

23 SEER Technical Specifications (T series)

Model			TSC-09HA1/I3TI22	TSC-12HA1/I3TI22	TSC-09HA2/I3TI23	TSC-12HA2/I3TI23	TSC-18HA2/I3TI21	TSC-24HA2/I3TI20	
			ZZU20101007162	ZZU20101007160	ZZU20101007077	ZZU20101007065	ZZU20101007127	ZZU20101007062	
Type			cooling&heating	cooling&heating	cooling&heating	cooling&heating	cooling&heating	cooling&heating	
Control type			remote	remote	remote	remote	remote	remote	
Power supply			115V~60Hz/1P	115V~60Hz/1P	208/230V~60Hz/1P	208/230V~60Hz/1P	208/230V~60Hz/1P	208/230V~60Hz/1P	
Rated Cooling (95F/35C)	Rated cooling capacity	Btu/h	9000	12000	9000	12000	18000	23000	
	EER2	Btu/W.h	12.5	12.5	13.0	13.0	13.0	12.5	
	SEER2	Btu/W.h	23.0	22.0	23.5	23.0	22.0	20.0	
	Rated Heating capacity(47F/8.3C)	Btu/h	9500	12000	9500	12000	18000	24000	
	Rated Heating capacity(17F/-8.3C)	Btu/h	6000	7500	6000	7500	10000	14000	
	Max. Heating capacity(19F/-7C)	Btu/h	8000	10000	8000	10000	14000	18000	
	Max. Heating capacity(5F/-15C)	Btu/h	7000	8700	7300	9100	11900	16000	
	HSPF2 (Region IV)	Btu/W.h	9.0	9.0	9.2	9.5	8.8	8.8	
	HSPF2 (Region V)	Btu/W.h	7.8	7.8	7.9	8.2	7.6	7.6	
Rated Heating	COP2	W/W	3.5	3.5	3.5	3.5	3.5	3.2	
	COP (5°F/-15°C)	W/W	1.8	1.8	1.8	1.8	1.8	1.8	
Rated Input Consumption	Cooling	W	710	920	710	920	1350	1920	
	Heating	W	730	910	730	910	1310	2050	
Rated Current	Cooling	A	6.4	8.2	3.2	4.1	6.1	8.6	
	Heating	A	6.5	8.2	3.3	4.1	5.9	9.2	
Min. Circuit Ampacity	A		16	17	9	11	13	19	
Maximum Fuse Size	A		25.0	25.0	15.0	15.0	20.0	30.0	
Maximum Operation Pressure	Mpa		6.3Mpa	6.3Mpa	6.3Mpa	6.3Mpa	6.3Mpa	6.3Mpa	
Moisture removal	Liters/h		1.1	1.6	1.1	1.6	2.2	2.6	
Indoor airflow		m3/h	650/550/450	800/650/500	650/550/450	800/650/500	1250/1050/900	1250/1050/900	
	1cfm≈1.7m3/h	CFM	382/324/265	471/382/294	382/324/265	471/382/294	735/618/529	735/618/529	
Indoor noise level at cooling	Turbo/High/Med./Low/Mute		42/39/34/29/27	45/39/34/29/27	42/39/34/29/27	45/39/34/29/27	48/45/40/35/31	51/48/43/38/35	
Outdoor airflow		m3/h	2100	2100	2100	2100	3300	4500	
	1cfm≈1.7m3/h	CFM	1235	1235	1235	1235	1941	2647	
Outdoor noise level	dB(A)		50	52	50	52	52	58	
Connecting Pipe	Gas	inches	3/8"	3/8"	3/8"	3/8"	1/2"	5/8"	
	Liquid	inches	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	
Connecting Wiring	Size x Core number		4×16AWG	4×16AWG	4×16AWG	4×16AWG	4×16AWG	4×16AWG	
Suitable area			sq.ft	Up to 400	Up to 550	Up to 400	Up to 550	Up to 1000	
Net dimensions (W x D x H)	Indoor	mm	820×306×195	920×306×195	820×306×195	920×306×195	1100×333×222	1100×333×222	
		inch	32.28×12.05×7.68	36.22×12.05×7.68	32.28×12.05×7.68	36.22×12.05×7.68	43.31×13.11×8.74	43.31×13.11×8.74	
	Outdoor	mm	728×305×550	728×305×550	728×305×550	728×305×550	845×380×699	910×420×800	
		inch	28.66×12.01×21.65	28.66×12.01×21.65	28.66×12.01×21.65	28.66×12.01×21.65	33.26×14.96×27.51	35.83×16.54×31.50	
Net weight	Indoor	kg	9.5	10.5	9.5	10.5	14.0	14.0	
		lbs	20.9	23.1	20.9	23.1	30.9	30.9	
	Indoor with all accessories	kg	10.8	11.5	10.8	11.5	15.0	15.0	
		lbs	23.8	25.4	23.8	25.4	33.1	33.1	
	Outdoor	kg	23.5	27.4	23.3	26.8	38.5	47.5	
		lbs	51.8	60.4	51.4	59.1	84.9	104.7	
	Outdoor with 5m pipe	kg	25.5	29.4	25.3	28.8	40.5	49.5	
		lbs	56.2	64.8	55.8	63.5	89.3	109.1	
	Indoor Packing dimensions (W x D x H)		mm	890×380×265	990×380×265	890×380×265	990×380×265	1165×405×295	
			inch	35.04×14.96×10.43	38.98×14.96×10.43	35.04×14.96×10.43	38.98×14.96×10.43	45.87×15.95×11.61	
Outdoor Packing dimensions (W x D x H) (without pipe with less accessory parts)		mm	840×340×605	840×340×605	840×340×605	840×340×605	960×430×750	1028×485×850	
		inch	33.07×13.39×23.82	33.07×13.39×23.82	33.07×13.39×23.82	33.07×13.39×23.82	37.79×16.92×29.53	40.47×19.09×33.46	
Gross weight without pipe	Indoor	kg	11.5	12.0	11.5	12.0	16.0	16.0	
		lbs	25.4	26.5	25.4	26.5	35.3	35.3	
	Indoor with all accessories	kg	13.0	13.5	13.0	13.5	17.0	17.0	
		lbs	28.7	29.8	28.7	29.8	37.5	37.5	
	Outdoor	kg	25.5	29.7	25.3	29.2	42.5	54	
		lbs	56.2	65.5	55.8	64.4	93.7	119.0	
Outdoor Packing dimensions (W x D x H) (with 5m pipe)		mm	852×358×610	852×358×610	852×358×610	852×358×610	960×430×750	1028×485×850	
		inch	33.54×14.09×24.02	33.54×14.09×24.02	33.54×14.09×24.02	33.54×14.09×24.02	37.79×16.92×29.53	40.47×19.09×33.46	
Outdoor Gross weight with 5m pipe		kg	27.5	31.7	27.3	31.2	44.5	57	
		lbs	60.6	69.9	60.2	68.8	98.1	125.7	
Outdoor Packing dimensions (W x D x H) (with super package with pipe)		mm	860×365×646	860×365×646	860×365×646	860×365×646	965×440×785	/	
		inch	33.86×14.37×25.44	33.86×14.37×25.44	33.86×14.37×25.44	33.86×14.37×25.44	38.0×17.33×30.91	/	
Loading Capacity (IN+OUT)			40"HC/ 40"GP/ 20"GP		713/610/287	650/556/260	498/422/204	498/422/204	
Loading Capacity (OUT)			40"HC/ 40"GP/ 20"GP(without pipe)		360/270/126	360/270/126	189/187/89	144/96/44	
Loading Capacity (OUT)			40"HC/ 40"GP/ 20"GP(with pipe)		344/258/120	344/258/120	189/187/89	144/96/44	
Loading Capacity (IN+OUT)			40"HC (without pipe)		236	230	236	117	
Loading Capacity (IN+OUT)			40"HC (with pipe)		229	224	229	117	
*** Indoor Unit ***									
Indoor Motor		Motor Brand	Weilling	Weilling	Weilling	Weilling	Broad-Ocean	Broad-Ocean	
*** Outdoor Unit ***									
Refrigerant		Type	R410a	R410a	R410a	R410a	R410a	R410a	
		g	780	1200	780	1200	1430	1850	
	1oz≈28.35g	ozs	27.51	42.33	27.51	42.33	50.44	65.26	
Compressor	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	SANYO	
Outdoor Motor	Motor Brand		Weilling	Weilling	Weilling	Weilling	Broad-Ocean	Broad-Ocean	
Factory Refrigerant charge(7.5m pipe)			g/oz	780g/27.51ozs	1200g/42.33ozs	780g/27.51ozs	1200g/35.27ozs	1430g/50.44ozs	1850g/65.26ozs
Factory Precharge Line			(m/ft)	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25	
Maximum Line Length			(m/ft)	15 / 50	15 / 50	15 / 50	15 / 50	20 / 65	
Maximum Height Difference Between Indoor and Outdoor			(m/ft)	10 / 33	10 / 33	10 / 33	10 / 33	15 / 49	
Additional refrigerant charge			(g/m, oz/ft)	20 / 0.22	20 / 0.22	20 / 0.22	20 / 0.22	20 / 0.22	
Operation temperature			℃	16~31	16~31	16~31	16~31	16~31	
Ambient temperature	Indoor(cooling/ heating)	℃	>=17/≤30	>=17/≤30	>=17/≤30	>=17/≤30	>=17/≤30	>=17/≤30	
	Outdoor(cooling/heating)	℃	-15~55/-25~30	-15~55/-25~30	-15~55/-25~30	-15~55/-25~30	-15~55/-25~30	-15~55/-25~30	
Ambient temperature	Indoor(cooling/ heating)	℉	>=62/≤86	>=62/≤86	>=62/≤86	>=62/≤86	>=62/≤86	>=62/≤86	
	Outdoor(cooling/heating)	℉	5~131/-13~86	5~131/-13~86	5~131/-13~86	5~131/-13~86	5~131/-13~86	5~131/-13~86	