Explosion proof
Ex-M Best Buy
Split Unit Air Conditioners

Key Benefits
• ATEX zone 2 or 22 certified
• Designed for ambient temperatures up to +50°C, +55°C upgrade available.
• Quick, efficient heating and cooling
• Factory corrosion protection
• 24/7 non-stop optimal performance
• Competitive pricing

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 Climate Solutions 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:
• Offshore and coastal areas: tested Method B of ISO21207 for salt contamination and severe industrial or traffic environment and salt spray (fog) tested ASTM B117-18.
• Suitable for (Western) European climate, Mediterranean, Tropical climate conditions and Dessert Areas, due to maximum cooling operating temperature of +50°C and minimal heating operation temperature of -20°C. Optional upgrade to +55°C ambient temperature available.

Explosion Safety Specifications (ATEX)

<table>
<thead>
<tr>
<th>EU Directive</th>
<th>2014/34/EU (ATEX114)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEX marking gas (indoor unit)</td>
<td>3G Ex h ic nAC IIB (+H2) T4 Gc</td>
</tr>
<tr>
<td>ATEX marking gas (outdoor unit)</td>
<td>3G Ex h ic nAC IIB T3 Gc</td>
</tr>
<tr>
<td>ATEX marking dust (indoor unit)</td>
<td>3D Ex ic tc h IIIIB T140°C Dc</td>
</tr>
<tr>
<td>ATEX marking dust (outdoor unit)</td>
<td>3D Ex ic tc h IIIIB T150°C Dc</td>
</tr>
<tr>
<td>Applied standards</td>
<td>EN 60079-0, EN 60079-11, EN 60079-15, EN 60079-31, EN 80079-36, EN 80079-37</td>
</tr>
</tbody>
</table>
**Explosion proof air conditioner**

**Ex-M Best Buy for ATEX zone 2 or 22**

<table>
<thead>
<tr>
<th>Wall mount indoor models</th>
<th>Ex-M WBB26</th>
<th>Ex-M WBB35</th>
<th>Ex-M WBB52</th>
<th>Ex-M WBB71</th>
<th>Ex-M WBB 95</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal cooling capacity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td>2.6</td>
<td>3.5</td>
<td>5.0</td>
<td>7.1</td>
<td>9.5</td>
</tr>
<tr>
<td>BTU</td>
<td>8,900</td>
<td>11,900</td>
<td>17,100</td>
<td>24,200</td>
<td>32,400</td>
</tr>
<tr>
<td>RT</td>
<td>0.7</td>
<td>1</td>
<td>1.4</td>
<td>2</td>
<td>2.7</td>
</tr>
<tr>
<td><strong>Nominal heating capacity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td>3.3</td>
<td>4.0</td>
<td>6.0</td>
<td>8.0</td>
<td>10.8</td>
</tr>
<tr>
<td>BTU</td>
<td>11,300</td>
<td>13,600</td>
<td>20,500</td>
<td>27,300</td>
<td>36,800</td>
</tr>
<tr>
<td>RT</td>
<td>0.9</td>
<td>1.1</td>
<td>1.7</td>
<td>2.3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Indoor unit dimensions (mm)**

<table>
<thead>
<tr>
<th>WxHxD</th>
<th>750x249x246</th>
<th>750x249x246</th>
<th>896x261x261</th>
<th>1065x301x294</th>
<th>1200x345x253</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor unit (kg)</td>
<td>7.6</td>
<td>7.6</td>
<td>10.8</td>
<td>14.4</td>
<td>18.5</td>
</tr>
</tbody>
</table>

**Outdoor unit dimensions (mm)**

<table>
<thead>
<tr>
<th>HxWxD</th>
<th>790x548x285</th>
<th>790x548x285</th>
<th>880x638x310</th>
<th>880x798x310</th>
<th>940x998x330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor unit (kg)</td>
<td>32.8</td>
<td>32.8</td>
<td>43.8</td>
<td>53</td>
<td>72</td>
</tr>
</tbody>
</table>

**Electrical supply**

- 1Phase, 220-240V, 50/60Hz
- 3Phase, 380-415V, 50/60Hz

°C operating range

- Cooling: -15 +50
- Heating: -20 +24

**Refrigerant**

R410a/R32 on request

*Nominal capacity at 35° degrees ambient temperature.
**Line up and options**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant R410a or R32</td>
<td></td>
</tr>
<tr>
<td>ATEX isolating switch</td>
<td></td>
</tr>
<tr>
<td>ATEX zone 2 or 22 adaption box to connect with 3phase no neutral/400-440V</td>
<td></td>
</tr>
<tr>
<td>ATEX zone 2 or 22 Junction box for redundant operation; automatic switch to second unit in case of failure</td>
<td></td>
</tr>
</tbody>
</table>

**ATEX Wired remote control**
- In rugged casing

**ATEX Cassette model**
- 2.6 kW – 14 kW
- 8,870 BTU – 47,750 BTU
- 0.7 RT – 4 RT

**ATEX Ceiling suspended model**
- 10 kW – 14 kW
- 34,100 BTU – 47,750 BTU
- 2.8 RT – 4 RT

**ATEX Ducted model**
- 2.6 kW – 14 kW
- 8,870 BTU – 47,750 BTU
- 0.7 RT – 4 RT
Equipment for Hazardous Areas

Ex-M Best Buy

Split Unit Air Conditioners

Certificate of Validation

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 ISO21067:
Salt contaminated condition + severe industrial or traffic environment

Standards / Regulations: ISO 21067, 6.2 & Annex A DJH-II/137K

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.

Chulbtae Kim
Engineering Leader
Commercial & Industrial
UL Korea Ltd.
26th F, Gangnam Finance Center, 737, Yeoksam-dong, Gangnam-gu, Seoul, Korea

Certificate test:
Salt contaminated condition and severe industrial environment