



**PERFORMANCE SUMMARY**  
**TECHNICAL REPORT**

Tag: TGG

## Top Discharge outdoor unit

Sales Model			24K	36K	48K	60K
			TGG24TCH2MVG0G24L	TGG36TCH2MVG0G24L	TGG48TCH2MVG0G24L	TGG60TCH2MVG0G24L
Factory Model			TKS-24GG/CU2N-K(000047)	TKS-36GG/CU2N-K(000046)	TKS-60C7GDZV/CU2N(000048)	TKS-60C7GDZV/CU2N(000048)
Factory Code			Z4U20704000047	Z4U20704000046	Z4U20704000048	Z4U20704000048
Rated Cooling (95F/35! )	Capacity	Btu/h	24000	34600	46000	52000
	EER2	Btu/h.W	10.5	10.0	10.0	8.0
	SEER2	Btu/h.W	18.0	18.0	18.0	16.5
Rated Heating (47F/8.3! )	Capacity	Btu/h	25000	36000	47000	53000
	HSPF2-4	Btu/h.W	8.5	8.0	8.0	7.6
Cold Climate Heating (5F/-15! )	Capacity	Btu/h	17800	26800	36000	38000
	COP	W/W	1.8	1.8	1.8	1.8
	5F/47F		74%	77%	78%	73%
Electrical Data	Voltage-Phase-Hz		208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
	Minimum Circuit Ampacity	A	TBD	TBD	TBD	TBD
	Max.Overcurrent protection (MAX FUSE OR HACR BREAKER)	A	TBD	TBD	TBD	TBD
	min/max Volts	V	187/253	187/253	187/253	187/253
Blower	Diameter	inch	23-1/2'	23-1/2'	20-7/8'	20-7/8'
	Width	inch	4-1/2'	4-1/2'	6-3/4'	6-3/4'
Outdoor coil	Number of rows		1	2	2	2
	Number of U tube		14	28	38	38
	Tube pitch(a)x row pitch(b)	mm	12.7/21	12.7/21	12.7/21	12.7/21
	Fin spacing /thickness/type	mm	1.2/0.095/ hydrophilic aluminium Louvered	1.4/0.095/ hydrophilic aluminium Louvered	1.5/0.095/ hydrophilic aluminium Louvered	1.5/0.095/ hydrophilic aluminium Louvered
	Tube outside dia.and type	mm	inner grooved copper tube/7mm	inner grooved copper tube/7mm	inner grooved copper tube/7mm	inner grooved copper tube/7mm
	Coil length x height x width	mm	/	/		
	Number of circuits		4	8		
Sound Pressure rating		dB	68	68	70	70
Outdoor fan Air flow		CFM	/	/	/	/
		m3/h	/	/	/	/
Throttle type			EEV	EEV	EEV	EEV
Pre-Charged refrigerant type	Type		R454B	R454B	R454B	R454B
	oz		75.8	99.8	165	165
	g		2150g	2830g	4680g	4680g
Refrigerant Line Size	Liquid side	inch	3/8'	3/8'	3/8'	3/8'
	Suction side	inch	3/4'	3/4'	7/8'	7/8'
Refrigerant Connection Size	Liquid side (welding type)	inch	3/8'	3/8'	3/8'	3/8'
	Suction side (welding type)	inch	3/4'	3/4'	7/8'	7/8'
Pre-Charged Standard line length		m	7.5	7.5	7.5	7.5
		feet	25Feet	25Feet	25Feet	25Feet
Maximum line length		m	30	30	30	30
		feet	100Feet	100Feet	100Feet	100Feet
Maximum elevation difference		m	15	15	15	15
		feet	50Feet	50Feet	50Feet	50Feet
Operating temperatures	Cooling	!	-15-54!	-15-54!	-15-54!	-15-54!
		"	5-130"	5-130"	5-130"	5-130"
	Heating	!	-20-30!	-20-30!	-20-30!	-20-30!
"		-5-122"	-5-122"	-5-122"	-5-122"	
Outdoor unit	Dimension# W x H x D\$	inch	29-1/8 x 24-15/16 x29-1/8	29-1/8 x 24-15/16 x29-1/8	29-1/8x33-3/16x29-1/8	29-1/8x33-3/16x29-1/8
	Packing # W x H x D)	inch	30-1/5 x 31-1/4 x 30-1/5	30-1/5 x 31-1/4 x 30-1/5	30-1/5 x 39-1/2 x 30-1/5	30-1/5 x 39-1/2 x 30-1/5
Equipment Weight		kg	TBD	TBD	TBD	TBD
		lbs	TBD	TBD	TBD	TBD
Ship Weight(Pallet)		kg	TBD	TBD	TBD	TBD
		lbs	TBD	TBD	TBD	TBD
Shipping per STD40HQ			135	135	90	90



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## AHU Indoor Unit

Sales Model			24K	36K	48K	60K
			TGG24HCH2MVG0G24L	TGG36HCH2MVG0G24L	TGG48HCH2MVG0G24L	TGG60HCH2MVG0G24L
Factory Model			TKV-24C7GZG/CU2H-K(000021)	TKV-36C7GZG/CU2H-K(000020)	TKK-48C7GZV/CU2H(000022)	TKK-48C7GZV/CU2H(000022)
Factory Code			Z2U20702000021	Z2U20702000020	Z2U20702000022	Z2U20702000022
Cooling	Capacity	Btu/h	24000	34000	48000	54000
Heating	Capacity	Btu/h	24000	34000	48000	54000
Electrical Data	Voltage-Phase-Hz		208/230-160	208/230-160	208/230-160	208/230-160
	Minimum Circuit Ampacity	A	3.5	3.5	3.5	3.5
	Max.Over Current Protection	A	15	15	18.5	18.5
	Min/Max Volts	V	187/253	187/253	187/253	187/253
Blower	Diameter	inch	12-1/4'	12-1/4'	12-1/4'	12-1/4'
	Width	inch	13'	13'	13'	13'
Indoor coil	Number of rows		4*2	4*2	5*2	5*2
	Number of U tube		40*2	40*2	75*2	75*2
	Tube pitch(a)x row pitch(b)	mm	21/12.7	21/12.7	21/12.7	21/12.7
	Fin spacing /thickness/type	mm	1.5/0.095/ hydrophilic aluminium Louvered	1.5/0.095/ hydrophilic aluminium Louvered	1.5/0.095/hydrophilic aluminium Louvered	1.5/0.095/hydrophilic aluminium Louvered
	Tube outside dia.and type	mm	inner grooved aluminum tube/7mm	inner grooved aluminum tube/7mm	inner grooved aluminum tube/7mm	inner grooved aluminum tube/7mm
	Coil length x height x width	mm	/	/	/	/
	Number of circuits		4*2	4*2	6*2	6*2
Sound Pressure rating		dB(A)	57! TBD"	57! TBD"	62! TBD"	62! TBD"
Indoor fan Air flow		CFM	850	1175	2052	2052
		m3/h	1450	2000	3500	3500
Static Pressure		in.WC	up to 0.8	up to 0.8	up to 0.8	up to 0.8
		Pa	up to 200	up to 200	up to 200	up to 200
Throttle type	Throttle type		TXV	TXV	TXV	TXV
	Model		3TR	3TR	5TR	5TR
Refrigerant Line Size	Liquid side	inch	3/8'	3/8'	3/8'	3/8'
	Suction side	inch	3/4'	3/4'	7/8'	7/8'
Refrigerant Connection Size	Liquid side	inch	3/8'	3/8'	3/8'	3/8'
	Suction side	inch	3/4'	3/4'	7/8'	7/8'
Indoor unit	Dimension (W*H*D)	inch	21'x46-1/2'x21'	21'x46-1/2'x21'	21'x56'x24-1/2'	21'x56'x24-1/2'
	Packing (W*H*D)	inch	23'x52'x24-1/2'	23'x52'x24-1/2'	24-1/2'x62'x28'	24-1/2'x62'x28'
Equipment Weight		kg	56	56	80	80
		lbs	123	123	176	176
Ship Weight(Pallet)		kg	TBD	TBD	TBD	TBD
		lbs	TBD	TBD	TBD	TBD
Shipping per STD40HQ			152	152	57	57