

ARIES G

R454B

Air cooled water chillers featuring hermetic scroll compressors.

Nominal cooling capacity 159 - 858 kW



High efficiency, low GWP.

The air-cooled water chillers ARIES G are designed to meet the current and future needs of process cooling applications and commercial air conditioning systems.

The huge versatility and reliability combined with an extended operating limits makes it suitable for every type of process. Developed to satisfy the seasonal efficiency performances required by the ERP EcoDesign Regulation, minimizing the environmental impact through the low GWP refrigerant R454B.

The ARIES G range is the example of targeted design, essential to obtain a reduced management costs without excluding reliability and environment protection.



Benefits

- Low GWP refrigerant R454B (GWP 466);
- Seasonal efficiency compliant with the parameters required by the ErP regulation for SEER (Tier 2 01/01/2021);
- Acoustic configurations SHE and SSN with reduced sound levels;
- Extended working limits for starting up and operating even in the worst conditions;
- Wide choice of options and kits for easy installation;
- Easy access to all internal components;
- Advanced electronic control with web server integrated.

Options

- MWT version (down to -10 °C outlet water temperature);
- Low ambient temperature option (down to -20 °C);
- Stainless steel shell & tube evaporator;
- Single or twin water pump with low or medium head pressure;
- Water accumulation tank;
- Anti-freeze protection heaters for heat exchangers, pump/s and water accumulation tank (if included);
- IN/OUT compressors valves;
- Soundproof jacket or housing for compressors (for HE configuration);
- High efficiency EC brushless fans (base option for sizes 065-160, for SSN and MWT versions);
- Total heat recovery;
- Protection coating for condenser coils, suitable for installation in aggressive environments;
- Microchannels condenser coils;
- Metallic mesh filters for condenser coils protection;
- Soft starters to reduce by 20% the unit's starting current.

Standard Features

- Refrigerant R454B;
- 4, 6 or 9 hermetic scroll compressors always connected in tandem or trio in two or three refrigerant circuits;
- Crankcase heater compressor and phase-monitor;
- Shell & tube evaporator;
- "Victaulic" hydraulic connections kit (supplied for each unit);
- Electronic expansion valve;
- Axial fans complete with protective grids and die-cast aluminium airfoil blade profiles;
- Electrical cabinet protection rating IP54;
- Refrigerant and oil charge;
- Tests and checks performed on factory;
- Electronic microprocessor controller with touch screen user display;
- Modbus RS485 serial output for connections to supervision systems;
- Master/slave configuration manageable between 2 units.

Kits

- Antivibration mountings;
- Replicated remote user display;
- Supervision system xWEB3000 PRO;
- Modularity kit (master/slave configuration from 3 to 7 units).

Acoustic configurations

- HE - Basic acoustic configuration;
- SHE - Low noise acoustic configuration;
- SSN - Very low noise acoustic configuration.

Models ASG2	Versions	065			075			090			105			115			140		
		HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN
Nominal cooling capacity (1) ▼	kW	159,10	153,60	146,70	180,40	172,00	165,70	212,50	201,90	190,20	256,60	245,80	237,40	288,20	273,70	263,40	339,70	320,30	305,90
EER (1) ▼	-	2,60	2,48	2,27	2,76	2,58	2,42	2,61	2,39	2,15	2,84	2,70	2,56	2,75	2,55	2,39	2,66	2,41	2,22
SEER (2) ▼	-	4,10	4,27	4,15	4,22	4,29	4,37	4,15	4,11	4,25	4,23	4,44	4,64	4,16	4,27	4,38	4,18	4,11	4,30
SEPR HT (2) ▼	-	5,02	5,15	5,02	5,31	5,22	5,24	5,22	5,05	5,41	5,01	5,37	5,47	5,29	5,19	5,50	5,28	5,01	5,48
SEPR MT (3)	-	3,31	-	-	3,43	-	-	3,45	-	-	3,49	-	-	3,44	-	-	3,44	-	-
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50																	
Circuits / Compressors	N°	2/4																	
Sound Power (4) ▼	dB(A)	91	84	79	93	85	81	94	87	81	95	88	81	96	89	83	96	89	81
Lenght	mm	3091			3091			3091			3439			3439			3465		
Width	mm	2191			2191			2191			2191			2191			2191		
Height	mm	2424			2424			2424			2424			2424			2424		
Operating weight (5)	kg	1779			1875			1972			2474			2566			2875		

Models ASG2	Versions	150			160			170			190			210			240		
		HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN
Nominal cooling capacity (1) ▼	kW	372,70	354,70	342,00	397,70	376,30	362,20	433,00	414,10	400,70	479,00	455,10	438,20	527,70	504,00	487,20	582,20	551,90	531,60
EER (1) ▼	-	2,84	2,66	2,50	2,83	2,60	2,43	2,87	2,72	2,58	2,77	2,57	2,41	2,86	2,70	2,57	2,82	2,61	2,46
SEER (2) ▼	-	4,54	4,32	4,32	4,58	4,59	4,79	4,86	4,70	4,75	4,73	4,58	4,66	4,85	4,68	4,70	4,83	4,63	4,68
SEPR HT (2) ▼	-	5,67	5,37	5,60	5,41	5,16	5,61	5,82	5,60	5,75	5,73	5,51	5,76	5,90	5,63	5,78	5,90	5,59	5,79
SEPR MT (3)	-	3,46	-	-	3,54	-	-	3,53	-	-	3,5	-	-	3,6	-	-	3,61	-	-
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50																	
Circuits / Compressors	N°	2/4			2/6			2/6			2/6			2/6			2/6		
Sound Power (4) ▼	dB(A)	97	90	82	95	88	82	96	88	83	97	89	83	98	91	84	100	92	84
Lenght	mm	4455			4455			5445			5445			6435			6435		
Width	mm	2191			2191			2191			2191			2191			2191		
Height	mm	2424			2424			2424			2424			2424			2424		
Operating weight (5)	kg	3420			3371			3934			4136			4861			4923		

Models ASG2	Versions	270 (*)			300 (*)			330 (*)			360 (*)		
		HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN
Nominal cooling capacity (1) ▼	kW	653,40	623,70	590,30	722,00	684,50	646,60	801,10	761,00	716,00	858,00	817,00	772,00
EER (1) ▼	-	2,78	2,60	2,33	2,81	2,55	2,26	2,74	2,53	2,26	2,72	2,54	2,28
SEER (2) ▼	-	4,83	4,66	4,56	4,88	4,64	4,57	4,82	4,64	4,62	4,85	4,69	4,58
SEPR HT (2) ▼	-	5,85	5,59	5,54	5,90	5,56	5,57	5,72	5,52	5,57	5,79	5,52	5,56
SEPR MT (3)	-	3,72	-	-	3,76	-	-	3,63	-	-	3,67	-	-
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50											
Circuits / Compressors	N°	2/6			2/6			3/9			3/9		
Sound Power (4) ▼	dB(A)	99	92	87	99,8	92,6	87,4	99,7	92,5	87,3	99,8	92,5	87,4
Lenght	mm	7425			7425			8415			9406		
Width	mm	2191			2191			2191			2191		
Height	mm	2513			2513			2513			2513		
Operating weight (5)	kg	5467			5667			6467			6667		

Data declared according to UNI EN 14511, and they refer to units without options which require an electrical FEED source and in nominal working conditions

- (1) Evaporator water inlet/outlet temperature 12/7 °C, external air temperature 35 °C;
- (2) Data declared in compliance with the European Regulation (EU) 2016/2281 with regard to ecodesign requirements for cooling products and high temperature process chillers;
- (3) Data declared in compliance with the European Regulation (EU) 2015/1095 with regard to ecodesign requirements for cooling products and medium temperature process chillers, and valid only for MWT version;
- (4) Sound power is determined on the basis of measurements taken in accordance with the standard ISO 3744.
- (5) Operating weight refers to the unit without options, and according to the chosen configuration the weights could vary up to +20%.

▼ Eurovent certified data.

(*) = excluded from Eurovent certification



MTA is ISO9001 certified, a sign of its commitment to complete customer satisfaction.



MTA products comply with European safety directives, as recognised by the CE symbol.



MTA participates in the E.C.C. programme for LCP-HP. Certified products are listed on: www.eurovent-certification.com
Eurovent Certification applied to the units:
- Air/Water up to 400 kW
- Water/Water up to 1500 kW

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