VENAS

EX-BYTF-5.0FR
EXPLOSION-PROOF AIR CONDITIONER

IECEx IECEE IEC IP65





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◎ PRODUCT INTRODUCTION >>>

- IECEx explosion-proof air conditioners are widely used in the international market for explosion-proof air conditioning, with the full series having passed relevant explosion-proof certification tests and obtained the IECEx certificate.

IECEx Explosion-Proof Air Conditioner - Top Installation

- The roof-mounted air conditioner unit features a pressurization function and can be used in conjunction with a pressurized room enclosure. Its supply fan adopts a one-for-one working/standby design to ensure indoor pressurization safety.

  The unit makes extensive use of high-quality corrosion-resistant materials such as copper tubes and copper fins, and incorporates internationally renowned components from *DANFOSS* and *COMPLAND*, together with a *Siemens (SIEMENS) PLC* programmable controller, delivering stable and reliable performance.

  The unit is available with either 50Hz or 60Hz power supply; the housing can be selected in carbon steel with plastic spraying or 316L stainless steel, the heat exchanger in copper tubes with aluminum fins or copper tubes with copper fins, and the whole unit in standard type or pressurization type. Its open-frame structural design facilitates easy maintenance.





IECEx Explosion-Proof Split Wall-Mounted Air Conditioner

- It delivers powerful cooling, heating and ventilation, and is compact in size, lightweight and easy to install and move. It is suitable for explosive atmospheres formed by flammable gases or vapors of Class IIA and IIB, Temperature Classes T1–T4.

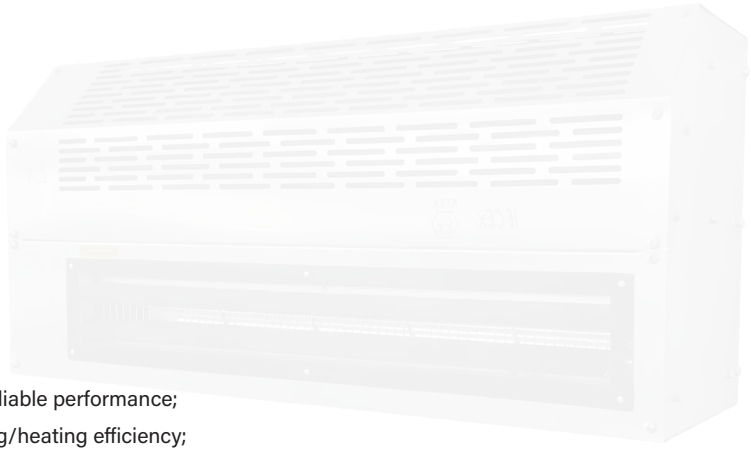
  It is widely used in flammable and explosive industries such as petroleum, drilling and extraction, chemical processing, chemical analysis, military, pharmaceutical and hazardous-goods warehousing, as well as hazardous spaces including driller's cabins, drilling rigs/platforms and overhead crane cabs.

- It adopts R134a high-temperature refrigerant, on which basis the heat exchanger and compressor are designed. The compressor is cooled by capillary throttling and is equipped with a high-insulation explosion-proof motor with Class H insulation, while the main explosion-proof components are placed in a moderate-temperature zone, ensuring reliable operation in high-temperature environments while fully meeting explosion-proof requirements.

◎ COMPLIANCE >>>

▪ IECEx Marking

Ex IIB T4 Gb（Certificate Number：IECEx Pre 18.0042X）



◎ PRODUCT FEATURES >>>

1. Uses world-renowned Copeland compressors for stable and reliable performance;
2. High-efficiency heat exchanger for fast cooling and high cooling/heating efficiency;
3. High/low pressure gauges on the outdoor unit allow easy and accurate monitoring of operating status;
4. Explosion-proof microcomputer LCD controller, which can be mounted at a user-convenient position as required;
5. User-friendly microcomputer control for precise temperature control, with readable fault codes for easier maintenance;

◎ PRODUCT FEATURES >>>

6 Uses R134a refrigerant — environmentally friendly and pollution-free;
7 Explosion-proof compressor and fan feature built-in overload protection for safe and reliable operation;
8 Louvered grilles on the supply and return air openings allow adjustable airflow direction, and the return air grille is equipped with a filter for easy periodic cleaning;
9 Open-frame structure enables easy disassembly and maintenance;
10 Cables and interconnecting copper pipes are pre-routed, allowing easy connection without disassembly — ready for immediate use;
11 Modular design for easy installation and simple maintenance;
12 Holds the qualification certificate for installation and repair of explosion-proof electrical equipment and the Five-Star after-sales service system certification, backed by a professional installation team to provide fast, high-quality service.

◎ TECHNICAL PARAMETER >>>

Model	EX-BYTF-5.0FR
Function	Cooling & Heating
Cooling / Heating Capacity	5000W; 6000W
Rated Cooling / Heating Power	5500W; 6600W
Maximum Input Power	2100W
Voltage	AC220-240V
Power Frequency	50Hz; 60Hz
Air Flow Rate	900m³/h
Refrigerant / Charge Quantity (kg)	R134a /1.8
Applicable Ambient Temperature	-20°C to +55°C
Indoor / Outdoor Noise	48/55dB(A)
Mass / Net Weight (kg)	65kg/80kg
Enclosure / Housing Material	Carbon Steel Spray Coating / SUS304 / SUS316
Electrical Protection Rating	IP55
Air Inlet Protection Rating	IP20
Air Outlet Protection Rating	IP10

** Note:*
1. Cooling-only models are available for all above types. Specifications are subject to change without prior notice. Please confirm details with the manufacturer before placing orders.
2. The technical parameter table applies to standard mainstream models. Custom models and functions can be developed according to user requirements.

