



CE Declaration of Conformity

We, GD MIDEA AIR-CONDITIONING EQUIPMENT CO., LTD, with headquarter in *Midea Residential AirConditioning Iternational Building 22 Lingang Road,Northern of No.5 Industrial District Beijiao, Shunde ,Foshan, Guangdong, P.R China*, declare that electrical product:

Product:	Air-conditioner Model	
Type	Midea Model	Customer Model
Designation/ Trademark	MSAFBU-09HRDN8-QRD0GW	81AC0218
	MOX133-09HFN8-QRD0GW	81AC0218
	MSAFBU-12HRDNX-QRD0FGW	81AC0219
	MOX133-12HFN8-QRD0GW	81AC0219
	MSAFBU-18HFN8-QRD0GW	81AC0220
	MOX330-18HFN8-QRD0GW	81AC0220
	MSAFDU-24HFN8-QRD0GW	81AC0221
	MOX431-24HFN8-QRD0GW	81AC0221
	MSAFBU-09HRDN8-QRD0GW	81AC0222
	MOX133-09HFN8-QRD0GW	81AC0222
	MSAFBU-12HRDNX-QRD0FGW	81AC0223
	MOX133-12HFN8-QRD0GW	81AC0223
	MSAFBU-09HRDN8-QRD0GW	81AC0224
	MOX133-09HFN8-QRD0GW	81AC0224
	MSAFBU-12HRDNX-QRD0FGW	81AC0225
	MOX133-12HFN8-QRD0GW	81AC0225
Manufacturer's name:	GD Midea Air-Conditioning Equipment Co.,Ltd.	
Manufacturer's address:	Midea Residential Air-Conditioning Iternational Building 22 Lingang Road,Northern of No.5 Industrial District Beijiao, Shunde ,Foshan, Guangdong, P.R China	

THE PRODUCT IS IN CONFORMITY WITH THE FOLLOWING STANDARDS:

LVD -<2014/35/EU >

EN 60335-2-40:2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012

EN 60335-1:2012+A11:2014+A13:2017

EN 62233: 2008

EMC - <2014/30/EU >

EN 55014-1:2006+A1:2009+A2:2011

EN 55014-2: 2015

EN61000-3-2:2014 or EN61000-3-12:2011

EN61000-3-3:2013 or EN61000-3-11:2000

ERP - <2009/125/EC 、 2017/1369/EU>

EC Regulation 206/2012: 2012-03-06 EC

Regulation 626/2011: 2011-05-04

EN 14825:2016

EN 12102:2017

RoHS < 2011/65/EU & (EU) 2015/863>



Signature

Silvia

Date : 20210329

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
Trade name: R32

Revision date: 26/12/2010
Printing date: 26/12/2010

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: R32
Substance name: Difluoromethane
REACH Reg. No.: The substance has been pre-registered. The transition time according to REACH Regulation, Article 23 is still not expired.
Pre-reg. No.: 17-2119445508-34-0000
CAS No.: 75-10-5
EC No.: 200-839-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Used as refrigerant, an important component of R22's replacement.
Uses advised against: No uses advised against.

1.3 Details of the supplier of the SDS

Only Representative: REACH COMPLIANCE SERVICES LIMITED
Address: 306 The Capel Building, Mary's Abbey, Dublin 7, Ireland
E-mail: Info@reach24h.com

Manufacturer: JINHUA YONGHE FLUOROCHEMICAL CO., LTD.
Address: JINXI DEVELOPMENT AREA, JINHUA, ZHEJIANG, CHINA
E-mail: Yonghe_gas8@qhyh.com
Telephone: +86 579 83186711
Fax: +86 579 83186717

Importer:
Address:
E-mail:
Telephone:
Fax:

1.4 Emergency telephone number

+86 579 2660119(China)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008[CLP]
Flammable gases, category 1; H220
Gases under pressure (Liquefied gases); H280
Classification according to Council Directive 67/548/EEC [DSD]

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
Trade name: R32

Revision date: 26/12/2010
Printing date: 26/12/2010

F+; R12

Additional information

Full text of R-phrase(s) and H-statement(s): see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Substance name: Difluoromethane

Hazard pictogram(s):



GHS02



GHS04

Signal word: Danger

Hazard statements: H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Precautionary statements:

Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

Response: P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 Eliminate all ignition sources if safe to do so.

Storage: P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Supplemental Hazard information (EUH):

No information available.

2.3 Other hazards

Low acute toxicity. Very high atmospheric concentrations may cause anaesthetic effects and asphyxiation. Liquid splashes or spray may cause freeze burns to skin and eyes.

Fluorinated greenhouse gases, which has climatic warming potential.

Section 3: Composition/information on ingredients

3.1 Substance information

Substance name	Synonyms	CAS No.	EC No.	Molecular formula	Classification according to DSD	% (w/w)
Difluoromethane	HFC 32	75-10-5	200-839-4	CH ₂ F ₂	F+; R12	≥99.8

Substance name	Synonyms	CAS No.	EC No.	Molecular formula	Classification according to CLP	% (w/w)
Difluoromethane	HFC 32	75-10-5	200-839-4	CH ₂ F ₂	Flam. Gas 1; H220 Press. Gas (Liq. gas); H280	≥99.8

Remark: The rest unspecified ingredients are impurities, and they are not hazard.

Full text of R-phrase(s) and H-statement(s): see section 16.

Section 4: First aid measures

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
Trade name: R32

Revision date: 26/12/2010
Printing date: 26/12/2010

4.1 Description of first aid measures

General notes: In all cases of doubt, or when symptoms persist, seek medical attention.

Following inhalation:

Remove patient from exposure, keep warm and at rest. Administer oxygen if necessary.

Apply artificial respiration if breathing has ceased or shows signs of failing.

In the event of cardiac arrest apply external cardiac massage. Obtain immediate medical attention.

Following skin contact:

Thaw affected areas with water. Remove contaminated clothing.

Caution: clothing may adhere to the skin in the case of freeze burns.

After contact with skin, wash immediately with plenty of warm water.

If irritation or blistering occur, obtain medical attention.

Following eye contact:

Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.

Following ingestion:

Unlikely route of exposure. Do not induce vomiting.

Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain immediate medical attention.

Notes for the doctor:

Treat symptomatically and supportively.

Treatment may vary with condition of victim and specifics of incident.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation Very high atmospheric concentrations may cause anaesthetic effects and asphyxiation. An inhalation study in dogs has shown that HFC 32, unlike analogous substances, does not cause cardiac sensitization at concentrations up to 35% v/v.

Skin Contact Liquid splashes or spray may cause freeze burns. Unlikely to be hazardous by skin absorption.

Eye Contact Liquid splashes or spray may cause freeze burns.

Ingestion Highly unlikely - but should this occur freeze burns will result.

4.3 Indication of the immediate medical attention and special treatment needed

Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Attending physician should treat exposed patients symptomatically.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

In case of fire in the surroundings: use appropriate extinguishing media.

Unsuitable extinguishing media:

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
Trade name: R32

Revision date: 26/12/2010
Printing date: 26/12/2010

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Substance is combustible. Containers may burst if overheated.

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds(hydrogen fluoride).

5.3 Advice for fire-fighters

Shut off gas supply if this can be done safely. If possible, take container out of dangerous zone.

Cool cylinders with water spray. Self-contained breathing apparatus (SCBA) may be required if cylinders rupture or release under fire conditions.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Immediately contact emergency personnel. Keep unnecessary personnel away.

Use suitable protective equipment (section 8). Shut off gas supply if this can be done safely.

Isolate area until gas has dispersed.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Allow small spillages to evaporate provided there is adequate ventilation.

Large spillages: Ventilate area. Contain spillages with sand, earth or any suitable adsorbent material.

Prevent liquid from entering drains, sewers, basements and work pits since the vapour may create an explosive or suffocating atmosphere.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Keep away from sources of ignition - No Smoking.

Take precautionary measures against static discharges.

Avoid inhalation of high concentrations of vapours.

Atmospheric levels should be controlled in compliance with the occupational exposure limit.

Atmospheric concentrations well below the occupational exposure limit can be achieved by good

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
Trade name: R32

Revision date: 26/12/2010
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occupational hygiene practice.

The vapour is heavier than air, high concentrations may be produced at low levels where general ventilation is poor, in such cases provide adequate ventilation or wear suitable respiratory protective equipment with positive air supply.

Avoid contact between the liquid and skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a well ventilated place. Keep in a cool place away from fire risk, direct sunlight and all sources of heat such as electric and steam radiators. Avoid storing near to the intake of air conditioning units, boiler units and open drains. Cylinders and Drums: Keep container dry. Storage temperature: < 45°C.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 : Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Long Term Exposure Limit (LTEL): 8-hr Time-weighted Average (TWA) 1000 ppm.

8.2 Exposure controls

Appropriate engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal protective equipment:

Eye and face protection: Sufficient eye protection should be worn. When handling compressed gas, at least glasses with side protection should be worn. When handling liquid gas, chemical safety goggles must be used as well as a protective shield.

Skin protection:

Body protection:

Use protective boots while handling gas cylinders.

Hand protection:

Wear leather gloves to prevent frostbite injuries from rapidly expanding gas when handling pressurised gas bottles.

Respiratory protection:

In an emergency (e.g.: unintentional release of the substance, exceeding the occupational exposure limit value) respiratory protection must be worn. Consider the maximum period for wear. Wear self-contained breathing apparatus. Do not use filter respirator.

Environmental exposure controls:

Do not allow material to be released to the environment without the proper governmental permits.

Industrial hygiene:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
Trade name: R32

Revision date: 26/12/2010
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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Compressed liquefied gas.
Colour:	Clear, colorless
Odour:	Slight ethereal
pH:	Not available.
Melting point:	-136 °C
Boiling point:	-51.7 °C
Relative Vapor Density:	1.86 at normal boiling pointy (Air= 1)
Liquid Density:	1.1 g/cm ³
Vapour pressure:	17 bar at 25 °C
Partition coefficient (n -octanol/water):	Log pow = 0.2
Solubility in water:	Insoluble in water
Flash point:	No data available.
Critical Temperature:	78.25 °C
Critical Pressure:	58.1 bar
Flammability:	Lower: 14.0 %(v/v) Upper:31.0 %(v/v) (determined by ICI using ASTM 681-85)
Decomposition temperature:	No data available.
Explosive properties:	No data available.
Oxidising properties:	Non oxidizer.
Evaporation rate :	No data available.
Viscosity:	No data available.
Volatile:	100 WT%

9.2 Other information

No data available.

Section 10: Stability and reactivity

10.1 Reactivity

The gas mixes well with air, explosive mixtures are formed easily.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Can react violently if in contact with alkali metals and alkaline earth metals - sodium, potassium, barium. May react violently with: oxidising agents.

10.4 Conditions to avoid

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
Trade name: R32

Revision date: 26/12/2010
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Avoid open flames and high temperatures.

10.5 Incompatible materials

Incompatible materials: finely divided metals, magnesium and alloys containing more than 2% magnesium.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen fluoride.

Section 11: Toxicological information

11.1 Toxicokinetics, metabolism and distribution

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

11.2 Information on toxicological effects

Acute toxicity:

Acute Inhalation toxicity: LC₅₀ = 1890 g/m³/4h (rat) (NLM Dataset);

LC₅₀ = 1810 g/m³ (mouse) (NLM Dataset);

Acute Oral toxicity:

Quantitative data on the acute oral/dermal toxicity of this product are

Acute Dermal toxicity: not available.

Skin corrosion/irritation:

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Serious eye damage/irritation:

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Respiratory or skin sensitization:

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

The substance or mixture is not classified as mutagens or toxic to reproduction.

STOT-single exposure and repeated exposure:

The substance or mixture is not classified as specific target organ toxicant, single exposure, repeated exposure.

Additional information:

No data available.

Section 12: Ecological information

12.1 Toxicity

Quantitative data on the acute fish/daphnia/bacteria toxicity of this product are not available.

12.2 Persistence and degradability

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

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Decomposed comparatively rapidly in the lower atmosphere (troposphere). Atmospheric lifetime is 5.6 year(s). Products of decomposition will be highly dispersed and hence will have a very low concentration. Does not influence photochemical smog (i.e. is not a VOC under the terms of the UNECE agreement).

12.3 Bioaccumulative potential

Log p_{ow} = 0.2 The low octanol-water partition coefficient indicated that the product is not likely to bioaccumulate.

12.4 Mobility in soil

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6 Other adverse effects

Global warming potential (GWP) = 550. Climatic warming potential.

Section 13: Disposal considerations

13.1 Waste treatment methods

Best to recover and recycle. If this is not possible, destruction is to be in an approved facility which is equipped to absorb and neutralise acid gases and other toxic processing products.

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation. Return cylinders with residual product to the suppliers. Do not dispose of locally.

Section 14: Transport information

14.1 Land transport (ADR/RID/GGVSE)

UN-No.:	3252
Official transport designation:	DIFLUOROMETHANE (REFRIGERANT GAS R 32)
Class:	2.1
Classification Code:	2F
Packing group:	-
Hazard label:	2.1

14.2 Sea transport (IMDG-Code/GGVSee)

Proper Shipping Name:	DIFLUOROMETHANE (REFRIGERANT GAS R 32)
Class:	2.1
UN-No.:	3252
Packing group:	-
EmS No.:	F-D, S-U
Marine pollutant:	No

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
Trade name: R32

Revision date: 26/12/2010
Printing date: 26/12/2010

14.3 Air transport (ICAO-TI/IATA-DGR)

Proper Shipping Name: DIFLUOROMETHANE (REFRIGERANT GAS R 32)
Class: 2.1
UN-No.: 3252
Packing group: -

14.4 Additional information

No data available.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulation:

Authorisations: No information available.

Restrictions on use: No information available.

EINECS: This substance is listed in the inventory.

DSD (67/548/EEC): This substance is not listed in the Annex I.

Regulation (EC) No 842/2006: This substance is listed in the Annex I of Regulation (EC) No 842/2006 on certain fluorinated greenhouse gases.

Other chemical regulation:

USA - TSCA: This substance is listed in the inventory.

Canada - DSL: This substance is listed in the inventory.

Australia - AICS: This substance is listed in the inventory.

Korea - ECL: This substance is listed in the inventory.

Japan - ENCS: This substance is listed in the inventory.

China - IECSC: This substance is listed in the inventory.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

Section 16: Other information

16.1 Revision Information:

Date of the previous revision: Not applicable. Date of this revision: 26/12/2010.

Revision summary: The first new SDS

16.2 Abbreviations and acronyms

CLP: EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

EINECS: European Inventory of Existing Commercial Chemical Substances.

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II

Version: 1.0/EN
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Revision date: 26/12/2010
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IARC:	International agency for research on cancer.
RID:	European Rail Transport.
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
DSD:	Dangerous Substance Directive (67/548/EEC).
TSCA:	Toxic Substances Control Act, The American chemical inventory.
DSL:	Domestic Substances List, The Canadian chemical inventory.
AICS:	The Australian Inventory of Chemical Substances.
ECL:	Existing Chemicals List, the Korean chemical inventory.
ENCS:	Japanese Existing and New Chemical Substances.
IECSC:	Inventory of existing chemical substances in China.

16.3 Key literature references and sources for data

ESIS IUCLID Dataset: European chemical Substances Information System.

NLM Dataset: United States National library of medicine.

16.4 Relevant R-phrases and H-statements

R-phrases (code and full text):

R12 Extremely flammable.

H-statements (code and full text):

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

16.5 Training advice

Provide adequate information, instruction and training for operators.

16.6 Declare to reader

The information in this Safety Data Sheet (SDS) was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. According to REACH Article 31(5), the SDS shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market, unless the recipient Member State(s) concerned provide otherwise. It should also be noted that this SDS is applicable to the countries with English as an official language.

----- End of the SDS -----



This is to certify that the Quality Management System of

GD MIDEA AIR-CONDITIONING EQUIPMENT CO., LTD.

Unified Social Credit Code: 9144060672547107X0

Lingang Road Beijiao Shunde Foshan Guangdong People's Republic of China 528311

(The certification locations and scopes are listed in Appendix)

complies with the requirements of **ISO 9001 : 2015 / GB/T 19001-2016** *quality management system standard,
applicable to:*

Design and manufacture of air-conditioners

*The certificate remains valid subject to satisfactory maintenance of the system
which will be monitored by Hong Kong Quality Assurance Agency.*

Signed for and on behalf of

HONG KONG QUALITY ASSURANCE AGENCY

Chief Executive Officer

Director

Registered address 19/F K. Wah Centre 191 Java Road North Point Hong Kong Tel (852) 2202 9111 Fax (852) 2202 9222
Note In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by that Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency. GB/T 19001-2016 has been accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Further clarifications regarding the scope of this certificate and the applicability of ISO 9001 : 2015 requirements may be obtained by consulting the organization or the official website of the Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).



Date of Granting	30 November 1995	Expiry Date	8 July 2022
Effective Date (Recertification / Extension / Reduced)	9 July 2019	Amendment Date	31 May 2019



Appendix 1 of 1 to Certificate Number CC 454

GD MIDEA AIR-CONDITIONING EQUIPMENT CO., LTD.

Certification locations and correspondent scopes:

Certification Sites	Scope(s)
Lingang Road Beijiao Shunde Foshan Guangdong People's Republic of China 528311	A
GD Midea Group Wuhu Refrigeration Equipment Co., Ltd. No. 31 Feng Ming Hu Nan Road Economic and Technological Development Zone Wuhu Anhui People's Republic of China 241000	A
Midea Industrial Park Feng Ming Hu Nan Road Economic and Technological Development Zone Wuhu Anhui People's Republic of China 241009	A
Midea Group Wuhan Refrigeration Equipment Co., Ltd. 40MD Wuhan Economic and Technological Development Zone Wuhan Hubei People's Republic of China 430056	A
Wuhu Maty Air-conditioning Equipment Co., Ltd. No. 47 Hengshan Road Economic and Technological Development Zone Wuhu Anhui People's Republic of China 241000	B
Foshan Shunde Midea Electric Science and Technology Co., Ltd. Area B No. 8 Xinye 4 Road Pioneer Park Shunjiang Residents' Committees Beijiao Town Shunde District Foshan Guangdong People's Republic of China 528311	C

Legends of certification scope :

- A Design and manufacture of air-conditioners
- B Manufacture of air-conditioners
- C Manufacture of printed circuit board assemblies for air-conditioners

Registered address 19/F K. Wah Centre 191 Java Road North Point Hong Kong Tel (852) 2202 9111 Fax (852) 2202 9222
Note In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by that Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency. GB/T 19001-2016 has been accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Further clarifications regarding the scope of this certificate and the applicability of ISO 9001 : 2015 requirements may be obtained by consulting the organization or the official website of the Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).



Date of Granting 30 November 1995 **Expiry Date** 8 July 2022
Effective Date (Recertification / Extension / Reduced) 9 July 2019 **Amendment Date** 31 May 2019

