

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
- Relay output for control of an electric ATEX heater
- Very compact and easy to install
- Refrigerant R407C / R410A
- Extremely robust, very reliable



II 3 G Ex ec h ic mc 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.

The rooftop air conditioner is provided with connection terminals for the connection of an electric (ATEX) heater.

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, suitable for use in a hazardous area classified as Zone 2 (gas).



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Technical data

Explosion safety:	II 3 G Ex ec h ic mc IIC T3 Gc
European directives:	2014/34/EU (ATEX) and 2014/30/EU (EMC)
Applied 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 and EN 80079-37:2016
Certificate:	EU Declaration of Conformity / Unit Assessment Certificate
Ambient temperature:	0 °C to +52 °C
Cooling capacities:	3,1 kW (10.500 BTU/h) and 4,4 kW (15.000 BTU/h)
Ingress protection:	IP56 for all parts, including fan motors
Resistance:	Shock and vibration resistant design
Ventilation modes:	2
Air flow:	510 m ³ /h max.
Power connection:	Factory mounted H07RN-F cable, 3 x 2,5 mm ² , length 5 meter
Refrigerant:	R407C / R410A
Dimensions (L x W x H):	Rooftop unit: 1.044 x 724 x 240 mm, ceiling plate: 562 x 532 x 56 mm
	Roof opening: 360 x 360 mm, roof thickness: 150 mm max.

Order codes

Type number	Cooling capacity	Supply voltage	Electrical power	Weight	Refrigerant
AR-053/130	4,4 kW / 15.000 BTH/h	115 VAC, 60 Hz	2,0 kW	42 Kg	R410A
AR-053/140	3,1 kW / 10.500 BTU/h	230 VAC, 50 Hz	1,6 kW	47 Kg	R407C
AR-053/150 *	4,4 kW / 15.000 BTH/h	115 VAC, 60 Hz	2,0 kW	42 Kg	R410A
AR-053/160 *	3,1 kW / 10.500 BTU/h	230 VAC, 50 Hz	1,6 kW	47 Kg	R407C

* Models AR-053/150 and AR-053/160 are provided with additional coating of the aluminum condenser and evaporator fins and copper tubing.