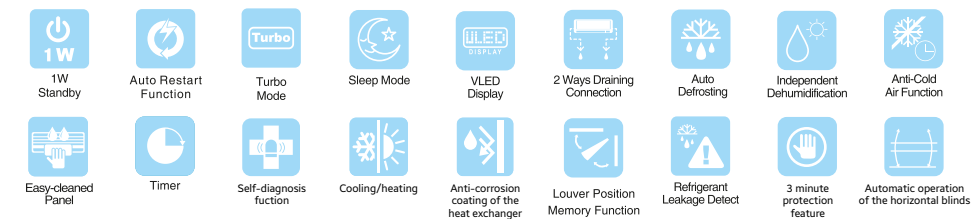


MODEL		TSAF-09HRDNI	TSAF-12HRDNI	TSAF-18HRDNI	TSAF-24HRDNI	
Power supply	V-Ph-Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	
Cooling (Standard conditions)	Capacity	8500	11450	18000	24000	
	Range	4000~10000	4400~12270	/-/	9100~26900	
	Input	760	1045	1755	2510	
	Range	100~1250	280~1393	/-/	240~3030	
	Current	3.5	4.5	7.6	10.9	
Heating (Standard conditions)	Capacity	8000	12600	18000	25000	
	Range	3100~12800	3600~13700	/-/	5500~30000	
	Input	680	1023	1505	2440	
	Range	140~1340	300~1442	/-/	260~3140	
	Current	4.4	4.4	6.5	10.6	
Rated Power Input	Range	0.6~5.8	1.3~6.2	/-/	11~13.7	
	EER	3.21	3.21	3.01	2.80	
	Capacity	8000	12600	18000	25000	
	Range	3100~12800	3600~13700	/-/	5500~30000	
	Input	680	1023	1505	2440	
Rated Current	Range	0.6~5.8	1.3~6.2	/-/	11~13.7	
	EER	3.21	3.21	3.01	2.80	
	Capacity	8000	12600	18000	25000	
	Range	3100~12800	3600~13700	/-/	5500~30000	
	Input	680	1023	1505	2440	
Starting current	Range	0.6~5.8	1.3~6.2	/-/	11~13.7	
	EER	3.21	3.21	3.01	2.80	
	Capacity	8000	12600	18000	25000	
	Range	3100~12800	3600~13700	/-/	5500~30000	
	Input	680	1023	1505	2440	
Compressor	Model	KSK103D33UEZ3	KSK103D33UEZ3	KSN103D21UFZ	KTM240D57UMT	
	Type	ROTARY	ROTARY	ROTARY	Twin-ROTARY	
	Brand	GMCC	GMCC	GMCC	GMCC	
	Capacity	2035/3255	2035/3255	4385	7740	
	Input	325/826	325/826	1140	2085	
	Rated current(RLA)	A	2.40/5.65	2.40/5.65	7.50	9.45
	Locked rotor Amp(LRA)	A	/	/	/	/
	Thermal protector		/	/	/	/
	Thermal protector position		NA	NA	/	NA
	Capacitor	µF	/	/	/	/
Refrigerant oil/oil charge	ml	ESTER OIL VG74 310	ESTER OIL VG74 310	VG74 440	ESTER OIL VG74 670	
Indoor fan motor	Model	YKFG-13-4-38L-4	YKFG-13-4-38L-4	YKFG-25-4-6-14	ZKFP-58-8-1-5	
	Input	40	40.0	55	58.0	
	Capacitor	12	12	15	/	
	Speed(Hi/Mi/Lo)	r/min	1080 / 900 / 750	1180 / 1000 / 800	1200/1000/850	1130 / 900 / 800
	a.Number of rows		2	2	2	2.0
Indoor coil	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	21x13.37	21x13.37	21x13.37
	c.Fin spacing	mm	12	12	12	13
	d.Fin type (code)		Hydrophillic aluminum	Hydrophillic aluminum	Hydrophillic aluminum	Hydrophillic aluminum
	e.Tube outside dia.and type	mm	φ5.1inner groove tube	φ7.1inner groove tube	φ7.1inner groove tube	φ7.1inner groove tube
	f.Coil length x height x width	mm	510x78x23.2-510x97.5x23.2-510x78x23.2	510x84x13.37-510x105x26.74-510x84x26.74	750x189x26.74-750x105x26.74	780x210x26.74-780x105x26.74
	g.Number of circuits		3	2	3	4
	Indoor air flow (Hi/Mi/Lo)	m³/h	417/319/256	525/425/320	835/655/525	980/817/662
Indoor noise level (Hi/Mi/Lo)	dB(A)	36.5/30.5/24.0	39.5/35.5/26	43.5/38.5/32.5	44/40.5/35.5	
Indoor unit	Dimension(W*D*H)	mm	715x194x285	715x194x285	957x213x302	1040x220x327
	Packing (W*D*H)	mm	780x270x365	780x270x365	1035x295x385	1120x405x315
	Net/Gross weight	kg	7.5/9.5	7.6/9.7	10.6/13.4	12.3/15.8
Outdoor fan motor	Model	YKT-24-6-234L-1	YKT-24-6-234L	YKT-48-6-214-1	ZKFN-80-8-3	
	Input	W	/	63.5	/	/
	Capacitor	µF	2.5	2.5	3	/
	Speed	r/min	850	835	890	830/700/550
Outdoor coil	a.Number of rows		1	1	2	2
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x22	21x13.37	21x22
	c.Fin spacing	mm	14	13	14	13
	d.Fin type (code)		Hydrophillic aluminum	Hydrophillic aluminum	Hydrophillic aluminum	Hydrophillic aluminum
	e.Tube outside dia.and type	mm	φ7.1inner groove tube	φ7.1inner groove tube	φ7.1inner groove tube	φ7.1inner groove tube
	f.Coil length x height x width	mm	750x462x13.37	740x462x22	870*504*26.74	900*609*22*865*609*22
	g.Number of circuits		2	2	4	6
Outdoor air flow	m³/h	1800	1800	2500	3500	
Outdoor noise level	dB(A)	55.0	55	56.5	57.5	
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495	805x370x554	890x342x673
	Packing (W*D*H)	mm	835x300x540	835x300x540	915x370x615	995x398x740
	Net/Gross weight	kg	22.8/24.8	23.5/25.3	32.6/35.3	44.4/48.0
Refrigerant type	kg	R410A/0.59	R410A/0.66	R410A/1.4	R410A/1.85	
Design pressure	MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	
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	50
	Max. difference in level	m	10	10	20	25
Connection wiring		15x4//	15x4//	15x4//	25x5//	
Plug type		15x3/VDE	15x3/VDE	15x3/no-plug	//no-plug	
Thermostat type	°C	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	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Outdoor(cooling/heating)	°C	0~50/-15~30	0~50/-15~30	0~50/-15~30	-15~50/-15~30
Application area (Cooling Standard)	m²	11~17	15~22	23~34	32~47	
Qty per 20' /40' /40HQ		138/284/312	138/284/312	84/180/208	66/137/156	



Standard Feature



Maximum resistance
Outdoor Unit

