



ARIES G

Air cooled water chillers featuring hermetic scroll compressors with R454B.

Nominal cooling capacity 161 – 930 kW



Increasing the comfort, supporting the environment.

The air-cooled water chillers ARIES G are designed to meet the current and future needs of 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.



Cooling, conditioning, purifying.

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 SSN version);
- 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 xWEB300D 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.

ASG2 Model 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)	161	155	148	183	174	168	215	202	192	260	249	240	292	277	266	344	322	309
Total absorbed power (1)	62	62	65	66	67	69	82	86	90	91	92	94	106	108	112	129	135	139
EER (2)	2,60	2,49	2,27	2,77	2,59	2,42	2,62	2,36	2,14	2,86	2,72	2,57	2,76	2,56	2,38	2,67	2,38	2,22
SEER (3)	4,16	4,38	4,20	4,34	4,41	4,50	4,20	4,27	4,17	4,32	4,56	4,71	4,33	4,39	4,50	4,26	4,28	4,18
Power supply	V/Ph/Hz 400 ± 10% / 3-PE / 50																	
Circuits / Compressors	2/4			2/4			2/4			2/4			2/4			2/4		
Sound power level (4)	91,3	83,7	79,3	92,9	85,3	80,6	94,4	86,8	80,7	95,3	87,8	80,7	96,1	88,6	82,5	96,1	88,8	80,6
Sound pressure level (5)	63,3	55,7	51,3	64,9	57,3	52,6	66,4	58,8	52,7	67,3	59,8	52,7	68,1	60,6	54,5	68,1	60,8	52,6
Width	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191
Depth	3091	3091	3091	3091	3091	3091	3091	3091	3091	3439	3439	3439	3439	3439	3439	3465	3465	3465
Height	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424
Installed weight	1626			1820			1850			2240			2317			2590		

ASG2 Model 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)	378	359	346	417	394	379	455	434	420	503	477	459	554	529	510	611	578	557
Total absorbed power (1)	132	135	138	141	146	150	152	154	157	175	179	184	186	188	192	208	213	219
EER (2)	2,86	2,67	2,51	2,95	2,70	2,52	2,99	2,83	2,68	2,88	2,67	2,50	2,98	2,81	2,66	2,94	2,71	2,54
SEER (3)	4,41	4,37	4,48	4,89	4,88	5,10	4,64	4,76	5,06	4,61	4,68	4,90	4,77	4,78	5,04	4,79	4,75	4,98
Power supply	V/Ph/Hz 400 ± 10% / 3-PE / 50																	
Circuits / Compressors	2/4			2/6			2/6			2/6			2/6			2/6		
Sound power level (4)	97,1	89,8	81,9	94,8	87,5	81,8	95,6	88,2	82,8	96,8	89,4	82,8	98,1	90,8	83,7	99,5	92,2	83,7
Sound pressure level (5)	69,1	61,8	53,9	66,8	59,5	53,8	67,6	60,2	54,8	68,8	61,4	54,8	70,1	62,8	55,7	71,5	64,2	55,7
Width	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191
Depth	4455	4455	4455	4455	4455	4455	5445	5445	5445	5445	5445	5445	6435	6435	6435	6435	6435	6435
Height	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424
Installed weight	3180			3249			3788			3994			4617			4667		

ASG2 Model Versions	270			300			330			360		
	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN
Nominal cooling capacity (1)	708	675	638	783	741	698	868	821	773	930	884	834
Total absorbed power (1)	237	242	256	259	271	289	295	304	320	318	324	341
EER (2)	2,99	2,79	2,49	3,02	2,74	2,41	2,94	2,70	2,41	2,93	2,73	2,44
SEER (3)	4,84	4,95	5,06	4,94	5,03	5,04	4,88	4,91	4,93	4,92	5,03	5,01
Power supply	V/Ph/Hz 400 ± 10% / 3-PE / 50											
Circuits / Compressors	2/6			2/6			3/9			3/9		
Sound power level (4)	99,0	91,8	86,7	99,8	92,6	87,4	99,7	92,5	87,3	99,7	92,6	87,4
Sound pressure level (5)	71,0	63,8	58,7	71,8	64,6	59,4	71,7	64,5	59,3	71,7	64,6	59,4
Width	2191			2191			2191			2191		
Depth	7425			7425			8415			9405		
Height	2513			2513			2513			2513		
Installed weight	5467			5667			6467			6667		

Data declared according to UNI EN 14511:2018. All data refers to standard units without accessories/options which require an electrical feeding source and in nominal working conditions. The listed noise levels, weights and dimensions refer to base units with no options fitted.

- (1) Data referred to nominal conditions, external ambient temperature 35 °C and evaporator water temperature IN/OUT 12/7 °C;
- (2) Data referred to the full load functioning and nominal conditions, external ambient temperature 35 °C and evaporator water temperature IN/OUT 12/7 °C;
- (3) Data declared in compliance with the European Regulation (EU) 2016/2281 with regard to ecodesign requirements for cooling products (air conditioning application);
- (4) Determined on the basis of measurements taken in accordance with the standard ISO 3744;
- (5) Average value obtained in free field on a reflective surface at a distance of 10 m from the external side of the electrical panel of machine and at height of 1.6 m from the unit support base. Values with tolerance ± 2 dB. Sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump operating.



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-HR. Certified products are listed on: www.eurovent-certification.com Certification applied to the units:
- Air/Water up to 600 kW
- Water/Water up to 1500 kW



EAC Declaration

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