TAURUS G

ErP Tier 2 COMPLIANT

R454B

Air-cooled water chillers featuring hermetic scroll compressors with R454B.
Nominal cooling capacity 73 – 145 kW

The green solution for residential and commercial air conditioning.

The air-cooled water chillers TAURUS G meet the demands of residential and commercial air conditioning applications by their versatility and ease installation. Compliant with the parameters fixed by the ErP Regulation EcoDesign, combining highest levels of seasonal efficiency with lowered environmental impact through the low GWP refrigerant R454B. Thanks to reduced management and installation costs, maximum reliability and environment protection, TAURUS G is the right choice for current and future applications.

MTA®

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;
- High full load efficiency (EER);
- Extended working limits for starting up and operating even in the worst conditions;
- Wide choice of options and kits for simplified installation;
- Eased access to all internal components.

Options

- Low ambient temperature option (down to -20 °C);
- High efficiency EC brushless fans;
- 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;
- Hydraulic group protection with covering panels or metallic mesh;
- Condenser coils protection with metallic filters or metallic mesh;
- Protective coating for condenser coils, suitable for installation in aggressive environments;
- Soft starters to reduce by 30% the unit's starting current.

Standard features

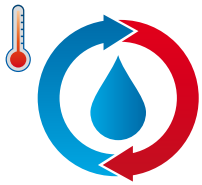
- Refrigerant R454B;
- Hermetic scroll compressors on single refrigerant circuit;
- Crankcase heater compressor and phase-monitor;
- Plate evaporator;
- Axial fans with die-cast aluminium airfoil blade profiles and AC motors;
- Electrical cabinet protection rating IP54;
- Parametric microprocessor control;
- Electronic expansion valve;
- Air-cooled condensers (copper tubes/aluminium fins) with longitudinal "V" shape layout;
- High and low refrigerant pressure switches;
- Refrigerant pressure gauges.

Acoustic configurations

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

Kits

- Antivibration mountings;
- Replicated remote user display (LED or LCD configuration);
- RS485 ModBus kit for connection to supervisor systems;
- Supervision system xWEB300D EVO;
- Modularity kit (master/slave configuration from 2 to 8 units).



Integrated partial or total heat recovery systems.

Advanced microprocessor digital controller.

External supervisor systems.

All models are individually tested in order to check correct operation.

Models TAG		030			035			040			050			055			060			065		
Versions		**HE**	**SHE**	**SSN**	**HE**	**SHE**	**SSN**	**HE**	**SHE**	**SSN**	**HE**	**SHE**	**SSN**	**HE**	**SHE**	**SSN**	**HE**	**SHE**	**SSN**	**HE**	**SHE**	**SSN**
Nominal cooling capacity (1)	kW	72,8	70,9	68,0	80,6	78,2	-	91,8	88,5	82,6	107,0	104,6	99,9	118,3	115,1	109,2	132,7	128,6	120,9	144,7	139,6	132,2
Total absorbed power (1)	kW	23,2	22,8	23,2	25,6	25,5	-	30,7	31,0	33,1	34,2	33,3	34,1	39,2	38,7	40,1	46,1	46,0	48,4	48,9	49,3	51,5
EER (2)		3,14	3,11	2,93	3,15	3,07	-	2,99	2,85	2,50	3,13	3,14	2,93	3,02	2,98	2,72	2,88	2,79	2,50	2,96	2,83	2,56
SEER (3)		4,56	4,72	4,64	4,38	4,38	-	4,38	4,37	4,28	4,37	4,73	4,79	4,24	4,44	4,34	4,28	4,43	4,28	4,32	4,39	4,38
Max external air temperature (4)	°C	46	46	46	46	46	-	46	46	42	46	46	46	46	46	46	46	46	43	46	46	42
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50																				
Circuits / Compressors	N°	1/2																				
Sound power (5)	dB(A)	87,5	82,6	79,6	87,1	82,2	-	86,7	81,8	78,8	90,3	84,2	81,3	90,1	83,8	80,6	88,8	83,5	80,3	89,9	84,0	79,7
Sound pressure (6)	dB(A)	59,5	54,6	51,6	59,1	54,2	-	58,8	53,8	50,9	62,3	56,3	53,3	62,1	55,9	52,6	60,9	55,5	52,3	61,9	56,0	51,7
Depth	mm	1110			1110			1110			1110			1110			1110			1110		
Width	mm	2507			2507			2507			3407			3407			3407			3407		
Height	mm	2270			2270			2270			2270			2270			2270			2270		
Installed weight	kg	740			768			784			933			933			1054			1098		

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.

(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) Data declared referred to outlet water temperature 7 °C;
(5) Sound power: determined on the basis of measurements taken in accordance with the standard ISO 3744;
(6) Sound pressure at 10 m: 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 a 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 without accessories/options.

The listed noise levels, weights and dimensions refer to base chillers with no options/accessories fitted.

ISO 9001 BUREAU VERITAS 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.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

MTA participates in the E.C.C. programme for LCP-HP. 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

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