

MODEL		TSAF-09HRN1	TSAF-12HRN1	TSAF-18HRN1	TSAF-24HRN1	
Power supply	V-Ph-Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	
Cooling (Standard conditions)	Capacity	Btu/h	9000	12000	18000	24000
	Input	W	1010	1291	1560	2330
	Current	A	4.5	5.64	6.88	10
	W/W		2.61	2.80	3.34	3.01
	EER		2.61	2.80	3.34	3.01
Heating (Standard conditions)	Capacity	Btu/h	9000	12000	18500	27000
	Input	W	940	1037	1465	2300
	Current	A	4.2	4.67	6.57	10
	W/W		2.81	3.39	3.60	3.41
	COP		2.81	3.39	3.60	3.41
Rated Power Input	W	1400	1850	2200	3300	
Rated Current	A	8	10	13	15	
Starting current	A	23	25	38	54.9	
Compressor	Model	KSM103V21UEZ	KSM130V21VEZ	KSF190V1VETB	KTG275V2VMP	
	Type	ROTARY	ROTARY	ROTARY	ROTARY	
	Brand	GMCC	GMCC	GMCC	GMCC	
	Capacity	W	2530	3920	5835/5875±3%	8470
	Input	W	1045±3%	1195±3%	1370/1470±3%	2015
	Rated current(RLA)	A	4.55±3%	5.20±3%	6.40/6.30±3%	9.2
	Locked rotor Amp(LRA)	A	23±10%	25±10%	38±10%	55
	Thermal protector	HPA-518/UP3-20	HPA-522	UP3-A6/HPA-340	/	
	Thermal protector position	INTERNAL	INTERNAL	INTERNAL	INTERNAL	
	Capacitor	µF	30	40	45	65
	Refrigerant oil/oil charge	ml	VG68 300±15	VG68 300±15	ESTER OIL VG74 410±15	VG74 750ml
	Indoor fan motor	Model	YKFG-13-4-38L-4	YKFG-13-4-38L-4	YKFG-28-4-3-14	YKFG-45-4-22
		Input	W	40	40	71
Capacitor		µF	12	12	15	3
Speed(Hi/Mi/Lo)		r/min	1200/950/800	1150/950/800	1180/1000/900	1200/1000/850
Indoor coil		a.Number of rows		2	2	2
	b.Tube pitch(a)x row pitch(c)	mm	19.5x11.6	21x13.37	21x13.37	21x13.37
	c.Fin spacing	mm	12	12	12	13
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	φ7Inner groove tube	φ7Inner groove tube	φ7Inner groove tube	φ7Inner groove tube
	f.Coil length x height x width	mm	0x78x232±510x97.5x232±510x78x23x84x13.37±598x105x26.74±598x105x2		750x189x26.74±750x105x26.74	780x210x26.74±780x105x26.74
	g.Number of circuits		3	3	3	4
Indoor air flow (Hi/Mi/Lo)	m3/h	499/370/293	570/450/360	776/645/574	997/792/638	
Indoor noise level (Hi/Mi/Lo)	dB(A)	41/34/27.5	41/35.5/29	39.5/34.5/32	47.5/44.5/33	
Indoor unit	Dimension(W*D*H)	mm	715x194x285	805x194x285	957x213x302	1040x220x327
	Packing (W*D*H)	mm	780x270x365	870x270x365	1035x295x385	1120x405x315
	Net/Gross weight	kg	7.6/9.6	8.5/10.6	10.9/13.8	13.2/16.2
	Outdoor fan motor	Model	YKT-24-6-231L	YKT-24-6-231L	YKT-35-6-252	YKT-65-6-240L
Input		W	63.5	63.5	/	135
Capacitor		µF	2.5	2.5	2.5	5
Speed		r/min	780	780	860	825
Outdoor coil		a.Number of rows		0.8	1	2
	b.Tube pitch(a)x row pitch(c)	mm	21x13.37	21x13.37	21x13.37	21x13.37
	c.Fin spacing	mm	14	14	14	13
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	φ7Inner groove tube	φ7Inner groove tube	φ7Inner groove tube	φ7Inner groove tube
	f.Coil length x height x width	mm	565x462x13.37	750x462x13.37	755*504*13.37+735*504*13.37	900*609*26.74
	g.Number of circuits		2	2	2	5
Outdoor air flow	m3/h	1800	1800	2100	3650	
Outdoor noise level	dB(A)	55.5	56.5	58	59.5	
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495	765x303x555	890x342x673
	Packing (W*D*H)	mm	835x300x540	835x300x540	887x337x610	995x398x740
	Net/Gross weight	kg	25.1/26.8	25.3/27.1	31.8/34.2	53/55.9
	Refrigerant type	kg	R410A/0.57	R410A/0.74	R410A/1.18	R410A/1.65
Design pressure		MPa	4.2/15	4.2/15	4.2/15	4.2/15
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in)/9.52mm(3/8in)	6.35mm(1/4in)/12.7mm(1/2in)	6.35mm(1/4in)/12.7mm(1/2in)	9.52mm(3/8in)/15.9mm(5/8in)
	Max. refrigerant pipe length	m	20	20	20	25
	Max. difference in level	m	8	8	8	10
Connection wiring		15x3/0.75x2	15x3/0.75x2	15x3/0.75x2	10x4//	
Plug type		15x3/VDE	15x3/VDE	15x3/no-plug	//no-plug	
Thermostat type		(Mechanical Control)	(Remote Control)	(Remote Control)	(Remote Control)	
Operation temperature	°C	17~30	17~30	17~30	17~30	
Room temperature	Indoor(cooling/ heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Outdoor(cooling/heating)	°C	18~43/-7~24	18~43/-7~24	18~43/-7~24	18~43/-7~24
Application area (Cooling Standard)	m ²	12~18	16~23	23~33	32~47	
Qty per 20' /40' /40'HQ		138/284/312	132/274/305	90/190/222	66/137/156	

Turbo Mode

With one finger touch, the Turbo Mode can be activated. Under this mode, the blower wheel runs at the full-speed sprint to bring strongest cool airflow, dropping room temperature down instantly.

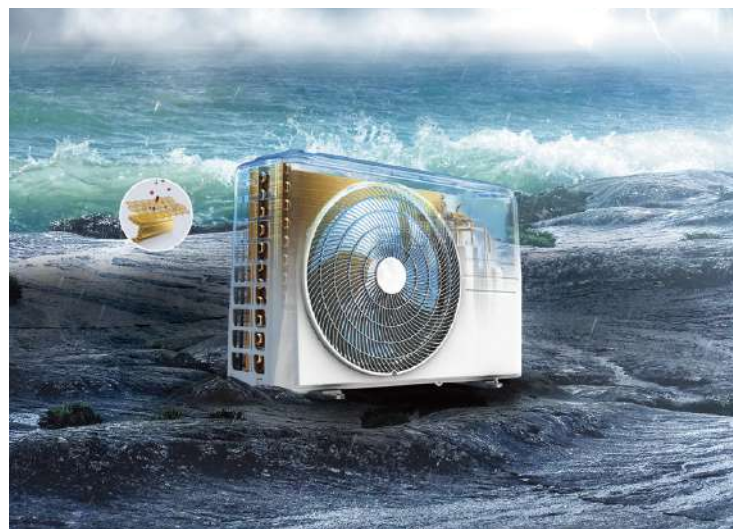
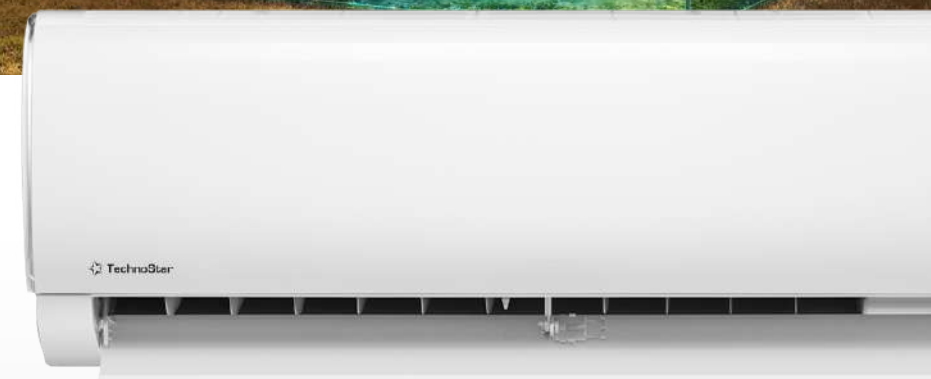
Dual Filtration

The Dual Filtration system thoroughly eliminates harmful substances in two successive steps, providing fresh and clean air to you.



Wall Split

Residential series



WaterFire Proof Sealed E-box

The E-box is sealed with water & fire proof metal plate material and double-slot-tight buckles which serve as protection against rain or humidity and precaution for any possible leakage.



CorrodeFREE Triple-Protection Screen

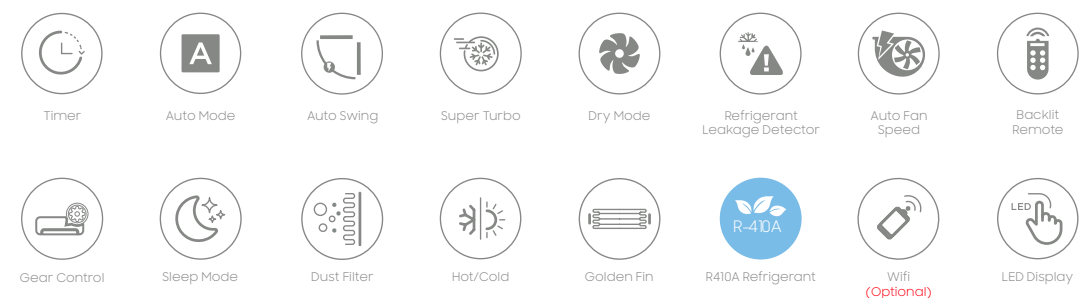
The outdoor unit exterior casing, outdoor unit interior metal parts, and outdoor PCB circuit board are protected by the Triple-Protection CorrodeFREE Screen. The outdoor units are resistant to damp, bacteria, salt, corrosion, acids, and alkalis.



Stainless Steel Bolt

According to research, stainless steel screws are more resistant to moisture, alkali, and corrosion than standard steel screws. The stainless steel screws improve the overall durability of The outdoor units.

Features



Appearance

