



# ARIES G

Air cooled water chillers featuring hermetic scroll compressors with R454B.

Nominal cooling capacity 228 – 1303 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. 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 SEPR HT (Tier 2 01/01/2021 - base version) and SEPR MT (Tier 2 02/07/2018 - low water temperature version, down to -10 °C);
- 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;
- "Vitaclac" 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.

Models ASG2		065			075			090			105			115			140		
Versions		HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN
Nominal cooling capacity (1)	kW	228	219	208	260	246	236	305	285	269	371	353	339	415	390	374	487	451	432
Total absorbed power (1)	kW	57	58	62	60	62	65	76	81	86	82	85	88	97	101	106	119	128	134
EER (2)		4,01	3,78	3,38	4,34	3,96	3,64	4,00	3,51	3,14	4,50	4,17	3,87	4,27	3,85	3,53	4,09	3,52	3,23
SEPR HT (3)		5,29	5,46	5,39	5,63	5,54	5,64	5,45	5,24	5,68	5,62	5,73	5,85	5,58	5,51	6,00	5,61	5,24	5,89
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50																	
Circuits / Compressors	N°	2/4			2/4			2/4			2/4			2/4			2/4		
Sound power level (4)	dB(A)	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)	dB(A)	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	mm	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191
Depth	mm	3091	3091	3091	3091	3091	3091	3091	3091	3091	3439	3439	3439	3439	3439	3439	3465	3465	3465
Height	mm	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424
Installed weight	kg	1626			1820			1850			2240			2317			2590		

Models ASG2		150			160			170			190			210			240		
Versions		HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN
Nominal cooling capacity (1)	kW	537	507	486	593	556	533	647	614	591	713	672	643	787	747	718	867	815	781
Total absorbed power (1)	kW	120	125	130	129	136	142	137	141	146	159	167	174	167	173	179	188	198	207
EER (2)		4,49	4,06	3,74	4,61	4,10	3,76	4,71	4,34	4,04	4,49	4,03	3,71	4,71	4,31	4,01	4,61	4,11	3,78
SEPR HT (3)		5,88	5,69	6,16	5,89	6,21	6,14	5,82	5,76	6,27	5,76	6,11	6,14	5,95	5,80	6,29	6,05	5,80	6,34
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 level (4)	dB(A)	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)	dB(A)	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	mm	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191
Depth	mm	4455	4455	4455	4455	4455	4455	5445	5445	5445	5445	5445	5445	6435	6435	6435	6435	6435	6435
Height	mm	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424	2424
Installed weight	kg	3180			3249			3788			3994			4617			4667		

Models ASG2		270			300			330			360		
Versions		HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN
Nominal cooling capacity (1)	kW	990	939	883	1093	1028	965	1216	1144	1071	1303	1232	1155
Total absorbed power (1)	kW	214	224	242	235	251	273	269	284	306	290	303	325
EER (2)		4,62	4,19	3,65	4,64	4,10	3,53	4,52	4,03	3,50	4,49	4,07	3,55
SEPR HT (3)		6,02	6,48	6,25	6,18	6,51	6,30	5,90	5,94	6,13	6,04	5,82	6,25
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50											
Circuits / Compressors	N°	2/6			2/6			3/9			3/9		
Sound power level (4)	dB(A)	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)	dB(A)	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	mm	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191	2191
Depth	mm	7425	7425	7425	7425	7425	7425	8415	8415	8415	9405	9405	9405
Height	mm	2513	2513	2513	2513	2513	2513	2513	2513	2513	2513	2513	2513
Installed weight	kg	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 25 °C and evaporator water temperature IN/OUT 20/15 °C;
- (2) Data referred to the full load functioning and nominal conditions, external ambient temperature 25 °C and evaporator water temperature IN/OUT 20/15 °C;
- (3) Data declared in compliance with the European Regulation (EU) 2016/2281 with regard to ecodesign requirements for cooling products and high temperature process chillers;
- (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. The sound levels refer to operation of the unit under full load in nominal conditions.



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](http://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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Cooling, conditioning, purifying.