

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, compact and light industrial 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 IIB+H2 T3 Gc
II 3 G Ex ec h ic IIB+H2 T4 Gc



Description

Artidor's explosion-safe AR-052 air conditioners are made to safely ensure a comfortable 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.

With regards to the indoor unit, depending on the required power and the specific application, there is a choice of wall- and ceiling-mounted, cassette or ducted models.

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 production of the units, 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 aluminum fins of the condenser and the copper tubing can be provided with a protective coating.

In addition to the Daikin-based systems, we also supply explosion-proof air conditioners built on the basis of Toshiba and Mitsubishi Heavy units.

Please contact our sales team (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 and for the indoor units based on the FTXM range for wall mounting, on the FHA range for ceiling mounting, on the FBA range for ducted mounting and FCAG for cassette mounting;
- Pipe lengths of up to 55 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, 10kW wall mounted models and all other units come with a fixed wired remote control;
- Refrigerant R32.

Type number	Capacity Cooling [kW]	Capacity Heating [kW]	Supply Voltage [V AC]	Frequency [Hz]	Fuse rating [A]	Electrical Power [kW]	Air flow [m³ / hour]	Model
AR-052/0311	3,5	4,0	230	50	16	1,04	276 / 792	Wall
AR-052/0312	3,5	4,0	230	50	16	0,98	600 / 840	Ceiling
AR-052/0313	3,5	4,0	230	50	16	0,91	630 / 900	Ducted
AR-052/0314	3,5	4,0	230	50	16	0,93	528 / 846	Cassette
AR-052/0511	5,0	6,0	230	50	16	1,50	354 / 870	Wall
AR-052/0512	5,0	5,8	230	50	16	1,56	600 / 900	Ceiling
AR-052/0513	5,0	5,8	230	50	16	1,58	630 / 900	Ducted
AR-052/0514	5,0	5,8	230	50	16	1,56	564 / 876	Cassette
AR-052/0611	6,0	7,0	230	50	20	1,94	546 / 1.062	Wall
AR-052/0612	6,0	7,0	230	50	20	2,06	690 / 1.170	Ceiling
AR-052/0613	6,0	7,0	230	50	20	2,06	750 / 1.080	Ducted
AR-052/0614	6,0	7,0	230	50	20	2,06	576 / 894	Cassette
AR-052/0711	6,8	7,5	230	50	20	2,19	840 / 1.080	Wall
AR-052/0712	6,8	7,5	230	50	20	2,07	840 / 1.230	Ceiling
AR-052/0713	6,8	7,5	230	50	20	2,10	750 / 1.080	Ducted
AR-052/0714	6,8	7,5	230	50	20	2,29	648 / 906	Cassette
AR-052/0721	6,8	7,5	400	50	3 x 16	2,19	840 / 1.080	Wall
AR-052/0722	6,8	7,5	400	50	3 x 16	2,07	840 / 1.230	Ceiling
AR-052/0723	6,8	7,5	400	50	3 x 16	2,10	750 / 1.080	Ducted
AR-052/0724	6,8	7,5	400	50	3 x 16	2,29	648 / 906	Cassette

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Industrial use, high and low temperatures, long pipes - continued

Type number	Capacity Cooling [kW]	Capacity Heating [kW]	Supply Voltage [V AC]	Frequency [Hz]	Fuse rating [A]	Electrical Power [kW]	Air flow [m³ / hour]	Model
AR-052/1011	9,5	10,8	230	50	32	3,45	1.140 / 1.560	Wall
AR-052/1012	9,5	10,8	230	50	32	2,58	1.200 / 1.680	Ceiling
AR-052/1013	9,5	10,8	230	50	32	2,78	1.380 / 1.740	Ducted
AR-052/1014	9,5	10,8	230	50	32	2,72	780 / 1.380	Cassette
AR-052/1021	9,5	10,8	400	50	3 x 16	3,45	1.140 / 1.560	Wall
AR-052/1022	9,5	10,8	400	50	3 x 16	2,58	1.200 / 1.680	Ceiling
AR-052/1023	9,5	10,8	400	50	3 x 16	2,78	1.380 / 1.740	Ducted
AR-052/1024	9,5	10,8	400	50	3 x 16	2,72	780 / 1.380	Cassette
AR-052/1222	12,1	13,5	400	50	3 x 16	4,21	1.380 / 1.860	Ceiling
AR-052/1223	12,1	13,5	400	50	3 x 16	3,75	1.410 / 2.040	Ducted
AR-052/1224	12,1	13,5	400	50	3 x 16	5,73	780 / 1.632	Cassette
AR-052/1422	13,4	15,5	400	50	3 x 16	4,49	1.440 / 2.040	Ceiling
AR-052/1423	13,4	15,5	400	50	3 x 16	5,04	1.410 / 2.040	Ducted
AR-052/1424	13,4	15,5	400	50	3 x 16	5,83	780 / 1.632	Cassette

Options

- Fixed wired remote control on wall-mounted models as a replacement for the standard infrared remote control;
- Additional coating of aluminum fins, copper piping and sheet metal with Blygold PoluaIXT coating;
- 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 upon the RZASG range for the units with a higher capacity;
- Based on the range of Daikin FTXM and FAA indoor units for wall mounting, on the FHA range including ceiling-mounted indoor units, on the FBA range for duct mounting and FCA for cassette mounting;
- 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, 10kW wall mounted models and all other units come with a fixed wired remote control;
- Refrigerant R32.

Type number	Capacity Cooling [kW]	Capacity Heating [kW]	Supply Voltage [V AC]	Frequency [Hz]	Fuse rating [A]	Electrical Power [kW]	Air flow [m³ / hour]	Model
AR-052/0111 C	2,0	2,5	230	50	10	0,50	294 / 714	Wall
AR-052/0211 C	2,5	2,8	230	50	13	0,56	294 / 714	Wall
AR-052/0311 C	3,4	4,0	230	50	13	0,88	276 / 792	Wall
AR-052/0312 C	3,4	4,0	230	50	16	0,98	600 / 840	Ceiling
AR-052/0313 C	3,4	4,0	230	50	16	1,00	630 / 900	Ducted
AR-052/0314 C	3,5	4,2	230	50	16	1,11	528 / 846	Cassette
AR-052/0411 C	4,2	5,4	230	50	16	1,29	300 / 840	Wall
AR-052/0511 C	5,0	5,8	230	50	16	1,40	354 / 870	Wall
AR-052/0512 C	5,0	6,0	230	50	16	1,79	600 / 900	Ceiling
AR-052/0513 C	5,0	5,5	230	50	16	1,44	630 / 900	Ducted
AR-052/0514 C	5,0	6,0	230	50	16	1,62	564 / 876	Cassette
AR-052/0611 C	6,0	7,0	230	50	16	1,94	546 / 1.002	Wall
AR-052/0612 C	5,7	7,2	230	50	16	2,17	690 / 1.170	Ceiling
AR-052/0613 C	5,7	7,0	230	50	16	1,89	750 / 1.080	Ducted
AR-052/0614 C	5,7	7,0	230	50	16	2,07	576 / 894	Cassette
AR-052/0711 C	7,1	8,2	230	50	20	2,57	600 / 1.014	Wall
AR-052/0712 C	6,8	7,5	230	50	20	2,00	840 / 1.230	Ceiling
AR-052/0713 C	5,7	7,0	230	50	20	2,09	750 / 1.080	Ducted
AR-052/0714 C	6,8	7,5	230	50	20	2,38	648 / 906	Cassette

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Industrial use, compact design – continued

Type number	Capacity Cooling [kW]	Capacity Heating [kW]	Supply Voltage [V AC]	Frequency [Hz]	Fuse rating [A]	Electrical Power [kW]	Air flow [m³ / hour]	Model
AR-052/1011 C	9,5	10,8	230	50	25	3,98	1.140 / 1.560	Wall
AR-052/1012 C	9,5	10,8	230	50	25	3,43	1.200 / 1.680	Ceiling
AR-052/1013 C	9,5	10,8	230	50	25	3,32	1.380 / 1.740	Ducted
AR-052/1014 C	9,5	10,8	230	50	25	3,45	780 / 1.380	Cassette
AR-052/1021 C	9,5	10,8	400	50	3 x 16	3,98	1.140 / 1.560	Wall
AR-052/1022 C	9,5	10,8	400	50	3 x 16	3,43	1.200 / 1.680	Ceiling
AR-052/1023 C	9,5	10,8	400	50	3 x 16	3,32	1.380 / 1.740	Ducted
AR-052/1024 C	9,5	10,8	400	50	3 x 16	3,45	780 / 1.380	Cassette
AR-052/1222 C	12,1	13,5	400	50	3 x 16	4,79	1.380 / 1.860	Ceiling
AR-052/1223 C	12,1	13,5	400	50	3 x 16	4,84	1.410 / 2.040	Ducted
AR-052/1224 C	12,1	13,5	400	50	3 x 16	4,95	780 / 1.632	Cassette
AR-052/1422 C	13,4	15,5	400	50	3 x 16	5,59	1.440 / 2.040	Ceiling
AR-052/1423 C	13,4	15,5	400	50	3 x 16	5,13	1.410 / 2.040	Ducted
AR-052/1424 C	13,4	15,5	400	50	3 x 16	5,01	780 / 1.632	Cassette

Options

- Fixed wired remote control on wall-mounted models as a replacement for the standard infrared remote control;
- Additional coating of aluminum fins, copper piping and sheet metal with Blygold PolualXT coating;
- Explosion-safe work switch.

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Light industrial use

- Based on Daikin FTXP model series for indoor units and RXP model series for outdoor units;
- Cooling from an outdoor temperature of -10°C to +46°C and heating from -15°C;
- Cooling up to +50 °C ambient temperature for the units up to 6 kW and up to +46 °C for all other models
- Provided with infra-red remote control;
- Refrigerant R32.

Type number	Capacity Cooling [kW]	Capacity Heating [kW]	Supply Voltage [V AC]	Frequency [Hz]	Fuse rating [A]	Electrical Power [kW]	Air flow [m ³ / hour]	Model
AR-051/0111 L	2,0	2,5	230	50	16	0,52	252 / 570	Wall
AR-051/0211 L	2,5	3,0	230	50	16	0,69	252 / 582	Wall
AR-051/0311 L	3,5	4,0	230	50	16	1,01	270 / 690	Wall
AR-051/0511 L	5,0	6,0	230	50	16	1,58	498 / 978	Wall
AR-051/0611 L	6,0	7,0	230	50	16	1,93	552 / 1.008	Wall
AR-051/0711 L	7,1	8,2	230	50	16	2,69	606 / 1.008	Wall

Options

- Fixed wired remote control on wall-mounted models as a replacement for the standard infrared remote control;
- Additional coating of aluminum fins, copper piping and sheet metal with Blygold PolualXT coating;
- Explosion-safe work switch.