



















NRGI 151-602

Air-water chiller

Cooling capacity 31.0 ÷ 132.2 kW



- High efficiency also at partial loads
- High modulation capacity
- Continuous modulation of the cooling capacity
- Compressors and fans with Inverter
- Low refrigerant charge
- Stable temperature control of the outlet water





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

These are outdoor units with streamlined scroll compressors used with R32 gas.

Condensing coil with copper pipes and aluminium louvers, plate heat exchanger and **standard electronic expansion valve.**

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency
E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 50°C external air temperature. Unit can produce chilled water up to -10 $^{\circ}\text{C}$.

For more information refer to the selection program and to to the dedicated documentation.

High efficiency

These are flexible and reliable units which adapt to the most diverse load conditions thanks to the precise design and the use of steady speed compressors together with inverter-controlled variable speed compressors guaranteeing a high energy efficiency level both at full and partial load.

Inverter compressor + On-Off

They can be configured with a single variable speed compressor or two in tandem configuration, one steady and one variable speed. This pair guarantees high efficiency both with partial and full loads.

Sizes 151-281 have a single variable speed compressor. Sizes 302-602 have two compressors in tandem configuration.

This solution gets the best value out of the particularities and advantages of each compressor, enhancing the efficiency of each load condition and allowing for

- High seasonal efficiency
- steady and precise modulation of the chilling demand
- The stability of the outlet water temperature.

Refrigerant HFC R32

The environmental impact of the units is reduced considerably owing to the last generation R32 refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO_2 values.

The leak detector is supplied as per standard.

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

Single-compressor units have a standard electronic expansion valve, while units with tandem compressors have two.

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy seasonal efficiency of the unit.

Fans

Inverter: standard from size 151 to size 352, available as an optional for the other sizes.

Boosted, asynchronous with phase cutting: standard from size 382 to size 602.

Both types of fan permit:

- Steady air flow rate adjustment
- Low consumption and reduced sound level at partial loads
- Operation with low outdoor air temperatures
- Precise condensation control for an extended operating range.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It is available in different configurations with storage tank or with fixed or variable pumps also inverter.

■ VARIABLE FLOW RATE: Correctly adjust the speed of the inverter-controlled pumps according to the load demand of the system, in order to reduce power consumption.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: this function can be activated in all the units, to optimise unit operation at any point by continuously modulating the fan speed. In addition, the use of inverter fans allows increased energy efficiency with partial loads.
- Night mode: only in the non-silenced versions is it possible to set a silenced operating mode, which is useful for example at night for greater acoustic comfort but always guarantees performance even at peak load times.

INTEGRATED SOLUTION

The "integrated solution" concept has been implemented in the system architecture, consisting in an integrated and streamlined control of compressors and electronic valves.

This solution allowed a variety of new features to be introduced, such as:

 Low Superheat Control: Progressive superheating reduction in conditions of stability. This allows to increase energy performance: both in modulation and in full load conditions;

— **DLT control**: Control of electronic valves at discharge temperature in certain operating conditions. This is demonstrated in an enhanced reliability of the control and a considerable expansion of the machine's operating range.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS proto-

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Mod-

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

SGD: Electronic expansion that enables connecting to the photovoltaic system and heat pumps to accumulate heat in the DHW tank or in the heating system during the photovoltaic production phase and release it at times when heating demand is highest.

GP: Anti-intrusion grid.

VT: Anti-vibration supports.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

Model	Ver	151	201	281	302	332	352 38	2 502	552	602
AER485P1	A,E	•	•	•	•	•		•	•	•
AERBACP	A,E	•	•	•	•	•		•	•	
AERNET	A,E	•	•	•	•	•		•	•	•
MULTICHILLER_EVO	A,E	•	•	•	•	•		•	•	•
PGD1	A,E	•	•	•	•	•		•	•	•
SGD	A,E	•	•	•	•	•				
Antivibration										
Ver	151	201	281	302	332	352	382	502	552	602
ntegrated hydronic kit: 00, l1, l2, l3, l4	, P1, P2, P3, P4									
A,E	VT17	VT13	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT22
Integrated hydronic kit: 01, 02, 03, 04, 0	05, 06, 07, 08, 09, I	(1, K2, K3, K4, W	1, W2, W3, W4							
A,E	VT13	VT13	VT13	VT13	VT13	VT13	VT11	VT11	VT11	VT22
Anti-intrusion grid										
Ver	151	201	281	302	332	352	382	502	552	602
A,E	GP3	GP4	GP4	GP4	GP4	GP4	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 3 (1)
1) x _ indicates the quantity to buy										
Device for peak current redu	ıction									
Ver	151	201	281	302	332	352	382	502	552	602
A,E	-	-	-	DRENRGI302	DRENRGI332	DRENRGI352	DRENRGI382	DRENRGI502	DRENRGI552	DRENRGI602
The accessory cannot be fitted on the config A grey background indicates the accessory n										

Double safety valves

Ver	151	201	281	302	332	352	382	502	552	602
A,E	T6NRG1									

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

		GURATUR
Fiel	d	Description
1,2,	3,4	NRGI
5,6,	7	Size 151, 201, 281, 302, 332, 352, 382, 502, 552, 602
В		Operating field (1)
	Χ	Electronic thermostatic expansion valve
9		Model
	0	Cooling only
10		Heat recovery
	0	Without heat recovery
	D	With desuperheater (2)
11		Version
	Α	High efficiency
	Е	Silenced high efficiency
12		Coils
	0	Copper-aluminium
	R	Copper pipes-copper fins
	S	Copper pipes-Tinned copper fins
	٧	Copper pieps-Coated aluminium fins
13		Fans
	J	Inverter
	М	Boosted with phase cutting (3)
14		Power supply
	0	400V ~ 3N 50Hz with magnet circuit breakers
15,1	16	Integrated hydronic kit
		Without hydronic kit
	00	Without hydronic kit
		Kit with storage tank and pump/s
	01	Storage tank with low head pump
	02	Storage tank with low head pump + stand-by pump
	03	Storage tank with high head pump
	04	Storage tank with high head pump + stand-by pump
		Kit with pump/s and storage tank with holes for heaters

Et al J	D
Field	Description
05	Storage tank with holes for heaters and single low head pump (4)
06	Storage tank with holes for heaters and pump low head + stand-by pump (4)
07	Storage tank with holes for heaters and single high head pump (4)
08	Storage tank with holes for heaters and pump high head + stand-by pump (4)
	Double loop
09	Double loop
	Kit with pump/s
P1	Single pump low head
P2	Pump low head + stand-by pump
P3	Single pump high head
P4	Pump high head + stand-by pump
	Kit with inverter pump/s to fixed speed
I1	Single low head pump + fixed speed inverter
12	Single low head pump with fixed speed inverter + stand-by pump
13	Single high head pump + fixed speed inverter
14	Single high head pump with fixed speed inverter + stand-by pump
	Kit with storage tank and inverter pump/s to fixed speed
K1	Single low head pump + storage tank + fixed speed inverter
K2	Storage tank and low head pump with fixed speed inverter + stand-by pump
К3	Single high head pump + storage tank + fixed speed inverter
K4	Storage tank and low head pump with fixed speed inverter + stand-by pump
	Kit with storage tank and variable speed inverter pump/s
W1	Single low head pump + Storage tank + variable speed inverter
W2	Double low head pump + Storage tank + variable speed inverter
W3	Single high head pump + Storage tank + variable speed inverter
W4	Double high head pump + Storage tank + variable speed inverter

- (1) Water produced from -10 °C ÷ 20 °C. Double electronic thermostatic valve from size 302 to 602.
 (2) Warning: on the recovery side, a minimum input temperature of 35°C must always be guaranteed on the heat exchanger. For more information about the unit operating range, refer to the Magellano selection
- (3) Only for 382 502 552 602 sizes

 (4) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

3

PERFORMANCE SPECIFICATIONS

NRGI - A

moi A											
Size		151	201	281	302	332	352	382	502	552	602
Cooling performance 12 °C / 7 °C (1)											
Cooling capacity	kW	39,2	52,6	58,2	69,4	77,7	83,2	93,2	103,3	114,0	132,2
Input power	kW	11,8	15,2	17,5	20,8	23,3	25,6	27,6	31,4	35,1	39,1
Cooling total input current	A	18,0	23,0	26,0	37,0	41,0	46,0	43,0	49,0	53,0	60,0
EER	W/W	3,31	3,47	3,32	3,33	3,34	3,25	3,37	3,29	3,24	3,38
Water flow rate system side	I/h	6746	9067	10028	11960	13388	14335	16031	17775	19616	22750
Pressure drop system side	kPa	18	33	40	35	44	50	24	23	28	29

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRGI - E

	151	201	281	302	332	352	382	502	552	602
kW	31,0	40,1	46,4	61,7	70,1	75,6	84,9	91,3	101,8	119,6
kW	8,9	11,0	13,1	17,9	20,2	22,5	24,6	26,9	30,8	34,2
A	13,0	17,0	19,0	32,0	36,0	41,0	39,0	43,0	47,0	53,0
W/W	3,49	3,63	3,55	3,45	3,46	3,36	3,45	3,39	3,31	3,50
I/h	5326	6900	7994	10624	12066	13021	14607	15705	17509	20576
kPa	11	19	25	27	35	41	20	18	22	24
	kW A W/W I/h	kW 31,0 kW 8,9 A 13,0 W/W 3,49 1/h 5326	kW 31,0 40,1 kW 8,9 11,0 A 13,0 17,0 W/W 3,49 3,63 1/h 5326 6900	kW 31,0 40,1 46,4 kW 8,9 11,0 13,1 A 13,0 17,0 19,0 W/W 3,49 3,63 3,55 I/h 5326 6900 7994	kW 31,0 40,1 46,4 61,7 kW 8,9 11,0 13,1 17,9 A 13,0 17,0 19,0 32,0 W/W 3,49 3,63 3,55 3,45 I/h 5326 6900 7994 10624	kW 31,0 40,1 46,4 61,7 70,1 kW 8,9 11,0 13,1 17,9 20,2 A 13,0 17,0 19,0 32,0 36,0 W/W 3,49 3,63 3,55 3,45 3,46 I/h 5326 6900 7994 10624 12066	kW 31,0 40,1 46,4 61,7 70,1 75,6 kW 8,9 11,0 13,1 17,9 20,2 22,5 A 13,0 17,0 19,0 32,0 36,0 41,0 W/W 3,49 3,63 3,55 3,45 3,46 3,36 I/h 5326 6900 7994 10624 12066 13021	kW 31,0 40,1 46,4 61,7 70,1 75,6 84,9 kW 8,9 11,0 13,1 17,9 20,2 22,5 24,6 A 13,0 17,0 19,0 32,0 36,0 41,0 39,0 W/W 3,49 3,63 3,55 3,45 3,46 3,36 3,45 I/h 5326 6900 7994 10624 12066 13021 14607	kW 31,0 40,1 46,4 61,7 70,1 75,6 84,9 91,3 kW 8,9 11,0 13,1 17,9 20,2 22,5 24,6 26,9 A 13,0 17,0 19,0 32,0 36,0 41,0 39,0 43,0 W/W 3,49 3,63 3,55 3,45 3,46 3,36 3,45 3,39 I/h 5326 6900 7994 10624 12066 13021 14607 15705	kW 31,0 40,1 46,4 61,7 70,1 75,6 84,9 91,3 101,8 kW 8,9 11,0 13,1 17,9 20,2 22,5 24,6 26,9 30,8 A 13,0 17,0 19,0 32,0 36,0 41,0 39,0 43,0 47,0 W/W 3,49 3,63 3,55 3,45 3,46 3,36 3,45 3,39 3,31 I/h 5326 6900 7994 10624 12066 13021 14607 15705 17509

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY DATA

W/W W/W	5,19 5,23	5,32	5,37	F 0.4						
		5,32	5.37	Γ.04						
		5,32	5.37	Γ.0.4						
W/W	5.72		-,5,	5,04	5,07	5,22	5,33	5,36	5,18	5,33
	2,23	5,36	5,42	5,08	5,11	5,26	5,37	5,40	5,23	5,37
%	204,40	209,80	211,90	198,40	199,70	205,70	210,00	211,40	204,30	210,00
%	206,00	211,50	213,60	200,00	201,30	207,30	211,80	213,10	206,00	211,70
-										
W/W	6,35	6,45	6,33	5,81	5,79	5,89	6,21	6,21	5,94	6,11
W/W	6,52	6,75	6,58	5,93	5,84	5,91	6,31	6,32	6,00	6,21
%	250,90	254,90	250,20	229,50	228,40	232,40	245,20	245,30	234,60	241,50
%	257,90	266,80	260,30	234,20	230,40	233,40	249,40	249,80	237,10	245,40
-										
W/W	7,10	7,60	7,50	7,10	7,30	7,40	7,10	7,10	6,50	6,50
W/W	7,10	7,50	7,40	7,20	7,40	7,40	7,10	7,20	6,60	6,60
	96 W/W W/W 96 96 W/W W/W	% 206,00 W/W 6,35 W/W 6,52 % 250,90 % 257,90 W/W 7,10	% 206,00 211,50 W/W 6,35 6,45 W/W 6,52 6,75 % 250,90 254,90 % 257,90 266,80 W/W 7,10 7,60 W/W 7,10 7,50	% 206,00 211,50 213,60 W/W 6,35 6,45 6,33 W/W 6,52 6,75 6,58 % 250,90 254,90 250,20 % 257,90 266,80 260,30 W/W 7,10 7,60 7,50 W/W 7,10 7,50 7,40	% 206,00 211,50 213,60 200,00 W/W 6,35 6,45 6,33 5,81 W/W 6,52 6,75 6,58 5,93 % 250,90 254,90 250,20 229,50 % 257,90 266,80 260,30 234,20 W/W 7,10 7,60 7,50 7,10 W/W 7,10 7,50 7,40 7,20	% 206,00 211,50 213,60 200,00 201,30 W/W 6,35 6,45 6,33 5,81 5,79 W/W 6,52 6,75 6,58 5,93 5,84 % 250,90 254,90 250,20 229,50 228,40 % 257,90 266,80 260,30 234,20 230,40 W/W 7,10 7,60 7,50 7,10 7,30 W/W 7,10 7,50 7,40 7,20 7,40	% 206,00 211,50 213,60 200,00 201,30 207,30 W/W 6,35 6,45 6,33 5,81 5,79 5,89 W/W 6,52 6,75 6,58 5,93 5,84 5,91 % 250,90 254,90 250,20 229,50 228,40 232,40 % 257,90 266,80 260,30 234,20 230,40 233,40 W/W 7,10 7,60 7,50 7,10 7,30 7,40 W/W 7,10 7,50 7,40 7,20 7,40 7,40	% 206,00 211,50 213,60 200,00 201,30 207,30 211,80 . W/W 6,35 6,45 6,33 5,81 5,79 5,89 6,21 . W/W 6,52 6,75 6,58 5,93 5,84 5,91 6,31 . % 250,90 254,90 250,20 229,50 228,40 232,40 245,20 . % 257,90 266,80 260,30 234,20 230,40 233,40 249,40 . W/W 7,10 7,60 7,50 7,10 7,30 7,40 7,10 W/W 7,10 7,50 7,40 7,20 7,40 7,40 7,10	% 206,00 211,50 213,60 200,00 201,30 207,30 211,80 213,10 W/W 6,35 6,45 6,33 5,81 5,79 5,89 6,21 6,21 W/W 6,52 6,75 6,58 5,93 5,84 5,91 6,31 6,32 % 250,90 254,90 250,20 229,50 228,40 232,40 245,20 245,30 % 257,90 266,80 260,30 234,20 230,40 233,40 249,40 249,80 W/W 7,10 7,60 7,50 7,10 7,30 7,40 7,10 7,10 W/W 7,10 7,50 7,40 7,20 7,40 7,40 7,10 7,20	% 206,00 211,50 213,60 200,00 201,30 207,30 211,80 213,10 206,00 W/W 6,35 6,45 6,33 5,81 5,79 5,89 6,21 6,21 5,94 W/W 6,52 6,75 6,58 5,93 5,84 5,91 6,31 6,32 6,00 % 250,90 254,90 250,20 229,50 228,40 232,40 245,20 245,30 234,60 % 257,90 266,80 260,30 234,20 230,40 233,40 249,40 249,80 237,10 W/W 7,10 7,60 7,50 7,10 7,30 7,40 7,10 7,10 6,50 W/W 7,10 7,50 7,40 7,20 7,40 7,10 7,10 7,20 6,60

(2) Calculation performed with FIVED water flow rate

Size			151	201	281	302	332	352	382	502	552	602
Fans: M												
SEER - 12/7 (EN14825: 2018) (1)												-
SEER	A	W/W	-	-	-	-	-	-	5,33	5,36	5,18	5,33
SEER	E	W/W	-	-	-	-	-	-	5,37	5,40	5,23	5,37
Consend off sion se	A	%	-	-	-	-	-	-	210,00	211,40	204,30	210,00
Seasonal efficiency	E	%	-	-	-	-	-	-	211,80	213,10	206,00	211,70
SEER - 23/18 (EN14825: 2018) (2)												
SEER	A	W/W	-	-	-	-	-	-	6,21	6,21	5,94	6,11
SEEK	E	W/W	-	-	-	-	-	-	6,31	6,32	6,00	6,21
Consend off sion se	A	%	-	-	-	-	-	-	245,20	245,30	234,60	241,50
Seasonal efficiency	E	%	-	-	-	-	-	-	249,40	249,80	237,10	245,40
SEPR - (EN 14825: 2018) (2)												
CEDD	A	W/W	-	-	-	-	-	-	7,10	7,10	6,50	6,50
SEPR	E	W/W	-	-	-	-	-	-	7,10	7,20	6,60	6,60

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

Size			151	201	281	302	332	352	382	502	552	602
Electric data												
Maximum current (FLA)	A,E	Α	23,8	31,6	34,9	47,6	52,8	58,1	60,1	68,8	74,4	87,5
Peak current (LRA)	A,E	Α	30,3	43,0	43,0	142,8	167,1	201,1	174,4	211,8	278,6	329,2

[■] Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

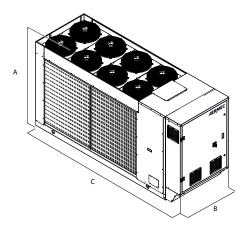
Size			151	201	281	302	332	352	382	502	552	602
Compressor												
Туре	A,E	type					Sc	roll				
Compressor regulation	A,E	Туре	1	I		1+I	1+l	1+I	1+1	1+1	1+l	1+1
Number	A,E	no.	1	1	1	2	2	2	2	2	2	2
Circuits	A,E	no.	1	1	1	1	1	1	1	1	1	1
Refrigerant	A,E	type					R	32				
System side heat excha	anger											
Туре	A,E	type					Braze	d plate				
Number	A,E	no.	1	1	1	1	1	1	1	1	1	1

FANS DATA

Size			151	201	281	302	332	352	382	502	552	602
Fans: J												
Fan												
Туре	A,E	type					A	cial				
Fan motor	A,E	type					Inve	erter				
Number	A,E	no.	4	6	6	8	8	8	2	2	2	3
Air flow rate	A	m³/h	16669	24469	24476	30793	28649	28662	36174	36174	36149	54601
All flow rate	E	m³/h	14488	21255	21255	26704	24966	24966	26850	26850	26781	40488
Sound data calculated in cooling mo	de (1)											
Cound namer land	A	dB(A)	81,8	84,6	85,9	82,2	85,0	85,1	85,4	86,5	87,7	88,1
Sound power level	E	dB(A)	79,3	82,8	83,3	80,9	81,3	81,7	82,8	83,0	85,4	85,5
Cound messure level (10 ms)	Α	dB(A)	50,0	52,7	54,1	50,3	53,2	53,3	53,5	54,5	55,8	56,0
Sound pressure level (10 m)	E	dB(A)	47,5	51,0	51,4	49,0	49,5	49,8	50,8	51,1	53,5	53,5
(1) Sound power: calculated on the bas	is of measurements	made in accorda	ance with UNI E	N ISO 9614-2, a	s required for E	urovent certific	cation. Sound p	ressure measu	red in free field	(in compliance	with UNI EN IS	0 3744).
Size			151	201	281	302	332	352	382	502	552	602
Fans: M												
Increased fan												
Туре	A,E	type					A	cial				
Fan motor	A,E	type					Asynchronous	with phase cut				
Number	A,E	no.	-	-	-	-	-	-	2	2	2	3
Air flow rate	A	m³/h	-	-	-	-	-	-	36174	36174	36149	54601
Air now rate	E	m³/h	-	-	-	-	-	-	26850	26850	26781	40488
Sound data calculated in cooling mo	de (1)											
Cound mouse lavel	А	dB(A)	-	-	-	-	-	-	85,4	86,5	87,7	88,1
Sound power level	E	dB(A)	-	-	-	-	-	-	82,8	83,0	85,4	85,5
Cound areasons lovel (10 m)	A	dB(A)	-	-	-	-	-	-	53,5	54,5	55,8	56,0
Sound pressure level (10 m)	E	dB(A)	-	-	-	-	-	-	50,8	51,1	53,5	53,5

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS



Size			151	201	281	302	332	352	382	502	552	602
Dimensions and weights												
A	A,E	mm	1652	1652	1652	1652	1652	1652	1907	1907	1907	1900
В	A,E	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
(A,E	mm	2873	3372	3372	3372	3372	3372	3623	3623	3623	4373
Size			151	201	281	302	332	352	382	502	552	602
Integrated hydronic kit: 00												
Weights												
Weight empty + packaging	A,E	kg	826	899	899	986	1027	1028	1093	1101	1123	1313
Weight functioning	A,E	kg	795	867	867	955	996	997	1062	1072	1094	1284

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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