

Cooling Only R32 Non - Invertor

Technical Specifications

			9K	12K	18K
Type			Cooling only	Cooling only	Cooling only
Control type			remote	remote	remote
Rated cooling capacity		Btu/h	9000	12000	18000
EER for cooling		W/W	3.2	3.38	3.1
Moisture removal		Liters/h	/	1	1.5
Indoor noise level at cooling	High	dB(A)	39	39	42
	Med.	dB(A)	35	35	39
	Low	dB(A)	32	32	35
Outdoor noise level		dB(A)	33	52	53
Power supply			220-240V~/50Hz/1P	220-240V~/50Hz/1P	220-240V~/50Hz/1P
Voltage Range		V	198~242	198~242	198~242
Rated current		A	3.7	4.7	7.6
Rated input		W	824	1041	1702
Max current		A	4.81	6.11	9.88
Max input		W	1071.2	1353.3	2212.6
Refrigerating System					
Refrigerant/Charge		Gram	R32/310g	R32/330g	R32/520g
Compressor	Type		Rotary	Rotary	Rotary
	Model		KSM85V01VDZL	GSG125UY-A6DT	GSL175UY-C7EU
	MFG		GMCC	HIGHLY	HIGHLY
	Capacity	W	2530	3930	5690
	Input	W	662	870	1208
	Rated current(RLA)	A	3.12	3.9	5.6
	Locked rotor Amp(LRA)	A	16	25	36
	Capacitor	uF	/	/	/
	Refrigerant oil/oil charge	ml	300	330	450
Evaporator					
Indoor coil	a.Number of rows		2	2	2
	c.Fin spacing	mm	1.3	1.3	1.4
	d.Fin type (code)		Hydrophilic	Hydrophilic	Hydrophilic
	e.Tube outside dia.and type	mm	Ø5 Inn. Grv.	Ø5 Inn. Grv.	Ø7 Inn. Grv.
	g.Number of circuits		1 in 3 out	1 in 3 out	3 in 3 out
Condenser			single-arranged	single-arranged	single-arranged
outdoor coil	a.Number of rows		1	1	1
	c.Fin spacing	mm	1.2	1.2	1.2
	d.Fin type (code)		Slit Fin	Slit Fin	Slit Fin
	e.Tube outside dia.and type	mm	Ø5 Inn. Grv.	Ø5 Inn. Grv.	Ø5 Inn. Grv.
	g.Number of circuits		1 in 1 out	2 in 1 out	2 in 1 out
Fan System					
Indoor air circulation	Cooling/heating	m ³ /h	500	460	750
Indoor fan type			Cross flow	Cross flow	Cross flow
Indoor fan speed H/M/L	Cooling	rpm	1270/1170/1110/1050/980/900/850	1270/1170/1100/1050//1000/900/850	1300/1200/1150/1100/1000/900/800
	Dry	rpm	900	900	900
	Sleep	rpm	900	900	900
Indoor fan motor output		W	16(WELLING)	16(WELLING)	25(BROAD OCEAN)
Outdoor fan type			Propeller	Propeller	Propeller
Outdoor fan speed		rpm	895	860	820
Outdoor fan motor output		W	25(BROAD OCEAN)	25(BROAD OCEAN)	44(BROAD OCEAN)

Cooling Only R32 Non - Invertor

			9K	12K	18K
Fan System					
Indoor air circulation	Cooling/heating	m ³ /h	500	460	750
Indoor fan type			Cross flow	Cross flow	Cross flow
Indoor fan speed H/M/L	Cooling	rpm	1270/1170/1110/1050/980/900/850	1270/1170/1100/1050//1000/900/850	1300/1200/1150/1100/1000/900/800
	Dry	rpm	900	900	900
	Sleep	rpm	900	900	900
Indoor fan motor output		W	16(WELLING)	16(WELLING)	25(BROAD OCEAN)
Outdoor fan type			Propeller	Propeller	Propeller
Outdoor fan speed		rpm	895	860	820
Outdoor fan motor output		W	25(BROAD OCEAN)	25(BROAD OCEAN)	44(BROAD OCEAN)
Connections					
Connecting Pipe	Gas	Inches	3/8"	1/2"	1/2"
	Liquid	Inches	1/4"	1/4"	1/4"
Connecting Wiring	Size x Core number		1.0x3	1.0x3	1.5x3
Others					
Suitable area		m ²	9~16	14~22	20~35
Net dimensions	Indoor	mm	777×250×201	777×250×201	910×294×206
(W x H x D)	Outdoor	mm	712×276×459	777×290×498	853×349×602
Net weight	Indoor	kg	8	8	10
	Outdoor	kg	22	25	34
Packing dimensions	Indoor	mm	850×320×275	850×320×275	979×372×277
(W x H x D)	Outdoor	mm	765×310×481	818×325×520	890×385×628
Singer (5m pipe)			775*325*530	838*338*540	
Gross weight	Indoor	kg	10	10	13
	Outdoor	kg	24/25(with pipe)	28/29(with pipe)	38/39(with pipe)
Loading Capacity w/o pipe	40'HQ		360	290	215



Cooling & Heating R32 Non - Inverter

Technical Specifications			
Factory model		24000BTU	
Type		heating pump	
Control type		remote	
Rated cooling capacity		Btu/h;W	22000;6450
Rated heating capacity		Btu/h;W	23000;6740
EER for cooling		W/W	3.21
Class in Cooling			A
COP for heating		W/W	3.61
Class in Heating			A
Moisture removal		Liters/h	2.2
Pressure	High(DP)	MPa	4.5
	Low(SP)	MPa	1.2
Indoor noise level(S/H/M/L/Mute)		dB(A)	43/41/38/37/35
Outdoor noise level		dB(A)	54
Electrical Data			
Power supply		220-240V~/50Hz/1P	
Voltage Range		V	198~242
Rated current	Cooling	A	9.5
	Heating	A	8.8
Rated input	Cooling	W	2005
	Heating	W	1865
Annual energy consumption(cooling)		kwh	1003
Max Current	Cooling	A	14.8
	Heating	A	17.5
Max Power input	Cooling	W	2700
	Heating	W	3150
Refrigerating&Fan System			
Refrigerant/Charge		kg	R32/0.880
Compressor	Type		Rotary
	Model		GSL236CV-C8DU4
	Brand		HIGHLY
Expansion device		Capillary tube	
Indoor air circulation(Cooling/Heating)		m ³ /h	780/800
Indoor fan motor	type		Cross flow 22001-000272
	Output	W	25
	Capacitor	uF	1.5
Indoor fan speed H/M/L	Cooling	rpm	1300/1200/1150/1100/1000/1000/900
	Heating	rpm	1300/1200/1150/1100/1000/900/800
	Dry	rpm	1000
	Sleep	rpm	1000/900
Evaporator	a.Number of rows		2
	b.Tube pitch(a)x row pitch(b)	mm	21×12.7
	c.Fin spacing	mm	1.4
	d.Fin type		Louver Fin
	e.Tube outside dia.and type	mm	Φ7,innergroove tube
	f.Number of U tube	mm	15
	g.Number of circuits		3 in 3 out
Outdoor fan motor	type		Propeller fan 22001-000089
	Output	W	44
	Capacitor	uF	3.0
	Speed	r/min	820
Condenser	a.Number of rows		2
	b.Tube pitch(a)x row pitch(b)	mm	21×18.2
	c.Fin spacing	mm	1.5
	d.Fin type		Louver Fin
	e.Tube outside dia.and type	mm	Φ7,innergroove tube
	f.Number of U tube	mm	26
	g.Number of circuits		3 in 3 out

Cooling & Heating R32 Non - Invertor

Factory model			24000BTU
Connections			
Connecting Pipe	Gas	mm	Φ12(1/2")
	Liquid	mm	Φ6(1/4")
Connecting Wiring	Core number x Size		4×0.75;2×0.75
Others			
Suitable area		m ²	27~45
Max. refrigerant pipe length		m	15
Max. difference in level		m	5
Operation temperature range		℃	16~31
Ambient temperature range	Outdoor	℃	Cooling:15-43/Heating:-7-24
	Indoor	℃	Cooling:17-32/Heating:0-27
Net dimensions (W x D x H)	Indoor	mm	910×294×206
	Outdoor	mm	853×349×602
Net weight	Indoor	kg	10
	Outdoor	kg	39
Packing dimensions (W x D x H)	Indoor	mm	979×372×277
	Outdoor(w/o pipe)	mm	890×385×628
	Outdoor(w/i pipe)	mm	890×385×628
Gross weight	Indoor	kg	13
	Outdoor(w/o pipe)	kg	41.5
	Outdoor(w/i pipe)	kg	43
Loading Capacity w/o pipe	20'/40'GP/40'HQ		212
Loading Capacity w/i pipe	20'/40'GP/40'HQ		212



Cooling Only R32 - Invertor

Technical Specifications			9K	12K	18K	24K
Type	cooling only		cooling only	cooling only	cooling only	cooling only
Control type	remote		remote	remote	remote	remote
Rated cooling capacity		Btu/h	9000(3583~11942)	12000(3412~12624)	18000(5118~19450)	24000(5118~25000)
EER for cooling		W/W	3.22	3.38	3.12	3.12
Moisture removal		Liters/h	0.8	1	1.5	2.6
Indoor noise level at cooling	High	dB(A)	38	38	46	50
	Med.	dB(A)	35	35	40	45
	Low	dB(A)	31	31	35	38
Outdoor noise level		dB(A)	50	52	54	55
Electrical Data						
Power supply	220-240V~/50Hz/1P		220-240V~/50Hz/1P	220-240V~/50Hz/1P	220-240V~/50Hz/1P	220-240V~/50Hz/1P
Voltage Range		V	165~265	165~265	165~265	165~265
Rated current		A	3.67(1.3~6.0)	4.66(1.0~7.0)	7.58(1.6 ~ 12)	10.11(1.5 ~ 13)
Rated input		W	819(220~1250)	1041(220~1500)	1691(300 ~ 2000)	2254(350 ~ 2400)
Max current		A	4.77	6.06	9.85	13.14
Max input		W	1065	1353	2198	2930
Refrigerating System						
Refrigerant/Charge		Gram	R32/290g	R32/400g	R32/640g	R32/690g
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		35W2ALLB9F#MC	KSK89D35UEZE3	GSD113RKQF6JV6B	KSN140D33UFZ3
	MFG		RECHI	GMCC	HIGHLY	GMCC
	Capacity	W	2480	2790	4090	4370
	Input	W	850	722	905	1115
	Rated current(RLA)	A	3.9	4.95	3.2	6.8
	Locked rotor Amp(LRA)	A	20	/	22	/
	Capacitor	uF	/	/	/	/
	Refrigerant oil/oil charge	ml	/	/	400	420
Evaporator						
Indoor coil	a.Number of rows		1	2	2	2
	b.Fin spacing	mm	1.3	1.3	1.4	1.4
	c.Fin type (code)		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	d.Tube outside dia.and type	mm	Ø7 Inn. Grv.	Ø5 Inn. Grv.	Ø7 Inn. Grv.	Ø7 Inn. Grv.
	e.Number of circuits		1	3	3	4 in 4 out
Condenser			single-arranged	single-arranged	single-arranged	double-arranged
outdoor coil	a.Number of rows		1	1	1	2
	b.Fin spacing	mm	1.2	1.3	1.3	1.2
	c.Fin type (code)		Slit Fin	Slit Fin	Slit Fin	Slit Fin
	d.Tube outside dia.and type	mm	Ø5 Inn. Grv.	Ø7 Inn. Grv.	Ø7 Inn. Grv.	Ø5 Inn. Grv.
	e.Number of circuits		1	1	1	4 in 4 out
Fan System						
Indoor air circulation		m³/h	500	450	810	1100
Indoor fan type			Cross Flow	Cross Flow	Cross Flow	Cross flow
Indoor fan speed H/M/L	Cooling	rpm	1300/1200/1120/1050/980/900/800	1300/1200/1120/1050/980/900/800	1350/1250/1150/1050/950/850/750	1270/1200/1100/1000/920/850/750
	Dry	rpm	900	900	850	850
	Sleep	rpm	900	900	850	850
Indoor fan motor output		W	14(BROAD OCEAN)	16(WELLING)	45(BROAD OCEAN)	45(BROAD OCEAN)/45(WELLING)
Outdoor fan type			22001-000548	22001-000548	22001-000493	22001-000493
Outdoor fan speed		rpm	1000	1000	1000	1000
Outdoor fan motor output		W	33(WELLING)	33(WELLING)	33(WELLING)	33(WELLING)
Connections						
Connecting Pipe	Gas	Inches	3/8"	3/8"	1/2"	1/2"
	Liquid	Inches	1/4"	1/4"	1/4"	1/4"
Connecting Wiring	Size x Core number		4x1.0	4x1.0	4x1.5	4x1.5
Others						
Suitable area		m²	9~16	14~22	20~35	27~45
Net dimensions	Indoor	mm	698×255×190	777×250×201	910×294×206	1010×315×220
(W x H x D)	Outdoor	mm	712×276×459	712×276×459	795×305×549	853×349×602

Cooling Only R32 - Invertor

			9K	12K	18K	24K
Net weight	Indoor	kg	6.5	7.5	9	13
	Outdoor	kg	19	20	25	29
Packing dimensions	Indoor	mm	764×325×257	850×320×275	979×372×277	1096×390×297
(W x H x D)	Outdoor	mm	765×310×481	765×310×481	835× 328×575 835×340×585	890×385×628
Gross weight	Indoor	kg	8.5	9.5	12	16
	Outdoor	kg	21.5/22.5(with pipe)	22/23(with pipe)	28	32/33 (with pipe)
Loading Capacity w/o pipe	40'HQ		372	360	250/235	198

