

Explosion proof Ex-M+52°C Split Unit Air Conditioners



Equipment for Hazardous Areas

Key Benefits

- Specially designed for high ambient temperatures up to 52°C.
- To be used for cooling and heating.
- ATEX zone 2 or 22
- Operation range from +52°C down to -20°C ambient temperature
- Wall mount, Cassette, Ducted or ceiling suspended indoor models

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



Applications

Very reliable explosion proof climate control for regions with high ambient temperatures as The Middle East, Far East and Africa. Ensures a healthy working environment and keeps goods at the room temperature at all times in desert or tropical area. For example (offshore) storage containers and (operator) shelters. These converter based units can also be used for heating during cold nights.

For explosion safe climate control in high ambient temperatures

OEM Daikin Sky Air Alpha series. Designed for high ambient temperatures. Technical cooling function enables 24/7 continuous cooling. Converted and certified to explosion proof ATEX zone 2 (3G) and 22 (3D) by Ex-Machinery Explosion Proof Equipment B.V.

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 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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**For high ambient
temperatures! Max +52°C
ATEX zone 2 and 22**



1ExM+52W71/100 indoor unit

Ex-M +52 W	Ex-M +52W35	Ex-M +52W50	Ex-M +52W60	Ex-M +52W71V	Ex-M +52W71Y	Ex-M +52W100Y
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Nominal cooling capacity*

kW	3.5	5.0	6.0	6.8	9.5
BTU	11,940	17,060	20,470	23,200	32,400
RT	1	1.4	1.7	1.9	2.7

Nominal heating capacity

kW	4.0	6.0	7.0	7.5	10.8
BTU	13,650	20,470	23,900	25,600	36,850
RT	1.2	1.7	2	2.1	3

Indoor unit dimensions (mm)

HxWxD	294x811x272	300x1,040x295	300x1,040x295	790x1,050x238	340x1.200x240
Indoor unit (kg)	10	14.5	14,5	13	17

Outdoor unit dimensions (mm)

HxWxD	734x954x401	990x940x320	1,430x940x320
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Electrical supply	1Phase, 220-240V, 50HZ (60Hz on request)	3Phase with Neutral, 380-415V, 50Hz (60Hz on request)
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°C operating range cooling	-20 +52	-20 +52
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°C operating range heating	-20 +24	-20 +18
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Refrigerant	R32
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* Nominal cooling capacity at 35°C ambient temperature

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Equipment for Hazardous Areas

Optional

Corrosion protection coating
Refrigerant R410a depending on availability
Stainless steel screws
ATEX isolating switch
ATEX zone 2 or 22 adaption box to connect with 3phase or with 3phase no neutral / 400-440V power supply
ATEX zone 2 or 22 Junction box for redundant operation, automatic switch to second unit in case of failure

<p>ATEX Wired remote control in rugged casing</p>	
<p>ATEX Cassette model 3.5 kW – 13.4 kW 11,950 BTU – 49,000 BTU 1 RT – 3.8 RT</p>	
<p>ATEX Ceiling suspended model 3.5 kW – 13.4 kW 11,950 BTU – 49,000 BTU 1 RT – 3.8 RT</p>	
<p>ATEX Ducted model 3.5 kW – 13.4 kW 11,950 BTU – 49,000 BTU 1 RT – 3.8 RT</p>	