



NEW REFRIGERANT GAS



CARE OF ENVIRONMENT

R-32 refrigerant has 70% less potential global warming than R410A, and does not affect the ozone layer

	R-32	R410A	R22
Potential of exhaustion of Ozone	0	0	0,05
Potential of heating global	675	2.090	1.810

Features

- Timer
- Sleep Mode
- Backlit Remote
- 360° Air Flow
- Dust Filter
- Hot/Cold
- LED Display
- Auto Swing
- Golden Fin
- R-32 Refrigerant

Appearance



Outdoor Unit 6000Btu/h

360° Round Flow

Unique seamless airflow louver design allows cool air to diffuse and sink in 360°, offering uniform cooling experience throughout the space.



MODEL		TOS-12HRDN8-R TOU-12HRDN8-RI	TOS-18HRDN8-R TOU-18HRDN8-RI
Power supply	V-Ph-Hz	220_240V_1Ph,FREQUENCY_50HZ	220_240V_1Ph,FREQUENCY_50HZ
Cooling (Standard conditions)	Capacity	Btu/h 12000	18000
	Input	W 1015	1550
	Current	A 4.5	6.9
	EER	W/W 3.47	3.40
	Capacity	Btu/h 13000	19000
Heating (Standard conditions)	Input	W 1020	1560
	Current	A 4.5	6.8
	EER	W/W 3.74	3.57
	COP	W/W 3.74	3.57
Rated Power Input	W	1850	2950
Rated Current	A	9.0	13.5
Starting current	A	0	0
Compressor	Model	KSN98D64UFZ3	KSN140D21UFZ
	Type	ROTARY	ROTARY
	Brand	GMCC	GMCC
	Capacity	W 1930/3100 ±3%	4385
	Input	W 292/765 ±3%	1140
	Rated current(RLA)	A 2.15/4.65 ±3%	7.50
	Locked rotor Amp(LRA)	A /	/
	Thermal protector	/	/
	Thermal protector position	NA	/
	Capacitor	µF /	/
	Refrigerant oil/oil charge	ml ESTER OIL VG74 300±10	VG74 440
	Model	ZKFN-45-8-2	ZKFN-45-8-2
Indoor fan motor	Input	W /	/
	Capacitor	uF /	/
	Speed(Hi/Mi/Lo)	r/min 800/750/700	800/750/700
Indoor coil	a.Number of rows	2	2
	b.Tube pitch(a)x row pitch(b)	mm 21x13.37	21x13.37
	c.Fin spacing	mm 1.3	1.3
	d.Fin type (code)	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm 1375*210*13.37+1305*210*13.37	1375*210*13.37+1305*210*13.37
	g.Number of circuits	4	4
Indoor air flow (Hi/Mi/Lo)	m3/h 620/520/330	660/540/300	
Indoor noise level (Hi/Mi/Lo)	dB(A) 42/38.5/31.5	44/41/31.5	
Indoor unit	Dimension(W*D*H)	mm 570x570x245	570x570x245
	Packing (W*D*H)	mm 715x640x295	715x640x295
	Net/Gross weight	kg 16.1/18.8	16.2/19
	Model	ZKFN-34-10-1-3	ZKFN-34-10-1
Outdoor fan motor	Input	W /	/
	Capacitor	uF 0	0
	Speed	r/min 780/600	760/650
	a.Number of rows	1	2
Outdoor coil	b.Tube pitch(a)x row pitch(b)	mm 21x22	21x22
	c.Fin spacing	mm 1.3	1.3
	d.Fin type (code)	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm Φ7,Inner groove tube	Φ7,Inner groove tube
Outdoor unit	f.Coil length x height x width	mm 745*504*22	860*504*44
	g.Number of circuits	2	4
	Outdoor air flow	m3/h 2200	2100
	Outdoor noise level	dB(A) 57	58
Outdoor unit	Dimension(W*D*H)	mm 765x303x555	805x330x554
	Packing (W*D*H)	mm 887x337x610	915x370x615
	Net/Gross weight	kg 26.6/29	32.5/35.2
Refrigerant type	kg R32/0.71	R32/1.15	
Design pressure	MPa 4.3/1.7	4.3/1.7	
Refrigerant piping	Liquid side/ Gas side	mm(inch) 6.35mm(1/4in)/9.52mm(3/8in)	6.35mm(1/4in)/12.7mm(1/2in)
	Max. refrigerant pipe length	m 25	30
	Max. difference in level	m 10	20
Connection wiring	1.5x4//	1.5x4//	
Plug type	//no-plug	//no-plug	
Thermostat type	Remote Control	Remote Control	
Operation temperature	°C 17~30	17~30	
Room temperature	°C Indoor(cooling/ heating) 16~32/0~30	16~32/0~30	
Application area (Cooling Standard)	°C Outdoor(cooling/heating) -15~50/-20~24	-15~50/-20~24	
	m²	16~23	24~35



Inverter Quattro

The exclusive TechnoStar Inverter Quattro™ technology empowers TechnoStar inverter compressor to be one of the best AC compressors in the world. Under all conditions, TechnoStar inverter compressors operate powerfully, efficiently, speedily, and steadily at the same time