

Explosion Proof Ex-M Power Inverter Series Split Unit Air Conditioners



Equipment for Hazardous Areas

Key Benefits

- Specially designed for 24/7 optimal cooling and heating duty
- ATEX zone 2 and 22 version of indoor and/or outdoor unit.
- Operation range from +46°C down to -15°C ambient temperature
- Wall mount, Cassette or Ceiling suspended indoor models
- From 3.5kW up to 14kW
- 5 years warranty included on parts



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

II 3G Ex h nAC IIB(+H2) T3 Gc (outdoor unit)

Applications

Best explosion proof climate control solution when stored goods or devices must kept at a certain temperature (range) at all times. For (offshore) storage containers, battery housings, paint storages, analyzer rooms, warehouses containing dangerous goods or production facilities for goods that can cause explosions. Specific design enables defrosting and cooling at the same time. Suitable for the European climate.

24/7 Duty AC model for safe operations in hazardous areas

OEM Mitsubishi Electric Mr. Slim series. Specially designed for 24/7 continuous use in Western European Climate. Converted and certified to explosion proof ATEX zone 2 (3G) and 22 (3D) by Ex-Machinery Explosion Proof Equipment B. V.

Unique Options

- **3 Configurations:**
 1. Indoor unit for ATEX zone 2, with outdoor unit for safe area
 2. Indoor unit for safe area, with outdoor unit for ATEX zone
 3. Both the indoor and outdoor units for ATEX zone 2
- **Marine Upgrade:** corrosion protection coating on fins, coils and/or outdoor casing. AISI 316 fasteners
- **R410a Retrofit:** R32 refrigerant replaced with R410a, including re-labeling
- **50Hz/60Hz upgrade,** including re-labeling
- **Connection to BMS or Industrial DCS**

Explosion Safety Specifications (ATEX)

EU Directive	2014/34/EU (ATEX114)
ATEX marking gas (indoor unit)	II 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 60079-36, EN 80079-37

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Equipment for Hazardous Areas

SUPERIOR AIR CONDITIONING FOR CHALLENGING ENVIRONMENTS

- Battery rooms
- Operator shelters
- Production facilities
- Storage facilities
- Refineries
- Chemical plants
- Offshore platforms
- Control rooms
- Pharmaceutical facilities
- Paint and coating shops
- Fuel storage areas
- Gas compressor stations
- Petrochemical plants
- Food and beverage facilities



CONFIGURATIONS TAILORED TO YOUR UNIQUE NEEDS

1. Both indoor and outdoor unit for zone 2



2. Indoor unit for safe area, outdoor unit for zone 2



3. Indoor unit for zone 2, outdoor unit for safe area



OPTIONAL SPARE PARTS

- Indoor/Outdoor PCB's
- Fan Motors
- Compressor
- Remote control



Gido van Tienhoven
– Founder &
Technical Director

ABOUT EX-MACHINERY

Ex-Machinery delivers the best explosion proof HVAC systems, tailored to meet your needs in hazardous areas. With 20 years of ATEX expertise, we combine exceptional quality, customer-focused service, and reliable solutions to ensure safety in gas and dust-prone zones. Founded by Gido van Tienhoven, a passionate engineer and entrepreneur dedicated to preventing explosion hazards, our team is committed to providing expert advice and fast, efficient service. Contact us today for the best ATEX HVAC solutions and get your quotation within 24 hours.

WORLDWIDE SHIPMENT



WE PROVIDE THE BEST ATEX COOLING SOLUTIONS, COMBINING AFFORDABILITY, RELIABILITY, AND CUSTOMIZED CONFIGURATIONS WITH EXCEPTIONAL AFTERCARE AND SERVICE TO 50+ COUNTRIES

CONTACT US TODAY AT info@ex-machinery.nl

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Indoor units

Wall Mount

Non-ATEX/Standard	PI35W	PI50W	PI60W	PI71W	PI100W		
ATEX Zone 2	Ex-M PI35W	Ex-M PI50W	Ex-M PI60W	Ex-M PI71W	Ex-M PI100W		
Set	Ex-M PI35	Ex-M PI50	Ex-M PI60	Ex-M PI71	Ex-M PI100		
Cooling Capacity (kW)	3.6	4.6	6.1	7.1	9.5		
Heating Capacity (kW)	4.1	5.0	7.0	8.0	11.2		
WxDxH (mm)	898x237x299			1170x295x365			
Unit weight (kg)	13			21			

Ceiling Suspended

Non-ATEX/Standard	PI35S	PI50S		PI71S	PI100S	PI125S	PI140S
ATEX Zone 2	Ex-M PI35S	Ex-M PI50S		Ex-M PI71S	Ex-M PI100S	Ex-M PI125S	Ex-M PI140S
Set	Ex-M PI35	Ex-M PI50		Ex-M PI71	Ex-M PI100	Ex-M PI125	Ex-M PI140
Cooling Capacity (kW)	3.6	5.0		7.1	9.5	12.5	13.4
Heating Capacity (kW)	4.1	5.5		8.0	11.2	14.0	16.0
WxDxH (mm)	960x680x230			1280x680x230	1600x680x230		
Unit weight (kg)	25	26		32	37	38	40

Cassette

Non-ATEX/Standard	PI35C	PI50C	PI60C	PI71C	PI100C	PI125C	PI140C
ATEX Zone 2	Ex-M PI35C	Ex-M PI50C	Ex-M PI60C	Ex-M PI71C	Ex-M PI100C	Ex-M PI125C	Ex-M PI140C
Set	Ex-M PI35	Ex-M PI50	Ex-M PI60	Ex-M PI71	Ex-M PI100	Ex-M PI125	Ex-M PI140
Cooling Capacity (kW)	3.6	5.0	6.1	7.1	9.5	12.5	13.4
Heating Capacity (kW)	4.1	6.0	7.0	8.0	11.2	14.0	16.0
WxDxH (mm)	840x840x258				840x840x298		
Unit weight (kg)	21			24	26		

Compatible outdoor unit

Non-ATEX/Standard	PI35O	PI50O	PI60O	PI71O	PI100O	PI125O	PI140O
ATEX Zone 2	Ex-M PI35O	Ex-M PI50O	Ex-M PI60O	Ex-M PI71O	Ex-M PI100O	Ex-M PI125O	Ex-M PI140O
WxDxH (mm)	809x300x630		950x330x943		1100x460x870		
Unit weight (kg)	46		70		114	116	121
Refrigerant	R32 (R410a optional)						
Power Supply	220 -240, 1, 50				400V/3~N+a/50 Hz		
Operating range (°C)							
Cooling	-15 ~ +46						
Heating	-11 ~ +21			-20 ~ +21			



Wall Mount



Ceiling Suspended



Cassette



Outdoor Unit

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Equipment for Hazardous Areas

Optional

Refrigerant R410a retrofit
ATEX isolating switch
ATEX zone 2 or 22 converter to connect with 3phase no neutral/400-440V, 50/60 Hz
ATEX zone 2 or 22 converter to connect with 3phase no neutral/400-460V, 50/60 Hz
Infra-red remote control included. ATEX zone 2 or ATEX zone 22 available
Wired remote control (optional): In rugged IP66 casing. Various options depending on required functions as remote alarm, redundant operation, set-point function. Available for ATEX zone 2, ATEX zone 22 or for non-hazardous area.
Offshore corrosion resistance treatment
Communication PCB, for connection to industrial controls
Power split box
Control cabinet for interface with Air Handling Unit (AHU)
Redundant kit

