

# UNIT ASSESSMENT CERTIFICATE

Issued by a competent body in explosion safety

## ARTIDOR 20ATEX9999 X

- 1.
- 2.
3. We, ARTIDOR Explosion Safety B.V., Emopad 38, 5663 PB Geldrop, The Netherlands, herewith declare that:
4. **Apparatus:** Explosion-safe window air conditioning system  
**Type:** AR-054/040  
**Power supply:** 230 V AC, 50 Hz  
**Capacity:** 3,7 kW cooling  
**Quantity:** 1 piece  
**Lot No.:** AS209999
5. has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to directive 2014/34/EU.
6. Compliance with the Essential Health and Safety Requirements for group II, category 3G equipment has been assured by compliance with the following harmonized standards:
  - EN 60079-0:2018
  - EN 60079-7:2015 / A1:2018
  - EN 60079-11:2012
  - EN 60079-18:2015 / A1:2017
  - EN 80079-36:2016
  - EN 80079-37:2016
7. The design and the results of the examination and tests carried out are documented in confidential technical construction file No. AS209999, held at the offices of Artidor Explosion Safety B.V.
8. If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to the special conditions for safe use as described in this declaration.
9. The marking of the equipment includes the following:



II 3 G Ex ec h ic mc IIC T3 Gc  
II 3 G Ex ic IIC T6 Gc

Window unit  
Remote control

10. This certificate only relates to the examination and tests according to directive 2014/34/EU and to the equipment of the above mentioned type, lot number and Ex code.

11. Production is controlled by the ARTIDOR Quality Assurance system in accordance with ISO 9001:2015 and annex VIII of directive 2014/34/EU.
12. This certificate does not imply that the apparatus meets all statutory requirements in any particular industry or circumstance.
13. The ambient temperature allowed for the apparatus is -20 °C to +45 °C.

14. Description

The window type air conditioner is an unitary and self-contained unit and has been designed to provide cooling only. It is equipped with a closed, pre-charged refrigeration circuit, driven by a fully encapsulated compressor. The condenser fan and evaporator blower are sharing a thermally protected asynchronous brushless electric motor. Both the remote control and the fixed control unit enable the user to operate the unit.

An ignition hazard assessment in accordance with EN 80079-36 has been carried out to the apparatus. Each part has been assessed with regard to its explosion-safe properties and is modified and marked accordingly.

The window type air conditioning unit consists of a sheet steel enclosure with a non-metallic cover at the front. The surface resistance of the non-metallic cover is higher than  $10^9$  Ohm. A warning label is attached to the outside of the cover to draw attention to the risk of electrostatic charge. The enclosure contains the compressor, heat exchanger, NTC temperature sensors, fan assembly, louvre motor and the control electronics. The sheet steel enclosure is partly part of the protection degree against ignition applied.

The remote control contains electronics (PCB) with a display and membrane pushbuttons all housed in a non-metallic housing containing two (2) 1,5 V DC AAA dry cell batteries.

The apparatus under (4) in its basic version is originally manufactured by Airwell Residential S.A.S., France with designation RADE12DC1 and serial No. xxx.

15. Electrical data

Supply voltage: 230 V AC, 50 Hz  
Electrical power: 1,3 kW  
To be fused at: 16 A max.

16. **Special conditions for safe use**

1. Install an isolating switch close to the apparatus and be sure that it's explosion-safe in accordance with the classification of its environment.
2. Pre-fuse the electric power supply in accordance with the power consumption of the apparatus connected.

Geldrop, 1 April 2020

M. Moolenaar  
Managing Director and EX Authorized Person