



# Explosion proof Ex-M Best Buy Split Unit Air Conditioners



Equipment for Hazardous Areas

## Key Benefits

- ATEX zone 2 or 22 certified
- Designed for ambient temperatures up to +50°C
- Quick, efficient heating and cooling
- Salt spray (fog) tested ASTM B117-18
- Includes technical cooling function
- Competitive pricing

 II 3G Ex h ic nAC IIB(+H2) T4 Gc  
 II 3G Ex h ic nAC IIB(+H2) T3 Gc



## Best buy for explosion proof climate control in demanding areas

These Ex-M Best Buy explosion proof air conditioner series are a unique ATEX climate control solution. The superior performance and competitive pricing of the OEM Samsung Commercial Air Conditioner Series enables Ex-Machinery Explosion Proof Equipment B.V. to introduce this Ex-M Best Buy series to the ATEX market.

## Applications

ATEX zone 2 (3G) and ATEX zone 22 (3D) classified areas in oil & gas and chemical industry and food & beverage industry. For battery rooms, operator shelters, production and storage facilities.

## Suitable for a wide variety of environmental circumstances:

- Tested Method B of ISO21207 for salt contamination and severe industrial or traffic environment and salt spray (fog) tested ASTM B117-18.
- Suitable for geographical areas with mild and high ambient temperatures. 5kW and larger units are suitable for cooling operations of max +50°C ambient temperature. Minimal heating operation temperature of -20°C.
- For offshore use: Optional Blygold offshore corrosion protection treatment is advised.

## Explosion Safety Specifications (ATEX)

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

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## Explosion proof air conditioner Ex-M Best Buy for ATEX zone 2 or 22



| Wall mount indoor models | Ex-M WBB26 | Ex-M WBB35 | Ex-M WBB52 | Ex-M WBB71 |
|--------------------------|------------|------------|------------|------------|
|--------------------------|------------|------------|------------|------------|

### Nominal cooling capacity\*

|     |       |        |        |        |
|-----|-------|--------|--------|--------|
| kW  | 2.6   | 3.5    | 5.0    | 7.1    |
| BTU | 8,900 | 11,900 | 17,100 | 24,200 |
| RT  | 0.7   | 1      | 1.4    | 2      |

### Nominal heating capacity

|     |        |        |        |        |
|-----|--------|--------|--------|--------|
| kW  | 3.3    | 4.0    | 6.0    | 8.0    |
| BTU | 11,300 | 13,600 | 20,500 | 27,300 |
| RT  | 0.9    | 1.1    | 1.7    | 2.3    |

### Indoor unit dimensions (mm)

|                  |             |             |             |              |
|------------------|-------------|-------------|-------------|--------------|
| WxHxD            | 750x249x246 | 750x249x246 | 896x261x261 | 1065x301x294 |
| Indoor unit (kg) | 7.6         | 7.6         | 10.8        | 14.4         |

### Outdoor unit dimensions (mm)

|                   |             |             |             |             |
|-------------------|-------------|-------------|-------------|-------------|
| HxWxD             | 790x548x285 | 790x548x285 | 880x638x310 | 880x798x310 |
| Outdoor unit (kg) | 32.8        | 32.8        | 43.8        | 53          |

|                            |                           |  |         |
|----------------------------|---------------------------|--|---------|
| Electrical supply          | 1Phase, 220-240V, 50/60Hz |  |         |
| °C operating range cooling | -15 +46                   |  | -15 +50 |
| °C operating range heating | -20 +24                   |  |         |
| Refrigerant                | New R32 refrigerant       |  |         |

\*nominal capacity at 35° degrees ambient temperature.

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## Line up and options

|  |
|--|
| Refrigerant R410a available for ducted (HSP) units from 20kW   |
| ATEX isolating switch  |
| ATEX zone 2 or 22 adaption box to connect with 3phase no neutral/400-440V                                  |
| ATEX zone 2 or 22 Junction box for redundant operation; automatic switch to second unit in case of failure |
| Offshore corrosion resistance treatment  |

|  |  |
|--|--|
| <p><b>ATEX Wired remote control</b><br/>in rugged casing</p>   |   |
| <p><b>ATEX Cassette model</b><br/>Ex-M CABB26-140<br/>2.6 kW – 13.4 kW<br/>8,870 BTU – 45,700 BTU<br/>0.7 RT – 3.8 RT</p>          |  |
| <p><b>ATEX Ceiling suspended model</b><br/>Ex-M CSBB26-140<br/>2.6 kW – 13.4 kW<br/>8,870 BTU – 45,700 BTU<br/>0.7 RT – 3.8 RT</p> |  |
| <p><b>ATEX Ducted model</b><br/>Ex-M DUBB26-250<br/>2.6 kW – 25 kW<br/>8,870 BTU – 85,300 BTU<br/>0.7 RT – 7.1 RT</p>              |  |

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Equipment for Hazardous Areas

## CERTIFICATE OF VALIDATION

Certificate Number /  
Report Reference 4787020301-3 /  
4787020301-15-1

Issue Date: 2015-09-25  
Expiration Date: 2018-09-25

Issued to: Samsung Electronics Co., Ltd.

129 Samsung-Ro Yeongtong-Gu Suwon-Si,  
Gyeonggi-Do 443-742, Korea

Claim Validated: Aluminum Fin & Copper Tube Heat Exchanger  
employed on the Outdoor Unit of Air-Conditioners.

Simulating the corrosive load for 27 years of  
exposure in a more severe traffic environment with  
salt contamination (Test Method B).

Tests: Test method B of ISO21207 :  
Salt contaminated condition + severe industrial or  
traffic environment

Standards / Regulations: ISO 21207, 6.2 & Annex A  
DJII-0137K

This certificate and the claim validation expire on the expiration date listed above. UL validated the claim based upon criteria defined by the client. Client's use of the validated claim on or in connection with the product is and shall remain Client's representation that the claim is true and accurate. UL neither selected the samples nor determined whether the samples were representative of production units. The test results apply only to the actual samples tested. UL is not responsible for the scope of the tests performed or for the accuracy of test data generated by third parties. Please see test report for full details including test standards.

This certificate in no way conveys or implies Listing, Classification or Recognition or other certification by UL and does not authorize the use of UL Listing, Classification or Recognition Marks on or in connection with the product. The validated claim relates solely to product performance and in no way conveys or implies evaluation of the safety of the product identified above.

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Commercial & Industrial

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Yeoksam-dong, Gangnam-gu, Seoul, Korea



Certificate test:  
Salt contaminated condition  
and severe industrial  
environment