

## Product 3: ATEX Cassette Air Conditioning

### [Product Photos]

### [Short Desc (two Paragraphs)]

The ATEX Cassette Air Conditioning - ExM High Ambient Series - Type ExM FCAG35B-140B is designed to provide reliable and efficient air conditioning in hazardous areas with high ambient temperatures. This explosion-proof unit is certified for ATEX zone 2 (3G) and zone 22 (3D), ensuring safe operation in industries such as oil and gas, chemical, and food and beverage. Its robust construction and advanced features ensure superior performance and energy efficiency, maintaining a comfortable and safe environment even in extreme conditions. Choose this model for its discreet ceiling installation, which provides uniform airflow and preserves floor and wall space, making it perfect for large open areas.

Built upon Daikin's commercial air conditioning technology, the ExM High Ambient Series Cassette Air Conditioning offers enhanced features tailored for hazardous environments. These include advanced corrosion protection, technical cooling functions, and seamless integration with industrial control systems. This unit is engineered to withstand harsh environments while maintaining optimal indoor air quality and comfort.

### [Table Explosion Protection Specs]

EU Directive	2014/34/EU (ATEX114)
ATEX marking gas (indoor unit)	3G Ex h ic nAC IIB (+H2) T4 Gc
ATEX marking gas (outdoor unit)	II 3G Ex h nAC IIB (+H2) T3 Gc
ATEX marking dust (indoor unit)	II 3D Ex tc h IIIB T140°C Dc
ATEX marking dust (outdoor unit)	II 3D Ex tc h IIIB (+H2) T150°C Dc
Applied standards	EN 60079-0, EN 60079-11, EN 60079-15, EN 60079-31, EN 80079-36, EN 80079-37

### [Key Features Bulletpoints]

- Certified for ATEX zone 2 and zone 22 environments
- Designed for high ambient temperatures up to 52°C
- Capable of both cooling and heating
- Energy-efficient operation with low power consumption
- Quiet operation with minimal noise levels
- Corrosion protection coating for industrial and marine environments
- Seamless integration with Building Management Systems (BMS) and Distributed Control Systems (DCS)
  
- Available in multiple capacities to suit various application needs

### [Optional features]

The ATEX Cassette Air Conditioning offers several optional features to enhance its performance and suitability for various environments. For applications requiring higher durability, a marine upgrade is available, providing additional corrosion protection on fins, coils, and outdoor casings. Users can opt for an R410a retrofit, replacing the standard R32 refrigerant, and a 50Hz/60Hz upgrade to accommodate different electrical systems. Additional safety and convenience can be achieved with a rugged IP66 casing wired remote control, offshore corrosion resistance treatment, and an ATEX isolating switch for maximum safety in hazardous areas.

**[AC Specs, series name]**

<b>Specification</b>	<b>Detail</b>
Model Names	ExM FCAG35B, ExM FCAG50B, ExM FCAG60B, ExM FCAG71B, ExM FCAG100B, ExM FCAG125B, ExM FCAG140B
Cooling Capacity	3.5 kW to 14.0 kW
Heating Capacity	4.0 kW to 16.0 kW
Operating Range	Cooling -20°C to +52°C, Heating -20°C to +24°C
Refrigerant	R32 (with optional R410a retrofit)
Power Supply	1Phase, 220-240V, 50Hz (60Hz on request)
Outdoor unit dimensions (mm)	734x954x401, 990x940x320, 1,430x940x320

**[Linked Products: products in the same series]**

*Series:* ExM High Ambient (Daikin)