



Z-COOL Series

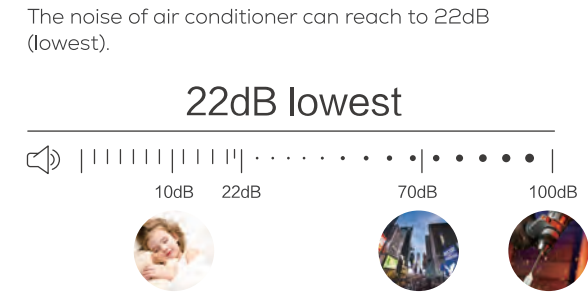
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MINI SPLIT
AIR CONDITIONER
CATALOGUE



ZERO IS THE BEGINNING.

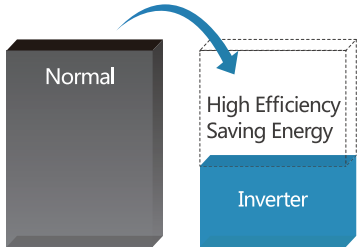
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Super Quiet: 22dB lowest



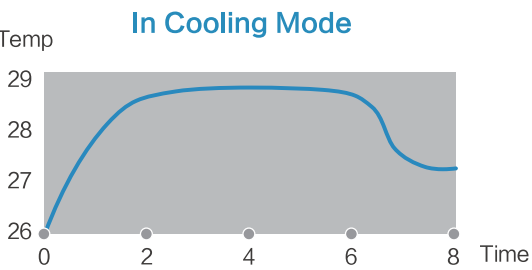
High Efficiency

Larger air inlet and outlet and optimized duct system largely increases its efficiency and saves energy consumption.



Sleep Mode

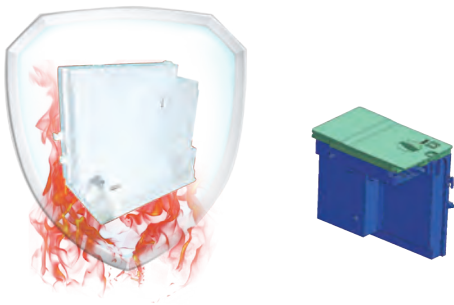
Keep you away from an under-cooling or over-heating sleep.



While set on sleep mode, the air conditioner will automatically increase set temperature 1°C (ST+1 °C) 1 hour later, ST+2 °C after 1 more hour and keep the same condition after that .

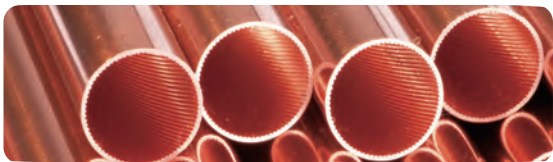
Fireproof Electric Control Box

The box is optimized with larger space for safety and functional requirement.
Easy disassembly and maintenance.



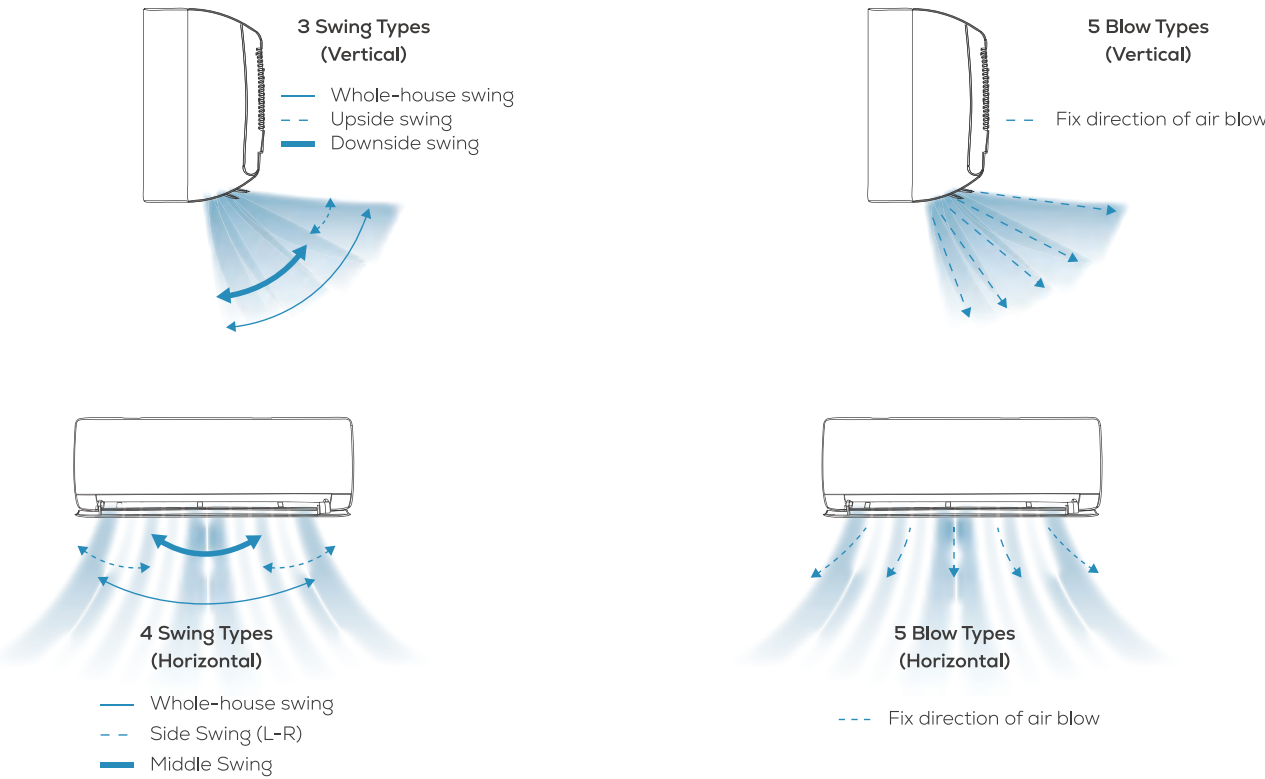
Inner-grooved Copper Tubes

With the high quality inner-grooved copper, the thermal conductivity will be significantly improved 20-30% more than that of smooth tubes, because the surface area of the inner copper wall is increased, which will significantly improve thermal conductivity.



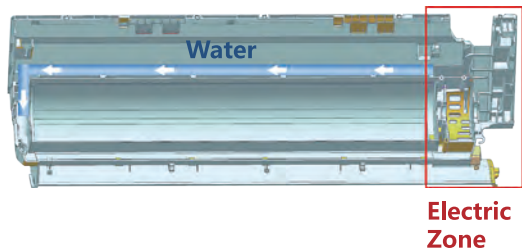
Vector Precision Air Supply

Various precise fixed angle of air supply can provide more comfortable choices for users.

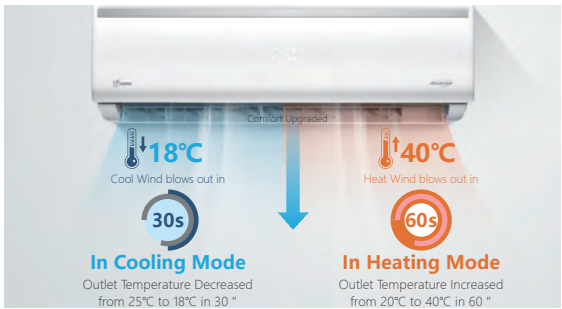


Safety Design

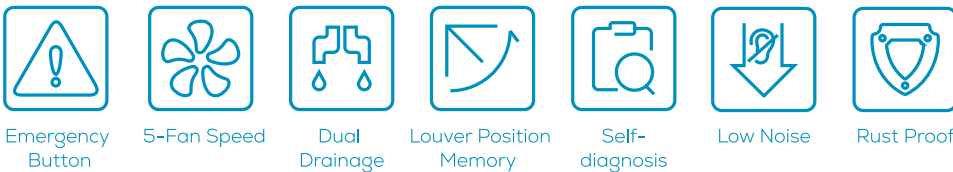
- No Connection Between Condensate Water & Electricity.



Rapid Cooling in 30"
Rapid Heating in 60"



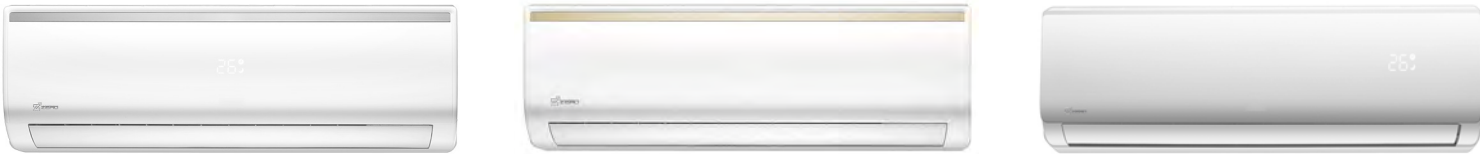
Standard



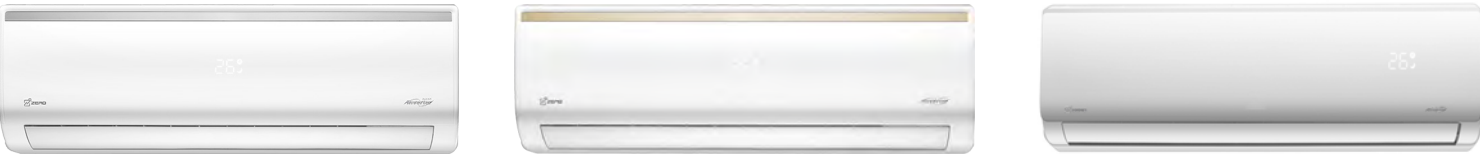
Z-COOL Series 60Hz Product Line

Voltage (V)	115V~/60Hz/1P		208-230V~/60Hz/1P				
Capacity (Btu/h)	9K	12K	9K	12K	18K	24K	36K

ON-OFF & INVERTER IDU Panels



ON-OFF Panels



INVERTER Panels

ON-OFF & INVERTER ODU Panels



ON-OFF Panels



INVERTER Panels

COOLING ONLY 60Hz ON-OFF

Model No.			ZMSB-09CNT110	ZMSB-09CNT	ZMSB-12CNT110	ZMSB-12CNT	ZMSB-18CNT	ZMSB-24CNT	ZMSB-30CNT	ZMSB-36CNT
Type			Cooling only	Cooling only	Cooling only	Cooling only	Cooling Only	Cooling Only	Cooling Only	Cooling Only
Control type			Remote	Remote	Remote	Remote	Remote control	Remote control	Remote control	Remote
Rated cooling capacity		Btu/h	9000	9,000	12000	12,000	18000	24,000	30,000	36000
Rated heating capacity		Btu/h	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
EER for cooling		W/W	2.87	2.72	2.80	2.73	2.74	2.73	2.85	3.05
COP for heating		W/W	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
Moisture removal		Liters/h	1	1.0	1.3	1.2	1.8	2.2	3.0	2.7
Pressure	High(DP)	MPa	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Low(SP)	MPa	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Indoor noise level at cooling	High	dB(A)	38	38	41	41	48	50	51	52
	Med.	dB(A)	36	35	37	38	45	46	47	50
	Low	dB(A)	32	32	34	34	40	42	43	48
Outdoor noise level		dB(A)	50	52	51	51	52	62	58	60
Power supply			115V~/60Hz/1P	208-230V~/60Hz/1P	115V~/60Hz/1P	208-230V~/60Hz/1P	208-230V~/60Hz/1P	208-230V~/60Hz/1P	208-230V/60Hz/1P	208-230V~/60Hz/1P
Voltage Range		V	115V~	198~253	115V~	198~253	198~253	198~253	198~253	230
Rated current	Cooling	A	8.3	4.5	11.4	6.1	9.2	12.3	14	15.7
	Heating	A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
Rated input	Cooling	W	919	970	1255	1288	1925	2575	3085	3459
	Heating	W	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
Max Current	Cooling	A	10.8	5.9	14.3	8.8	12.5	16.0	18.0	20.4
	Heating	A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
Max Power input	Cooling	W	1195	1260	1450	1700	2500	3350	3740	3744
	Heating	W	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
Refrigerant			R410A/370g	R410A/380g	R410A/470g	R410A/460g	R410A/760g	R410A/1100g	R410A/1650g	R410A
Compressor		Type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Evaporator			φ7×2	φ7×1	φ7×2	φ7×1	φ7×2	φ7×2	φ7×2	φ7×2
Condenser			φ5×1	φ5×1	φ5×1	φ5×1	φ5×1	φ7×1	φ5×2	φ7×2
Indoor air circulation(Cooling)		m³/h	500	380	520	540	820	1000	1300	1460
Indoor fan type			Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow
Indoor fan speed H/M/L	Cooling	rpm	1270/1150/1050/900/800	1200/1100/1000/900/800	1400/1260/1100/900/850	1270/1170/1050/900/850	1400/1200/1100/900/850	1280/1200/1050/900/780	1270/1270/1100/900/900	1270/1190/1110/1030/950
	Heating	rpm	/	N.A	N.A	N.A	N.A	N.A	N.A	/
	Dry	rpm	1270	1200	1400	1270	1400	1280	1270	1270
	Sleep	rpm	900	900	900	900	900	900	900	950
Indoor fan motor output		W	20	15	20	20	25	48	65	45
Outdoor fan type			Propeller	Propeller	Propeller	Propeller	Propeller	850	Propeller	Propeller
Outdoor fan speed		rpm	895	895	860	860	860	860	890	810
Outdoor fan motor output		W	22	25	31	31	31	70	54	75
Connecting Pipe	Gas	Inches	3/8"	3/8"	3/8"	3/8"	1/2"	5/8"	5/8"	5/8"
	Liquid	Inches	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Connecting Wiring		Size x Core number	3×1.5mm2	3×1.0mm2	3×1.5mm2	3x1.0mm2	3×1.5mm2	4x0.75mm2	4x0.75mm2	4×0.75mm²
Drainage Pipe			O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm
Suitable area		m²	9~16	9~16	15~23	15~23	20~35	30~50	50~65	40~60
Net dimensions (W x D x H)	Indoor	mm	777×250×201	698×255×190	777×250×201	777×250×201	910×294×206	1010×315×220	1186×340×258	1186×340×260
	Outdoor	mm	654×276×507	654×276×507	777×290×498	777×290×498	795×305×549	886×357×605	920×380×699	900*805*360
Net weight	Indoor	kg	8	6	8	7	10	13	16	18
	Outdoor	kg	20	20	25	24	30	40	50	59
Packing dimensions (W x D x H)	Indoor	mm	840×315×260	764×325×257	840×315×260	840×315×260	979×372×277	1096×390×297	1262×420×337	1262×420×337
	Outdoor	mm	700×315×545	700×315×545	818×325×520	818×325×520	835×340×585	910×392×633	960×430×732	1020×475×845
Gross weight with pipe	Indoor	kg	10	8	10	9	13	16	20	22
	Outdoor	kg	23	23	28	27	34	46	55	68
Loading Capacity 40HQ with pipe		PCS	335	360	310	310	245	184	134	102

COOLING ONLY 60Hz INVERTER

Model No.			ZMSB-09CVT110	ZMSB-09CVT	ZMSB-12CVT110	ZMSB-12CVT	ZMSB-18CVT	ZMSB-24CVT
Type			Cooling only	Cooling only	Cooling only	Cooling only	Cooling only	Cooling only
Control type			Remote	Remote	Remote	Remote	Remote	Remote
Rated cooling capacity		Btu/h	9500(2047~9555)	9500(2047~9555)	12000(2050~12625)	12000(2730~12965)	18000(4095~19500)	24000(5120~24900)
Rated heating capacity		Btu/h	N/A	N/A	N.A	N/A	N/A	N/A
EER for cooling		W/W	2.80	2.80	2.81	2.80	2.82	2.81
COP for heating		W/W	N/A	N/A	N.A	N/A	N/A	N/A
Moisture removal		Liters/h	1.3	1.3	1.3	1.3	1.8	2.5
Pressure	High(DP)	MPa	4.5	4.5	4.5	4.5	4.5	4.5
	Low(SP)	MPa	1.9	1.9	1.9	1.9	1.9	1.9
Indoor noise level at cooling	High	dB(A)	38	38	38	38	43	49
	Med.	dB(A)	34	34	34	34	38	45
	Low	dB(A)	30	30	30	30	33	41
Outdoor noise level		dB(A)	52	52	52	52	52	52
Power supply			115V~/60Hz/1P	208~230V~/60Hz/1P	115V~/60Hz/1P	208~230V~/60Hz/1P	208~230V~/60Hz/1P	208~230V~/60Hz/1P
Voltage Range		V	105~125	165~265	105~125	165~265	165~265	165~265
Rated current	Cooling	A	11.3(2.0~13.0)	5.9(1.2~7.3)	11.3(2.0~13.0)	5.9(1.2~7.3)	8.9(1.3~12.0)	11.8(1.5~13.5)
	Heating	A	N.A	N.A	N.A	N.A	N/A	N/A
Rated input	Cooling	W	1250(200~1450)	1255(250~1600)	1250(200~1450)	1255(250~1600)	1870(300~2100)	2500(350~2800)
	Heating	W	N.A	N/A	N.A	N/A	N/A	N/A
Max Current	Cooling	A	13.0	6.3 改为 7.3	13.0	6.3 改为 7.3	12.0	13.5
	Heating	A	N.A	N/A	N.A	N/A	N/A	N/A
Max Power input	Cooling	W	1450	1450 改为 1600	1450	1450 改为 1600	2100	2800
	Heating	W	N.A	N/A	N.A	N/A	N/A	N/A
Refrigerant			R410A/530g	R410A/530g	R410A/530g	R410A/530g	R410A/680g	R410A/990g
Compressor		Type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Evaporator			φ7×2	φ7×2	φ7×2	φ7×2	φ7×2	φ7×2
Condenser			φ5×1	φ5×1	φ5×1	φ5×1	φ5×1	φ5×2
Indoor air circulation(Cooling)		m³/h	500	500	500	500	950	1000 改为 1300
Indoor fan type			Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow
Indoor fan speed H/M/L	Cooling	rpm	1250/1150/950 /750/600	1250/1150/950 /750/600	1250/1150/950 /750/600	1250/1150/950 /750/600	1350/1250/1050 /850/750	1270/1200/1100 /920/850
	Heating	rpm	N.A	N/A	N.A	N/A	N/A	N/A
	Dry	rpm	1250	1250	1250	1250	1350	1270
	Sleep	rpm	750	750	750	750	850	920
Indoor fan motor output		W	20	14	20	14	25	45
Outdoor fan type			Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Outdoor fan speed		rpm	1000	1000	1000	1000	1000	1000
Outdoor fan motor output		W	33	33	33	33	33	33
Connecting Pipe	Gas	Inches	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
	Liquid	Inches	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Connecting Wiring		Size*Core number	4×1.5mm²	4×1.0mm²	4×1.5mm²	4×1.0mm²	4×0.75mm²	4×0.75mm²
Drainage Pipe			O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm
Suitable area		m2	15~23	15~23	15~23	15~23	20~35	30~50
Net dimensions (W x D x H)	Indoor	mm	777×250×201	777×250×201	777×250×201	777×250×201	910×294×206	1010×315×220
	Outdoor	mm	777×290×498	777×290×498	777×290×498	777×290×498	853×349×602	853×349×602
Net weight	Indoor	kg	8	8	8	8	10	13
	Outdoor	kg	21	21	21	21	26	30
Packing dimensions (W x D x H)	Indoor	mm	840×315×260	840×315×260	840×315×260	840×315×260	979×372×277	1096×390×297
	Outdoor	mm	818×325×520	818×325×520	818×325×520	818×325×520	890×385×628	890×385×628
Gross weight with pipe	Indoor	kg	10	10	10	10	13	16
	Outdoor	kg	24	24	24	24	30	35
Loading Capacity 40HQ with pipe		PCS	310	310	310	310	212	196

HEAT PUMP 50Hz INVERTER

Model			ZMSA-09HVT	ZMSA-12HVT	ZMSA-18HVT	ZMSA-24HVT	ZMSA-36HVT
Type			Heating pump	Heating pump	Heating pump	Heating pump	Heating pump
Control type			remote	remote	remote	remote	remote
Rated cooling capacity	Btu/h		9000	12000(2047~12215)	18,000	24000	30824
	W		2638	3517(600~3580)	5,275	7034	9034
Rated heating capacity	Btu/h		9500	12000(2047~12215)	18,500	24500	32830
	W		2784	3517(600~3580)	5,420	7180	9622
EER for cooling		Btu/h.w; W/W	3.25	3.23	3.21	3.22	2.76
COP for heating		W/W	3.63	3.64	3.51	3.54	2.93
Moisture removal		Liters/h	1.0	1	1.8	2.4	3
Indoor noise level at cooling	High	dB(A)	41	42	45	50	47
	Med.	dB(A)	38	39	42	47	44
	Low	dB(A)	35	36	39	44	40
Outdoor noise level		dB(A)	53	52	55	59	56
Power supply			220~240V~/50Hz/1P	220~240V~/50Hz/1P	208~230V~/50Hz or 60Hz/1P	208~230V~/50Hz or 60Hz/1P	208~230V~/60Hz/1P
Voltage Range		V	165~265	165~265	165~265	165~265	198~253
Rated current	Cooling	A	3.8(1.3~6.8)	5.0(1.4~8.5)	7.29(1.4~12.0)	9.69(1.7~12.0)	14.82(1.9~17.2)
	Heating	A	3.6(1.3~6.8)	4.5(1.4~7.8)	6.85(1.4~13.0)	9.0(1.7~13.0)	14.87(2.0~17.5)
Rated input	Cooling	W	812(280~1300)	1088(300~1380)	1643(300~2500)	2184(350~2500)	3273(300~3900)
	Heating	W	767(260~1300)	966(300~1350)	1544(300~2300)	2028(350~2500)	3284(300~4000)
Max current		A	6.8/6.8	8.5/7.8	9.5/13.0	12.0/13.0	17.2/17.5
Max input		W	1300/1300	1380/1350	2150	2850	3900
Refrigerant/Charge		Gram	R410A/620g	R410A/630g	R410A/1310g	R410A/1360g	R410A/2110g
Compressor	Type		Rotary	Rotary	Rotary	Rotary	Rotary
	MFG		RECHI	RECHI	GMCC	GMCC	SANYO
Indoor air circulation Cooling/heating		m³/h	480/500	530/580	800/800	1000/1100	1350/
Indoor fan type			Cross Flow	Cross flow	Cross flow	Cross flow	Cross Flow
Indoor fan motor output		W	20	21	25	45	45
Outdoor fan type			Propeller fan	Propeller	Propeller	Propeller fan	Propeller fan
Outdoor fan speed		rpm	1000	1000	1000	850	850
Outdoor fan motor output		W	33	33	52	85	85
Connecting Pipe	Gas	Inches	3/8"	Φ9.52 (3/8")	Φ9.52 (3/8")	Φ12(1/2")	5/8"
	Liquid	Inches	1/4"	Φ6(1/4")	Φ6(1/4")	Φ6(1/4")	1/4"
Connecting Wiring		Size x Core number	4×1.0mm2	4×1.0mm2	4×0.75	4×0.75	4x0.75mm2
Suitable area		m2	9~16	15~23	25~40	30~50	65~85
Net dimensions(L×H×D)	Indoor	mm	777×250×201	777×250×201	910×294×206	1010×315×220	1186×340×258
	Outdoor	mm	777×290×498	777×290×498	853×349×602	920×380×699	953×433×808
Net weight	Indoor	kg	7.5	8	10	13	17
	Outdoor	kg	23	21.5	31	37.5	62
Packing dimensions(L×H×D)	Indoor	mm	850×320×275	850×320×275	979×372×277	1096×390×297	1262×420×337
	Outdoor	mm (With 3m pipe)	818×325×520	818×325×520	890×385×628	960×400×732	1020×475×845
Gross weight	Indoor	kg	9.5	10	13	16	21
	Outdoor	kg	26	24.5	34.5	41	69

COOLING ONLY 50Hz ON-OFF



Model No.			ZMSA-09CNT	ZMSA-12CNT	ZMSA-18CNT	ZMSA-24CNT
Type			Cooling only	Cooling only	Cooling only	Cooling only
Rated cooling capacity		Btu/h	9,000	12,000	18,000	24,000
EER for cooling		W/W	2.82	2.91	3.11	3.06
Moisture removal		Liters/h	1.0	1.5	1.8	2.5
Pressure	High(DP)	MPa	4.5	4.5	4.5	4.5
	Low(SP)	MPa	1.9	1.9	1.9	1.9
Indoor noise level at cooling	High	dB(A)	38	40	45	49
Outdoor noise level		dB(A)	47	49	55	59
Power supply			220~240V~/50Hz/1P			
Voltage Range		V	198~242	198~242	160~264	198~242
Rated current	Cooling	A	4.4	5.8	7.9	11.0
Rated input	Cooling	W	935	1210	1695	2300
Max Current	Cooling	A	5.8	7.5	10.2	14.3
Max Power input	Cooling	W	1216	1573	2200	2990
Refrigerant/Charge		Gram	R410A/345g	R410A/470g	R410A/700g	R410A/1300g
Compressor		Type	Rotary	Rotary	Rotary	Rotary
		MFG	GMCC	GMCC	Highly	HIGHLY
Connecting Pipe	Gas	Inches	3/8"	3/8"	1/2"	5/8"
	Liquid	Inches	1/4"	1/4"	1/4"	1/4"
Connecting Wiring		Size x Core number	1.0x3	1.0x3	3×1.5	0.75x4
Suitable area		m2	9~16	15~23	20~35	30~50
"Net dimensions (W x H x D)"	Indoor	mm	698×255×190	777×250×201	910×294×206	1010×315×220
	Outdoor	mm	722×459×276	777×290×498	817×328×553	886×605×357
Net weight	Indoor	kg	6	8	10	13
	Outdoor	kg	22	24	32	42
"Packing dimensions (W x H x D)"	Indoor	mm	764×325×257	840×315×260	979×372×277	1096×390×297
	Outdoor	mm	765×478×310	818×325×520	858×356×585	910×633×392
Gross weight	Indoor	kg	8	10	13	16
	Outdoor	kg	25	27	37	47

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