW	cooling	SEER	6.1	6.220	—
heating/Average	Pdesignh	4.6	4.610	kW	heating/Average	SCOP(A)	4.0	4.050	—
heating/Warmer	Pdesignh	NA	NA	kW	heating/Warmer	SCOP(W)	NA	NA	—
heating/Colder	Pdesignh	NA	NA	kW	heating/Colder	SCOP(C)	NA	NA	—
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj					Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj				
Tj = 35 °C	Pdc	5.0	5.011	kW	Tj = 35 °C	EERd	3.2	3.250	—
Tj = 30 °C	Pdc	3.7	3.786	kW	Tj = 30 °C	EERd	4.9	4.830	—
Tj = 25 °C	Pdc	2.4	2.451	kW	Tj = 25 °C	EERd	7.7	7.750	—
Tj = 20 °C	Pdc	1.9	1.933	kW	Tj = 20 °C	EERd	9.9	10.480	—
Declared capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj					Declared coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj				
Tj = – 7 °C	Pdh	4.1	4.075	kW	Tj = – 7 °C	COPd	2.6	2.620	—
Tj = 2 °C	Pdh	2.5	2.535	kW	Tj = 2 °C	COPd	4.1	4.121	—
Tj = 7 °C	Pdh	1.8	1.822	kW	Tj = 7 °C	COPd	5.3	5.312	—
Tj = 12 °C	Pdh	1.4	1.464	kW	Tj = 12 °C	COPd	5.9	5.888	—
Tj = bivalent temperature	Pdh	4.1	4.075	kW	Tj = bivalent temperature	COPd	2.6	2.620	—
Tj = operating limit	Pdh	3.8	3.818	kW	Tj = operating limit	COPd	2.5	2.540	—
Declared capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj					Declared coefficient of performance (*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				
Tj = 2 °C	Pdh	NA	NA	kW	Tj = 2 °C	COPd	NA	NA	—
Tj = 7 °C	Pdh	NA	NA	kW	Tj = 7 °C	COPd	NA	NA	—
Tj = 12 °C	Pdh	NA	NA	kW	Tj = 12 °C	COPd	NA	NA	—
Tj = bivalent temperature	Pdh	NA	NA	kW	Tj = bivalent temperature	COPd	NA	NA	—
Tj = operating limit	Pdh	NA	NA	kW	Tj = operating limit	COPd	NA	NA	—
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj					Declared coefficient of performance (*)/Colder season, at indoor temperature 20 °C and outdoor temperature Tj				
Tj = – 7 °C	Pdh	NA	NA	kW	Tj = – 7 °C	COPd	NA	NA	—
Tj = 2 °C	Pdh	NA	NA	kW	Tj = 2 °C	COPd	NA	NA	—
Tj = 7 °C	Pdh	NA	NA	kW	Tj = 7 °C	COPd	NA	NA	—
Tj = 12 °C	Pdh	NA	NA	kW	Tj = 12 °C	COPd	NA	NA	—
Tj = bivalent temperature	Pdh	NA	NA	kW	Tj = bivalent temperature	COPd	NA	NA	—
Tj = operating limit	Pdh	NA	NA	kW	Tj = operating limit	COPd	NA	NA	—

Tj = – 15 °C	Pdh	NA	NA	kW	Tj = – 15 °C	COPd	NA	NA	—
Bivalent temperature					Operating limit temperature				
heating/Average	Tbiv	-7	NA	°C	heating/Average	Tol	-10	NA	°C
heating/Warmer	Tbiv	NA	NA	°C	heating/Warmer	Tol	NA	NA	°C
heating/Colder	Tbiv	NA	NA	°C	heating/Colder	Tol	NA	NA	°C
Power consumption of cycling					Efficiency of cycling				
cooling	Pcycc	NA	NA	kW	cooling	EERcyc	NA	NA	—
heating	Pcyh	NA	NA	kW	heating	COPcyc	NA	NA	—
Degradation co-efficient cooling (**)	Cdc	0.25	NA	—	Degradation co-efficient heating (**)	Cdh	0.25	NA	—
Electric power input in power modes other than ‘active mode’					Seasonal electricity consumption				
off mode	P _{OFF}	0.0010	0.00095	kW	cooling	Q _{CE}	287	282	kWh/a
standby mode	P _{SB}	0.0010	0.00095	kW	heating/Average	Q _{HE}	1610	1590	kWh/a
thermostat-off mode	P _{TO}	0.050	0.049	kW	heating/Warmer	Q _{HE}	NA	NA	kWh/a
crankcase heater mode	P _{CK}	NA	NA	kW	heating/Colder	Q _{HE}	NA	NA	kWh/a
Capacity control (indicate one of three options)					Other items				
fixed	N				Sound power level (indoor)	LWA	60	59.6	dB(A)
					Sound power level (outdoor)	LWA	63	62.8	dB(A)
staged	N				Global warming potential	GWP	675	NA	kgCO ₂ eq.
variable	Y				Rated air flow (indoor/outdoor)	—	1000/2000	1006/2023	m ³ /h
TEST CONCLUSION: 测试结论									
Are the SEER and SCOP TEST results Compliant or Non-Compliant? SEER/SCOP测试是否符合要求?							Compliant		

Tested by (name + signature)

测试员 (姓名, 签名)

Approved by (name + signature)

批准人 (姓名, 签名)

SOUND ACOUSTIC TEST REPORT

MANUFACTURER MODEL:

AST-18UW4RXATD03

MANUFACTURER:

Hisense

TEST DATE :

2021.12

☐ Cooling only model 单冷机

☒ Cooling and Heating model 冷暖机

☐ Window type 窗机

☒ Split type 分体机

☐ Portable 移动空调

☐ Dehumidifier 除湿机

TEST CONDITION:

IDU Background noise:

18dB(A)

Connecting pipe length for split type:

☒ 5m

☐ 4m

☐ 7.5m

☐ other _____

TEST RESULT:

Rated Sound Power dB(A)

Cooling mode

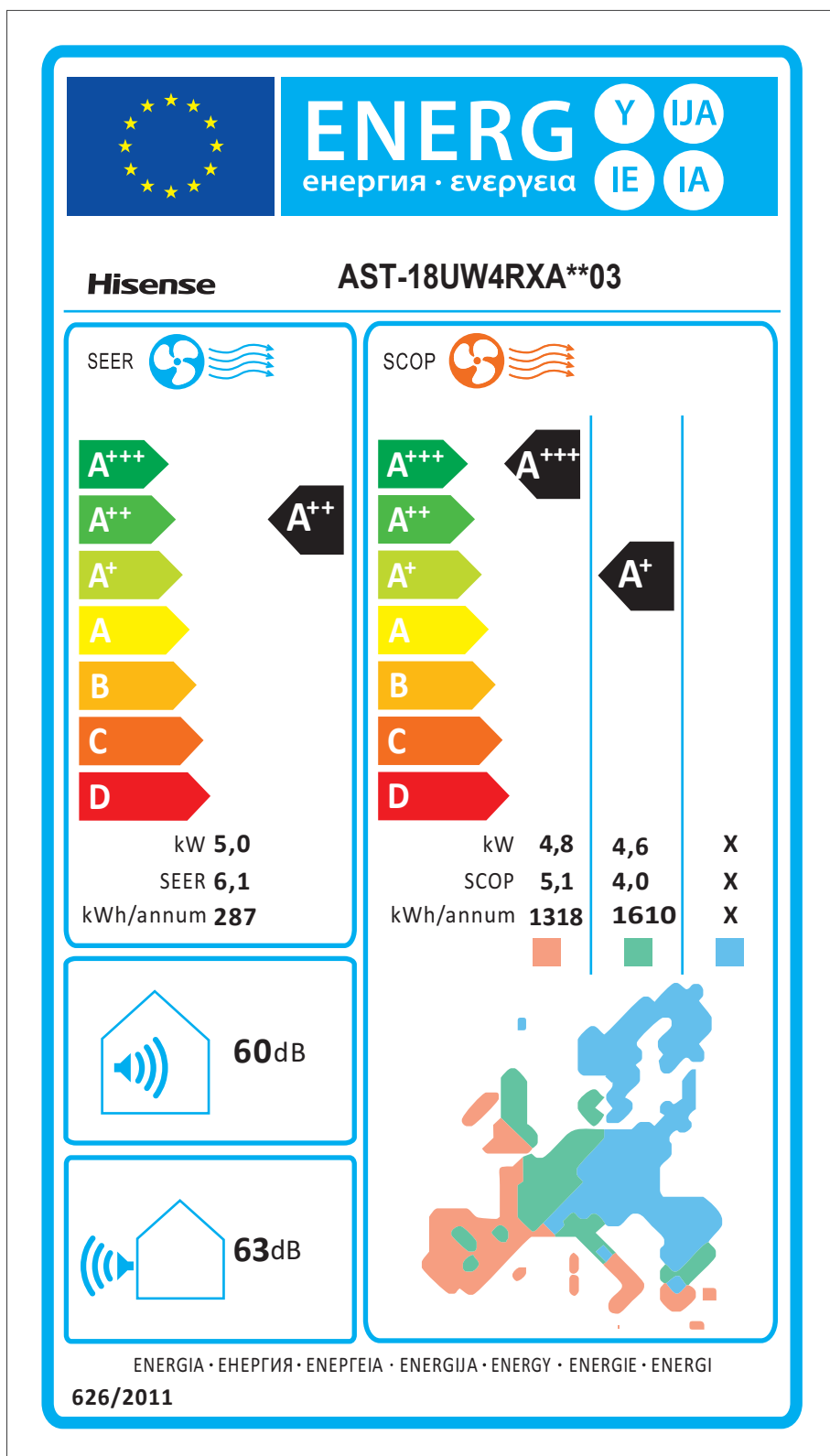
Indoor Unit Sound Power dB(A)

59.6dB(A)

Outdoor Unit Sound Power dB(A)

62.8dB(A)

Rating Label:



Indoor Unit:



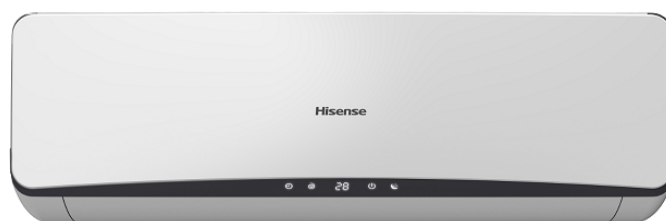
Outdoor Unit:



Annex: Indoor Unit different panel



TD



TE



TG



TQ



TR



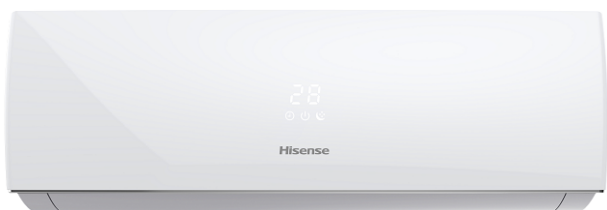
TT



TF



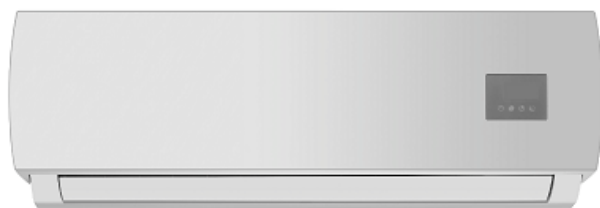
DA



DB



DC



DE



DF

Annex: Indoor Unit different panel



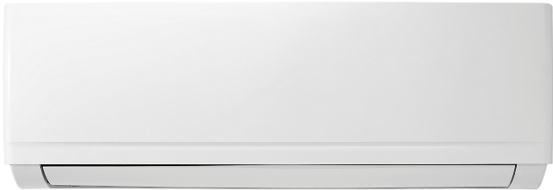
DG



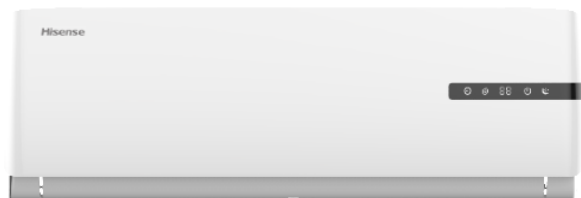
DH



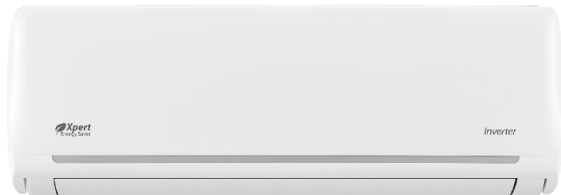
DJ



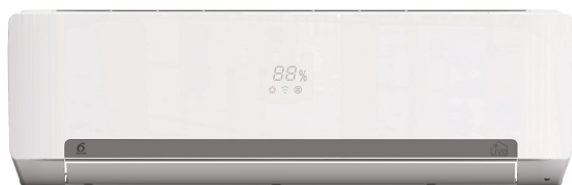
DK



DL



DX



TJ



LB



CC

Hisense Europe Model

Factory Production Model.	Hisense Europe Model		
	Model in Sets	Indoor Model.	Outdoor Model.
AST-18UW4RXA**03	**50XA03	**50XA03G	**50XA03W
AST-18UW4RXA**03*	**50XA3*	**50XA3*G	**50XA3*W

First ** means front panel of indoor unit: **can be TD,TE,TF,TG,TM,TL,TQ,TR,TT,DA,DB,DC, DE,DF,DG,DH,DJ,DK,DL,DX.
*means different version: *can be A~Z.