



MULTI ZONE

Ultra Heat Multi-split System, Ideal for Your Home

UP TO 21 SEER2



• Reliable

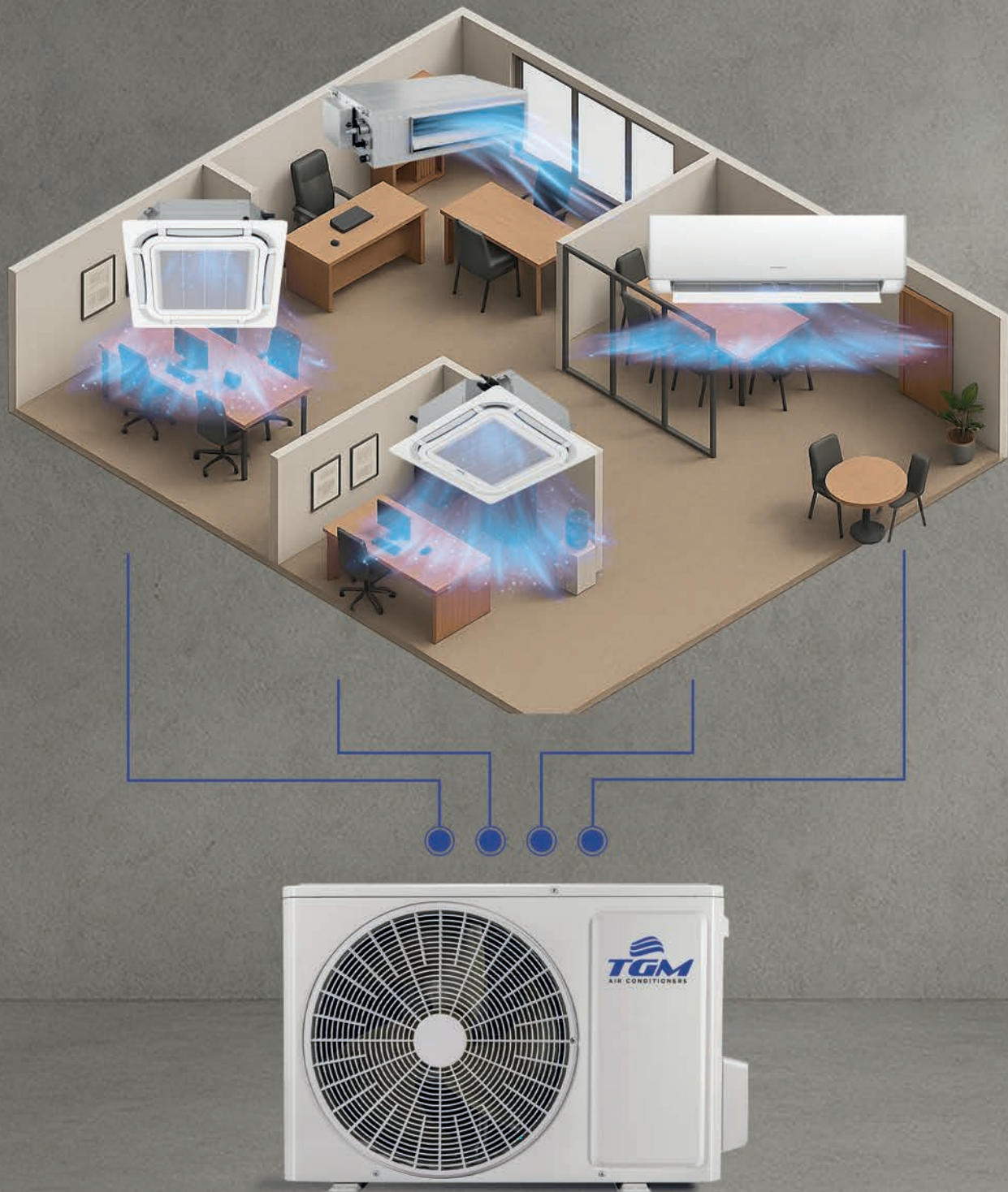
• Comfortable

• Intelligent

• Up to 10 HSPF2



TGM is committed to improving the comfort level of air cooling and heating, with Multi-Zone to satisfy the needs of each family.



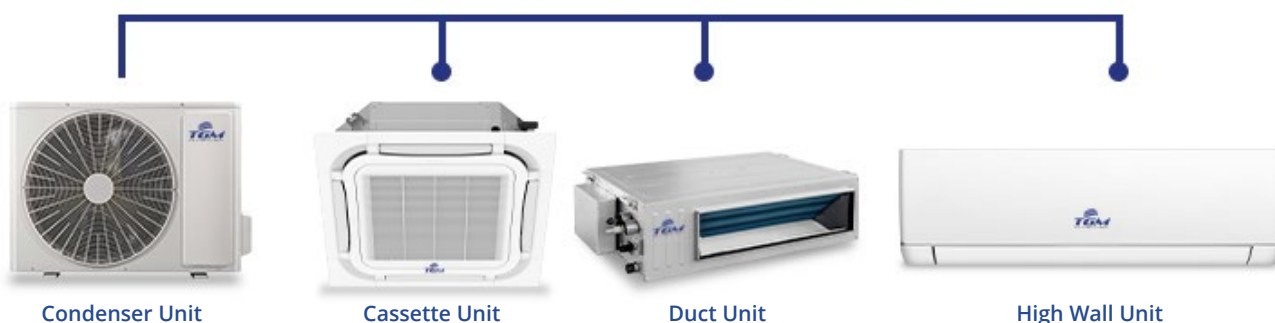
A single outdoor unit can be freely matched with up to 5 air conditioning products, including the wall-mounted unit, cassette unit and duct unit. The newly developed outdoor units can be matched with different types of TGM indoor units.

This multi-split system not only has a wide voltage range but also can operate continuously and stably in ultra-low temperatures. TGM Multi-Zone is equipped with an independent intelligent control system, which has greatly improved the efficiency of air conditioning and ensured continuous provision of fresh and comfortable air.

System

Model			GMRSH18AS2	GMRSH24AS3	GMRSH36AS4	GMRSH42AS5
System Type			Heat Pump			
Number of Zones			2	2 - 3	2 - 4	2 - 5
System Performance (Non-Ducted Indoor Units)						
Cooling Capacity	(Min - Max)	Btu/h	7300 - 19800	7500 - 31400	8870 - 40900	8870 - 44300
	Capacity @95°F	--	18000	24000	36000	42000
Heating Capacity	(Min - Max)	Btu/h	7300 - 18100	7500 - 31400	8870 - 51180	8870 - 54592
	Capacity @47°F	--	18000	24000	36000	42000
	Capacity @17°F	--	16000	23600	36000	40000
	Capacity Max @5°F	--	13800	21600	36000	37800
SEER2 / EER2		--	21 / 12	21 / 13.3	21 / 12	21 / 13
HSPF2 / COP		--	10 / 2.0	10 / 2.0	10 / 2.1	10 / 2.1
Energy Star Certified		--	Yes	Yes	Yes	Yes
Energy Star Certified with Cold Climate Designation		--	Yes	Yes	Yes	Yes
System Performance (Mixed Ducted and Non-Ducted Indoor Units)						
Cooling Capacity	(Min - Max)	Btu/h	7300 - 19800	7500 - 31400	8870 - 40900	8870 - 44300
	Capacity @95°F	--	18000	24000	36000	42000
Heating Capacity	(Min - Max)	Btu/h	7300 - 18100	7500 - 31400	8870 - 51180	8870 - 54592
	Capacity @47°F	--	18000	24000	36000	42000
	Capacity @17°F	--	15400	23000	36000	40000
	Capacity Max @5°F	--	13700	21600	34000	37000
SEER2 / EER2		--	19 / 11.8	19 / 12.2	19 / 11.8	19 / 12.2
HSPF2 / COP		--	9 / 1.80	9 / 1.80	9 / 1.84	9 / 1.84
Energy Star Certified		--	Yes	Yes	Yes	Yes
Energy Star Certified with Cold Climate Designation		--	Yes	Yes	Yes	Yes
System Performance (Ducted Indoor Units)						
Cooling Capacity	(Min - Max)	Btu/h	7300 - 19800	7500 - 31400	8870 - 40900	8870 - 44300
	Capacity @95°F	--	18000	24000	36000	42000
Heating Capacity	(Min - Max)	Btu/h	18000 (7300 - 18100)	24000 (7500 - 31400)	36000 (8870 - 51180)	42000 (8870 - 54592)
	Capacity @47°F	--	18000	24000	36000	42000
	Capacity @17°F	--	15000	22000	36000	40000
	Capacity Max @5°F	--	13600	21600	33000	36000
SEER2 / EER2		--	18 / 11.7	18 / 12	18 / 11.7	18 / 12
HSPF2 / COP		--	8.1 / 1.86	8.1 / 1.86	8.1 / 1.90	8.1 / 1.90
Energy Star Certified		--	Yes	Yes	Yes	Yes
Energy Star Certified with Cold Climate Designation		--	Yes	Yes	Yes	Yes

SAMPLE MULTI-ZONE CONFIGURATIONS



Condensing Units

Outdoor Unit Data	Unit	GMRSH18AS2	GMRSH24AS3	GMRSH36AS4	GMRSH42AS5
Cooling Operation Ambient Temperature Range	°F	-22 ~ 118	-22 ~ 118	-22 ~ 118	-22 ~ 118
Heating Operation Ambient Temperature Range	°F	-22 ~ 75.2	-22 ~ 75.2	-22 ~ 75.2	-22 ~ 75.2
Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD.	ZHUHAI LANDA COMPRESSOR CO., LTD.	ZHUHAI LANDA COMPRESSOR CO.,LTD	ZHUHAI LANDA COMPRESSOR CO.,LTD
Compressor Model	--	FTz-SM151AXB	QXFS-B212zX070	QXFS-D40zX070A	QXFS-D40zX070A
Compressor Type	--	Twin Rotary	Inverter Rotary	Twin Rotary	Twin Rotary
Condenser Material	--	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
Sound Power Level	dB(A)	64	68	74	74
Air Flow Volume	CFM	1354	2236	3413	3413
Dimension of Package (W x H x D)	Inch	34.3 x 24.4 x 15.7	40.6 x 29 x 18	43 x 35 x 19.6	43 x 35 x 19.6
Dimension of Outline (W x H x D)	Inch	32.4 x 21.6 x 14	38 x 26 x 16	40 x 33.5 x 17	40 x 33.5 x 17
Weight (Net / Gross)	lb	78.3 / 84.9	112.5 / 122.4	173.1 / 188.5	174.2 / 189.6
Refrigerant Piping					
Refrigerant	--	R32	R32	R32	R32
Refrigerant Charge	oz	31,75	59,98	95,26	95,26
Additional Charge	oz/ft	0,2	0,2	0,2	0,2
Port Size (Liquid - Gas)	Port A (in)	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8
	Port B (in)	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8
	Port C (in)		1/4 - 3/8	1/4 - 3/8	1/4 - 3/8
	Port D (in)			1/4 - 3/8	1/4 - 3/8
	Port E (in)				1/4 - 3/8
Pre-Charge Length	ft	33	98	131	164
Pipe Length (Min - Max)	ft	10 - 131	10 - 197	10 - 263	10 - 328
Electrical					
Power Supply	--	208-230 / 60Hz / 1PH	208-230 / 60Hz / 1PH	208-230 / 60Hz / 1PH	208-230 / 60Hz / 1PH
Min/Max. Voltage	V	187/253	187/253	187/253	187/253
MOCP	A	20	25	45	45
MCA	A	14,5	19,5	30	30
Rated Cooling Current	A	11	14	21,7	21,7
Rated Heating Current	A	11	14,8	22,6	22,6
Interconnecting Wire Size	AWG	14/4	14/4	14/4	14/4

Port Adapters included (1/2 & 5/8)

CONDENSER UNITS

18K BTU

24K BTU



36K BTU

42K BTU

High Wall

Model	--	GMAHT09SLD	GMAHT12SLD	GMAHT18SLD	GMAHT24SLD
Leak Detection Included	--	Yes	Yes	Yes	Yes
Power Supply	--	208 - 230 / 60Hz / 1PH	208 - 230 / 60Hz / 1PH	208 - 230 / 60Hz / 1PH	208 - 230 / 60Hz / 1PH
MOCP	A	15	15	20	20
MCA	A	10	11	14	15
Power Supply Mode	--	Outdoor	Outdoor	Outdoor	Outdoor
Air Flow Volume (Hi/Mi/Lo)	CFM	282 / 230 / 194	353 / 277 / 224	553 / 471 / 388	589 / 500 / 441
Sound Pressure Level Cooling	dB (A)	42/39/37/36/28 /25/23/21	47/39/37/35/33 /31/26/23	51/48/46/44 /41/37/32	50/47/44/41 /39/37/36
Sound Pressure Level Heating	dB (A)	40/35/34/32/31/30/29	46/39/38/36/34/33/31	50/46/44/42/39/35/31	52/48/44/41/39/37/36
Sound Power Level Cooling	dB (A)	52/49/47/46/38 /35/33/31	57/49/47/45/43 /41/36/33	61/58/56/54 /51/47/42	60/57/54/51 /49/47/46
Sound Power Level Heating	dB (A)	50/45/44/42 /41/40/39	56/49/48/46 /44/43/41	60/56/54/52 /49/45/41	62/58/54/51 /49/47/46
Dehumidification	Pt/Hr	1,69	2,96	3,8	5,28
Evaporator Material	--	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
Indoor Unit Dimension (WxHxD)	In.	32.8 x 10.8 x 7.8	32.8 x 10.8 x 7.8	37 x 13 x 9.6	42.4 x 13 x 9.6
Package Dimension (WxHxD)	In.	35 x 13.5 x 10.6	35 x 13.5 x 10.6	39.4 x 15.9 x 12.6	44.6 x 16.3 x 13
Net / Gross Weight	lb	18.7 / 23.2	18.7 / 23.2	28.7 / 34.2	33.1 / 39.7
Line Set Size (Liquid - Gas)	In.	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"



HIGH WALL UNITS

Cassette

Product Model	--	GC4VHT12SLD	GC4VHT18SLD	GC4VHT24SLD
Leak Detection	--	Yes	Yes	Yes
Power Supply	--	208 - 230 / 60Hz / 1PH	208 - 230 / 60Hz / 1PH	208 - 230 / 60Hz / 1PH
Min/Max. Voltage	V	187/253	187/253	187/253
Air Flow Volume	CFM	330/318/288/265/247/224/206	383/318/288/265/247/224/206	647/618/559/536/512/488/471
Sound Pressure Level	dB (A)	40/39/36/34/33/31/29	44/40/37/35/34/32/30	45/44/43/42/41/40/39
Sound Power Level	dB (A)	50/49/46/44/43/41/39	54/50/47/45/44/42/40	55/54/53/52/51/50/49
Dehumidification	Pt/Hr	2,96	3,8	5,28
Fan Motor Cooling Speed	rpm	700/660/600/580/520/480/440	780/660/600/580/520/480/440	560/540/520/500/480/460/440
Fan Motor Heating Speed	rpm	700/660/600/580/520/480/440	780/660/600/580/520/480/440	560/540/520/500/480/460/440
Evaporator Material	--	Inner Groove Copper Tube-Aluminum fin	Inner Groove Copper Tube-Aluminum fin	Inner Groove Copper Tube-Aluminum fin
Package Dimension (WxHxD)	In.	25.7 x 11.6 x 27.5	25.7 x 11.6 x 27.5	37.9 x 12.8 x 37.9
External Dimension (WxHxD)	In.	25.6 x 11.0 x 27.4	25.6 x 11.0 x 27.4	37.8 x 12.2 x 37.8
Net / Gross Weight	lb	37.5 / 48.5	37.5 / 48.5	63.9 / 83.8
Panel Dimension (WxHxD)	In.	27.6 x 4.9 x 27.6	27.6 x 4.9 x 27.6	40.9 x 4.4 x 40.7
Panel Package Dimension (WxHxD)	In.	27.5 x 4.3 x 27.5	27.5 x 4.3 x 27.5	40 x 3.7 x 40.6
Panel Net / Gross Weight	lb	6.6 / 9.9	6.6 / 9.9	13 / 21
Line Set Size (Liquid - Gas)	In.	1/4" - 3/8"	1/4" - 1/2"	1/4" - 5/8"



CASSETTE UNITS

Ducts

Product Model	--	GFCHT09SLD	GFCHT12SLD	GFCHT18SLD	GFCHT24SLD
Leak Detection	--	Yes	Yes	Yes	Yes
Power Supply	--	208 - 230 / 60Hz / 1PH	208 - 230 / 60Hz / 1PH	208 - 230 / 60Hz / 1PH	208 - 230 / 60Hz / 1PH
Motor Model	--	FG150A-ZL	FG150A-ZL	FG200A-ZL	FG200A-ZL
Air flow volume	CFM	324/253/212/188	353/288/247/212	589/412/312/288	736/559/453/406
Sound Pressure Level	dB (A)	38/30/26/25	39/32/26/25	40/32/26/25	42/34/33/30
Sound Power Level	dB (A)	48/40/36/35	49/42/36/35	50/42/36/35	52/44/43/40
Dehumidification	Pt/Hr	1,69	2,96	3,8	5,28
Cooling Speed	r/min	860/640/640/570/570/510/510	940/770/770/640/640/570/570	990/700/700/530/530/490/490	1050/730/730/650/650/580/580
Heating Speed	r/min	860/640/640/570/570/510/510	940/770/770/640/640/570/570	990/700/700/530/530/490/490	1050/730/730/650/650/580/580
Evaporator Material	--	Copper tube-Aluminum fin	Copper tube-Aluminum fin	Copper tube-Aluminum fin	Copper tube-Aluminum fin
Dimension of Outline (WxDxH)	In.	32.7 x 29.7 x 11.8	32.7 x 29.7 x 11.8	44.5 x 29.7 x 11.8	44.5 x 29.7 x 11.8
Dimension of Package (LxWxH)	In.	35.3 x 31.8 x 14.1	35.3 x 31.8 x 14.2	47.4 x 32 x 14.2	47.4 x 32 x 14.2
Net / Gross Weight	lb	70.6 / 83.8	70.6 / 83.8	92.7 / 107	92.7 / 107
Line Set Size (Liquid - Gas)	In.	1/4" - 3/8"	1/4" - 3/8"	1/4" - 5/8"	1/4" - 5/8"



DUCT UNITS

Combinations

GMRSH18AS2	Two Indoor Units	Three Indoor Units
	09+09	09+09+09
	09+12	/
	12+12	/

GMRSH24AS3	Two Indoor Units	Three Indoor Units
	09+09	09+09+09
	09+12	09+09+12
	09+18	09+09+18
	12+12	09+12+12
	12+18	12+12+12
	18+18	/

GMRSH36AS4	Two Indoor Units	Three Indoor Units		Four Indoor Units
	9+9	9+9+9	12+18+18	9+9+9+9
	9+12	9+9+12	12+18+24	9+9+9+12
	9+18	9+9+18	18+18+18	9+9+9+18
	9+24	9+9+24	/	9+9+9+24
	12+12	9+12+12	/	9+9+12+12
	12+18	9+12+18	/	9+9+12+18
	12+24	9+12+24	/	9+9+12+24
	18+18	9+18+18	/	9+9+18+18
	18+24	9+18+24	/	9+12+12+12
	24+24	12+12+12	/	9+12+12+18
	/	12+12+18	/	12+12+12+12
	/	12+12+24	/	12+12+12+18

GMRSH42AS5	Two Indoor Units	Three Indoor Units		Four Indoor Units		Five Indoor Units	
	9+9	9+9+9	12+12+12	9+9+9+9	9+12+12+18	9+9+9+9+9	9+12+12+12+12
	9+12	9+9+12	12+12+18	9+9+9+12	9+12+12+24	9+9+9+9+12	9+12+12+12+18
	9+18	9+9+18	12+12+24	9+9+9+18	9+12+18+18	9+9+9+9+18	12+12+12+12+12
	9+24	9+9+24	12+18+18	9+9+9+24	9+12+18+24	9+9+9+9+24	/
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	12+24	9+12+24	18+18+18	9+9+12+24	12+12+12+18	9+9+9+12+24	/
	18+18	9+18+18	18+18+24	9+9+18+18	12+12+12+24	9+9+9+18+18	/
	18+24	9+18+24	/	9+9+18+24	12+12+18+18	9+9+12+12+12	/
	24+24	9+24+24	/	9+12+12+12	/	9+9+12+12+18	/

Product Lineup Introduction

	Appearance	Model	Number of Connectable IDUs	9K	12K	18K	24K
Outdoor Unit		18K	2	✓	✓		
		24K	3	✓	✓	✓	
		36K	4	✓	✓	✓	✓
		42K	5	✓	✓	✓	✓

01 Outdoor Unit

Info	18K	24K	36K	42K
Appearance				
Dimensions	32.4 × 21.6 × 14 in	38 × 26 × 16 in	40 × 33.5 × 17 in	



The whole series meet the requirements of E-Star 6.1.



The connecting pipe length and drop difference have been significantly improved so that the units are suitable for more installation places.

■ MAX Convenience - High Loading Capacity and Easy Installation

Compact size

The size of the outdoor unit is reduced by up to 32%, which makes it easy to install even at a narrow balcony.



Easy installation and maintenance

G-MAX (except 1P) allows you to replace the main board by only removing the top cover, which is suitable for working at high places or in small installation space such as a narrow balcony.



The compact design of G-MAX makes it easy to install and transport, which brings great convenience for after-sales service and working at height.



■ MAX Guard - 6 Anti-corrosion Measures

6 anti-corrosion measures, for all-round protection, longer service life and less maintenance

- ▶ Anti-corrosion protection of fins (optional): gold and black fins with better anticorrosion performance;

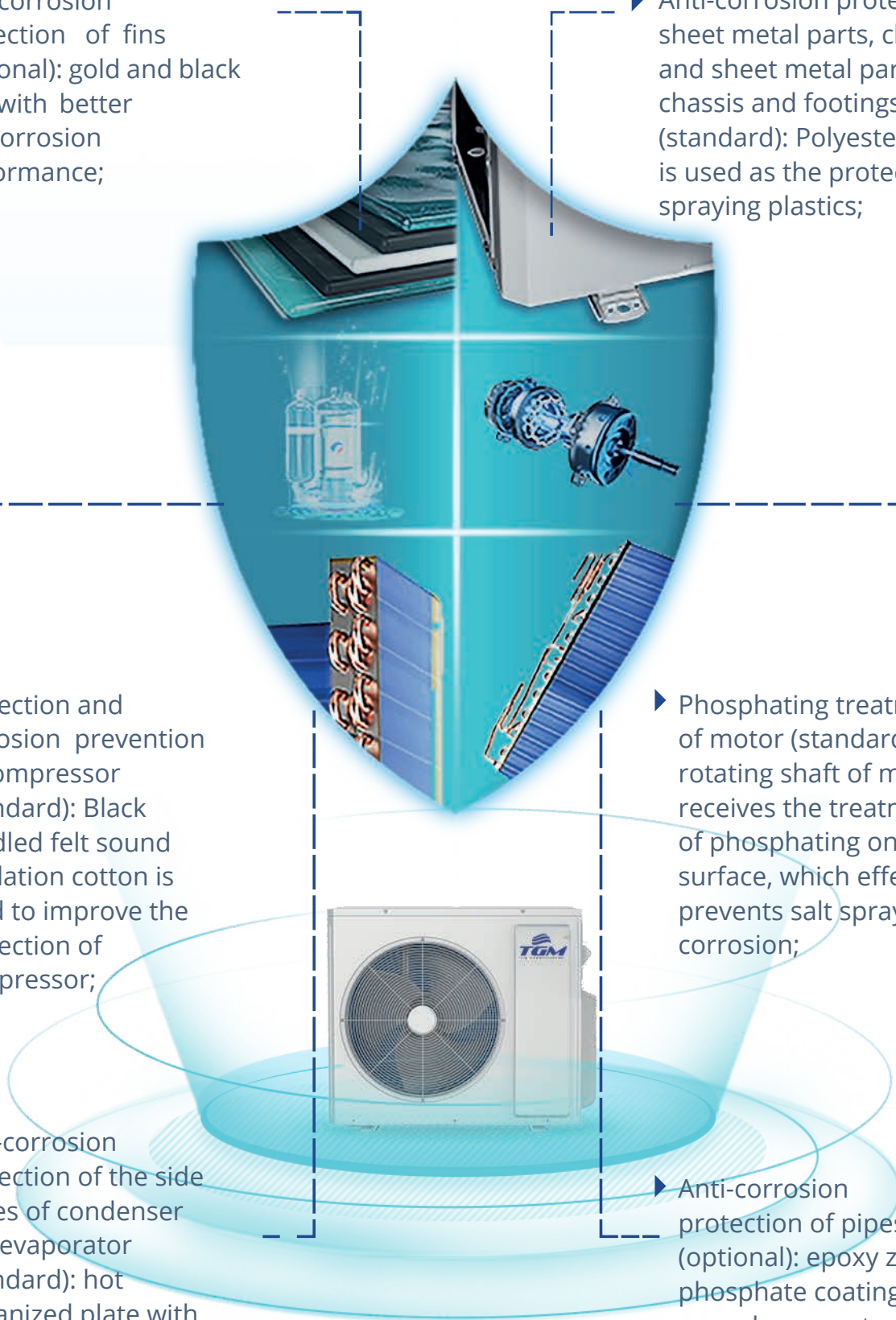
- ▶ Anti-corrosion protection of sheet metal parts, chassis and sheet metal parts, chassis and footings (standard): Polyester powder is used as the protection of spraying plastics;

- ▶ Protection and corrosion prevention of compressor (standard): Black needled felt sound insulation cotton is used to improve the protection of compressor;

- ▶ Phosphating treatment of motor (standard): The rotating shaft of motor receives the treatment of phosphating on the surface, which effectively prevents salt spray corrosion;

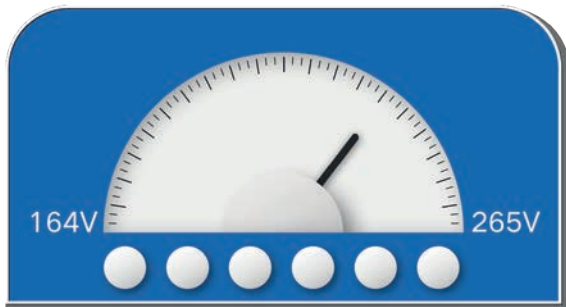
- ▶ Anti-corrosion protection of the side plates of condenser and evaporator (standard): hot galvanized plate with better anti-corrosion performance;

- ▶ Anti-corrosion protection of pipes (optional): epoxy zinc phosphate coating, served as a protective film on the surface of the pipes;



02 Ultra Heat Stable Operation

■ Wide Voltage Range



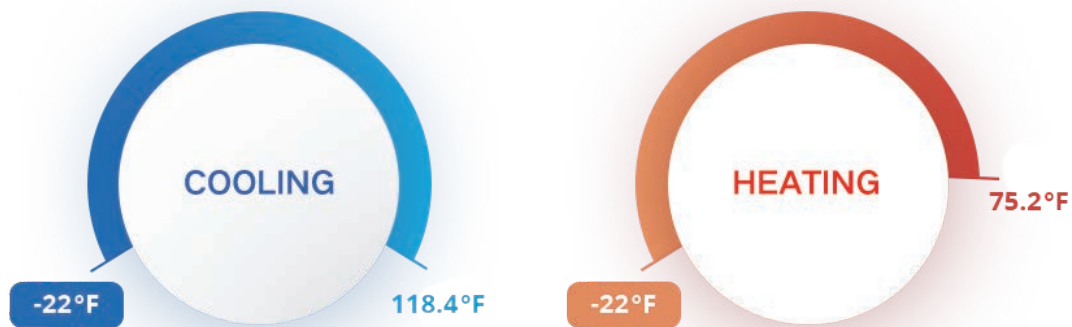
Wide Voltage Range: 164V~265V

The unit can operate stably across a wide voltage range, which is suitable for regions with unstable power supply.

■ Ultra Heat

Reliable operation even at -22°F:

Deals with ultra-low temperature conditions with ease, and remains powerful to control indoor temperature even at -22°F



Ambient Temperature Range

03 Self-adaptive Protection Technology

The new Multi-Zone series are equipped with self-adaptive protection technology to enable active adjustment of the operating status.

With the intelligent self-check and the independent indoor unit system, the unit can automatically adjust the operating parameters, effectively respond to some faults (excluding extreme faults such as refrigerant leakage), and maintain continuous operation.



Wifi Bluetooth Efficient Networking

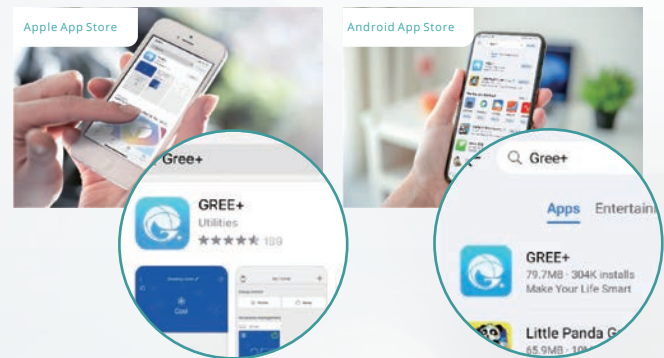
Achieve long-distance control of unit on and off, temperature and fan speed, etc. by APP in the mobile phone.

Air conditioner is equipped with Wifi Bluetooth efficient networking function, which can automatically connect to the network and find nearby devices. Compared with traditional Wifi links, it improves the success rate of networking and reduces the networking steps, effectively improving the operation convenience and reliability of the product.

Method 1: Scan QR code as below



Method 2: Search "GREE+" in APP store and download it



Note: See below link for "GREE+" connection in details. Please get the link for operation.
<https://youtu.be/LJOrDnAjNL8>

Method 3: Connect in 4 steps

