

19 SEER2 R410A Technical Specifications (Elite series)

Marketing model			TSH09 HAI1NAJ0X22	TSH12 HAI1NAJ0X22	TSH09 HAI2NAJ0X22	TSH12 HAI2NAJ0X22	TSH18 HAI2NAJ0X22	TSH24 HAI2NAK0X22	TSH36 HAI2NAK0X22
Type			cooling & heating	cooling & heating	cooling & heating	cooling & heating	cooling & heating	cooling & heating	cooling & heating
Control type			remote	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	208/230V~/60Hz/1P
Rated Cooling (95F/35C)	Rated cooling capacity (95F/35C)	Btu/h	9000	12000	9000	12000	18000	24000	36000
	EER2 (95F/35C)	Btu/W.h	10.0	10.0	10.0	10.0	9.4	10.0	9.0
	SEER2	Btu/W.h	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Rated Heating	Rated Heating capacity (47F/8.3C)	Btu/h	10000	12200	10000	12200	19600	24400	36000
	HSPF2 Rating (Region IV)	Btu/W.h	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	COP2 (47F/8.3C)	W/W	3.41	3.21	3.41	3.21	3.21	3.21	3.01
			COP2 (5F/-15C)	W/W	1.8	1.8	1.8	1.8	1.8
NEEP, Canada			YES	YES	YES	YES	YES	YES	YES
Max Fuse size		A	25	25	15	15	20	30	35
Moisture removal		Liters/h	1.1	1.6	1.1	1.6	2.2	2.6	3.0
Indoor air circulation/Hi		CFM	353	383	353	383	606	847	847
Indoor noise level at cooling	Turbo/High/Med. /Low/Mute		41/39/34 /29/26	42/39/34 /29/27	41/39/34 /29/27	41/39/34 /29/27	50/48/43 /38/32	51/48/43 /38/35	52/49/43 /38/36
Outdoor noise level		dB(A)	51	52	50	51	54	58	63
Refrigerant		Type	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Indoor Motor	Motor Brand		Weilling	Weilling	Broad-Ocean	Broad-Ocean	Broad-Ocean	Broad-Ocean	Broad-Ocean
Compressor	Brand		GMCC	GMCC	GMCC	GMCC	SANYO	SANYO	GMCC
Outdoor Motor	Motor Brand		Weilling	Weilling	Weilling	Weilling	Broad-Ocean	Broad-Ocean	Broad-Ocean
Connecting Pipe	Gas	inches	3/8"	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"	1/4"
Connecting Wiring	Size x Core number		4×16AWG	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	Up to 1500	Up to 2500
Indoor Packing dimensions (W x D x H)		inch	34.84x14.40 x10.94	34.84x14.40 x10.94	34.84x14.40 x10.94	34.84x14.40 x10.94	43.15x15.35 x11.81	49.80x17.13 x13.27	49.80x17.13 x13.27
Outdoor Packing dimensions (W x D x H) (without pipe)		inch	32.20x12.80 x21.18	32.20x12.80 x21.18	32.20x12.80 x21.18	32.20x12.80 x21.18	35.03x15.15 x25.2	37.40x16.53 x29.53	40.47x18.70 x33.86
Factory Precharge Line		(m/ft)	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25
Mximum Line Length		(m/ft)	15 / 50	15 / 50	15 / 50	15 / 50	20 / 65	20 / 65	30 / 98
Mximum Height Difference Between Indoor and Outdoor		(m/ft)	10 / 33	10 / 33	10 / 33	10 / 33	15 / 49	15 / 49	20 / 65
Ambinet temperature	Indoor(cooling/ heating)	°C	≥17/≤30	≥17/≤30	≥17/≤30	≥17/≤30	≥17/≤30	≥17/≤30	≥17/≤30
	Outdoor(cooling/heating)	°C	-15~50 /-20~30	-15~50 /-20~30	-15~50 /-20~30	-15~50 /-20~30	-15~50 /-20~30	-15~50 /-20~30	-15~50 /-20~30
Ambinet temperature	Indoor(cooling/ heating)	F	≥62/≤86	≥62/≤86	≥62/≤86	≥62/≤86	≥62/≤86	≥62/≤86	≥62/≤86
	Outdoor(cooling/heating)	F	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86
Loading Capacity (INOOR)		40' HC	740	740	740	740	490	366	366
Loading Capacity (OUT)		40' HC (with pipe)	360	360	360	360	274	189	143



24H Timer



Turbo Mode



Display On/off



Four way Auto Swing



High temperature (55°C) cooling



Self-diagnosis



Refrigerant Leakage Detector



Fire-proof Electrical Box



Auto-restart



Follow Me / I Feel



Healthy filter



8°C heating



20 SEER2 R454B Technical Specifications (Elite series)

Marketing model			TSH09 HEI1NAJ0X24	TSH12 HEI1NAK0X24	TSH09 HEI2NAK0X24	TSH12 HEI2NAK0X24	TSH18 HEI2NAJ0X24	TSH24 HEI2NAJ0X24	TSH36 HEI2NAJ0X24
Type			cooling & heating	cooling & heating	cooling & heating	cooling & heating	cooling & heating	cooling & heating	cooling & heating
Control type			remote	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	208/230V~/60Hz/1P
Rated Cooling (95F/35C)	Rated cooling capacity (95F/35C)	Btu/h	9000	12000	9000	12000	18000	24000	36000
	EER2 (95F/35C)	Btu/W.h	11.0	11.0	11.0	11.0	10.0	10.0	9.0
	SEER2	Btu/W.h	19.0	20.0	20.0	20.0	19.0	19.0	19.0
Rated Heating	Rated Heating capacity (47F/8.3C)	Btu/h	10000	12400	10000	12400	19000	24400	36000
	HSPF2 Rating (Region IV)	Btu/W.h	9	9	9	9	9	8.5	8.5
	COP2 (47F/8.3C)	W/W	3.41	3.41	3.41	3.41	3.41	3.21	3.01
	COP2 (5F/-15C)	W/W	1.8	1.8	1.8	1.8	1.8	1.8	1.8
NEEP, Canada			YES	YES	YES	YES	YES	YES	YES
Max Fuse size		A	25	25	15	15	20	30	35
Moisture removal		Liters/h	1.1	1.6	1.1	1.6	2.2	2.6	3.0
Indoor air circulation/Hi		CFM	353	383	353	383	606	847	847
Indoor noise level at cooling	Turbo/High/Med. /Low/Mute		41/39/34 /29/26	42/39/34 /29/27	41/39/34 /29/27	41/39/34 /29/27	49/47/42 /37/32	52/50/44 /38/36	52/49/43 /38/36
Outdoor noise level		dB(A)	51	52	50	51	56	58	63
Refrigerant		Type	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Indoor Motor	Motor Brand		Weilling	Weilling	Broad-Ocean	Weilling	Broad-Ocean	Broad-Ocean	Broad-Ocean
Compressor	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	SANYO	GMCC
Outdoor Motor	Motor Brand		Weilling	Weilling	Weilling	Weilling	Weilling	Broad-Ocean	Broad-Ocean
Connecting Pipe	Gas	inches	3/8"	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"	1/4"
Connecting Wiring	Size x Core number		4×16AWG	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	Up to 1500	Up to 2500
Indoor Packing dimensions (W x D x H)		inch	34.84x14.40 x10.94	34.84x14.40 x10.94	34.84x14.40 x10.94	34.84x14.40 x10.94	43.15x15.35 x11.81	49.80x17.13 x13.27	49.80x17.13 x13.27
Outdoor Packing dimensions (W x D x H) (without pipe)		inch	32.20x12.80 x21.18	32.20x12.80 x21.18	32.20x12.80 x21.18	32.20x12.80 x21.18	35.03x15.15 x25.2	37.40x16.53 x29.53	40.47x18.70 x33.86
Factory Precharge Line		(m/ft)	7.5 / 25	7.5 / 25	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	20 / 65	30 / 98
Maximum Height Difference Between Indoor and Outdoor		(m/ft)	10 / 33	10 / 33	10 / 33	10 / 33	15 / 49	15 / 49	20 / 65
Ambinet temperature	Indoor(cooling/ heating)	°C	≥17/≤30	≥17/≤30	≥17/≤30	≥17/≤30	≥17/≤30	≥17/≤30	≥17/≤30
	Outdoor(cooling/heating)	°C	-15~50/-20~30	-15~50/-20~30	-15~50/-20~30	-15~50/-20~30	-15~50/-20~30	-15~50/-20~30	-15~50/-20~30
Ambinet temperature	Indoor(cooling/ heating)	F	≥62/≤86	≥62/≤86	≥62/≤86	≥62/≤86	≥62/≤86	≥62/≤86	≥62/≤86
	Outdoor(cooling/heating)	F	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86
Loading Capacity (INOOR)		40' HC	740	740	740	740	490	366	366
Loading Capacity (OUT)		40' HC (with pipe)	360	360	360	360	274	189	143



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Turbo Mode



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Fire-proof Electrical Box



Wired Control



Follow Me / I Feel



Healthy filter



8°C heating



ODU Self-clean

