

EcoLine

Solar Thermal Air Conditioning



R407C

R513A

Therm-Aire

Most Energy Efficient Air Conditioning System

SINGLE / MULTI SPLIT



EcoLine
Solar Thermal Air Conditioning

Note: Designs and specifications are subject to change without prior notice

Why Ecoline ?

Ecoline specializes in thermal energy and energy management. We develop and assemble our own proprietary patent-pending thermal solar air conditioning system.

Against the backdrop of accelerating global warming, we have made it our mission to contribute to efforts to reduce global carbon footprint by promoting the adoption of affordable and sustainable, green cooling technology.

Energy Saving (vs *Energy Efficient Inverter Models*)

- ✓ 30-55% Energy Cost Savings
- ✓ Delivers COP > 5
- ✓ ROI < 2 years

Eco-Friendly

- ✓ Harnesses Waste Heat
- ✓ Ozone-friendly Refrigerant
- ✓ Lower Heat Rejection
- ✓ Reduced Carbon Emission

Easy to Maintain

- ✓ Hassle-free

Versatile

- ✓ Supports Connectivity



SINGLE SPLIT WALL MOUNT

INDOOR & OUTDOOR: STA-XXXPWM

Model Split Wall Mount			STA-009SPWM	STA-012SPWM	STA-018SPWM	STA-024SPWM
Power supply		V-ph-Hz	208-230V-1-50/60	208-230V-1-50/60	208-230V-1-50/60	208-230V-1-50/60
Cooling	Capacity	Btu/h	9000	12000	18000	24000
	Input	W	400	480	768	1230
	Rated current	A	1.6	2.0	3.2	5.1
	EER	Btu/w				
	SEER	Btu/w				
MINIMUM CIRCUIT AMPACITY		A	15	15	15	18
MAX.FUSE		A	15	15	20	25
Moisture Removal		L/h	/	/	/	/
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY
	Brand		ECOLINE	ECOLINE	ECOLINE	ECOLINE
	Capacity	Btu/h	9000	12000	18000	24000
	Input	W	748	748	1035	1970
	Rated current(RLA)	A	5.5	6.8	10.5	12
	Locked rotor Amp(LRA)	A	----	----	---	----
	Thermal protector		----	----	---	----
	Thermal protector position		----	----	---	----
	Refrigerant oil/oil charge	ml	ESTER OIL VG74-370	ESTER OIL VG74-370	VG74/450	ESTER OIL VG74/670
Indoor fan motor	Model		ZKFP-20-8-6	ZKFP-20-8-6	ZKFP-30-8-3	ZKFP-58-8-1
	Brand		Welling	Welling	Welling	Welling
	Input	W	20(Output)	20(Output)	30(Output)	58(Output)
	RLA	A	0.2	0.2	0.3	0.4
	LRA	A	----	----	----	----
	Winding Resistance	Ω	----	----	----	----
	Capacitor	uF	----	----	----	----
	Speed(Hi/Mi/Lo)	r/min	1050/850/650	1050/850/650	1100/800/700	1100/900/700
Indoor air flow (Hi/Mi/Lo)		m3/h	420/310/210	500/350/240	660/450/380	1000/780/600
Indoor air flow (Hi/Mi/Lo)		CFM	247/182/124	294/206/141	388/265/224	589/459/353
Indoor noise level (Hi/Mi/Lo)		dB(A)	36/-/23	40.5/-/25	45/-/29	45.5/-/33
Indoor unit	Dimension(W*D*H)	mm	722x187x290	802x189x297	965x215x319	1080x226x335
	Packing (W*D*H)	mm	790x270x370	875x285x375	1045x305x405	1155x415x315
	Net/Gross weight	Kg	7.5/9.5	8.5/10.2	11.8/15.5	13.2/16.8
Outdoor fan motor	Model		YKT-32-6-3L	YKT-32-6-3L	YKT-48-6-206	YKT-63-6-200L
	Brand		Welling	Welling	Welling	Welling
	Input	W	32(Output)	32(Output)	48(Output)	63(Output)
	RLA	A	0.4	0.4	0.6	0.6
	LRA	A	----	----	----	----
	Winding Resistance	Ω	----	----	----	----
	Capacitor	uF	----	----	----	----
	Speed	r/min	860	860	880	940
Outdoor air flow		m3/h	1800	1900	2500	2700
Outdoor air flow		CFM	1060	1120	1470	1590
Outdoor noise level		dB(A)	57	57	57.5	59
Outdoor unit	Dimension(W*D*H)	mm	770x300x555	770x300x555	800x333x554	845x363x702
	Packing (W*D*H)	mm	900x345x585	900x345x585	920x390x615	965x395x755
	Net/Gross weight	Kg	29/31.5	29.5/32	36.5/39.5	47.7/51.0
Refrigerant type		g	R513A/799g	R513A/961g	R513A/1500g	R513A/1800g
Refrigerant precharge		ft	25	25	25	25
Design pressure		PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. refrigerant pipe length	m	25	25	30	30
	Max. difference in level	m	10	10	20	20
Connection wiring			16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control
Operation temperature	Indoor(cooling/ heating)	°C	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30
	Outdoor(cooling/heating)-without low ambient cooling	°C	0 ~ 50/-15 ~ 30	0 ~ 50/-15 ~ 30	0 ~ 50/-15 ~ 30	0 ~ 50/-15 ~ 30
	Outdoor(cooling/heating)-with low ambient cooling	°C	-15 ~ 50/-15 ~ 30	-15 ~ 50/-15 ~ 30	-15 ~ 50/-15 ~ 30	-15 ~ 50/-15 ~ 30
Application area (cooling standard)		m2	12-17.6	16-23.4	23.3-34.2	30.6-44.9
Application area (cooling standard)		sq.ft	129-189	172-252	251-368	330-484

Note:

- 1.The above design and specifications are subject to change without prior notice for product improvement.
- 2.The values given in the table for the noise level reflect the levels in anechoic chamber.

SINGLE SPLIT CEILING CASSETTE

INDOOR & OUTDOOR: STA-XXXSPCC

Model Split Ceiling Cassette (Outdoor)		STA-018SPCC	STA-024SPCC	STA-036SPCC	STA-048SPCC
Power supply	V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50
Max. input consumption	W	650	750	1960	2120
Max. input current	A	2.8	3.27	8.6	9.3
Compressor	Model	STAC-018CC	STAC-024CC	STAC-036CC	STAC-048CC
	Type	Twin-rotary	Twin-rotary	Twin-rotary	Rotary
	Brand	ECOLINE	ECOLINE	ECOLINE	ECOLINE
	Capacity	Btu/h	18000	24000	36000
	Input	W	990	1150	3010
	Rated current(RLA)	A	4.97	9.7	13.5
	Locked rotor Amp(LRA)	A	/	/	/
	Thermal protector position	/	/	/	/
	Capacitor	μF	/	/	/
Outdoor fan motor	Refrigerant oil	ml	500	1070	1070
	Model	YDK50-6C	YDK55-6G	YDK250-6C	(YDK100-6G)×2
	Qty	1	1	1	2
	Input	W	111/96	103/76	320/240
	Capacitor	μF	2.5UF/450V	2.5UF/450V	10UF/450V
Outdoor coil	Speed	r/min	890/540	840/630	760/625
	Number of rows		2	2.5	2
	Tube pitch(a)* row pitch(b)	mm	22x19.05	21x13.37	22x19.05
	Fin spacing	mm	1.4	1.4	1.5
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia.and type	mm	Φ7.94,inner grooved tube	Φ7.94,inner grooved tube	Φ7.94,inner grooved tube
	Coil length * height * width	mm	660x550x38.1	779x651x40.11	885x902x38.1
Outdoor unit	Number of circuits		4	6	4
	Outdoor air flow (Max.)	m³/h	2400	2700	5500
	Outdoor noise level (sound pressure)	dB(A)	58	58	64
	Throttle type		EVX+Capillary	Capillary +EXV	Capillary +EXV
	Dimension(WxDxH)	mm	762x282x593	845x320x700	990x354x966
Refrigerant type/Quantity	Packing(WxDxH)	mm	887x355x645	965x395x755	1120x435x1100
	Net/Gross weight	kg	42/44	46/49.5	73.5/84.5
	Type		R513A	R513A	R513A
Design pressure	Charged volume	kg	1.32	2.1	2.65
		MPa	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. pipe length	m	25	25	30
	Max. difference in level	m	12	12	20
Ambient temperature	Cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24

Model Split Ceiling Cassette (Indoor)		STA-018SPCC	STA-024SPCC	STA-036SPCC	STA-048SPCC
Power supply	V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50
Cooling	Capacity	Btu/h	18000	24000	36000
	Input	W	1640	2110	3260
	Current	A	7.51	9.66	14.92
	EER	W/W	3.21	3.26	2.52
Heating	Capacity	Btu/h	19600	26400	39000
	Input	W	1560	2170	3350
	Current	A	7.14	9.93	15.33
	COP	W/W	3.68	3.56	2.74
Indoor fan motor	Model	YDK42-6E	YDK42-6E	YDK125-6E	YDK125-6E
	Qty	1	1	1	1
	Input	w	81/69/63	81/69/63	174/145/121
	Capacitor	uF	2UF/400~450V	2UF/400~450V	5UF/450V
	Speed(hi/mi/lo)	r/min	520/390/340	520/390/340	690/610/540
Indoor coil	a.Number of rows		2	2	2
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37
	c.Fin spacing	mm	1.4	1.4	1.4
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7,inner grooved tube	Φ7,inner grooved tube	Φ7,inner grooved tube
	f.Coil length x height x width	mm	2010x168x26.74	2010x168x26.74	2010x210x26.74
	g.Number of circuits		8	8	10
Indoor air flow (Hi/Med/Lo)		m³/h	1000/820/700	1250/1050/900	2020/1700/1450
Sound level (sound pressure)		dB(A)	37/34/32	43/41/38	55/51/47
Throttle type			/	/	/
Indoor unit	Dimension (WxDxH)(body)	mm	840x840x205	840x840x205	840x840x245
	Packing (WxDxH)(body)	mm	900x900x225	900x900x225	900x900x265
	Dimension (WxDxH)(panel)	mm	950x950x55	950x950x55	950x950x55
	Packing (WxDxH)(panel)	mm	1035x1035x90	1035x1035x90	1035x1035x90
	Net/Gross weight(body)	kg	21.5/25	21.5/25	24.5/28
	Net/Gross weight	kg	5/8	5/8	5/8
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5
Drainage water pipe dia.		mm	ODΦ32	ODΦ32	ODΦ32
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
	Controller		RG51C/E	RG51C/E	RG51C/E
Operation temperature	Cooling	°C	≥17	17~32	17~32
	Heating	°C	≤30	0~30	0~30

Note:

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SINGLE SPLIT DUCTED

INDOOR & OUTDOOR: STA-XXXSPDD

Model Split Ducted (Outdoor)		STA-009SPDD		STA-012SPDD		STA-018SPDD		STA-024SPDD		STA-036SPDD		STA-048SPDD	
Power supply (Outdoor)		V- Ph-Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz
Cooling	Capacity (range)	Btu/h	9000(3000~11300)	12000(4100~12100)	18000(6400~18800)	24000(11000~24400)	36000(14000~38000)	48000(~/-)					
	Input	W	570	602	985	1280	1990	2690					
	Rated current	A	3.05	4.4	6.6	8.8	18.3	23.14					
	Capacity (range)	Btu/h	10000(4800~13900)	12000(3600~12100)	18000(6000~18900)	24400(10200~29400)	40000(14000~42000)	49500(~/-)					
Heating	Input	W	809	1072	1680	2030	3478	4125					
	Rated current	A	3.8	5.06	7.7	9.3	15.9	18.3					
	MINIMUM CIRCUIT AMPACITY(Outdoor)	A	10	12	15.0	18	35	35					
	MAX.FUSE(Outdoor)	A	15	15	20	25	50	50					
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY					
	Brand		Ecoline	Ecoline	Ecoline	Ecoline	Ecoline	Ecoline					
	Capacity	W	2935	2958	4055	7135	9490	13100					
	Input	W	748	730	1035	1970	2600	3420					
	Rated current(RLA)	A	5.5	6.8	10	12	/	23.5					
	Locked rotor Amp(LRA)	A	/	/	/	/	/	/					
	Thermal protector		/	/	/	/	/	/					
	Thermal protector position		NA	NA	NA	NA	NA	NA					
	Capacitor	uF	/	0.0	/	/	/	/					
	Refrigerant oil/oil charge	ml	VG74/370	VG74/340	VG74/450	VG74/670	VG74/1000	VG74/1400					
	Model		ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-50-8-2	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22-5					
	Input	W	/	/	115.0	150.0	150.0	126.0					
Outdoor fan motor	RLA	A	0.4	0.4	0.6	0.6	/	1.2					
	LRA	A	/	/	/	/	/	/					
	Winding Resistance	Ω	/	/	/	/	/	/					
	Capacitor	uF	/	/	/	/	/	/					
	Speed	r/min	800/750/650	800/700/650	850/750/700	850/750/700	950/750	800/700/600					
	Outdoor air flow	m³/h	2000	2000	2500	2529	2529	7650					
	Outdoor air flow	CFM	1176.47	1176.47	1470.59	2235.29	1487.65	4500.00					
	Outdoor noise level	dB(A)	54.5	55	59	59	63.5	62.5					
Throttle type		/	EXV	EXV	EXV + Capillary	EXV + Capillary	EXV + Capillary	EXV + Capillary					
Outdoor unit	Dimension(W*D*H)	mm	770x300x555	800x333x554	845x363x702	946x410x810	946x410x810	952x415x1333					
	Packing (W*D*H)	mm	900x345x595	920x390x625	965x395x775	1090x500x885	1090x500x885	1095x495x1480					
	Net/Gross weight	Kg	30.5/32.5	36.5/39.1	47.7/51	64/69	67.4/73	101/115					
Refrigerant type		oz	R407C/38.8	R407C/40.6	R407C/68.8	R407C/82.9	R407C/108	R407C/148					
Refrigerant recharge		ft	15	15	20	20	30	30					
Additional charge for each ft		oz	0.16	0.16	0.21	0.21	0.32	0.32					
Design pressure		PSIG	550/340	550/340	550/340	550/340	550/340	550/340					
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)	9.52mm(3/8in)/15.9mm(5/8in)	9.52mm(3/8in)/15.9mm(5/8in)					
	Max. refrigerant pipe length	m	25	25	30	50	65	65					
	Max. difference in level	m	10	10	20	25	30	30					

Model Split Ducted (Indoor)		STA-009SPDD		STA-012SPDD		STA-018SPDD		STA-024SPDD		STA-036SPDD		STA-048SPDD	
Power supply (Indoor)		V- Ph-Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz	208/230V,1Ph, 50/60Hz
MINIMUM CIRCUIT AMPACITY (Indoor)		A	1.3	1.3	3	3	3.0	3.0					
MAX.FUSE (Indoor)		A	15	15	15	15	15.0	15.0					
Indoor fan motor	Model		ZKFN-55-8-22-1	ZKFN-55-8-22-1	ZKFN-160-8-1-2	ZKFN-160-8-1-2	ZKFN-160-8-1-2	ZKFN-300-8-1					
	Qty		1	1	1	1	1	1					
	Input	W	130.0	130.0	90.0	90.0	250.0	560.0					
	RLA	A	1.11	1.11	1.2	1.2	1.6	/					
	LRA	A	/	/	/	/	/	/					
	Winding Resistance	Ω	/	/	/	/	/	/					
	Capacitor	uF	/	/	/	/	/	/					
	Speed(Hi/Mi/Lo)	r/min	1170/1030/850	1170/1030/850	850/700/450	/	1130/1050/990	/					
Indoor air flow (Hi/Mi/Lo)		m³/h	600/480/300	600/480/300	900/785/630	1318.3/1178.2/739.3	1839/1551/1195	2088.3/1752.7/1214.9					
Indoor air flow (Hi/Mi/Lo)		CFM	352.94/282.35/176.47	352.94/282.35/176.47	529.41/450.00/370.59	775.47/693.06/434.88	1061.76/912.35/702.94	1228.41/1031.00/714.65					
ESP	Range	Pa	0-40	0-40	0-100	0-100	0-160	0-160					
	Range	In. wg.	/	/	/	/	/	/					
Indoor noise level (Hi/Mi/Lo)		dB(A)	35.5/30.5/27.5	37.5/33/27.5	41.5/38.5/36	44/41/34	51/48/45	50.5/49.5/46					
Indoor unit	Dimension(W*D*H)	mm	700x506x200	700x506x200	880x674x210	1100x774x249	1570x774x249	1200x874x300					
	Packing (W*D*H)	mm	860x540x285	860x540x285	1070x725x280	1305x805x315	1570x805x330	1405x915x365					
	Net/Gross weight	Kg	17.7/21.9	21/26.3	23.8/29.5	39.4/46.7	50.3/59.1	54.3/64.3					
Drainage water pipe dia		mm	/	OD25mm	OD25mm	OD25mm	OD25mm	OD25mm					
Thermostat type			Wire Controlled	Wire Controlled	Wire Controlled	Wire Controlled	Wire Controlled	Wire Controlled					
Room temperature	Indoor(cooling/ heating)	°C	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30					
	Outdoor(cooling/heating)	°C	-25 ~ 50/-25 ~ 30	-25 ~ 50/-25 ~ 30	-25 ~ 50/-25 ~ 30	-25 ~ 50/-25 ~ 30	-25 ~ 50/-25 ~ 30	-25 ~ 50/-25 ~ 30					
Application area (Cooling Standard)		m²	12 ~ 18	16 ~ 23	24 ~ 35	32 ~ 47	48 ~ 70	64 ~ 94					
Application area (cooling standard)		sq.ft	129.17 ~ 193.75	172.22 ~ 247.57	258.33 ~ 376.74	344.44 ~ 505.90	516.67 ~ 753.47	688.89 ~ 1011.81					

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SINGLE SPLIT CEILING FLOOR

INDOOR & OUTDOOR: STA-XXXSPCF

Model Split Ceiling Floor (Outdoor)			STA-018SPCF	STA-024SPCF	STA-036SPCF	STA-048SPCF
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
Max. input consumption		W	650	750	1960	2120
Max. input current		A	2.8	3.27	8.6	9.3
Compressor	Model		STAC-018SPCF	STAC-024SPCF	STAC-036SPCF	STAC-048SPCF
	Type		Twin-rotary	Twin-rotary	Twin-rotary	Rotary
	Brand		ECOLINE	ECOLINE	ECOLINE	ECOLINE
	Capacity	Btu/h	18000	24000	36000	48000
	Input	W	990	1150	3010	3250
	Rated current(RLA)	A	4.97	9.7	13.5	14.2
	Locked rotor Amp(LRA)	A	/	/	/	/
	Thermal protector position		/	/	/	/
	Capacitor	μF	/	/	/	/
Outdoor fan motor	Refrigerant oil	ml	500	500	1070	1070
	Model		YDK50-6C	YDK55-6G	YDK250-6C	(YDK100-6G)×2
	Qty		1	1	1	2
	Input	W	111/96	103/76	320/240	(176/133)×2
	Capacitor	μF	2.5UF/450V	2.5UF/450V	10uF/450V	(5UF/450V)×2
Outdoor coil	Speed	r/min	890/540	840/630	760/625	855/600
	Number of rows		2	2.5	2	3
	Tube pitch(a)* row pitch(b)	mm	22x19.05	21x13.37	22x19.05	21x13.37
	Fin spacing	mm	1.4	1.4	1.5	1.4
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia.and type	mm	Φ7.94,inner grooved tube	Φ7,inner grooved tube	Φ7.94,inner grooved tube	Φ7,inner grooved tube
	Coil length * height * width	mm	660x550x38.1	779x651x40.11	885x902x38.1	904x1218x40.11
	Number of circuits		4	6	4	12
Outdoor air flow (Max.)		m ³ /h	2400	2700	5500	6500/4870
Outdoor noise level (sound pressure)		dB(A)	58	58	64	59/54
Throttle type			EVX+Capillary	Capillary +EXV	Capillary +EXV	Capillary+EXV
Outdoor unit	Dimension(WxDxH)	mm	762x282x593	845x320x700	990x354x966	940x360x1245
	Packing(WxDxH)	mm	887x355x645	965x395x755	1120x435x1100	1058x438x1380
	Net/Gross weight	kg	42/44	46/49.5	73.5/84.5	106/114
Refrigerant type/Quantity	Type		R513A	R513A	R513A	R513A
	Charged volume	kg	1.32	2.1	2.65	4.45
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)	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. pipe length	m	25	25	30	50
	Max. difference in level	m	12	12	20	25
Ambient temperature	Cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24

Model Split Ceiling Floor (Indoor)			STA-018SPCF	STA-024SPCF	STA-036SPCF	STA-048SPCF
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
Cooling	Capacity	Btu/h	18000	24000	36000	48000
	Input	W	1620	2140	3290	4400
	Current	A	7.4	9.8	15.1	7.6
	EER	W/W	3.26	3.25	3.21	3.2
Heating	Capacity	Btu/h	19000	25000	40000	50000
	Input	W	1540	1990	3250	4070
	Current	A	7.1	9.1	14.9	7.0
	COP	W/W	3.62	3.68	3.61	3.6
Indoor fan motor	Model		YSK55-4L	YSK55-4L	YSK125-4C	YSK59-4D-4
	Qty		1	1	1	2
	Input	W	125/105/85	125/105/85	148/131/122	102/98/96
	Capacitor	uF	2.5UF/450V	2.5UF/450V	4.5uF/450V	2.5UF/450V
	Speed(Hi/Med/Lo)	r/min	1310/1190/1040	1310/1190/1040	1370/1300/1225	1230/1130/1070
Indoor coil	Number of rows		3	3	3	3
	Tube pitch(a)x row pitch(b)	mm	21x13.37	25.4x22	25.4x22	25.4x22
	Fin spacing	mm	1.3	1.7	1.7	1.7
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ9.52, Inner grooved tube	Φ9.52, Inner grooved tube	Φ9.52, Inner grooved tube
	Coil length x height x width	mm	804x254x40.11	804x254x66	1094x254x66	1360x254x66
	Number of circuits		4	3	5	5
Indoor air flow(Hi/Med/Lo)		m ³ /h	800/600/500	1000/900/700	1400/1200/1000	2000/1800/1600
Indoor noise level (sound pressure)(Hi/Med/Lo)		dB(A)	43/41/38	45/43/40	45/43/40	49/47/46
Throttle type			/	/	/	/
Indoor unit	Dimension (WxDxH)	mm	990x660x203	990x660x203	1280x660x203	1670x680x240
	Packing (WxDxH)	mm	1090x745x297	1090x745x297	1380x745x297	1765x761x325
	Net/Gross weight	kg	24/30	24/30.5	31/37	46/53
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Drainage water pipe diameter		mm	ODΦ25	ODΦ25	ODΦ25	ODΦ25
Refrigerant piping	Liquid side/Gas side	mm(inch)	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52Φ15.9(3/8"/5/8")	Φ9.52Φ15.9(3/8"/5/8")	Φ9.52Φ15.9(3/8"/5/8")
	Controller		RG51Q1/BGE	RG51Q1/BGE	RG51Q1/BGE	RG51Q1/BGE
Operation temperature	Cooling	°C	17~32	17~32	17~32	17~32
	Heating	°C	0~30	0~30	0~30	0~30

Note:

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- 2.The values given in the table for the noise level reflect the levels in anechoic chamber.

MULTI SPLIT WALL MOUNT

OUTDOOR: STA2-018/3-027/4-036/5-048SPMM

Model Multi Split (Outdoor)		STA2-018SPWM		STA3-021SPWM		STA3-027SPWM		STA4-036SPWM		STA5-048SPWM	
Indoor unit combination		Single	Double	Single	Double	Single	Double	Single	Double	Single	Double
Power supply	V/Hz/Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph	220-240V/50Hz/1Ph
	Capacity	18000	18000	21000	21000	27000	27000	36000	36000	48000	48000
Cooling	Btu/h	7000-18000	7000-18000	8000-20000	8000-20000	10000-24000	10000-24000	14000-28000	14000-28000	18000-40000	18000-40000
Heating	Btu/h	8000-19000	8000-19000	9450	9450	13800	13800	21000	21000	28000-40000	28000-40000
Max input consumption		725	725	945	945	1380	1380	2100	2100	2275	2275
Max input current		3.30	3.30	4.30	4.30	6.30	6.30	9.55	9.55	10.35	10.35
Compressor	Model	STAC-018SPWM		STAC-021SPWM		STAC-027SPWM		STAC-036SPWM		STAC-048SPWM	
	Type	ROTARY		ROTARY		ROTARY		ROTARY		ROTARY	
	Brand	ECOLINE		ECOLINE		ECOLINE		ECOLINE		ECOLINE	
	Capacity	18000		24000		27000		36000		48000	
	Input	1035		1350		1970		3010		3250	
	Rated current(RLA)	4.7		6.14		8.95		13.7		14.8	
Outdoor fan motor	Locked rotor Amp(LRA)	A		A		A		A		A	
	Thermal protector position	A		A		A		A		A	
	Capacitor	µF		µF		µF		µF		µF	
	Refrigerant oil	ESTER OIL VG74/450		ESTER OIL VG74/450		ESTER OIL VG74/450		ESTER OIL VG74/450		ESTER OIL VG74/450	
	New Model	ZKFN-40-8-1L		ZKFN-50-8-2		ZKFN-50-8-2		ZKFN-50-8-2		ZKFN-120-8-2	
	Model	WZDK120-38G-W		WZDK120-38G-W		WZDK120-38G-W		WZDK120-38G-W		WZDK120-38G-W	
Outdoor coil	Qty	40(Output)		50		50		120(Output)		120(Output)	
	Output	W		W		W		W		W	
	Capacitor	µF		µF		µF		µF		µF	
	Speed(H/Med/L)	810		750		750		900		900	
	Number of rows	2		2		2		2		2	
	Tube pitch(e)* row pitch(b)	25.4x22		21x13.37		25.4x22		25.4x22		25.4x22	
Outdoor air flow	Fin spacing	1.4		1.2		1.4		1.3		1.3	
	Fin type	Hydrophilic aluminium		Hydrophilic aluminium		Hydrophilic aluminium		Hydrophilic aluminium		Hydrophilic aluminium	
	Tube outside dia. and type	Ø9.52, innergroove tube		Ø7, innergroove tube		Ø9.52, innergroove tube		Ø9.52, innergroove tube		Ø9.52, innergroove tube	
	Coil length * height * width	860x608x44		730x651x26.74		730x660x44		995x762x44		978x762x44+580x762x22	
	Number of circuits	4		6		4		4		4	
	Indoor air flow	2100		2700		3500		5500		5500	
Outdoor sound pressure level	Indoor sound power level	53		52		58		58		58	
	Outdoor sound pressure level	56.5		57.5		59.5		63.5		64	
	Outdoor sound power level	65		65		68		68		68	
	T throttle type	Capillary+EXV		Capillary+EXV		Capillary+EXV		Capillary+EXV		Capillary+EXV	
	Dimension(WxDxH)	800x333x554		845x363x702		845x363x702		946x410x810		946x410x810	
	Packing(WxDxH)	920x390x615		965x395x755		965x395x755		1090x500x875		1090x500x875	
Refrigerant	Net/Gross weight	36/39		47/50.2		52.7/56.1		70/75		76/81	
	Type	R513A		R513A		R513A		R513A		R513A	
	GWP	2088		2088		2088		2088		2088	
	Charged quantity	1.7		2.1		2.1		3		3.6	
	Design pressure	4.2/1.5		4.2/1.5		4.2/1.5		4.2/1.5		4.2/1.5	
	Liquid side/ Gas side	2 x Ø6.35/Ø9.52(1/4"/3/8")		3 x Ø6.35/Ø9.52(1/4"/3/8")		3 x Ø6.35/Ø9.52(1/4"/3/8")		4 x Ø6.35/Ø9.52+1xØ12.7(1/2")		5 x Ø6.35/Ø9.52+1xØ12.7(1/2")	
Refrigerant piping	Max length for all rooms	40		60		60		80		80	
	Max length for one indoor unit	25		30		30		35		35	
	Max height difference between indoor and outdoor unit	15		15		15		15		15	
	Max height difference between indoor units	10		10		10		10		10	
	Cooling	-15-50		-15-50		-15-50		-15-50		-15-50	
	Heating	-15-24		-15-24		-15-24		-15-24		-15-24	

Note:

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MULTI SPLIT WALL MOUNT

INDOOR: STAM-XXXSPWM

Model Multi Split Wall Mount (Indoor)		STAM-009SPWM	STAM-012SPWM	STAM-018SPWM
Power supply	V, Hz, Ph	220-240V, 50Hz, 1Ph	220-240V, 50Hz, 1Ph	220-240V, 50Hz, 1Ph
	Capacity	9000	12000	18000
Cooling	Input	24	24	34
	Rated current	A	0.1	0.15
Heating	Capacity	10000	13000	19000
	Input	24	24	34
	Rated current	A	0.1	0.15
	Model	YKFG-20-4-5	YKFG-20-4-5	ZKFP-30-8-3
Indoor fan motor	Input	45(Input)	45(Input)	30
	Capacitor	1.5	1.5	- -
	Speed(Hi/Mi/Lo)	1130 / 900 / 800	1130 / 900 / 800	1130 / 900 / 800
	a.Number of rows	2	2	2
Indoor coil	b. Tube pitch(a) x row pitch(b)	21x13.37	21x13.37	21x13.37
	c. Fin spacing	1.3	1.2	1.2
	d. Fin type (code)	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e. Tube outside dia. and type	Φ7, innergroove tube	Φ5, innergroove tube	Φ7, innergroove tube
	f. Coil length x height x width	510x84x13.37+510x189x26.74	595x84x19.5+595x210x19.5	750x294x26.74
	g. Number of circuits	2	3	3
Indoor air flow (Hi/Mi/Lo)		430/320/230	520/420/340	610/460/360
Indoor sound pressure level(Hi/Mi/Lo)		38/31/25	38/32/26	36/29/23
Indoor sound power level		dB(A)	52	55
Indoor unit	Dimension(W*D*H)	715x195x285	805x195x285	958x213x302
	Packing (W*D*H)	780x270x360	870x270x360	1035x295x380
	Net/Gross weight	6.5/8.5	7.5/9.5	8.5/12
	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")
Thermostat type		Remote Control	Remote Control	Remote Control
Room temperature	Cooling	°C	17-32	17-32
	Heating	°C	0-30	0-30
Operation temperature		°C	17-30	17-30

Note:
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