

Explosion-safe air conditioners AR-058

Split systems based on Mitsubishi Heavy



Features

- Based on Mitsubishi Heavy air conditioning systems
- ATEX certified
- Suitable for use in Zone 2
- From 2,0 to 13,6 kW, cooling and heating
- Ambient temperatures from -20 °C up to +50 °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 IIB+H2 T3 Gc
II 3 G Ex ec h ic IIB+H2 T4 Gc



Description

Artidor's explosion-safe air conditioners are made to safely ensure a pleasant climate in an area where a release of gas, vapor or mist could 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 production of the explosion-safe units, the greatest possible attention is paid 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 Mitsubishi Heavy based systems, we can also supply explosion-proof air conditioners built on the basis of Toshiba and Daikin.

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 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 extremely reliable.

- Based upon the Mitsubishi Heavy FDC range of outdoor units. The indoor units are based upon the SRK wall-mounted units, FDE under ceiling units, FDUM ducted units and FDT cassette units;
- Pipe lengths up to 50 meters feasible;
- Cooling at an outside temperature of -15 °C up to +50 °C and heating from -20 °C up to +20 °C;
- All wall-mounted indoor units are provided with an infra-red remote control, all other models are provided with a 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 [m ³ / hour]	Model
AR-058/0711	7,1	8,0	230	50	16	1,93	624 / 1.500	Wall
AR-058/0712	7,1	8,0	230	50	16	1,87	600 / 1.200	Ceiling
AR-058/1011	10,0	11,2	230	50	25	3,19	624 / 1.650	Wall
AR-058/1012	10,0	11,2	230	50	25	2,85	990 / 1.920	Ceiling
AR-058/1013	10,0	11,2	230	50	25	2,99	1.140 / 2.160	Duct
AR-058/1014	10,0	11,2	230	50	25	2,73	1.020 / 2.220	Cassette
AR-058/1021	10,0	11,2	400	50	16	3,19	624 / 1.650	Wall
AR-058/1022	10,0	11,2	400	50	16	2,85	990 / 1.920	Ceiling
AR-058/1023	10,0	11,2	400	50	16	2,99	1.140 / 2.160	Duct
AR-058/1024	10,0	11,2	400	50	16	2,73	1.020 / 2.220	Cassette
AR-058/1212	12,5	14,0	230	50	25	4,45	1.020 / 1.920	Ceiling
AR-058/1213	12,5	14,0	230	50	25	4,36	1.200 / 2.340	Duct
AR-058/1214	12,5	14,0	230	50	25	4,05	1.080 / 2.280	Cassette
AR-058/1222	12,5	14,0	400	50	16	4,45	1.020 / 1.920	Ceiling
AR-058/1223	12,5	14,0	400	50	16	4,36	1.200 / 2.340	Duct
AR-058/1224	12,5	14,0	400	50	16	4,05	1.080 / 2.280	Cassette
AR-058/1412	13,6	15,5	230	50	25	5,05	1.080 / 2.040	Ceiling
AR-058/1413	13,6	15,5	230	50	25	5,13	1.320 / 2.880	Duct
AR-058/1414	13,6	15,5	230	50	25	4,79	1.140 / 2.280	Cassette
AR-058/1422	13,6	15,5	400	50	16	5,05	1.080 / 2.040	Ceiling
AR-058/1423	13,6	15,5	400	50	16	5,13	1.320 / 2.880	Duct
AR-058/1424	13,6	15,5	400	50	16	4,79	1.140 / 2.280	Cassette

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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 Mitsubishi Heavy SRC range of outdoor units. The indoor units are based upon the SRK wall-mounted units, FDE under ceiling units, SRR and FDUM ducted units and FDTC / FDT cassette units;
- Pipe lengths up to 20 meter for models up to 3,5 kW and up to 30 meter for the systems with a higher capacity;
- Cooling at outside temperatures from -15 °C up to +46 °C and heating starting at -20 °C;
- All wall-mounted indoor units are provided with an infra-red remote control, all other models are provided with a 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 [m ³ / hour]	Model
AR-058/0111 C	2,0	2,7	230	50	16	0,59	300 / 600	Wall
AR-058/0211 C	2,5	3,2	230	50	16	0,74	300 / 678	Wall
AR-058/0213 C	2,5	2,9	230	50	16	0,65	270 / 600	Duct
AR-058/0214 C	2,5	2,9	230	50	16	0,61	360 / 570	Cassette
AR-058/0311 C	3,5	4,0	230	50	16	0,94	300 / 738	Wall
AR-058/0313 C	3,5	4,2	230	50	16	1,01	300 / 630	Duct
AR-058/0314 C	3,5	4,3	230	50	16	1,15	390 / 600	Cassette
AR-058/0412 C	4,0	4,5	230	50	16	1,10	420 / 780	Ceiling
AR-058/0413 C	4,0	4,5	230	50	16	1,10	480 / 780	Duct
AR-058/0414 C	5,0	4,5	230	50	16	1,13	420 / 780	Cassette
AR-058/0511 C	5,0	5,8	230	50	16	1,56	354 / 834	Wall
AR-058/0512 C	5,0	5,4	230	50	16	1,46	420 / 780	Ceiling
AR-058/0513 C	5,0	5,4	230	50	16	1,59	480 / 780	Duct
AR-058/0514 C	5,0	5,4	230	50	16	1,53	420 / 780	Cassette
AR-058/0611 C	6,1	6,8	230	50	16	1,64	624 / 1.350	Wall
AR-058/0612 C	5,6	6,7	230	50	16	1,86	600 / 1.200	Ceiling
AR-058/0613 C	5,6	6,7	230	50	16	1,75	600 / 1.200	Duct
AR-058/0614 C	5,6	6,7	230	50	16	2,14	480 / 840	Cassette
AR-058/0711 C	7,1	8,0	230	50	16	1,95	624 / 1.500	Wall
AR-058/0713 C	7,1	8,0	230	50	16	1,78	600 / 1.440	Duct
AR-058/0714 C	7,1	8,0	230	50	16	1,75	720 / 1.680	Cassette
AR-058/0811 C	8,0	9,0	230	50	20	2,27	624 / 1.590	Wall

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Options

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