

Explosion-safe rooftop air conditioners AR-053 for containers, vehicles and crane cabins



Features

- ATEX certified
- CE marked
- Suitable for environments in which gas or vapor is present, classified as zone 2
- Cooling only, heating as an option
- Very compact and easy to install
- Refrigerant R407C / R410A
- Extremely robust, very reliable



II 3 G Ex ic nA mc h IIC T3 Gc



Description

ARTIDOR's explosion-safe rooftop air conditioners are made to safely provide a pleasant climate in an area that can contain an explosive atmosphere as a result of released gas.

The rooftop air conditioners only take up little space. The control knobs for ventilating, cooling or heating and the air thermostat are built-in in the low ceiling panel. No connections need to be made to the cooling system to install the compact rooftop air conditioner and therefore there is no need to call in a specialized refrigeration technician.

The circuits to the operation knobs and thermostat are intrinsically safe and the connection between the rooftop unit and the ceiling plate is made by means of connectors. Installation of the unit is therefore fast and efficient.

Additional connection terminals for the connection of an electric (ATEX) heater can be provided upon request.

The ARTIDOR rooftop air conditioners are explosion-safe and certified in accordance with the European Directive 2014/34/EU (ATEX 114) and have a CE mark. The air conditioners meet the requirements for product category 3 G, making them suitable for use in an area classified as Zone 2.



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Technical data

Explosion safety:	ATEX II 3 G Ex ic nA mc h IIC T3 Gc
European directives:	2014/34/EU (ATEX) and 2014/30/EU (EMC)
Applied standards:	EN 60079-0:2012 / A11:2013, EN 60079-11:2012, EN 60079-15:2010, EN 60079-18:2015, EN 80079-36:2016 and 80079-37:2016
Certificate:	EU Declaration of Conformity / Unit Assessment Certificate
Ambient temperature:	0 °C to +45 °C
Cooling capacity:	3,95 kW (13.500 BTU/h)
Ventilation modes:	2
Air flow:	540 m³/h max.
Refrigerant:	R407C (AR-053/050: R410A)
Connection:	Fixed cable, 3 x 2,5 mm², 5 meter
Dimensions (L x W x H):	Rooftop unit: 965 x 670 x 350 mm, ceiling plate: 510 x 510 x 56 mm
	Roof opening: 360 x 360 mm, roof thickness: < 150 mm

Fan and blower share a single shaft and the motor is mounted directly to the bulkhead; this prevents any distortion of the angle, misalignment and vibrations.

The big blower wheel diameter and broad width contribute to a high air flow of 500 m³/h.



The 250 Watt fan / blower motor is the largest in the industry and has more than sufficient power to provide plenty of cooled air.

The motor features a sealed shaft to protect it against damage from the elements.

Dependent on the type, all copper tubing and heat exchanger fins are provided with a special coating to increase the corrosion resistance.

Order codes

Type number	Description	Supply voltage	Fuse rating	Electrical power	Weight
AR-053/010	Industrial type	115 VAC, 60 Hz	20 A	2,0 kW	43 Kg
AR-053/020	Industrial type	230 VAC, 50 Hz	16 A	2,1 kW	43 Kg
AR-053/030	Shock and vibration resistant type	115 VAC, 60 Hz	20 A	2,0 kW	45 Kg
AR-053/040	Shock and vibration resistant type	230 VAC, 50 Hz	16 A	2,1 kW	45 Kg
AR-053/050	Corrosion, shock and vibration resistant type	115 VAC, 60 Hz	20 A	2,0 kW	45 Kg
AR-053/060	Corrosion, shock and vibration resistant type	230 VAC, 50 Hz	16 A	2,1 kW	45 Kg

Options

Type number	Description
AR-053/990	Electric terminals for the connection of an electric (ATEX) heater, 20 A max.