



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX EXV 21.0032X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2021-06-17
Applicant: **Wuxi Kangning Electrical Apparatus for Explosive
Atmospheres Co., Ltd.**
No.102, Jinhui Road, Huishan Economic Development Zone, Wuxi City, Jiangsu Province
China
Equipment: **BKT Air Conditioner**
Optional accessory:
Type of Protection: **Flameproof 'db' Intrinsic Safety 'ib', Encapsulation 'mb' Purge 'pxb'**
Marking: **Ex db ib mb pxb IIC T4 Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

Position:

Certification Manager

Signature:
(for printed version)

Date:

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom**





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Manufacturer: **Wuxi Kangning Electrical Apparatus for Explosive Atmospheres Co., Ltd.**
No.102, Jinhui Road, Huishan Economic Development Zone, Wuxi City, Jiangsu Province
China

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

IEC 60079-2:2014-07 Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
Edition:6

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/EXV/ExTR21.0044/00](#)

Quality Assessment Report:

[NL/CNEX/QAR17.0006/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Equipment: Explosion-proof air conditioner

Type: BKT series

BKT series Explosion-proof air conditioner (hereafter referred to be as air conditioner) is applied in hazardous locations of Zone 1, Zone 2 hazardous areas (explosive gas atmospheres except coal mine) where group IIA, IIB, IIC grade T1...T4 explosive gas or vapor presents.

The air conditioner can be used in chemical, petrochemical, refining, electrical power, pharmaceuticals, and marine field where have workshop, control room, cabin room, warehouse need to control temperature.

Refer to Annex for continued description

SPECIFIC CONDITIONS OF USE: YES as shown below:

Special Conditions for Safe Use

- Read the instructions before use
- When operating and maintaining all the "Specific Conditions of use" of certified electrical parts shall be checked

Conditions for Use (Routine tests) Manufacturer's responsibility

- According to clause 17.1 of IEC60079-2:2014, the performance of safety devices provided with the pressurized enclosure shall be verified.
- The leakage of protection gas shall be tested as specified in clause 16.3 of IEC 60079-2:2014.
- The encapsulation terminal of the explosion-proof compressor shall submitted visual inspections test in Clause 9.1 of standard IEC60079-18.
- The encapsulation terminal of the explosion-proof compressor shall submitted dielectric strength test in Clause 9.2 of standard IEC60079-18.

Annex:

[Annex ExV 21.0032X.pdf](#)

Manufacturers' documentation			
Title:	Drawing No.:	Rev.	Date:
BKT-35,50,70-F Explosion-proof split air conditioner general drawing	KN201201.00a~c	Rev.0	2020-12-25
BKT-35-F Explosion-proof split air conditioner electric circuit diagram	KN201201.00a-1	Rev.0	2020-12-25
BKT-50-F Explosion-proof split air conditioner electric circuit diagram	KN201201.00b-1	Rev.0	2020-12-25
BKT-70-F Explosion-proof split air conditioner electric circuit diagram	KN201201.00c-1	Rev.0	2020-12-25
BKT-35-F Explosion-proof split air conditioner electric wiring diagram	KN201201.00a-2	Rev.0	2020-12-25
BKT-50-F Explosion-proof split air conditioner electric wiring diagram	KN201201.00b-2	Rev.0	2020-12-25
BKT-70-F Explosion-proof split air conditioner electric wiring diagram	KN201201.00c-2	Rev.0	2020-12-25
Nameplate	KN201203.00a~c-1	Rev.0	2021-12-20
Explosion-proof split air conditioner indoor unit general drawing	KN201201.01a~c	Rev.0	2020-12-25
Copper earth plate	KN201201.01a~c-1	Rev.0	2020-12-25
Warning sign	KN201201.01a~c-2	Rev.0	2020-12-25
GF-97x645,97x712,106x888,116x1040 Cross fan assembly drawing	KN201201.01a~c.1	Rev.0	2020-12-25
Explosion-proof split air conditioner outdoor unit general drawing	KN201201.02a~c	Rev.0	2020-12-25
ZF-395,460,560 Axial fan assembly drawing	KN201201.02a~c.1	Rev.0	2020-12-25
Earth plate	KN201201.01.4-10	Rev.0	2017-03-01
BKT-35,50,70-Z Explosion-proof unitary Air conditioner assembly drawing	KN201203.00a~c	Rev.0	2020-12-20
Nameplate	KN201203.00a~c-1	Rev.0	2021-12-20
KSD301(201)Temperature switch	KN201203.00a~c-3	Rev.0	2020-12-20
Thermostat	KN201203.00a~c-2	Rev.0	2020-12-20
Grounding copper plate	KN201203.00a~c-6	Rev.0	2020-12-20
Electrical circuit diagram	KN201203.00a~c-4	Rev.0	2020-12-20
Electrical wiring diagram	KN201203.00a~c-5	Rev.0	2020-12-20
DF centrifugal fan assembly	KN201203.01a~c	Rev.0	2020-12-20
ZF axial fan assembly drawing	KN201203.03a~c	Rev.0	2020-12-20
Earth plate	KN201201.01.4-10	Rev.0	2017-03-01
Grounding plate 2	KN200804.00a-f-3	Rev.0	2017-03-01
BY₁ explosion-proof compressor (used for BKT-□-Z unitary Explosion-proof air conditioner)			
BY ₁ explosion-proof compressor	KN201203.02a~c	Rev.0	2020-12-20
Nameplate	KN201203.02a~c-1	Rev.0	2021-12-20
Warning sign	KN201203.02a~c-2	Rev.0	2020-12-20
Pressurization protection electrical diagram	KN201203.02a~c-5	Rev.0	2020-12-20
Pressurization system diagram	KN201203.02a~c-6	Rev.0	2020-12-20
Compressor	KN201203.02a~c.1	Rev.0	2020-12-20
Encapsulation enclosure	KN201203.02a~c.1-1	Rev.0	2020-12-20
BY explosion-proof compressor (used for BKT-□-F split Explosion-proof air conditioner)			
BY explosion-proof compressor	KN201201.03a~c	Rev.0	2020-12-20
Nameplate	KN201201.03a~c-3	Rev.0	2021-12-20
Warning sign	KN201201.03a~c-6	Rev.0	2020-12-20
Pressurization protection electrical diagram	KN201201.03a~c-5	Rev.0	2020-12-20
Pressurization system diagram	KN201201.03a~c-4	Rev.0	2020-12-20
Compressor	KN201201.03a~c.1	Rev.0	2020-12-20
Encapsulation enclosure	KN201201.03a~c.1-1	Rev.0	2020-12-20