

Wall Split

Residential Series **INVERTER**

MODEL		TSAF-09HRDN8	TSAF-12HRDN8	TSAF-18HRDN8	TSAF-24HRN8	
Power Supply	V-Ph-Hz	220V_1Ph,FREQUENCY_60HZ	220V_1Ph,FREQUENCY_60HZ	220_230V_1Ph,FREQUENCY_60HZ	220_230V_1Ph,FREQUENCY_60HZ	
Cooling (Standard conditions)	Capacity	Btu/h	9000	12000	18000	24000
	Input	W	710	1080	1580	2150
	Current	A	5.8	7.3	7	9.5
	EER	W/W	3.72	3.26	3.34	3.2
Heating (Standard conditions)	Capacity	Btu/h	10000	12000	18000	24000
	Input	W	740	900	1580	1750
	Current	A	6	6.2	7	7.8
	COP	W/W	3.96	3.74	3.25	3.68
Rated Power Input	W	2200	2000	2500	2840	
Rated Current	A	13.5	13	13.5	13	
Starting current	A	/	/	0	/	
Compressor	Model	KSK103D32UEZ31	KSK103D32UEZ31	KSK103D32UEZ31	KSN140D33UFZB3	
	Type	ROTARY	ROTARY	ROTARY	ROTARY	
	Brand	GMCC	GMCC	GMCC	GMCC	
	Capacity	W	2020/3245 +3%	2020/3245 +3%	2020/3245 +3%	2690/4350
	Input	W	332/850 +3%	332/850 +3%	332/850 +3%	434/1127
	Rated current(RLA)	A	2.42/5.70 +3%	2.42/5.70 +3%	2.42/5.70 +3%	3.18/6.9
	Locked rotor Amp(LRA)	A	/	/	/	/
	Thermal protector	/	/	/	/	/
	Thermal protector position	/	/	/	/	/
	Capacitor	µF	/	/	/	/
Refrigerant oil/oil charge	ml	ESTER OIL VG74 280 ±10	ESTER OIL VG74 280 ±10	ESTER OIL VG74 280 ±10	ESTER OIL VG74 420±10ml	
Indoor fan motor	Model	ZKFP-30-8-357L	ZKFP-30-8-357L	ZKFP-35-10-188L	ZKFP-45-10-30L	
	Input	W	/	/	55	
	Capacitor	µF	/	/	/	
	Speed(Hi/Mi/Lo)	r/min	1000/900/850	1050/950/900	1150/850/750	1050/910/840
Indoor coil	a.Number of rows	2	2	2	2	
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6+18x17.3	19.5x11.6	19.5x11.6	19.5x11.6
	c.Fin spacing	mm	1.3	1.3	1.3	1.3
	d.Fin type (code)	/	/	/	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Ø5.7	Ø5.7	Ø5,inner groove tube	Ø5,inner groove tube
	f.Coil length x height x width	mm	530x72x17.3+530x117x23.2+530x108x17.3	530x195x23.2+530x97.5x23.2	770x195x23.2+770x117x23.2	820x214.5x23.2+820x117x23.2
	g.Number of circuits	3	3	4	6	
Indoor air flow (Hi/Mi/Lo)	m ³ /h	496/426/403	630/440/350	850/650/550	1150/840/670	
Indoor noise level (Hi/Mi/Lo)	dB(A)	36.5/32.5/30.5	39/34/32	43.5/41.5/33	45/39.5/36	
Indoor unit	Dimension(W*D*H)	mm	723x199x286	723x199x286	975x218x308	1055x231x330
	Packing (W*D*H)	mm	780x270x365	780x270x365	1035x295x385	1130x405x310
	Net/Gross weight	kg	7.2/9.5	7.5/9.8	10.0/13.2	12/15.5
Outdoor fan motor	Model	ZKFN-25-10-5L	ZKFN-34-10-1L-1	ZKFN-25-10-5L	ZKFN-34-10-1L-1	
	Input	W	/	/	/	
	Capacitor	µF	/	/	/	
Outdoor coil	Speed	r/min	800/750	800/750	850/550	950/700/550
	a.Number of rows	1	1	2	2	
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	14.5x12.56	21x13.37	21x22
	c.Fin spacing	mm	1.2	1.2	1.4	1.3
	d.Fin type (code)	Unhydrophilic aluminium	Unhydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	
	e.Tube outside dia.and type	mm	Ø5,inner groove tube	Ø5,inner groove tube	Ø7,inner groove tube	Ø7,inner groove tube
	f.Coil length x height x width	mm	740x468x11.6	750x464x12.56	755*504*13.37+735*504*13.37	860*504*14
g.Number of circuits	2	2	4	6		
Outdoor air flow	m ³ /h	1800	1800	2100	2300	
Outdoor noise level	dB(A)	56	57	57	57	
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495	765x303x555	805x330x554
	Packing (W*D*H)	mm	835x300x540	835x300x540	887x337x610	915x370x615
	Net/Gross weight	kg	19.8/21.7	20.5/22.4	24.4/26.7	31.8/34.2
Refrigerant type	kg	R32/0.4	R32/0.55	R32/0.9	R32/1.1	
Design pressure	MPa	4.3/1.7	4.3/1.7	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)/9.52mm(3/8in)	6.35mm(1/4in)/12.7mm(1/2in)	9.52mm(3/8in)/15.9mm(5/8in)
	Max. refrigerant pipe length	m	25	25	30	30
	Max. difference in level	m	10	10	20	20
Connection wiring		1.5x4//	1.5x4//	1.6#x4//	1.6#x4//	
Plug type		//no-plug	//no-plug	//no-plug	//no-plug	
Thermostat type		(Remote Control)	(Remote Control)	(Remote Control)	(Remote Control)	
Operation temperature	°C	17~30	17~30	17~30	17~30	
Room temperature	Indoor(cooling/ heating)	°C	16~32/0~30	16~32/0~30	16~32/0~30	16~32/0~30
	Outdoor(cooling/heating)	°C	0~50/-15~24	0~50/-15~24	0~50/-15~24	0~50/-15~24
Application area (Cooling Standard)	m ²	12~18	16~23	24~35	29~43	
Qty 'per 20' 40' 40' HQ		132/276/308	132/276/308	92/198/225	78/165/190	



CARE OF ENVIRONMENT

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

NEW REFRIGERANT GAS

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

Appearance



Features

- Timer
- Auto Mode
- Auto Swing
- Super Turbo
- Dry Mode
- Refrigerant Leakage Detector
- Auto Fan Speed
- Backlit Remote
- Gear Control
- Sleep Mode
- Dust Filter
- Hot/Cold
- Golden Fin
- R410A Refrigerant
- Wifi (Optional)
- LED Display