

## REFRIGERATION & AIR CONDITIONING SPECIALISTS

### AR-051 Split System (Toshiba)



Tradewinds's AR-051 explosion-safe air conditioners are based on the Toshiba RAV range of air conditioners and are made to safely ensure a good climate in an area where a release of gas, vapor or mist could possibly cause an explosive atmosphere (Zone 2).

The units are widely used in office spaces, offshore temporary living quarters, crane cabins and at the storage of chemicals and flammable substances.

Depending on the required power, a wall-mounted or ceiling-mounted indoor unit can be selected. Duct or cassette model indoor units can also be supplied.

The AR-051 air conditioners are explosion-safe and certified in accordance with European directive 2014/34/EU (ATEX 114) and are CE marked.

The systems can consist of a combination of explosion-safe and non-explosion-safe units, depending on the zoning of the area where the units are placed.

During the conversion of the units to explosion-safe, the greatest possible attention is given to the maintainability and ease with which the units can be installed. The functionality remains completely intact.

To extend the service life under severe coastal and offshore conditions, the aluminium fins of the condenser and the copper tubing can be provided with a protective coating.



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### Features

- Based upon the Toshiba RAV range of air conditioning systems
- ATEX certified
- Explosion-safe for gasses and vapours, suitable for use in Zone 2
- From 2,5 up to 14 kW, cooling and heating (heat pump function)
- Ambient temperatures from -27 °C up to +52 °C
- Industrial, compact and corrosion resistant executions
- Optional coating of the condenser fins and copper tubing
- Any combination of explosion-safe and non-explosion safe parts can be made

### Technical properties

Explosion safety (outdoor unit): II 3 G Ex ec h ic mc IIB+H2 T3 Gc

Explosion safety (indoor unit): II 3 G Ex ec h ic IIB+H2 T4 Gc

Explosion safety (remote control): II 3 G Ex ic IIC T6 Gc

European directives: 2014/34/EU (ATEX 114), 2014/30/EU (EMC) and 2009/125/EC (Eco Design)

Applied standards: EN 14986:2017, EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-11:2012, EN 60079-18:2015 / A1:2017, EN 80079-36:2016 and EN 80079-37:2016

Certification: EU Declaration of Conformity / Unit Assessment Certificate

Power supply: 220 - 240 VAC / 380 - 415 VAC

Mains frequency: 50 / 60 Hz (model dependent)

Ambient temperature: -27 °C to +52 °C

Please contact us for more information or a detailed quotation for your specific application.  
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