

# Explosion-safe air conditioners AR-052

## Split systems based on Daikin

### Features

- Based on Daikin systems
- ATEX certified
- Suitable for use in Zone 2
- From 2,0 to 13,4 kW, cooling and heating
- Ambient temperatures from -20 °C up to +52 °C
- Industrial and compact models available
- Additional protective coating possible
- Combination of explosion-safe and standard non-explosion-safe parts possible



II 3 G Ex ec h ic mc IIC T3 Gc

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### Description

Artidor's explosion-safe AR-052 air conditioners 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 on request. Multi-split versions are also among the extensive options.

The Artidor 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.

For placement in a corrosive environment, the units can be provided with an additional protective coating.

In addition to Daikin's systems, we can also convert systems from other manufacturers to explosion-safe. Ask for the possibilities.

Please contact our sales team ([sales@artidor.com](mailto:sales@artidor.com)) for a quote including all technical details, actual prices and delivery times.

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### Industrial use, high and low temperatures, long pipes

The industrial units have been designed for 24/7 operation, which, for instance, may be the case in process areas, laboratories and measuring rooms. The systems are provided with a stronger compressor, are energy efficient and very reliable.

- Based upon the Daikin RZAG range of outdoor units, FTXM and FAA wall mounted indoor units and FHA ceiling mounted indoor units
- Power supply 230 / 400 VAC, 50 Hz
- Pipe lengths of up to 50 meters for models up to 7 kW and up to 85 meter for the systems with higher capacities
- Cooling and heating from an ambient temperature of -20 °C, cooling up to +52 °C
- Wall-mounted units up to 7 kW provided with an infra-red remote control, 10 kW wall-mounted models or ceiling-mounted units with fixed, wired remote control
- Refrigerant R32

Type number	Capacity Cooling [kW]	Capacity Heating [kW]	Supply Voltage [V AC]	Fuse rating [A]	Electrical Power [kW]	Air flow [m <sup>3</sup> / hour]	Model
AR-052/0311	3,5	4,0	230	16	1,04	276 / 756	Wall
AR-052/0312	3,5	4,0	230	16	0,98	600 / 840	Ceiling
AR-052/0511	5,0	6,0	230	16	1,50	618 / 1.026	Wall
AR-052/0512	5,0	5,8	230	16	1,56	600 / 900	Ceiling
AR-052/0611	6,0	7,0	230	20	1,94	546 / 1.062	Wall
AR-052/0612	6,0	7,0	230	20	2,06	690 / 1.170	Ceiling
AR-052/0711	6,8	7,5	230	20	2,19	840 / 1.080	Wall
AR-052/0712	6,8	7,5	230	20	2,07	840 / 1.230	Ceiling
AR-052/0721	6,8	7,5	400	3 x 16	2,19	840 / 1.080	Wall
AR-052/0722	6,8	7,5	400	3 x 16	2,07	840 / 1.230	Ceiling
AR-052/1011	9,5	10,8	230	32	3,45	1.140 / 1.560	Wall
AR-052/1012	9,5	10,8	400	3 x 16	2,58	1.200 / 1.680	Ceiling
AR-052/1021	9,5	10,8	400	3 x 16	3,45	1.140 / 1.560	Wall
AR-052/1022	9,5	10,8	400	3 x 16	2,58	1.200 / 1.680	Ceiling
AR-052/1212	12,0	13,5	230	32	4,21	1.380 / 1.860	Ceiling
AR-052/1222	12,0	13,5	400	3 x 16	4,21	1.380 / 1.860	Ceiling
AR-052/1412	13,4	15,5	230	32	4,49	1.440 / 2.040	Ceiling
AR-052/1422	13,4	15,5	400	3 x 16	4,49	1.440 / 2.040	Ceiling

### Options

- Fixed remote control on wall-mounted units
- Additional coating of the aluminum fins, copper tubing and sheet steel plating
- Explosion-safe work switch.

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### Industrial use, compact design

The compact industrial units have been designed for 24/7 operation and are eminently suitable for application in mobile installations, container applications and crane cabins.

- Based upon the Daikin RXM range for the outdoor units up to 7 kW and the RZASG range for the units with a higher capacity
- Based upon the Daikin FTXM and FAA wall-mounted indoor units and the FHA ceiling-mounted indoor units
- Power supply of 230 / 400 VAC, 50 Hz
- Pipe lengths of up to 30 meters for models up to 7 kW and up to 50 meter for the systems with higher capacities
- Cooling starting at an outside temperature of -10 °C for all models up to 7 kW and starting at -15 °C for all other models
- Cooling up to +50 °C ambient temperature for the units up to 6 kW and up to +46 °C for all other models
- Wall-mounted units up to 7 kW provided with infra-red remote control, 10 kW wall-mounted models and ceiling-mounted units are provided with a fixed, wired remote control
- Refrigerant R32

Type number	Capacity Cooling [kW]	Capacity Heating [kW]	Supply Voltage [V AC]	Fuse rating [A]	Electrical Power [kW]	Air flow [m³ / hour]	Model
AR-052/0111 C	2,0	2,5	230	10	0,50	264 / 666	Wall
AR-052/0211 C	2,5	2,8	230	10	0,56	264 / 666	Wall
AR-052/0311 C	3,4	4,0	230	10	0,99	276 / 756	Wall
AR-052/0312 C	3,4	4,0	230	16	0,98	600 / 840	Ceiling
AR-052/0411 C	4,2	5,4	230	10	1,31	276 / 780	Wall
AR-052/0511 C	5,0	5,8	230	16	1,45	486 / 1.026	Wall
AR-052/0512 C	5,0	6,0	230	16	1,79	600 / 900	Ceiling
AR-052/0611 C	6,0	7,0	230	16	1,94	546 / 1.104	Wall
AR-052/0612 C	5,7	7,2	230	16	2,17	690 / 1.170	Ceiling
AR-052/0711 C	7,1	8,2	230	20	2,57	606 / 1.104	Wall
AR-052/0712 C	6,8	7,5	230	20	2,00	840 / 1.230	Ceiling
AR-052/1011 C	9,5	10,8	230	25	3,98	1.140 / 1.560	Wall
AR-052/1012 C	9,5	10,8	230	25	3,43	1.200 / 1.680	Ceiling
AR-052/1021 C	9,5	10,8	400	3 x 16	3,98	1.140 / 1.560	Wall
AR-052/1022 C	9,5	10,8	400	3 x 16	3,43	1.200 / 1.680	Ceiling
AR-052/1212 C	12,1	13,4	230	32	4,79	1.380 / 1.860	Ceiling
AR-052/1222 C	12,1	13,4	400	3 x 16	4,79	1.380 / 1.860	Ceiling
AR-052/1412 C	13,4	15,5	230	32	5,59	1.440 / 2.040	Ceiling
AR-052/1422 C	13,4	15,5	400	3 x 16	5,59	1.440 / 2.040	Ceiling

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### Options

- Fixed remote control on wall-mounted units up to 7 kW
- Additional coating of the aluminum fins, copper tubing and sheet steel plating
- Explosion-safe work switch.