

TECHNICAL & SERVICE MANUAL SA



SAP-K71GJA + SAP-C71GA

SAP-K91GJA + SAP-C91GA

+ SAP-C91JA

SAP-K121GJA + SAP-C121GA

+ SAP-C121JA

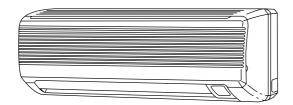
FILE NO.

SPLIT SYSTEM AIR CONDITIONER

Indoor Model No.	Product Code No.	Destination
SAP-K71GJA-S	1 852 070 36	General (50/60Hz)
SAP-K91GJA-S	1 852 070 37	General (50/60Hz)
SAP-K121GJA-S	1 852 069 63	General (50/60Hz)

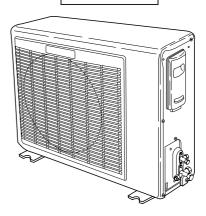
Outdoor Model No.	Product Code No.	Destination
SAP-C71GA-S	1 852 070 50	General (50Hz)
SAP-C91GA-S	1 852 070 52	General (50Hz)
SAP-C91JA-S	1 852 070 53	General (60Hz)
SAP-C121GA-S	1 852 069 64	General (50Hz)
SAP-C121JA-S	1 852 070 54	General (60Hz)







SAP-K71GJA SAP-K91GJA SAP-K121GJA Outdoor Unit



SAP-C71GA

SAP-C91GA

SAP-C91JA

SAP-C121GA

SAP-C121JA



Большая библиотека технической документации

https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html

каталоги, инструкции, сервисные мануалы, схемы.

Important!

Please Read Before Starting

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so it operates safely and efficiently.

For safe installation and trouble-free operation, you must:

- Carefully read this instruction booklet before beginning.
- Follow each installation or repair step exactly as shown
- Observe all local, state, and national electrical codes.
- Pay close attention to all warning and caution notices given in this manual.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

If Necessary, Get Help

These instructions are all you need for most installation sites and maintenance conditions. If you require help for a special problem, contact our sales/service outlet or your certified dealer for additional instructions.

In Case of Improper Installation

The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this document.

Special Precautions

WARNING

When Wiring



ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELECTRICIAN SHOULD ATTEMPT TO WIRE THIS SYSTEM.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause accidental injury or death.
- Ground the unit following local electrical codes.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.

When Transporting

Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

When Installing...

...In a Ceiling or Wall

Make sure the ceiling/wall is strong enough to hold the units weight. It may be necessary to construct a strong wood or metal frame to provide added support.

...In a Room

Properly insulate any tubing run inside a room to prevent "sweating" that can cause dripping and water damage to walls and floors.

...In Moist or Uneven Locations

Use a raised concrete pad or concrete blocks to provide a solid, level foundation for the outdoor unit. This prevents water damage and abnormal vibration.

...In an Area with High Winds

Securely anchor the outdoor unit down with bolts and a metal frame. Provide a suitable air baffle.

...In a Snowy Area (for Heat Pump-type Systems)
Install the outdoor unit on a raised platform that is
higher than drifting snow. Provide snow vents.

When Connecting Refrigerant Tubing

- · Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten the nut with a torque wrench for a leakfree connection.
- Check carefully for leaks before starting the test run.

When Servicing

- Turn the power off at the main power box (mains) before opening the unit to check or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.

Others



- Ventilate any enclosed areas when installing or testing the refrigeration system. Escaped refrigerant gas, on contact with fire or heat, can produce dangerously toxic gas.
- Confirm upon completing installation that no refrigerant gas is leaking. If escaped gas comes in contact with a stove, gas water heater, electric room heater or other heat source, it can produce dangerously toxic gas.

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1. OPERATING RANGE

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Caalina	Maximum	32°C D.B. / 23°C W.B.	43°C D.B.
Cooling	Minimum	19°C D.B. / 14°C W.B.	19°C D.B.

2. SPECIFICATIONS

2-1. Unit Specifications

Indoor Unit SAP-K71GJA
Outdoor Unit SAP-C71GA

Powe	er Source		220 – 240 V Sir	ngle phase 50 Hz		
Volta	ige rating		V	220 / 2	30 / 240	
Φ				Co	oling	
anc	Conneite		kW	2.05 / 2.05 / 2.05		
ırmı	Capacity		BTU/h	7,000 / 7,000 / 7,000		
Performance	Air circulation (High)		m ³ /h	370		
Δ	Moisture removal (High	า)	Liters/h	0.55		
D	Available voltage range	е	V	198	to 264	
Electrical Rating	Running amperes		А	3.0 / 3	3.0 / 3.0	
<u> </u>	Power input		W	640 / 6	60 / 680	
rica	Power factor		%	97 / 9	96 / 94	
lect	C.O.P.		W/W	3.20 / 3	.11 / 3.01	
Ш	Compressor locked rot	or amperes	А	16 / 1	17 / 17	
	Controls / Temperature	e control		Microprocessor	/ I.C. thermostat	
	Control unit			Wireless rem	ote control unit	
	Timer			1-hour OFF / 12	2-hour ON or OFF	
	Fan speeds	Fan speeds Indoor / Outdoor			3 and Auto / 1 (Hi)	
	Airflow direction (Indoor) Horizontal Vertical			Manual		
				Auto		
	Air filter			Washable	e, Anti-Mold	
es	Compressor			Rotary (Hermetic)	
Features	Refrigerant / Amount c	harged at shipmen	t g	R22 / 670		
Ьĕ	Refrigerant control			Capillary tube		
		Indoor – Hi / Me	/ Lo dB-A	36 / 33 / 31		
	Operation sound	Outdoor – Hi	dB-A		45	
	Refrigerant tubing con	nections		Flare	e type	
	Max. allowable tubing	length at shipment	m	7.5		
	Refrigerant tube	Narrow tube	mm (in.)	6.35	5 (1/4)	
	diameter	Wide tube	mm (in.)	9.52	2 (3/8)	
	Refrigerant tube kit / A	ccessories			ging wall bracket	
				Indoor Unit	Outdoor Unit	
٠	Unit dimensions	Height	mm	250	530	
ight		Width	mm	790	680	
We		Depth	mm	174	225	
≪ ග	Package dimensions	Height	mm	242	580	
ion		Width	mm	850	812	
Dimensions & Weight		Depth	mm	312	315	
Dim	Weight	Net	kg	7.0	25.0	
_		Shipping	kg	10.0	27.0	
	Shipping volume		m ³	0.06	0.15	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Remarks: Rating conditions are:

Cooling: Indoor air temperature 27°C DB / 19°C WB Outdoor air temperature 35°C DB / 24°C WB Indoor Unit SAP-K91GJA Outdoor Unit SAP-C91GA

Powe	er Source			220 – 240 V Sii	ngle phase 50 Hz
√olta	ge rating		V	220 / 2	30 / 240
Φ				Со	oling
anc	Canacity		kW	2.55 / 2	.55 / 2.55
Performance	Capacity		BTU/h	8,700 / 8,	700 / 8,700
erfc	Air circulation (High)	••••••	m ³ /h		30
₾.	Moisture removal (High) Liters/h			0	.80
\Box	Available voltage range	Available voltage range V			to 264
Electrical Rating	Running amperes		А	3.9 / 3	3.8 / 3.8
<u>~</u>	Power input		W	840 / 8	60 / 890
rica	Power factor		%	98 / 9	98 / 98
lect	C.O.P.		W/W	3.04 / 2	.97 / 2.87
Ц	Compressor locked rot	or amperes	А	19/2	20 / 21
	Controls / Temperature	control		Microprocessor	/ I.C. thermostat
	Control unit			Wireless rem	ote control unit
	Timer			1-hour OFF / 12	2-hour ON or OFF
	Fan speeds	Indo	or / Outdoor	3 and Auto / 1 (Hi)	
	Airflow direction (Indoor) Horizontal Vertical			Manual	
				Auto	
	Air filter			Washable	e, Anti-Mold
n D	Compressor				Hermetic)
018	Refrigerant / Amount c	Refrigerant / Amount charged at shipment g			/ 850
realures	Refrigerant control			Capillary tube	
		Indoor – Hi / Me /	Lo dB-A	39 / 3	37 / 33
	Operation sound	Outdoor – Hi	dB-A		44
	Refrigerant tubing con	nections		Flare type	
	Max. allowable tubing		m	7.5	
	Refrigerant tube	Narrow tube	mm (in.)	6.35	5 (1/4)
	diameter	Wide tube	mm (in.)	9.52	2 (3/8)
	Refrigerant tube kit / A	ccessories		Optional / Han	ging wall bracket
				Indoor Unit	Outdoor Unit
	Unit dimensions	Height	mm	250	530
5		Width	mm	790	680
) >		Depth	mm	174	225
<u>ა</u>	Package dimensions	Height	mm	242	580
<u> </u>		Width	mm	850	812
2		Depth	mm	312	315
Dimensions & weignt	Weight	Net	kg	7.0	29.0
_	J	Shipping	kg	10.0	31.0
	Shipping volume		m ³	0.06	0.15

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Remarks: Rating conditions are:
Cooling: Indoor air temperature 27°C DB / 19°C WB
Outdoor air temperature 35°C DB / 24°C WB

Indoor Unit SAP-K91GJA Outdoor Unit SAP-C91JA

Powe	er Source		220 V Single	phase 60 Hz		
/olta	ge rating		V	2	20	
Φ				Cod	oling	
anc	Capacity		kW	2.	55	
Performance	Capacity		BTU/h	8,700		
erfc	Air circulation (High)		m ³ /h	430		
ш	Moisture removal (High	h)	Liters/h	0.	85	
	Available voltage range	е	V	198 t	o 242	
Electrical Rating	Running amperes		А	4	.2	
<u>-</u>	Power input		W	8	90	
rica	Power factor		%	Ş	06	
<u>lect</u>	C.O.P.		W/W	2.	87	
Ш	Compressor locked rot	tor amperes	Α	2	23	
	Controls / Temperature	e control		Microprocessor	/ I.C. thermostat	
	Control unit			Wireless remo	ote control unit	
	Timer			1-hour OFF / 12	2-hour ON or OFF	
	Fan speeds	Fan speeds Indoor / Outdoor			3 and Auto / 1 (Hi)	
	Airflow direction (Indoor) Horizontal Vertical			Manual		
				Auto		
	Air filter			Washable	, Anti-Mold	
es	Compressor			Rotary (I	Hermetic)	
Features	Refrigerant / Amount c	Refrigerant / Amount charged at shipment g			/ 780	
Ε̈́	Refrigerant control			Capillary tube		
	Operation sound	Indoor – Hi / Me / L	o dB-A	39 / 3	37 / 33	
	Operation sound	Outdoor – Hi	dB-A	Δ		
	Refrigerant tubing con	nections		Flare type		
	Max. allowable tubing	length at shipment	m	7.5		
	Refrigerant tube	Narrow tube	mm (in.)	6.35 (1/4)		
	diameter	Wide tube	mm (in.)	9.52 (3/8)		
	Refrigerant tube kit / A	ccessories		Optional / Hang	ging wall bracket	
				Indoor Unit	Outdoor Unit	
_	Unit dimensions	Height	mm	250	530	
ighi		Width	mm	790	680	
We		Depth	mm	174	225	
න් ග	Package dimensions	Height	mm	242	580	
ion		Width	mm	850	812	
Dimensions & Weight		Depth	mm	312	315	
Dim	Weight	Net	kg	7.0	26.0	
_		Shipping	kg	10.0	28.0	
	Shipping volume		m ³	0.06	0.15	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Remarks: Rating conditions are:
Cooling: Indoor air temperature 27°C DB / 19°C WB
Outdoor air temperature 35°C DB / 24°C WB

Indoor Unit SAP-K121GJA
Outdoor Unit SAP-C121GA

owe	er Source		220 – 240 V Sir	ngle phase 50 Hz		
√olta	ge rating		V	220 / 2	30 / 240	
Φ				Cod	oling	
anc	Capacity		kW	3.40 / 3.	40 / 3.40	
Performance	Оараску		BTU/h	11,600 / 11,	600 / 11,600	
erfc	Air circulation (High)		m ³ /h	470		
۵	Moisture removal (Higl	h)	Liters/h	1	.1	
D	Available voltage range	е	V	198 t	to 264	
Electrical Rating	Running amperes		А	5.8 / 5	5.8 / 5.9	
<u>~</u>	Power input		W	1,240 / 1,2	250 / 1,290	
rica	Power factor		%	97 / 9	94 / 91	
<u>lect</u>	C.O.P.		W/W	2.74 / 2.	72 / 2.64	
Ш	Compressor locked rot	tor amperes	А	32 / 3	33 / 35	
	Controls / Temperature	e control		Microprocessor	/ I.C. thermostat	
	Control unit			Wireless remo	ote control unit	
	Timer			1-hour OFF / 12	2-hour ON or OFF	
	Fan speeds	Fan speeds Indoor / Outdoor			3 and Auto / Auto (Hi, Lo)	
	Airflow direction (Indoo	Airflow direction (Indoor)			Manual	
	Vertical			A	uto	
	Air filter			Washable	, Anti-Mold	
es.	Compressor			Rotary (I	Hermetic)	
Features	Refrigerant / Amount o	Refrigerant / Amount charged at shipment g			/ 875	
Н	Refrigerant control			Capillary tube		
	Operation sound	Indoor – Hi / Me / L	₋o dB-A	40 / 3	37 / 34	
	Operation sound	Outdoor – Hi	dB-A		16	
	Refrigerant tubing con	nections		Flare type		
	Max. allowable tubing	length at shipment	m	7.5		
	Refrigerant tube	Narrow tube	mm (in.)	6.35	(1/4)	
	diameter	Wide tube	mm (in.)	12.7 (1/2)		
	Refrigerant tube kit / A	ccessories		Optional / Hang	ging wall bracket	
				Indoor Unit	Outdoor Unit	
_	Unit dimensions	Height	mm	250	530	
ighi		Width	mm	790	680	
We		Depth	mm	174	225	
න් ග	Package dimensions	Height	mm	242	580	
ion		Width	mm	850	812	
Dimensions & Weight		Depth	mm	312	315	
Dim	Weight	Net	kg	7.0	32.0	
_		Shipping	kg	10.0	34.0	
	Shipping volume		m ³	0.06	0.15	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Remarks: Rating conditions are:

Cooling: Indoor air temperature 27°C D.B. / 19°C W.B.
Outdoor air temperature 35°C D.B. / 24°C W.B.

Indoor Unit SAP-K121GJA
Outdoor Unit SAP-C121JA

owe	er Source			220 V Single	phase 60 Hz	
/olta	ge rating		2	20		
Ф				Coo	oling	
anc	Capacity	kW		3.40		
Performance	Оараску		BTU/h	11,600		
erfo	Air circulation (High)		m ³ /h	470		
<u>п</u>	Moisture removal (High	٦)	Liters/h	1	.1	
g	Available voltage range	Э	V	198 1	to 242	
Electrical Rating	Running amperes		А	5	5.8	
<u>=</u>	Power input		W	1,2	240	
rice	Power factor		%	ę	97	
lect	C.O.P.		W/W	2.	74	
ш	Compressor locked rot	or amperes	А		34	
	Controls / Temperature	control		Microprocessor	/ I.C. thermostat	
	Control unit			Wireless rem	ote control unit	
	Timer			1-hour OFF / 12	2-hour ON or OFF	
	Fan speeds	Fan speeds Indoor / Outdoor			3 and Auto / Auto (Hi, Lo)	
	Airflow direction (Indoor)			Manual		
	Vertical			Auto		
	Air filter			Washable	, Anti-Mold	
es	Compressor	Compressor			Hermetic)	
Features	Refrigerant / Amount c	harged at shipmen	t g	R22 / 810		
Нĕ	Refrigerant control			Capillary tube		
	Operation sound	Indoor – Hi / Me /	/Lo dB-A	40 / 37 / 34		
	Operation sound	Outdoor – Hi	dB-A	Δ	16	
	Refrigerant tubing con	nections		Flare	e type	
	Max. allowable tubing	ength at shipment	m	7.5		
	Refrigerant tube	Narrow tube	mm (in.)	6.35	(1/4)	
	diameter	Wide tube	mm (in.)	12.7 (1/2)		
	Refrigerant tube kit / A	ccessories		Optional / Hang	ging wall bracket	
				Indoor Unit	Outdoor Unit	
	Unit dimensions	Height	mm	250	530	
ighi		Width	mm	790	680	
We		Depth	mm	174	225	
< ග	Package dimensions	Height	mm	242	580	
ion		Width	mm	850	812	
ens		Depth	mm	312	315	
Dimensions & Weight	Weight	Net	kg	7.0	32.0	
_	_	Shipping	kg	10.0	34.0	
	Shipping volume m ³			0.06	0.15	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Remarks: Rating conditions are:

Cooling: Indoor air temperature 27°C D.B. / 19°C W.B.
Outdoor air temperature 35°C D.B. / 24°C W.B.

2-2. Major Component Specifications

2-2-1. Indoor Unit

Indoor Unit SAP-K71GJA

ie	Part No.				POW–K71GJA		
Controller	Controls				Microprocessor		
ပိ	Control cir	cuit fuse			250 V – 3.15 A		
Remo	Remote Control Unit			RCS-2S2E			
	Туре				Cross-flow		
	Number	Dia. and length		mm	1 ø95 / L578		
	Fan motor	model Number			IBH-884-020 1		
	No. of pole	es50Hz rpm (High)			2 1,160		
	Nominal o	utput		W	20		
otor	Coil resista	ance (Ambient temp. 2	20°C)	Ω	WHT – BRN : 201		
Fan Motor					WHT – VLT : 261		
Fan & Far							
	Safety	Туре			Thermal fuse		
	devices	Operating temp.	Open	°C	130		
			Close		_		
	Run capac	citor		μF	1.5		
				VAC	440		
ō	Туре				Stepping motor		
Flap Motor	Model				MP24GA3		
ab	Rating				DC 12 V		
正	Coil resista	ance (Ambient temp. 2	25°C)	Ω	A pair of each terminal: 380 ± 7%		
<u>=</u>	Coil				Aluminum plate fin / Copper tube		
Heat ich. Coil	Rows				2		
Exch.	Fin pitch			mm	1.4		
ш	Face area			m ²	0.110		

Indoor Unit SAP-K91GJA

er	Part No.				POW-K91GJA
Controller	Controls				Microprocessor
Cor	Control cir	cuit fuse			250 V – 3.15 A
Remo	Remote Control Unit			RCS-2S2E	
	Туре				Cross-flow
	Number	Number Dia. and length mm			1 ø95 / L578
	Fan motor	model Number			IBH-884-020 1
	No. of pole	es50/60Hz rpm (Hig	jh)		2 1,280/1,280
	Nominal o	utput		W	20
otor	Coil resista	Coil resistance (Ambient temp. 20°C) Ω			WHT – BRN : 201
Σ					WHT – VLT : 261
Fan Motor					
Fan &					
Fa					
	Safety	Type			Thermal fuse
	devices	Operating temp.	Open	°C	130
	ļ		Close		_
	Run capac	citor		μF	1.5
			<u>'</u>	VAC	440
ō	Туре				Stepping motor
Flap Motor	Model				MP24GA3
lap	Rating				DC 12 V
Ш	Coil resista	ance (Ambient temp. 2	25°C)	Ω	A pair of each terminal: 380 ± 7%
l ie	Coil				Aluminum plate fin / Copper tube
Heat ch. Co	Rows				2
Heat Exch. Coil	Fin pitch			mm	1.4
Ш	Face area			m^2	0.110

Indoor Unit SAP-K121GJA

ler	Part No.	Part No.			POW-K121GJA
Controller	Controls				Microprocessor
Sor	Control cir	cuit fuse			250 V – 3.15 A
Remo	Remote Control Unit			RCS-2S2E	
	Туре				Cross-flow
	Number	Dia. and length		mm	1 ø95 / L578
		model Number			IBH-884-020 1
	No. of pole	es50/60Hz rpm (Hig	Jh)		2 1,340/1,360
	Nominal o	utput		W	20
otor	Coil resista	ance (Ambient temp. 2	20°C)	Ω	WHT – BRN : 201
Fan Motor					WHT – VLT : 261
Far					
Fan &					
T _e	· · · · · · · · · · · · · · · · · · ·				
	Safety	Туре			Thermal fuse
	devices	Operating temp.	Open	°C	130
			Close		_
	Run capac	citor		μF	1.5
			:	VAC	440
õ	Туре				Stepping motor
Mol	Model				MP24GA3
Flap Motor	Rating				DC 12 V
Ш	Coil resista	ance (Ambient temp. 2	25°C)	Ω	A pair of each terminal: 380 ± 7%
Coil	Coil				Aluminum plate fin / Copper tube
Heat ch. Co	Rows				2
Heg Exch.	Fin pitch			mm	1.4
Ш	Face area			m^2	0.110

2-2-2. Outdoor Unit

Outdoor Unit SAP-C71GA

	Туре				Rotary (H	ermetic)		
	Compressor model				C-1R65H5S 80665245-S			
	Nominal output W				650			
	Compres	sor oil Amount		CC	4GSD-T or SA	AY-56T 370		
<u>_</u>	Coil resis	stance (Ambient temp	. 25°C)	Ω	C – R :	: 4.68		
Compressor					C – S : 6.77			
pre		Туре			External (OLR A)	External (OLR T)		
Con	Safety	Overload relay			MRA99802-9201	CS-7C115		
O	devices	Operating temp.	Open	°C	145 ± 5	115 ± 3		
			Close	°C	69 ± 11	95 ± 5		
		Operating amp.(Am	bient temp. 25°	C)	Trip in 6 to 16 sec. at 13.8 A	<u> </u>		
	Run capa	acitor		μF	20	.0		
				VAC	400			
	Туре				Propeller			
	Number Dia. mm				1 ø 370			
	Fan motor model Number				UE6-21AH5PB-S 1			
	No. of poles rpm (230 V, High)				6 7	760		
oto	Nominal output W				20			
Ž	Coil resis	tance (Ambient temp.	20°C)	Ω	WHT – BRN : 338.3			
& Fan Motor					WHT – PNK : 389.7			
Fan	Safety	Туре			Thermal fuse			
	devices	Operating temp.	Open	°C	145 :	± 2		
			Close		_	-		
	Run capa	acitor		μF	1.9	5		
				VAC	440			
Ξ	Coil				Aluminum plate fin / Copper tube			
Heat Exch. Coil	Rows				1			
т С	Fin pitch			mm	1.3			
Ш	Face are	a		m ²	0.259			
Exter	nal Finish				Acrylic baked-or	n enamel finish		

Outdoor Unit SAP-C91GA

	Туре				Rotary (Hermetic)		
	Compres	sor model			C-R81H5Q 8	0682645–S	
Compressor	Nominal output W				800		
	Compres	sor oil Amount		СС	4GSD-T or SA	Y-56T 500	
	Coil resis	stance (Ambient temp	. 25°C)	Ω	C – R : :		
					C-S:		
		Туре			External (OLR A)	External (OLR T)	
	Safety	Overload relay			MRA99109-9201	CS-7C115	
Ŭ	devices	Operating temp.	Open	°C	150 ± 5	115 ± 3	
	•		Close	°C	69 ± 11	95 ± 5	
		Operating amp.(Am	bient temp. 25	°C)	Trip in 6 to 16 sec. at 16 A	<u> </u>	
	Run capa	acitor		μF	22.5		
				VAC	400		
	Туре				Propeller		
	Number Dia. mm				1 ø 3	370	
	Fan motor model Number				UE6-21AH5PB-S 1		
	No. of poles rpm (230 V, High)				6 70	60	
otor	Nominal output W				20		
Ĕ	Coil resis	tance (Ambient temp.	20°C)	Ω	WHT – BRN	l : 338.3	
Fan & Fan Motor					WHT – PNK : 389.7		
Fan	Safety	Туре			Thermal fuse		
	devices	Operating temp.	Open	°C	145 ± 2		
	•		Close		_		
	Run capa	acitor		μF	1.5		
				VAC	440		
- ie	Coil				Aluminum plate fin / Copper tube		
, S at	Rows				1		
Heat Exch. Coil	Fin pitch			mm	1.3		
Ш	Face are	a		m ²	0.33	3	
Exter	nal Finish				Acrylic baked-on	enamel finish	

Outdoor Unit SAP-C91JA

	Туре				Rotary (Hermetic)			
	Compressor model				C-1R71H6V 80688846-S			
Compressor	Nominal output W				700			
	Compres	sor oil Amount		CC	4GSD-T or SAY	/-56T 320		
	Coil resis	stance (Ambient temp	. 25°C)	Ω	C – R : 2	2.87		
					C – S : 3.29			
		Туре			External (OLR A)	External (OLR T)		
	Safety	Overload relay			MRA99053-9201	CS-7C115		
O	devices	Operating temp.	Open	°C	145 ± 5	115 ± 3		
			Close	°C	69 ± 11	95 ± 5		
		Operating amp.(Am	bient temp. 25	°C)	Trip in 6 to 16 sec. at 16.5 A	<u> </u>		
	Run capa	acitor		μF	25.0			
				VAC	400			
	Туре				Propeller			
	Number Dia. mm				1 ø 370			
	Fan motor model Number				UE6-21AH5PB-S 1			
	No. of poles rpm (220 V, High)				6 72	20		
otor	Nominal output W				20			
Ĭ	Coil resis	tance (Ambient temp.	20°C)	Ω	WHT – BRN	: 338.3		
Fan & Fan Motor					WHT – PNK : 389.7			
Fan	Safety	Туре			Thermal fuse			
	devices	Operating temp.	Open	°C	145 ± 2			
			Close		_			
	Run capa	acitor		μF	1.5			
				VAC	440			
ij	Coil				Aluminum plate fin / Copper tube			
Heat Exch. Coil	Rows				1			
ж Қ	Fin pitch			mm	1.3			
Ú.	Face are	a		m ²	0.333	3		
Exter	nal Finish				Acrylic baked-on	enamel finish		

Outdoor Unit SAP-C121GA

	Туре				Rotary (Hermetic)		
	Compres	sor model			C-R112H5X 80616745-S		
	Nominal	output		W	1,100		
	Compres	sor oil Amount		СС	4GSD-T or SAY-56T 550		
_	Coil resis	stance (Ambient temp	. 25°C)	Ω	C – R : 1.96		
SSO					C – S : 5.38		
pre		Туре			External (OLR A)		
Compressor	Safety	Overload relay			MRA99122-9201		
O	devices	Operating temp.	Open	°C	145 ± 5		
			Close	°C	69 ± 11		
		Operating amp.(Am	bient temp. 25	°C)	Trip in 6 to 16 sec. at 25 A		
	Run capa	acitor		μF	25.0		
				VAC	400		
	Туре				Propeller		
	Number	Dia.		mm	1 ø 370		
	Fan moto	or model Number			UE6S-21AC5P-S 1		
	No. of po	les rpm (230 V, Hi	gh)		6 750		
otor	Nominal	output		W	20		
& Fan Motor	Coil resis	tance (Ambient temp.	20°C)	Ω	BRN – WHT : 341.2		
Far					WHT – YEL : 212.7		
<u>«</u>					YEL – PNK : 190.0		
Fan	Safety	Туре			Thermal fuse		
	devices	Operating temp.	Open	°C	145 ± 2		
			Close		_		
	Run capa	acitor		μF	1.5		
				VAC	440		
i <u>e</u>	Coil				Aluminum plate fin / Copper tube		
Heat Exch. Coil	Rows				2		
Ť Ś	Fin pitch			mm	1.2		
	Face are	a		m ²	0.315		
Exter	nal Finish				Acrylic baked-on enamel finish		

Outdoor Unit SAP-C121JA

	Туре				Rotary (Hermetic)		
	Compres	sor model			C-R101H6Z 80611146-S		
	Nominal output W				1,000		
	Compres	sor oil Amount		СС	4GSD-T or SA	Y-56T 500	
_	Coil resis	tance (Ambient temp	. 25°C)	Ω	C – R :	1.75	
Compressor					C-S:	4.11	
pre		Туре			External (OLR A)	External (OLR T)	
Son	Safety	Overload relay			MRA98596-9201	CS-7C115	
O	devices	Operating temp.	Open	°C	145 ± 5	115 ± 3	
			Close	°C	69 ± 11	95 ± 5	
		Operating amp.(Am	bient temp. 25°	C)	Trip in 6 to 16 sec. at 21 A	<u> </u>	
	Run capa	acitor		μF	22.	5	
				VAC	400)	
	Туре				Propeller		
	Number Dia. mm			mm	1 ø 370		
	Fan motor model Number				UE6S-21AC	C5P-S 1	
	No. of poles rpm (220 V, High)				6 780		
otor	Nominal output W				20		
& Fan Motor	Coil resis	tance (Ambient temp.	20°C)	Ω	BRN – WHT : 341.2		
Far					WHT – YEL : 212.7		
∞ <					YEL – PNK : 190.0		
Fan 8	Safety	Туре			Thermal fuse		
	devices	Operating temp.	Open	°C	145 ±	± 2	
			Close				
	Run capa	acitor		μF	1.5	<u>, </u>	
				VAC	440		
at Coil	Coil				Aluminum plate fin / Copper tube		
Heat ch. Co	Rows				2		
Hez Exch.	Fin pitch			mm	1.2		
ш	Face are	a		m ²	0.31	· ·	
Exter	nal Finish				Acrylic baked-on	enamel finish	

2-3. Other Component Specifications

Indoor Unit SAP-K71GJA

SAP-K91GJA SAP-K121GJA

Transformer (TR)		ATR-J105			
Rating Primary		AC 230V, 50/60 Hz			
	Secondary	19V, 0.526A			
	Capacity	10VA			
Coil resistance	Ω (at 21°C)	Primary (WHT – WHT): 205 ± 10%			
		Secondary (BRN – BRN): 2.0 ± 10%			
Thermal cut-off tem	p.	150°C			

Thermistor (Coil se	ensor)	DTN-TKS131B
Resistance	kΩ	0°C 15.0 ± 2%

Thermistor (Room sensor)	DTN-TKS128B			
Resistance kΩ	25°C 5.0 ± 3%			

Outdoor Unit SAP-C71GA

SAP-C91GA SAP-C91JA SAP-C121GA SAP-C121JA

Power Relay (PR)		G7L-2A-TUB
Coil rating		AC 200-240V, 50/60Hz
Coil resistance	Ω (at 23°C)	21 ± 15%
Contact rating		AC 220V, 25A

Thermostat (Fan Speed Control 23S)	MQT5S		
Switching temp. °C	high → LOW 28.5°C ± 1.5		
	low → HIGH 31.5°C ± 2		
Contact rating	AC 220V, 3A		

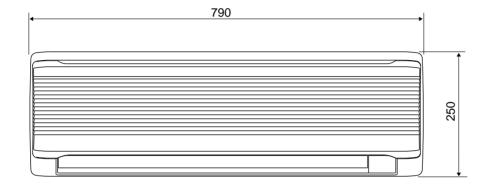
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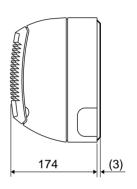
3. DIMENSIONAL DATA

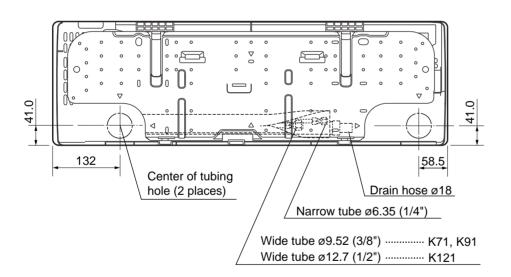
Indoor Unit SAP-K71GJA

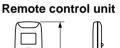
SAP-K91GJA SAP-K121GJA

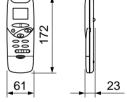






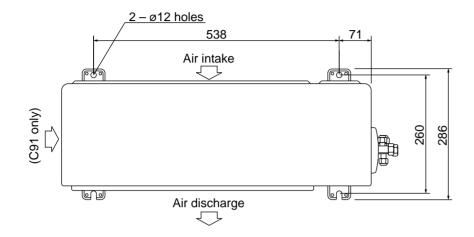


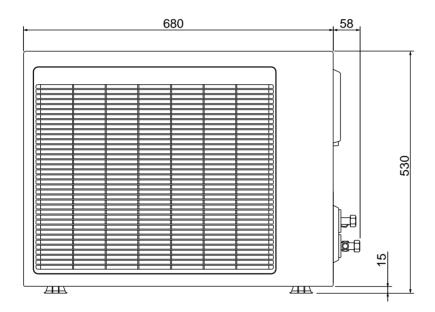


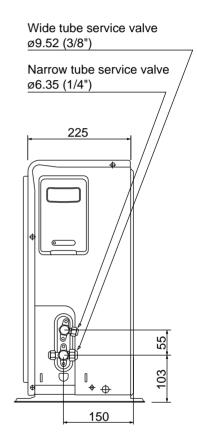


Unit: mm

Outdoor Unit SAP-C71GA SAP-C91GA SAP-C91JA

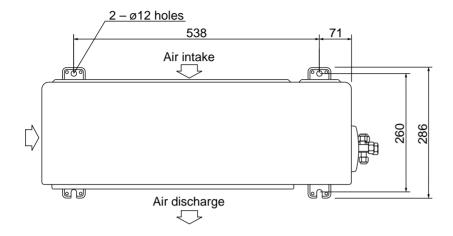


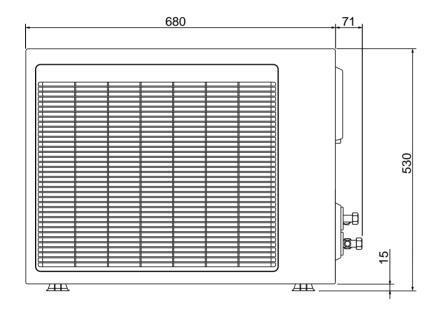


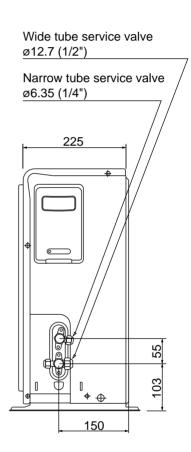


Unit: mm

Outdoor Unit SAP-C121GA SAP-C121JA







Unit: mm

REFRIGERANT FLOW DIAGRAM

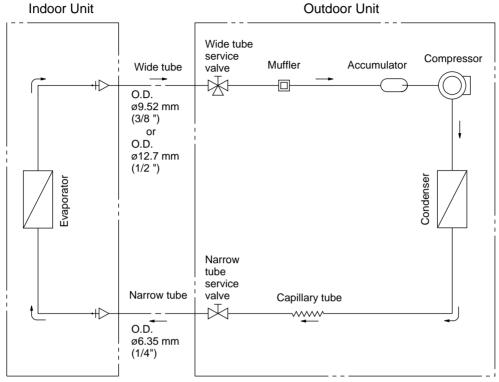
SAP-K71GJA SAP-C71GA Indoor Unit **Outdoor Unit** SAP-K91GJA

SAP-C91GA SAP-C121GA

SAP-C91JA SAP-C121JA

SAP-K121GJA

Outdoor Unit



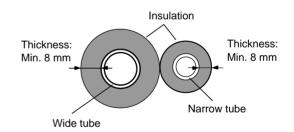
Insulation of Refrigerant Tubing

IMPORTANT

Because capillary tubing is used in the outdoor unit, both the wide and narrow tubes of this air conditioner become cold. To prevent heat loss and wet floors due to dripping of condensation, both tubes must be well insulated with a proper insulation material. The thickness of the insulation should be a min. 8 mm.



After a tube has been insulated, never try to bend it into a narrow curve because it can cause the tube to break or crack.

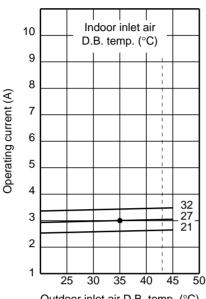


5. PERFORMANCE DATA

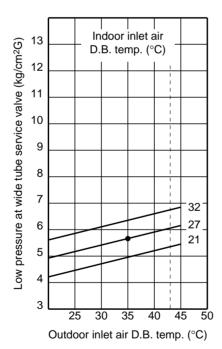
5-1. Performance charts

Indoor Unit SAP-K71GJA SAP-C71GA **Outdoor Unit**

; Cooling Characteristics



Outdoor inlet air D.B. temp. (°C)



NOTE

Points of Rating condition

Black dots in above charts indicate the following rating conditions.

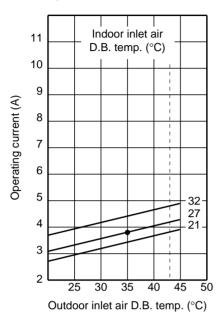
Cooling: Indoor air temperature 27°C D.B./19°C W.B.

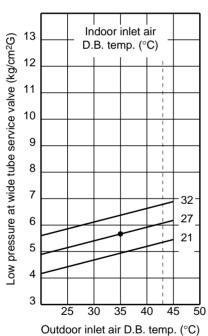
Outdoor air temperature 35°C D.B./24°C W.B.

Indoor Unit SAP-K91GJA
Outdoor Unit SAP-C91GA

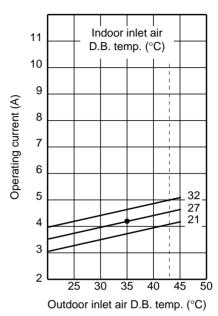
Indoor Unit SAP-K91GJA
Outdoor Unit SAP-C91JA

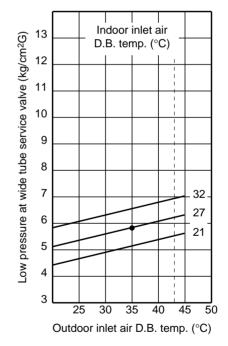
■ Cooling Characteristics





■ Cooling Characteristics





NOTE

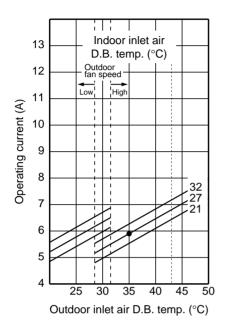
Points of Rating condition

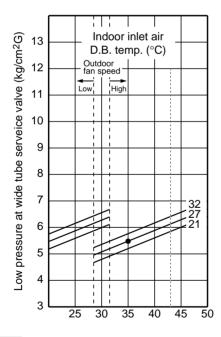
Black dots in above charts indicate the following rating conditions.

Cooling: Indoor air temperature 27°C D.B./19°C W.B. Outdoor air temperature 35°C D.B./24°C W.B.

Indoor Unit SAP-K121GJA
Outdoor Unit SAP-C121GA

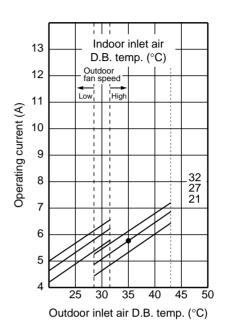
■ Cooling Characteristics

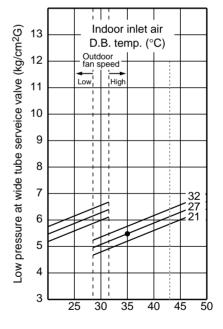




Indoor Unit SAP-K121GJA
Outdoor Unit SAP-C121JA

■ Cooling Characteristics





NOTE

Points of Rating condition

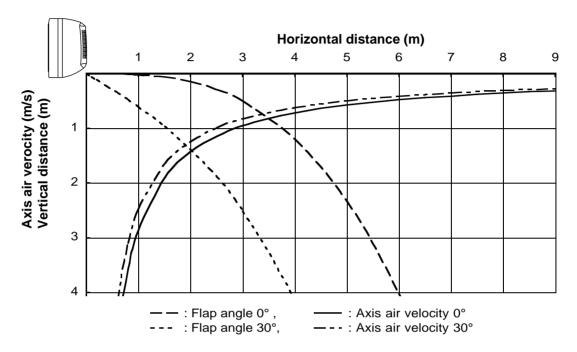
Black dots in above charts indicate the following rating conditions.

Cooling: Indoor air temperature 27°C D.B./19°C W.B. Outdoor air temperature 35°C D.B./24°C W.B.

5-2. Air Throw Distance Chart

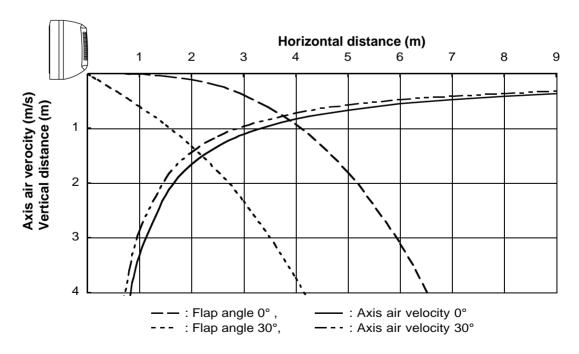
Indoor Unit SAP-K71GJA

Room air temp. : 27° C Fan speed : High



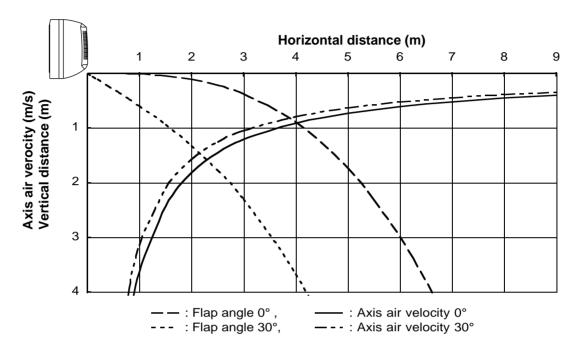
Indoor Unit SAP-K91GJA

Room air temp. : 27°C Fan speed : High



Indoor Unit SAP-K121GJA

Room air temp. : 27° C Fan speed : High



5-3. Cooling Capacity

Indoor Unit SAP-K71GJA
Outdoor Unit SAP-C71GA

240V Single Phase 50Hz

RATING CAPACITY 2.05 kW									
AIR FL	OW RATI	=	370	m³/h					
EVAPOR	RATOR	CONDENSER							
ENT. TE	MP. °C	OUTDOOR AMBIENT TEMP. ℃							
W.B.	D.B.		20	25	30	35	40	43	
		TC	2.07	1.98	1.89	1.80	1.69	1.55	
		СМ	0.45	0.48	0.52	0.56	0.61	0.67	
	21	SHC	1.43	1.38	1.34	1.30	1.24	1.18	
15	23	SHC	1.61	1.57	1.52	1.48	1.43	1.37	
	25	SHC	1.80	1.75	1.71	1.67	1.61	1.55	
	27	SHC	1.99	1.94	1.89	1.80	1.69	1.55	
	29	SHC	2.07	1.98	1.89	1.80	1.69	1.55	
	31	SHC	2.07	1.98	1.89	1.80	1.69	1.55	
		TC	2.22	2.12	2.02	1.93	1.81	1.67	
		СМ	0.46	0.50	0.53	0.57	0.63	0.68	
	21	SHC	1.24	1.19	1.15	1.10	1.05	0.99	
17	23	SHC	1.42	1.38	1.33	1.29	1.24	1.18	
	25	SHC	1.61	1.56	1.52	1.48	1.42	1.36	
	27	SHC	1.79	1.75	1.71	1.66	1.61	1.55	
	29	SHC	1.98	1.94	1.89	1.85	1.80	1.67	
	31	SHC	2.17	2.12	2.02	1.93	1.81	1.67	
		TC	2.36	2.26	2.15	# 2.05	1.93	1.77	
		CM	0.47	0.51	0.55	0.59	0.65	0.70	
	21	SHC	1.04	0.99	0.95	0.91	0.85	0.79	
19	23	SHC	1.22	1.18	1.13	1.09	1.04	0.98	
	25	SHC	1.41	1.36	1.32	1.28	1.23	1.16	
	27	SHC	1.59	1.55	1.51	1.46	1.41	1.35	
	29	SHC	1.78	1.74	1.69	1.65	1.60	1.53	
	31	SHC	1.97	1.92	1.88	1.83	1.78	1.72	
		TC	2.50	2.39	2.28	2.17	2.04	1.88	
		CM	0.49	0.53	0.56	0.61	0.66	0.72	
	23	SHC	1.02	0.98	0.93	0.89	0.84	0.78	
21	25	SHC	1.21	1.16	1.12	1.08	1.03	0.97	
	27	SHC	1.39	1.35	1.31	1.26	1.21	1.15	
	29	SHC	1.58	1.53	1.49	1.45	1.40	1.34	
	31	SHC	1.76	1.72	1.68	1.63	1.58	1.52	
		TC	2.65	2.54	2.42	2.28	2.14	1.99	
		СМ	0.50	0.54	0.58	0.62	0.68	0.74	
23	25	SHC	0.99	0.95	0.91	0.86	0.81	0.76	
	27	SHC	1.18	1.14	1.09	1.04	0.99	0.94	
	29	SHC	1.37	1.32	1.28	1.23	1.18	1.13	
TC ·	31	SHC	1.55	1.51	1.46	1.42	1.36	1.31	

TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
CM: Compressor Input (kW)
Rating conditions (#Mark) are

Outdoor Ambient Temp. 35°C D.B.

Indoor Unit SAP-K91GJA
Outdoor Unit SAP-C91GA

240V Single Phase 50Hz

RATING CAPACITY 2.55 kW									
AIR FL	OW RATE	430 m ³ /h							
EVAPO	RATOR	CONDENSER							
ENT. TE	MP. °C	OUTDOOR AMBIENT TEMP. ℃							
W.B.	D.B.		20	25	30	35	40	43	
		TC	2.57	2.46	2.35	2.23	2.10	1.93	
		CM	0.60	0.65	0.69	0.75	0.82	0.89	
	21	SHC	1.73	1.67	1.62	1.56	1.49	1.41	
15	23	SHC	1.94	1.88	1.83	1.77	1.70	1.62	
	25	SHC	2.15	2.09	2.04	1.98	1.91	1.83	
	27	SHC	2.36	2.30	2.25	2.19	2.10	1.93	
	29	SHC	2.57	2.46	2.35	2.23	2.10	1.93	
	31	SHC	2.57	2.46	2.35	2.23	2.10	1.93	
		TC	2.76	2.64	2.52	2.40	2.25	2.07	
		CM	0.62	0.67	0.71	0.77	0.84	0.91	
	21	SHC	1.52	1.46	1.40	1.35	1.28	1.20	
17	23	SHC	1.73	1.67	1.61	1.56	1.49	1.41	
	25	SHC	1.94	1.88	1.82	1.77	1.70	1.62	
	27	SHC	2.15	2.09	2.03	1.97	1.91	1.83	
	29	SHC	2.36	2.30	2.24	2.18	2.12	2.04	
	31	SHC	2.57	2.51	2.45	2.39	2.25	2.07	
		TC	2.93	2.81	2.68	# 2.55	2.40	2.21	
		CM	0.64	0.69	0.74	0.79	0.87	0.94	
	21	SHC	1.29	1.23	1.18	1.12	1.05	0.97	
19	23	SHC	1.50	1.44	1.39	1.33	1.26	1.18	
	25	SHC	1.71	1.65	1.60	1.54	1.47	1.39	
	27	SHC	1.92	1.86	1.81	1.75	1.68	1.60	
	29	SHC	2.13	2.07	2.01	1.96	1.89	1.81	
	31	SHC	2.34	2.28	2.22	2.17	2.10	2.02	
		TC	3.11	2.97	2.84	2.70	2.54	2.34	
		CM	0.65	0.71	0.76	0.81	0.89	0.97	
	23	SHC	1.27	1.21	1.16	1.10	1.04	0.96	
21	25	SHC	1.48	1.42	1.37	1.31	1.25	1.17	
	27	SHC	1.69	1.63	1.58	1.52	1.46	1.38	
	29	SHC	1.90	1.84	1.79	1.73	1.67	1.59	
	31	SHC	2.11	2.05	2.00	1.94	1.88	1.80	
		TC	3.30	3.16	3.01	2.84	2.66	2.47	
		CM	0.67	0.73	0.78	0.83	0.91	0.99	
23	25	SHC	1.24	1.18	1.12	1.06	1.00	0.93	
	27	SHC	1.45	1.39	1.33	1.27	1.20	1.14	
	29	SHC	1.66	1.60	1.54	1.48	1.41	1.35	
TO :	31	SHC	1.87	1.81	1.75	1.69	1.62	1.56	

TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
CM: Compressor Input (kW)
Rating conditions (#Mark) are

Outdoor Ambient Temp. 35°C D.B.

Indoor Unit SAP-K91GJA
Outdoor Unit SAP-C91JA

220V Single Phase 60Hz

RATIN	RATING CAPACITY 2.55 kW												
AIR FL	OW RATE	Ξ	430	m ³ /h									
EVAPO	RATOR			C	ONDENS	ER							
ENT. TE	MP. °C		OUTDOOR AMBIENT TEMP. °C										
W.B.	D.B.		20	25	30	35	40	43					
		TC	2.57	2.46	2.35	2.23	2.10	1.93					
		СМ	0.60	0.65	0.69	0.75	0.82	0.89					
	21	SHC	1.73	1.67	1.62	1.56	1.49	1.41					
15	23	SHC	1.94	1.88	1.83	1.77	1.70	1.62					
	25	SHC	2.15	2.09	2.04	1.98	1.91	1.83					
	27	SHC	2.36	2.30	2.25	2.19	2.10	1.93					
	29	SHC	2.57	2.46	2.35	2.23	2.10	1.93					
	31	SHC	2.57	2.46	2.35	2.23	2.10	1.93					
		TC	2.76	2.64	2.52	2.40	2.25	2.07					
		CM	0.62	0.67	0.71	0.77	0.84	0.91					
	21	SHC	1.52	1.46	1.40	1.35	1.28	1.20					
17	23	SHC	1.73	1.67	1.61	1.56	1.49	1.41					
	25	SHC	1.94	1.88	1.82	1.77	1.70	1.62					
	27	SHC	2.15	2.09	2.03	1.97	1.91	1.83					
	29	SHC	2.36	2.30	2.24	2.18	2.12	2.04					
	31	SHC	2.57	2.51	2.45	2.39	2.25	2.07					
		TC	2.93	2.81	2.68	# 2.55	2.40	2.21					
		CM	0.64	0.69	0.74	0.79	0.87	0.94					
	21	SHC	1.29	1.23	1.18	1.12	1.05	0.97					
19	23	SHC	1.50	1.44	1.39	1.33	1.26	1.18					
	25	SHC	1.71	1.65	1.60	1.54	1.47	1.39					
	27	SHC	1.92	1.86	1.81	1.75	1.68	1.60					
	29	SHC	2.13	2.07	2.01	1.96	1.89	1.81					
	31	SHC	2.34	2.28	2.22	2.17	2.10	2.02					
		TC	3.11	2.97	2.84	2.70	2.54	2.34					
		СМ	0.65	0.71	0.76	0.81	0.89	0.97					
	23	SHC	1.27	1.21	1.16	1.10	1.04	0.96					
21	25	SHC	1.48	1.42	1.37	1.31	1.25	1.17					
	27	SHC	1.69	1.63	1.58	1.52	1.46	1.38					
	29	SHC	1.90	1.84	1.79	1.73	1.67	1.59					
	31	SHC	2.11	2.05	2.00	1.94	1.88	1.80					
		TC	3.30	3.16	3.01	2.84	2.66	2.47					
		CM	0.67	0.73	0.78	0.83	0.91	0.99					
23	25	SHC	1.24	1.18	1.12	1.06	1.00	0.93					
	27	SHC	1.45	1.39	1.33	1.27	1.20	1.14					
	29	SHC	1.66	1.60	1.54	1.48	1.41	1.35					
	31	SHC	1.87	1.81	1.75	1.69	1.62	1.56					

TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
CM: Compressor Input (kW)
Rating conditions (#Mark) are

Outdoor Ambient Temp. 35°C D.B.

Indoor Unit SAP-K121GJA
Outdoor Unit SAP-C121GA

240V Single Phase 50Hz

RATING CAPACITY 3.40 kW											
AIR FL	OW RATE										
EVAPO	RATOR		CONDENSER								
ENT. TE	MP. ℃	OUTDOOR AMBIENT TEMP. °C									
W.B.	D.B.		30	35	40	43					
		TC	3.13	2.98	2.80	2.58					
		CM	1.05	1.13	1.17	1.36					
	21	SHC	2.07	1.99	1.89	1.78					
15	23	SHC	2.30	2.22	2.13	2.01					
	25	SHC	2.53	2.45	2.36	2.24					
	27	SHC	2.76	2.68	2.59	2.48					
	29	SHC	3.00	2.92	2.80	2.58					
	31	SHC	3.13	2.98	2.80	2.58					
		TC	3.36	3.20	3.00	2.76					
		CM	1.08	1.16	1.20	1.39					
	21	SHC	1.83	1.75	1.66	1.54					
17	23	SHC	2.07	1.98	1.89	1.77					
	25	SHC	2.30	2.22	2.12	2.01					
	27	SHC	2.53	2.45	2.35	2.24					
	29	SHC	2.76	2.68	2.58	2.47					
	31	SHC	2.99	2.91	2.82	2.70					
		TC	3.57	# 3.40	3.20	2.94					
		СМ	1.11	1.19	1.24	1.43					
	21	SHC	1.58	1.50	1.41	1.29					
19	23	SHC	1.81	1.73	1.64	1.53					
	25	SHC	2.05	1.97	1.87	1.76					
	27	SHC	2.28	2.20	2.10	1.99					
	29	SHC	2.51	2.43	2.33	2.22					
	31	SHC	2.74	2.66	2.57	2.45					
		TC	3.78	3.60	3.39	3.12					
		СМ	1.14	1.23	1.28	1.47					
	23	SHC	1.56	1.48	1.39	1.27					
21	25	SHC	1.79	1.71	1.62	1.50					
	27	SHC	2.02	1.94	1.85	1.74					
	29	SHC	2.25	2.17	2.08	1.97					
	31	SHC	2.48	2.40	2.31	2.20					
		TC	4.01	3.78	3.54	3.29					
l _		CM	1.17	1.26	1.31	1.50					
23	25	SHC	1.51	1.42	1.33	1.23					
	27	SHC	1.75	1.66	1.56	1.47					
	29	SHC	1.98	1.89	1.79	1.70					
	31	SHC	2.21	2.12	2.02	1.93					

TC: Total Cooling Capacity (kW)
SHC: Sensible Heat Capacity (kW)
CM: Compressor Input (kW)
Rating conditions (#Mark) are

Outdoor Ambient Temp. 35°C D.B.

Indoor Unit SAP-K121GJA
Outdoor Unit SAP-C121JA

220V Single Phase 60Hz

RATING CAPACITY 3.40 kW										
AIR FL	OW RATE									
	RATOR			CONDENS						
ENT. TE	MP. ℃	C	OUTDOOR AMBIENT TEMP. °C							
W.B.	D.B.		30	35	40	43				
		TC	3.13	2.98	2.80	2.58				
		СМ	1.01	1.09	1.13	1.31				
	21	SHC	2.07	1.99	1.90	1.79				
15	23	SHC	2.31	2.23	2.13	2.02				
	25	SHC	2.54	2.46	2.36	2.25				
	27	SHC	2.77	2.69	2.59	2.48				
	29	SHC	3.00	2.92	2.80	2.58				
	31	SHC	3.13	2.98	2.80	2.58				
		TC	3.36	3.20	3.00	2.76				
		СМ	1.04	1.12	1.16	1.34				
	21	SHC	1.84	1.76	1.66	1.55				
17	23	SHC	2.07	1.99	1.89	1.78				
	25	SHC	2.30	2.22	2.13	2.01				
	27	SHC	2.53	2.45	2.36	2.24				
	29	SHC	2.76	2.68	2.59	2.47				
	31	SHC	3.00	2.91	2.82	2.71				
		TC	3.57	# 3.40	3.20	2.94				
		CM	1.07	1.15	1.20	1.38				
	21	SHC	1.59	1.51	1.41	1.30				
19	23	SHC	1.82	1.74	1.64	1.53				
	25	SHC	2.05	1.97	1.88	1.76				
	27	SHC	2.28	2.20	2.11	1.99				
	29	SHC	2.51	2.43	2.34	2.22				
	31	SHC	2.74	2.66	2.57	2.46				
		TC	3.78	3.60	3.39	3.12				
		CM	1.10	1.18	1.23	1.42				
04	23	SHC	1.56	1.48	1.39	1.28				
21	25	SHC	1.79	1.71	1.62	1.51				
	27	SHC	2.03	1.95	1.85	1.74				
	29	SHC	2.26	2.18	2.09	1.97				
	31	SHC	2.49	2.41	2.32	2.20				
		TC	4.01	3.78	3.54	3.29				
	25	CM	1.13	1.21	1.27	1.45				
23	25	SHC	1.52	1.43	1.33	1.24				
	27	SHC	1.75	1.66	1.57	1.47				
	29	SHC	1.98	1.89	1.80	1.70				
	31	SHC	2.21	2.12	2.03	1.93				

TC: Total Cooling Capacity (kW) SHC: Sensible Heat Capacity (kW) CM: Compressor Input (kW)

Rating conditions (#Mark) are

Outdoor Ambient Temp. 35°C D.B.

6. ELECTRICAL DATA

6-1. Electrical Characteristics

Indoor Unit SAP-K71GJA
Outdoor Unit SAP-C71GA

							Indoor Unit	Outdoor Unit		Complete Unit
			Fan Motor	Fan Motor	Compressor					
Performance at				220 – 240V Sin	gle phase 50Hz					
Rating Conditions	Running Amps.	Α	0.13 / 0.14	0.24 / 0.25	2.63 / 2.61	3.0 / 3.0				
	Power Input	kW	0.026 / 0.031	0.052 / 0.060	0.562 / 0.589	0.64 / 0.68				
Full Load Conditions	Running Amps.	Α	0.13 / 0.14	0.24 / 0.25	3.33 / 3.21	3.7 / 3.6				
	Power Input	kW	0.026 / 0.031	0.052 / 0.060	0.712 / 0.739	0.79 / 0.83				

Rating Conditions : Indoor Air Temperature 27°C D.B. / 19°C W.B.

Outdoor Air Temperature 35°C D.B.

Full Load Conditions: Indoor Air Temperature 32°C D.B. / 23°C W.B.

Outdoor Air Temperature 43°C D.B.

Indoor Unit SAP-K91GJA
Outdoor Unit SAP-C91GA

					Indoor Unit	Outdoor Unit		Complete Unit
			Fan Motor	Fan Motor	Compressor			
Performance at				220 – 240V Sin	gle phase 50Hz			
Rating Conditions	Running Amps.	Α	0.17 / 0.18	0.24 / 0.25	3.49 / 3.37	3.9 / 3.8		
	Power Input	kW	0.034 / 0.040	0.052 / 0.060	0.754 / 0.790	0.84 / 0.89		
Full Load Conditions	Running Amps.	Α	0.17 / 0.18	0.24 / 0.25	4.49 / 4.27	4.9 / 4.7		
	Power Input	kW	0.034 / 0.040	0.052 / 0.060	0.964 / 0.990	1.05 / 1.09		

Rating Conditions : Indoor Air Temperature 27°C D.B. / 19°C W.B.

Outdoor Air Temperature 35°C D.B.

Full Load Conditions: Indoor Air Temperature 32°C D.B. / 23°C W.B.

Outdoor Air Temperature 43°C D.B.

Indoor Unit SAP-K91GJA
Outdoor Unit SAP-C91JA

		Indoor Unit	Outdoor Unit		Complete Unit
		Fan Motor	Fan Motor	Compressor	
Performance at			220V Single	phase 60Hz	
Rating Conditions	Running Amps. A	0.15	0.27	3.78	4.2
	Power Input kW	0.031	0.060	0.799	0.89
Full Load Conditions Running Amps. A		0.15	0.27	4.58	5.0
	Power Input kW	0.031	0.060	0.979	1.07

Rating Conditions : Indoor Air Temperature 27°C D.B. / 19°C W.B.

Outdoor Air Temperature 35°C D.B.

Full Load Conditions: Indoor Air Temperature 32°C D.B. / 23°C W.B.

Outdoor Air Temperature 43°C D.B.

Indoor Unit SAP-K121GJA
Outdoor Unit SAP-C121GA

			Indoor Unit	Outdoor Unit		Complete Unit
			Fan Motor	Fan Motor	Compressor	
Performance at				220 / 240V Sin	gle phase 50Hz	
Rating Conditions	Running Amps.	Α	0.17 / 0.18	0.23 / 0.24	5.40 / 5.48	5.8 / 5.9
	Power Input	kW	0.034 / 0.040	0.050 / 0.058	1.156 / 1.192	1.24 / 1.29
Full Load Conditions	Running Amps.	Α	0.17 / 0.18	0.23 / 0.24	6.80 / 6.78	7.2 / 7.2
	Power Input	kW	0.034 / 0.040	0.050 / 0.058	1.476 / 1.502	1.56 / 1.60

Rating Conditions : Indoor Air Temperature 27°C D.B. / 19°C W.B.

Outdoor Air Temperature 35°C D.B.

Full Load Conditions: Indoor Air Temperature 32°C D.B. / 23°C W.B.

Outdoor Air Temperature 43°C D.B.

Indoor Unit SAP-K121GJA
Outdoor Unit SAP-C121JA

			Indoor Unit	Outdo	or Unit	Complete Unit
			Fan Motor	Fan Motor	Compressor]
Performance at				220V Single	phase 60Hz	
Rating Conditions	Running Amps.	Α	0.15	0.27	5.38	5.8
	Power Input	kW	0.031	0.059	1.150	1.24
Full Load Conditions	Running Amps.	Α	0.15	0.27	6.68	7.1
	Power Input	kW	0.031	0.059	1.450	1.54

Rating Conditions : Indoor Air Temperature 27°C D.B. / 19°C W.B.

Outdoor Air Temperature 35°C D.B.

Full Load Conditions : Indoor Air Temperature 32C°D.B. / 23°C W.B.

Outdoor Air Temperature 43°C D.B.

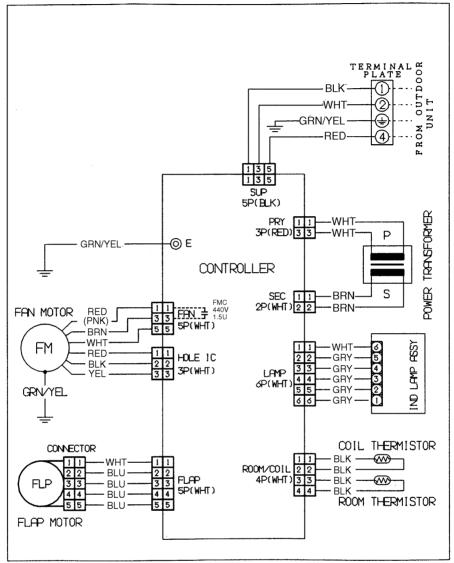
6-2. Electric Wiring Diagrams

Indoor Unit

SAP-K71GJA SAP-K91GJA SAP-K121GJA



To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.



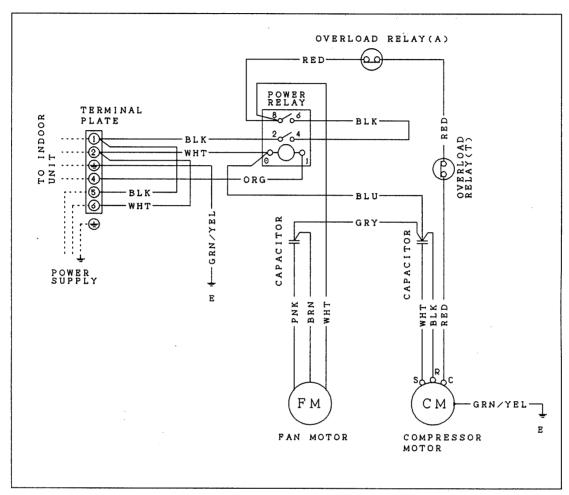
8512-5253-619xx-1

Outdoor Unit SAP-C71GA

SAP-C91GA SAP-C91JA



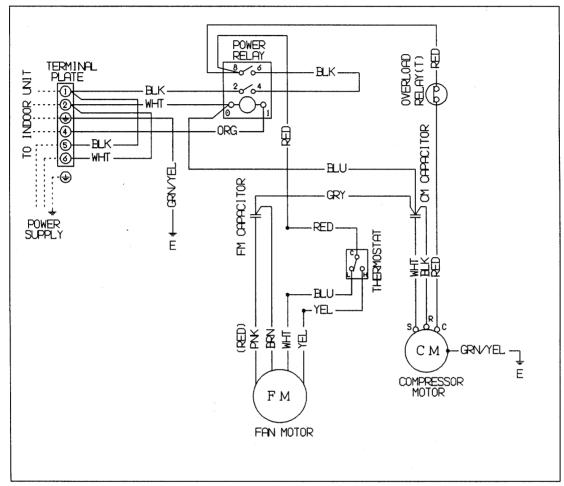
To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.



8512-5253-422xx-1



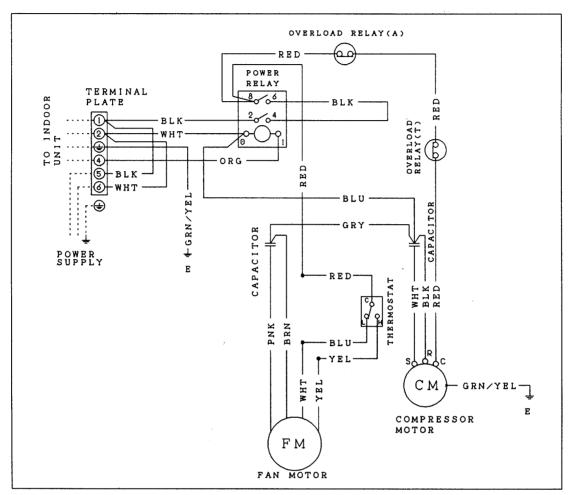
To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.



8512-5253-630xx-0



To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.



8512-5253-452xx-1

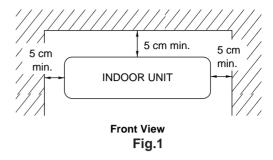
7. INSTALLATION INSTRUCTIONS

7-1. Installation Site Selection

Indoor Unit



To prevent abnormal heat generation and the possibility of fire, don't place obstacles, enclosures and grills in front of or surrounding the air conditioner in a way that may block air flow.



AVOID:

- direct sunlight.
- nearby heat sources that may affect performance of the unit.
- areas where leakage of flammable gas may be expected.
- places where large amounts of oil mist exist.

DO:

- select an appropriate position from which every corner of the room can be uniformly air-conditioned. (High on a wall is best)
- select a location that will hold the weight of the unit.
- select a location where tubing and drain pipe have the shortest run to the outside.
- allow room for operation and maintenance as well as unrestricted air flow around the unit. (Fig. 1)
- install the unit within the maximum elevation difference (H) above or below the outdoor unit and within a total tubing length (L) from the outdoor unit as detailed Table 1 and Fig. 2a.

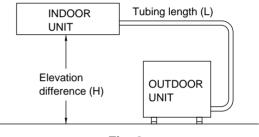


Fig. 2a

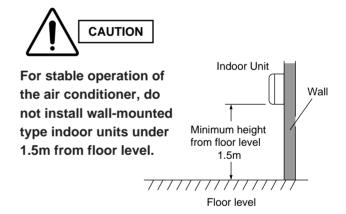


Fig. 2b

Table 1

Model	Max. Allowable Tubing Length at Shipment (m)		Limit of Elevation Difference (H) (m)	Required Amount of Additional Refrigerant (g/m)*
C71, C91	7.5	15	7	15
C121	7.5	20	7	25

^{*} If total tubing length becomes 7.5 to 15 (max.) or 7.5 to 20 (max.), charge additional refrigerant (R22) by 15 g/m or 25 g/m. No additional charge of compressor oil is necessary.

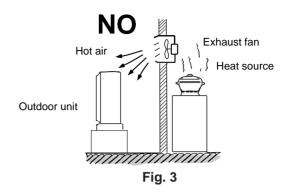
Outdoor Unit

AVOID:

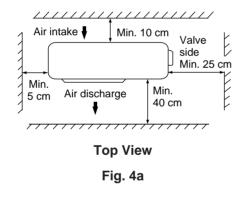
- heat sources, exhaust fans, etc. (Fig. 3)
- damp, humid or uneven locations.

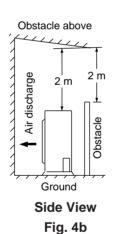
DO:

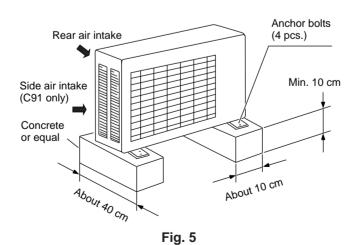
- choose a place as cool as possible.
- choose a place that is well ventilated.
- allow enough room around the unit for air intake/exhaust and possible maintenance. (Figs. 4a and 4a)
- provide a solid base (concrete block, 10 X 40 cm beams or equal), a minimum of 10 cm above ground level to reduce humidity and protect the unit against possible water damage and decreased service life. (Fig.5)
- use lug bolts or equal to bolt down unit, reducing vibration and noise.



Required space around the unit.







7-2. Remote Control Unit Installation Position

The remote control unit can be operated from either a non-fixed position or a wall-mounted position.

To ensure that the air conditioner operates correctly, do not install the remote control unit in the following places:

- In direct sunlight
- Behind a curtain or other place where it is covered
- More than 8 m away from the air conditioner
- In the path of the air conditioner's airstream
- Where it may become extremely hot or cold
- Where it may be subject to electrical or magnetic interference

6-1. When attaching to wall (Fig.6a)

- Confirm the indoor unit beeps when the ON/OFF button is pressed at the wall location where the remote control unit is to be attached, then attach the holder to the wall.
- 2) When taking out the remote control unit, pull it from the holder.

When using the remote control unit

- Point the transmission portion of the remote control unit at the receiver area of the indoor unit when operating the remote control unit, and during operation of the air conditioner.
- Do not place objects which may block the transmitted signals between the receiver and the remote control unit.

When mounting the remote control unit to prevent theft (Fig.6b)

- Attach the holder to the wall with one of the screws (using only the hole in the top of the holder).
- 2) Remove the cover of the remote control unit and take out the batteries. Next, place the remote control unit in the holder.
- 3) Fasten both the remote control unit and holder to the wall with the remaining screw (using the hole in the bottom of the holder).
- 4) Install the batteries in the remote control unit and close the cover.

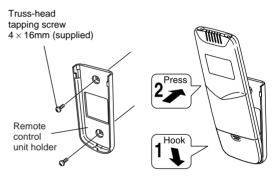


Fig.6a

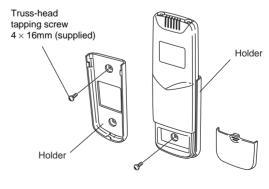


Fig.6b

7-3. Recommended Wire Length and Diameter

Regulations on wiring diameter differ from locality to locality. For field wiring requirements, please refer to your local electrical codes. Carefully observe these regulations when carrying out the installation.

Table 2 lists recommended wire lengths and cross section area for power supply systems.

NOTE

Refer to the WIRING SYSTEM DIAGRAM for the meaning of "A" and "B" in Table 2.

Table 2

Cross Sectional Area (mm²)	(A) + (B) (A) Power Supply Wiring Length (m) (B) Power Line (m)		Fuse or Circuit Breaker
Model	2	3.5	Capacity
C71	70	100	
C91	33	51	10A
C121	27	41	



- Be sure to comply with local codes on running the wire from the indoor unit to the outdoor unit (size of wire and wiring method, etc.).
- Each wire must be firmly connected.
- No wire should be allowed to touch refrigerant tubing, the compressor, or any moving part.

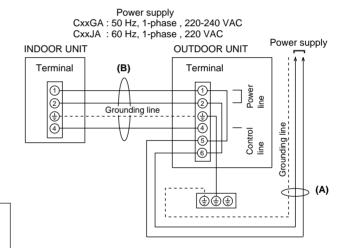


To avoid the risk of electric shock, each air conditioner unit must be grounded.



 Be sure to connect the power supply line to the outdoor unit as shown in the wiring diagram. The indoor unit draws its power from the outdoor unit.

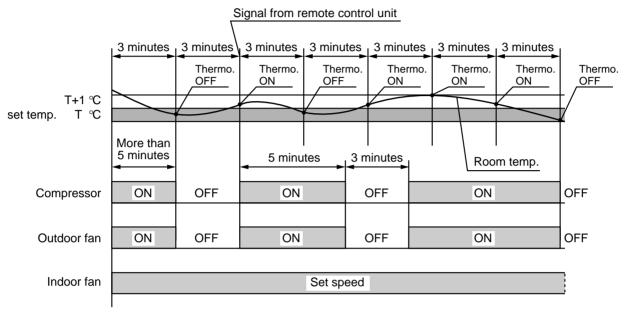
WIRING SYSTEM DIAGRAM



8. FUNCTION

8-1. Room Temperature Control

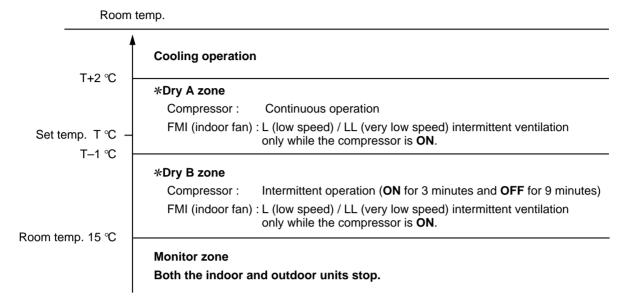
- Room temperature control is obtained by cycling the compressor ON and OFF under control of the room temperature sensor in the remote control unit.
- The room temperature (and other information) is transmitted every 3 minutes by the remote control unit to the controller in the indoor unit.



- The control circuit will not attempt to turn the compressor ON until the compressor has been OFF for at least 3 minutes. To protect the compressor from stalling out when trying to start against the high side refrigerant pressure, the control circuit has a built-in automatic time delay to allow the internal pressure to equalize.
- As a protective measure, the control circuit switches the compressor OFF after 5 minutes or more of compressor operation.
- Thermo. ON: When the room temperature is above T + 1°C (T°C is set temperature).
 Compressor → ON
- Thermo. OFF: When the room temperature is equal to or below set temperature T°C.
 Compressor → OFF

8-2. Dry Operation (Dehumidification)

• Dry operation uses the ability of the cooling cycle to remove moisture from the air, but by running at low level to dehumidify without greatly reducing the room temperature. The air conditioner repeats the cycle of turning ON and OFF automatically as shown in the chart below according to the room temperature.

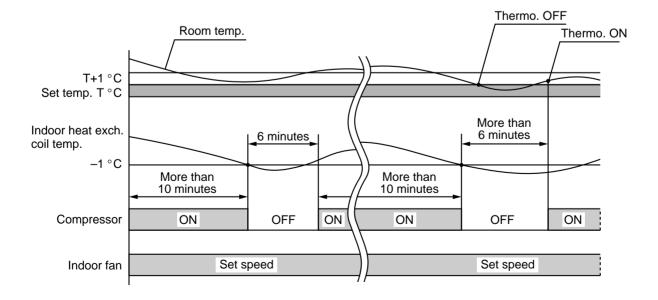


NOTE

- Intermittent ventilation occurs by switching the indoor fan speed between L → LL.
- Dry operation does not occur when the room temperature is under 15°C, which is the monitor zone.
- When the compressor stops, the indoor fan stops as well.

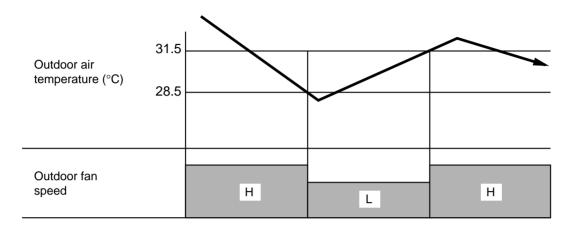
8-3. Freeze Prevention

- This function prevents freezing of the indoor heat exchange coil.
- When the compressor has been running for 10 minutes or more and the temperature of the indoor heat exchange coil falls below −1°C, the control circuit stops the compressor for at least 6 minutes. The compressor does not start again until the temperature rises above 8°C or 6 minutes has elapsed.



8-4. Outdoor Fan Speed Control (Only for C121 models)

- To optimize performance of the air conditioner, the outdoor fan speed is switched automatically according to the outdoor temperature.
- If the outdoor air temperature falls below 28.5°C, the fan speed switches to LOW.
- If the outdoor air temperature rises above 31.5°C, the fan speed switches to HIGH.
- This function does not become active in heating operation.



9. TROUBLESHOOTING

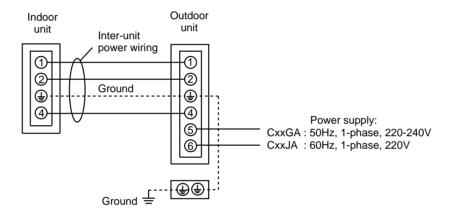
9-1. Check before and after troubleshooting



Hazardous voltage can cause ELECTRIC SHOCK or DEATH. Disconnect power or turn off circuit breaker before you start checking or servicing.

9-1-1. Check power supply wiring.

Check that power supply wires are correctly connected to terminals No. 5 and No. 6 on the terminal plate in the
outdoor unit.



9-1-2. Check inter-unit wiring.

• Check that inter-unit wiring is correctly connected to the indoor unit from the outdoor unit.

9-1-3. Check power supply.

- Check that voltage is in specified range (±10% of the rating).
- Check that power is being supplied.

9-1-4. Check lead wires and connectors in indoor and outdoor units.

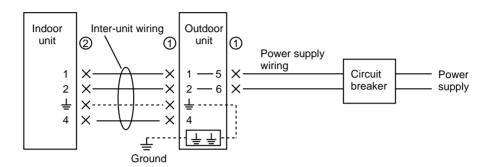
- Check that coating of lead wires is not damaged.
- Check that lead wires and connectors are firmly connected.
- Check that wiring is correct.

9-2. Air conditioner does not operate.

9-2-1. Circuit breaker trips (or fuse blows).

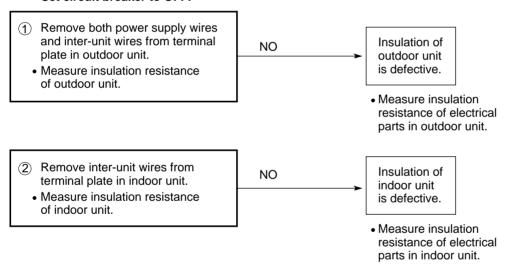
- A. When the circuit breaker is set to ON, it is tripped soon. (Resetting is not possible.)
- There is a possibility of ground fault.
- Check insulation resistance.

If resistance value is $2M\Omega$ or less, insulation is defective ("NO").



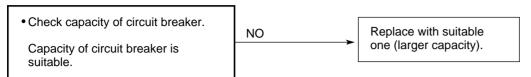


*Set circuit breaker to OFF.



B. Circuit breaker trips in several minutes after turning the air conditioner on.

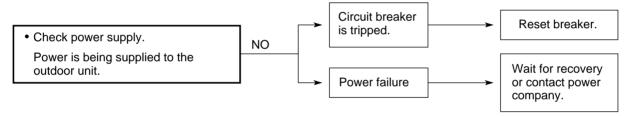
• There is a possibility of short circuit.



- Measure resistance of outdoor fan motor winding.
- Measure resistance of compressor motor winding.

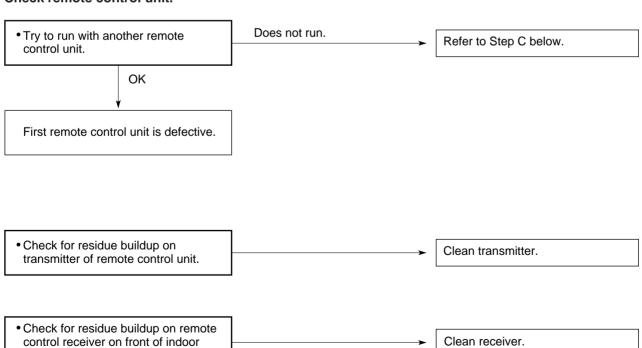
9-2-2. Neither indoor nor outdoor unit runs.

A. Power is not supplied.

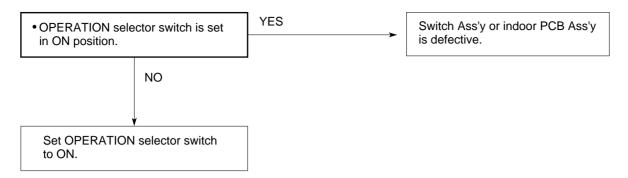


B. Check remote control unit.

unit.



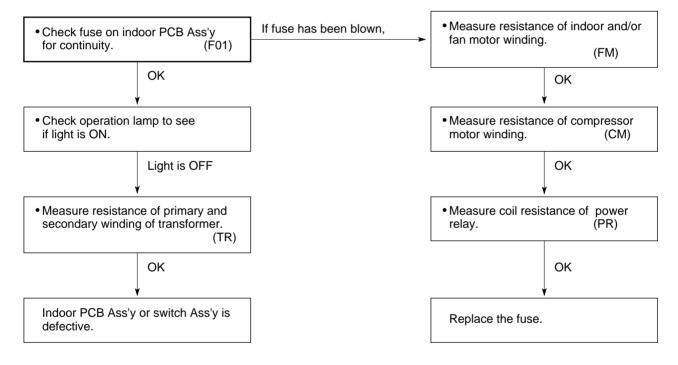
C. Check "OPERATION selector" switch in the indoor unit.



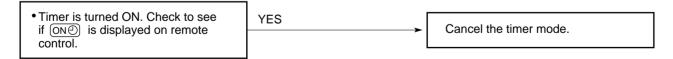
D. Check transformer in indoor unit.

 Measure resistance of primary and secondary winding.
 (TR)

E. Check fuse on the indoor PCB Ass'y.



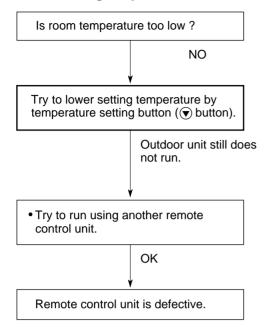
F. Check TIMER on the remote control unit.



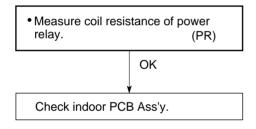
Все каталоги и инструкции здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html

9-2-3. Only outdoor unit does not run.

A. Check setting temperature.

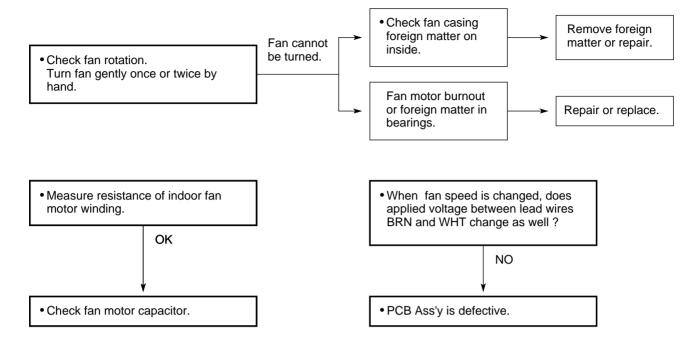


B. Check power relay in outdoor unit.

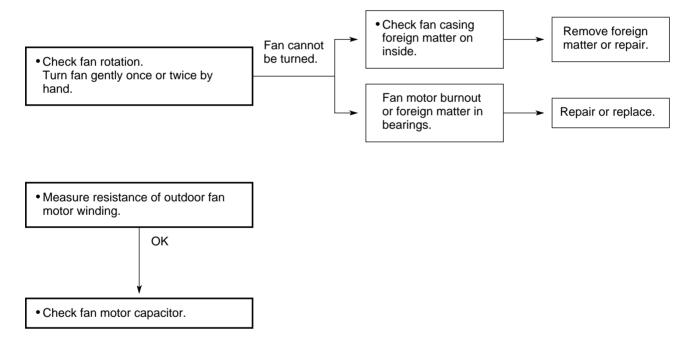


9-3. Some part of air conditioner does not operate.

9-3-1. Only indoor fan does not run.

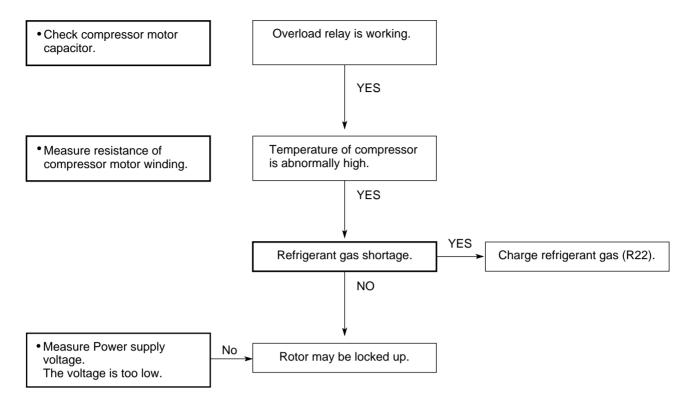


9-3-2. Only outdoor fan does not run.



Все каталоги и инструкции здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.htm

9-3-3. Only compressor does not run.



9-3-4. Only flap motor does not run.

 Measure resistance of flap motor winding.

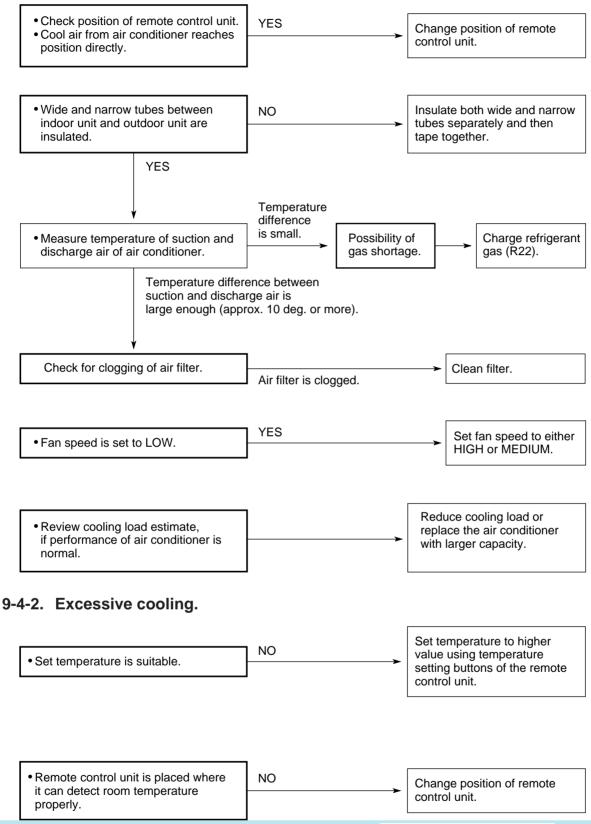
9-3-5. Function of outdoor fan speed control does not work properly. (For C121 models)

• Check thermostat in outdoor unit. (23S)

Refer to "8-4 Outdoor Fan Speed Control ".

9-4. Air conditioner operates, but abnormalities are observed.

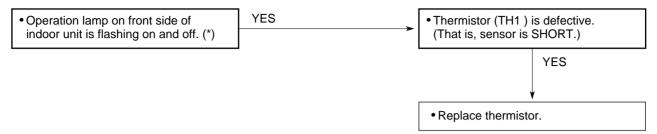
9-4-1. Poor cooling.



Все каталоги и инструкции здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.ht

9-5. If a sensor is defective.

9-5-1. Indoor coil temp. thermistor (TH1) is defective.



NOTE Alarm Signal (*)

Operation lamp on the front side of the indoor unit will flash on and off when the indoor coil thermistor is defective. At the same time the outdoor unit will stop. Indoor unit will operate only for ventilation.

9-5-2. Room temp. thermistor (TH2) is defective.

A. Open

When thermistor opens, the air conditioner will be in the following conditions as the controller tries to detect extremely low room temperature.

In Cooling mode: The air conditioner soon stops and will not start again. (Thermo.OFF) Neither outdoor fan

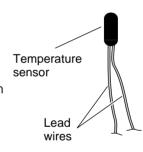
nor compressor runs.

B. Short

When thermistor is short, the air conditioner will be in the following conditions as the controller tries to detect extremely high room temperature.

In Cooling mode: The a

The air conditioner continues to operate (Thermo.ON). Both the outdoor fan and compressor do not stop. As a result, the room becomes too cold.



NOTE

Definition of Open or Short Circuit of Sensor (Thermistor)

Thermistor Structure

- Open ... A lead wire is broken or disconnected or the circuit inside the temperature sensor is open .
- Short ... The protective cover of a lead wire has been damaged, and the exposed wire is touching another metal part, or both lead wires have become exposed and are touching each other. Alternatively, the circuit inside the temperature sensor is closed.

Все каталоги и инструкции здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.htm

10. CHECKING ELECTRICAL COMPONENTS

10-1. Measurement of Insulation Resistance

 The insulation is in good condition if the resistance exceeds 2MΩ.

10-1-1. Power Supply Wires

Clamp the ground wire of the power supply wires with the lead clip of the insulation resistance tester and measure the resistance by placing a probe on either of the power wires. (Fig. 1)

Then measure the resistance between the ground wire and the other power wire. (Fig. 1)

10-1-2. Indoor Unit

Clamp an aluminum plate fin or copper tube with the lead clip of the insulation resistance tester and measure the resistance by placing a probe on each terminal screw on the terminal plate. (Fig. 2)

Note that the ground line terminal should be skipped for the check.

10-1-3. Outdoor Unit

Clamp an aluminum plate fin or copper tube with the lead clip of the insulation resistance tester and measure the resistance by placing a probe on each terminal screw where power supply lines are connected on the terminal plate. (Fig. 2)

10-1-4. Measurement of Insulation Resistance for Electrical Parts

Disconnect the lead wires of the desired electric part from terminal plate, capacitor, etc. Similarly disconnect the connector. Then measure the insulation resistance. (Figs. 3 and 4)



Refer to Electric Wiring Diagram.

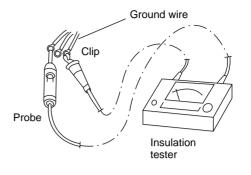


Fig. 1

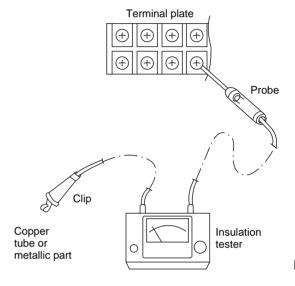


Fig. 2

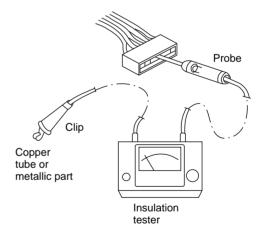
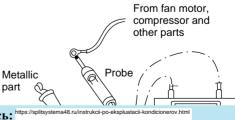


Fig. 3



Все каталоги и инструкции здесь:

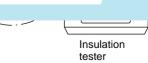


Fig. 4

10-2. Checking Continuity of Fuse on PCB Ass'y

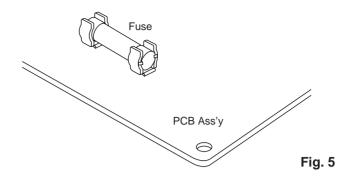
- Remove the PCB Ass'y from the electrical component box. Then pull out the fuse from the PCB Ass'y. (Fig. 5)
- Check for continuity using a multimeter as shown in Fig. 6.

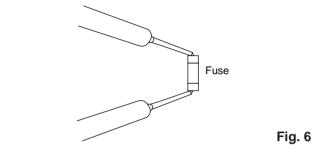
10-3. Checking Motor Capacitor

Remove the lead wires from the capacitor terminals, and then place a probe on the capacitor terminals as shown in Fig. 7. Observe the deflection of the pointer, setting the resistance measuring range of the multimeter to the maximum value.

The capacitor is "good" if the pointer bounces to a great extent and then gradually returns to its original position.

The range of deflection and deflection time differ according to the capacity of the capacitor.





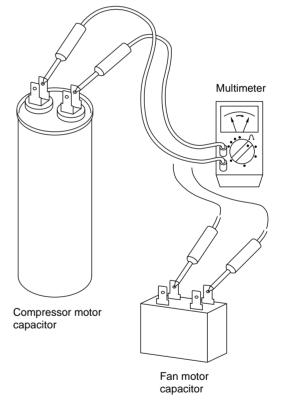


Fig. 7

Все каталоги и инструкции здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.h

11. MAINTENANCE

11-1. Changing Address of Remote Control Unit in Indoor Unit

If you are installing more than 1 indoor unit (up to 2) in the same room, it is necessary for you to assign each unit its own address, so each can be operated by its own separate remote control unit. You assign the addresses by matching the remocon address on the PCB of each indoor unit with the switch positions of its remote control unit.

NOTE

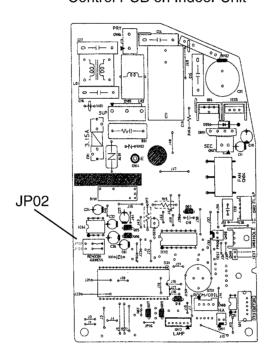
Once changed, you cannot restore the original address setting of the remote control unit.

To Change Address on PCB

- (1) Cut jumper wire (JP02) on the indoor unit PCB.

 Use cutting pliers to cut and disconnect the Jumper wire.
- (2) Switch the address switch on the remote control unit to "B" position.
- (3) After inserting the batteries, press reset button.

Control PCB on Indoor Unit



To Change Address on Remote Control Unit



Remove the batteries before changing the address.

 Remove tab marked A to change the address of the remote control unit.



(2) When it is removed, the address is automatically set to B.



Все каталоги и инструкции здесь:

• https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.ht

APPENDIX INSTRUCTION MANUAL

SAP-K71GJA + SAP-C71GA

+ SAP-C91GA + SAP-C91JA SAP-K91GJA

SAP-K121GJA + SAP-C121GA

+ SAP-C121JA

Все каталоги и инструкции здесь: https://splitsystema48.ru/

Features

This air conditioner is equipped with cooling and drying functions. Details on these functions are provided below; refer to these descriptions when using the air conditioner.

Compact Size

This model is smaller than its predecessors and yet offers the same capabilities.

Microprocessor Controlled Operation

The interior compartment of the remote control unit contains several features to facilitate automatic operation, easy logically displayed for easy use.

• Simple One-touch Wireless Remote Control

The remote control unit has several features to facilitate automatic operation.

. 12-Hour ON or OFF Timer

This timer can be set to automatically turn the unit on or off at any time within a 12 hour period.

• 1-Hour OFF Timer

This timer can be set to automatically turn off the unit at any time after one hour.

Night Setback

Pressing this button changes the setting of the room temperature thermostat, allowing you to set the temperature at whatever level that you find comfortable.

Automatic and 3-step Fan Speed Auto/High/Medium/Low

· Air Sweep Control

This function moves a flap up and down in the air outlet, directing air in a sweeping motion around the room and providing comfort in every corner.

Automatic Restart Function for Power Failure

Even when power failure occurs, preset programmed operation can be reactivated once power resumes.

Anti-Mold Filter

This unit is equipped with an anti-mold filter that inhibits the growth of mold and bacteria.

· Optional Air Clean Filter

An air filter that uses activated charcoal to eliminate unpleasant odors and clean the air is available (sold separately).

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Product Information

If you have problems or questions concerning your Air Conditioner, you will need the following information. Model and serial numbers are on the nameplate of the cabinet.

Model No	Serial No
Date of purchase	
Dealer's address	
	Phone number

Alert Symbols

The following symbols used in this manual, alert you to potentially dangerous conditions to users, service personnel or the appliance:



CAUTION

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

Installation Location

- We recommend that this air conditioner be installed properly by qualified installation technicians in accordance with the Installation Instructions provided with the unit.
- Before installation, check that the voltage of the electric supply in your home or office is the same as the voltage shown on the nameplate.



- Do not install this air conditioner where there are fumes or flammable gases, or in an extremely humid space such as a greenhouse.
- Do not install the air conditioner where excessively high heatgenerating objects are placed.

Avoid:

To protect the air conditioner from heavy corrosion, avoid installing the outdoor unit where salty sea water can splash directly onto it or in sulphurous air near a spa.

Electrical Requirements

- All wiring must conform to the local electrical codes. Consult your dealer or a qualified electrician for details.
- Each unit must be properly grounded with a ground (or earth) wire or through the supply wiring.
- 3. Wiring must be done by a qualified electrician.

Safety Instructions

- Read this Instruction Manual carefully before using this air conditioner. If you still have any difficulties or problems, consult your dealer for help.
- This air conditioner is designed to give you comfortable room conditions. Use this only for its intended purpose as described in this Instruction Manual.

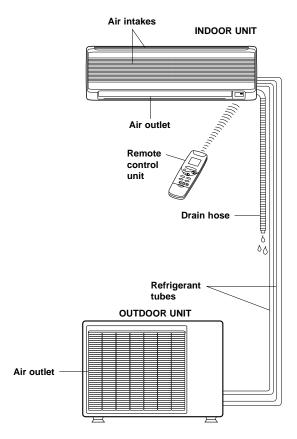


- Never use or store gasoline or other flammable vapor or liquid near the air conditioner — it is very dangerous.
- This air conditioner has no ventilator for intaking fresh air from outdoors. You must open doors or windows frequently when you use gas or oil heating appliances in the same room, which consume a lot of oxygen from the air. Otherwise there is a risk of suffocation in an extreme case.



- Do not turn the air conditioner on and off from the power mains switch. Use the ON/OFF operation button.
- Do not stick anything into the air outlet of the outdoor unit. This is dangerous because the fan is rotating at high speed.
- Do not let children play with the air conditioner.
- . Do not cool the room too much if babies or invalids are present.

Names of Parts



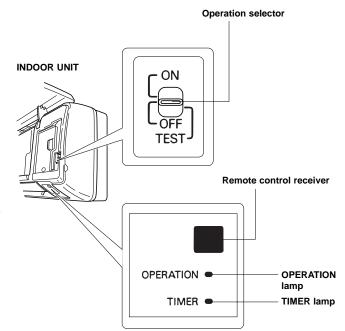
NOTE

This illustration is based on the external appearance of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected.

This air conditioner consists of an indoor unit and an outdoor unit. You can control the air conditioner with the remote control unit.

Air Intake	Air from the room is drawn into these sections and passes through air filters which remove dust.	
Air Outlet	Air is blown out of the air conditioner through the air outlet.	
Remote Control Unit The wireless remote control unit controls power on/off, oper selection, temperature, fan speed, timer setting, and air swe		
Refrigerant Tubes	The indoor and outdoor units are connected by copper tubes through which refrigerant gas flows.	
Drain Hose	Moisture in the room condenses and drains off through this hose.	
Outdoor (Condensing) Unit	The outdoor unit contains the compressor, fan motor, heat exchanger coil, and other electrical components.	

Unit Display and Operation Selector



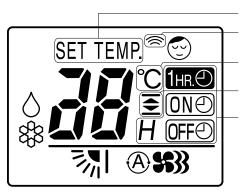


Avoid using radio equipment such as mobile phone near (within 1 m of) the indoor unit. Some radio equipment may cause the unit to malfunction.

If the trouble occurs, disconnect power and restart the air conditioner after a few minutes.

Remote control receiver	This section picks up infrared signals from the remote control unit (transmitter).
OPERATION selector	
ON position	This position is for operating the air conditioner with the wireless remote control unit. Set the selector to this position for normal operation.
OFF position	Switch the selector to the OFF position if you are not going to use the air conditioner for a few days or longer.
WARNING	The OFF position does not disconnect the power. Use the main power switch to turn off power completely.
TEST position	This position is used only when servicing the air conditioner.
CAUTION	Do not set at the TEST position for normal operation.
OPERATION lamp	This lamp lights when the system is in the continuous DRY or COOL mode.
TIMER lamp	This lamp lights when the system is being controlled by the timer.

Remote Control Unit (Display)



Displayed when setting temperature

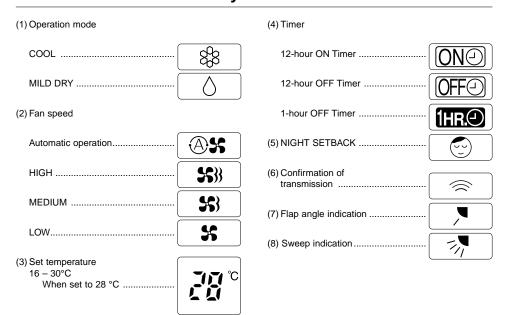
Displayed when transmitting data

Displayed when temperature is shown

Displayed when the temperature setting is at the upper or lower allowable limit

Displayed when setting timer

Symbols



Remote Control Unit



NOTE

The illustration above pictures the remote control unit after the cover has been lowered and removed.

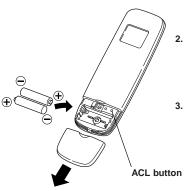
Transmitter	When you press the buttons on the remote control unit, the smark appears in the display to transmit the setting changes to the receiver in the air conditioner.
Display	Information on the operating conditions is displayed while the remote control unit is switched on. If the unit is turned off, only the mode that was set previously is still displayed.
NIGHT SETBACK button	For details, see "Night Setback Mode". When you press this button in the DRY or COOL mode, the mark appears in the display, and the remote control unit will automatically adjust the set temperature to save energy.
TEMP. setting buttons	Press the button to increase the set temperature. Press the button to reduce the set temperature.
ON/OFF operation button	This button is for turning the air conditioner on and off.

Remote Control Unit (continued)

TIMER ON button	ONO: The air conditioner starts at the set time.	
TIMER OFF button	OFF@: The air conditioner stops at the set time.	
TIMER SET button	This button is used to set the time at which you wish the air conditioner to go on or off.	
MODE selector button (DRY) (COOL)	Use this button to select DRY or COOL mode. \(\rightarrow : \text{The air conditioner reduces the humidity in the room.} \) \(\rightarrow : \text{The air conditioner makes the room cooler.} \)	
FLAP button	Press this button either to select to set the airflow direction to one of the six possible positions manually, or to select the sweep function, which moves the flap up and down automatically. The airflow direction can be set manually. (six positions) To switch to the sweep function () when in the manual () mode, hold down the FLAP button.	
FAN SPEED selector button	 S: The air conditioner automatically decides the fan speeds. S: High fan speed. S: Medium fan speed. S: Low fan speed. 	
1 HR.TIMER button (1-HOUR OFF TIMER)	: When you press this button, regardless of whether the unit is operating or stopping, the unit operates for one hour and then shuts down.	
ACL button (ALL CLEAR)	Puts the remote control unit into pre-operation status. Always press this button after replacing the batteries.	
ADDRESS switch	The address switch changes to prevent mixing of signals from remote control units when two Sanyo air conditioners are installed next to each other. Normally, the address switch is set to A. When switching the address, the remote control must be changed, and the jumper cables on the indoor unit board must be cut. For more information, please contact the dealer where you made the purchase. Normally, the tabs on the remote control unit should not bent.	

Using the Remote Control Unit

How to Install Batteries



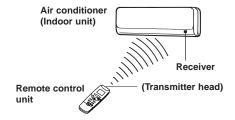
- Slide the cover in the direction indicated by the arrow and remove it.
- Install two AAA alkaline batteries. Make sure the batteries point in the direction marked in the battery compartment.
- Use a thin object such as the tip of a pen to press the ACL button.

NOTE

- The batteries last about six months, depending on how much you
 use the remote control unit. Replace the batteries when the remote
 control unit's display fails to light, or when the remote control
 cannot be used to change the air conditioner's settings.
- · Use two fresh leak-proof type-AAA alkaline batteries.
- In replacing batteries, follow the instructions as mentioned in the sub-section "How to Install Batteries".
- If you do not use the remote control unit more than 1 month, take out the batteries.

How to Use the Remote Control Unit

When using the remote control unit, always point the unit's transmitter head directly at the air conditioner's receiver.



Remote Control Unit Installation Position

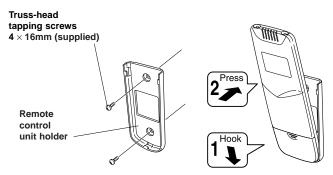
The remote control unit may be operated either from a non-fixed position or from a wall-mounted position. To ensure that the air conditioner operates correctly, DO NOT install the remote control unit in the following places:

DO NOT

- In direct sunlight
- Behind a curtain or other places where it is covered
- More than 8 m away from the air conditioner
- · In the path of the air conditioner's airstream
- Where it may become extremely hot or cold
- · Where it may be subject to electrical or magnetic noise
- Where there is an obstacle between the remote control unit and air conditioner (since a check signal is sent from the remote control unit every 3 minutes)

Using the Remote Control Unit (continued)

Mounting the Remote **Control Unit**

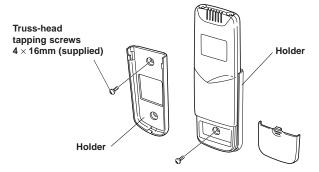


When attaching to wall

- 1) Comfirm the indoor unit beeps when the ON/OFF button is pressed at the wall location where the remote control unit is to be attached, then attach the holder to the wall.
- 2) When taking out the remote control unit, pull it from the holder.

When using the remote control unit

- Point the transmission portion of the remote control unit at the receiver area of the indoor unit when operating the remote control unit, and during operation of the air conditioner.
- Do not place objects which may block the transmitted signals between the receiver and the remote control unit.

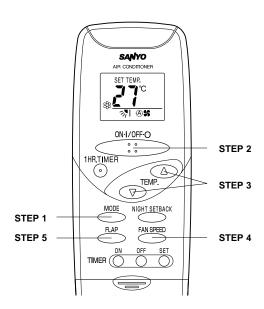


When Mounting the Remote Control Unit to Prevent Theft

- 1) Attach the holder to the wall with one of the screws (using only the hole in the top of the holder).
- 2) Remove the cover of the remote control unit and take out the batteries. Next, place the remote control unit in the holder.
- 3) Fasten both the remote control unit and holder to the wall with the remaining screw (using the hole in the bottom of the holder).
- Install the batteries in the remote control unit and close the cover.

Operation with the Remote Control Unit

1. Operation



NOTE

Check that the circuit breaker on the power panel is turned on and that the operation selector of the indoor unit is in the ON position.

Press the setting buttons as described below and change the settings as desired.

STEP 1	Press the MODE selector button and select the desired mode. For dehumidifying operation \rightarrow \Diamond For cooling operation \rightarrow $\$$
STEP 2	To start the air conditioner, press the ON/OFF operation button.
STEP 3	Press the TEMP. setting buttons to change the temperature setting to the desired temperature. Adjustable temperature range: 30 °C max.—16 °C min.
STEP 4	Set the FAN SPEED selector button to the setting you want.
NOTE	If the fan speed is set to \$\Omega\$\$ (Automatic), the fan speed switches automatically, according to the difference between the actual room temperature and the temperature setting.
STEP 5	Press the FLAP button and set the airflow direction as desired. (Refer to "Adjusting the Airflow Direction" on page 19.)

To stop the air conditioner, press the ON/OFF operation button again.

Operation with the Remote Control Unit (continued)

NOTE

 This appliance has a built-in 3-minute time delay circuit to ensure reliable operation. When the operation button is pressed, the compressor will start running within three minutes. In the event of power failure, the unit will stop. When the power is restored, the unit will restart automatically after three minutes.

2. Adjusting the Fan Speed

A. Automatic

Simply set the FAN SPEED selector button to the OS position.

A microcomputer in the air conditioner automatically controls the fan speed when the **5** mode is selected. When the air conditioner starts operating, the difference between the room temperature and the set temperature is detected by the microcomputer which then automatically switches the fan speed to the most suitable level.

Cooling and DRY mode:

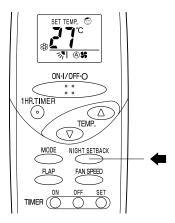
When difference between room temperature and set temperature is	FAN SPEED
2°C and over	High
Between 2°C and 1°C	Medium
Below 1°C	Low

B. Manual

If you want to adjust fan speed manually during operation, just set the FAN SPEED selector button as desired. [\$\mathbf{s}\), \$\mathbf{s}\), or \$\mathbf{s}\]

Operation with the Remote Control Unit (continued)

3. Night Setback Mode



Night Setback Mode is used for saving energy.

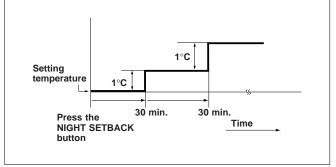
Press the NIGHT SETBACK button while operation.

The mark appears on the display.

To release the night setback function, press the NIGHT SETBACK button again.

In Cooling and DRY Mode: (緣 and ♢)

When the night setback mode is selected, the air conditioner automatically raises the temperature setting 1°C when 30 minutes have passed after the selection was made, and then another 1°C after another 30 minutes have passed, regardless of the indoor temperature when night setback was selected. This enables you to save energy without sacrificing comfort. This function is convenient when gentle cooling is needed.



Special Remarks

"DRY" (△) Operation

How it works?

- Once the room temperature reaches the level that was set, the unit repeats the cycle of turning on and off automatically.
- During DRY operation, the fan speed is automatically set to LOW or VERY LOW; the fan speed then switches back and forth between LOW (for 20 seconds) and VERY LOW (for 10 seconds).
- "DRY" operation is not possible if the indoor temperature is 15°C or less.

Power failure during operation

 In the event of power failure, the unit will stop. When the power is resumed, the unit will restart automatically after three minutes.

Clicking Sound

Clicking sound is heard from the air conditioner

 In cooling operation, any plastic parts may expand or shrink due to a sudden temperature change. In this event, a clicking sound may occur. This is normal, and the sound will soon disappear.

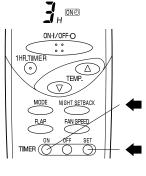
Remote Contro Unit

 The remote control unit sends the setting condition to the air conditioner regularly at three minute intervals.

Using the 12-Hour ON and OFF Timer

2. TIMER ON mode (Example)

After the length of time set for TIMER ON elapses, the unit begins operating.



The display depicted at left indicates that the air conditioner will begin operating in three hours.

Setting procedure:

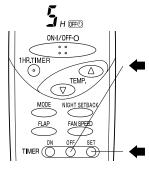
STEP 1	Press the MODE button and set the desired operation mode and press the ON/OFF operation button. (See "Operation with the Remote Control Unit," page 12.)	
STEP 2	Press the TIMER ON button.	
STEP 3	Press the TIMER SET button (which advances the time displayed) to set the time at which you want operation to begin. The time can be set for one to twelve hours, in one hour steps.	

- The display changes immediately to its status previous to timer setting, but the ONO indication remains.
- To check the status of the timer while it is counting down, press the TIMER SET button.

Cancellation procedure: Press the TIMER ON button once again.

2. TIMER OFF mode (Example)

After the length of time set for TIMER OFF elapses, the unit stops operating.



The display depicted at left indicates that the air conditioner will stop operating in five hours.

Setting procedure:

STEP 1	Press the TIMER OFF button.	
STEP 2	Press the TIMER SET button (which advances the time displayed) to set the time at which you want operation to stop. The time can be set for one to twelve hours, in one hour steps. $\begin{array}{c} 1 \rightarrow 2 \rightarrow 312 \end{array}$	

- The display changes immediately to its status previous to timer setting, but the OFFO indication remains.
- To check the status of the timer while it is counting down, press the TIMER SET button.

Cancellation procedure: Press the TIMER OFF button once again.

Using the 12-Hour ON and OFF Timer (continued)

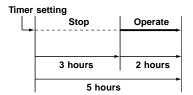
3. ON/OFF Parogram Timer

A combination of the TIMER ON and TIMER OFF modes, this function allows you to specify the time that the unit turns on and the time when it turns off.

(Example) The unit will turn on three hours from now, and turn off five hours from now



TIMER ON display during counting



Setting procedure:



TIMER OFF display during counting after 3 hours has elapsed.

STEP 1	Use the procedure described in the "1. TIMER ON mode" section on the preceding page to set the timer to turn the unit on three hours from now.
STEP 2	Use the procedure described in the "2. TIMER OFF mode" section on the preceding page to set the timer to turn the unit off five hours from now.

- The display changes immediately to its status previous to timer setting, but the ONO or OFFO indication remains.
- Press the TIMER SET button to display the time remaining on the timer in seconds.
- Note that it is not possible to check both the ON and OFF timer settings.
 The timer setting that will occur first is given preference and displayed.
 The timer setting that will occur first is the one with the shorter time setting.

Cancellation procedure:

Press the TIMER ON button and TIMER OFF buttons once again.



Set the ON and OFF Timers simultaneously.
 Unless you set the 12-Hour ON and OFF Timers at the same time, they may not operate at the specified time.

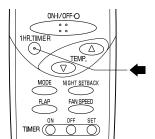
Using the 1-Hour OFF Timer

1. 1-Hour OFF Timer

This function causes the unit to operate for one hour and then stop, regardless of whether the unit is on or off when this button is pressed.

The IRO indicator in the display indicates that this function is operating.





Setting procedure:

Regardless of whether the unit is operating or stopped, press the 1 HR. TIMER button.

IHRO appears in the display.

Cancellation procedure:

Press the ON/OFF operation button to turn the unit off, wait for the unit to stop operating, and then press the ON/OFF operation button again.

The 1-Hour Timer function is now cancelled and the unit operates normally.

NOTE

- If, while the 1-Hour Timer function is operating, the 1HR. TIMER button is pressed once to cancel the function and then again, the unit continues to operate for one hour from that point in time and then stops.
- If the 1 HR. TIMER button is pressed while the TIMER OFF function operates, the OFF Timer is canceled and the unit will stop operating one hour later.

2. Combining the 1-Hour OFF Timer and 12-Hour ON Timer

By combining the 1-Hour OFF Timer and 12-Hour ON Timer, it is possible to have the unit operate for just one hour from the present time, and then have it switch on again later at a time specified by you.

(Example) Having the unit operate for just one hour from the present time, and then switch on again three hours from the present time.

Timer setting



Setting procedure:

STEP 1	Press the 1 HR. TIMER button.
STEP 2	Press the TIMER ON button and use the TIMER SET button to set the unit to turn on three hours later.

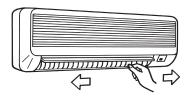
NOTE

Set the 1-Hour OFF Timer and the 12-Hour ON Timer simultaneously.
 Unless you set the 1-Hour OFF Timer and the 12-Hour ON Timer at the same time, the 1-Hour OFF Timer may operate for one hour or more.

Adjusting the Airflow Direction

1. Horizontal

The horizontal airflow can be adjusted by moving the vertical vanes with your hands to the left or right.

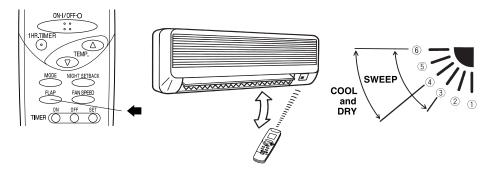




When the humidity is high, the vertical vanes should be in the front position during the cooling or dehumidifying operation. If the vertical vanes are positioned all of the way to the right or left, condensation may begin to form around the air vent and drip down.

2. Vertical

The vertical airflow can be adjusted by moving the flap with the remote control unit. Do not move the flap with your hands. Confirm that the remote control unit has been turned on. Use the FLAP button to set either the sweep function or one of the six airflow direction settings.



A. Sweep function



The flap starts moving up and down to deliver air over the sweep range.

B. Setting the Airflow Manually



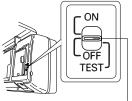
Referring to the above illustration, use the FLAP button to set the airflow direction within the range used during the cooling or dehumidifying operation.



- The flap automatically closes when the unit is off.
- Use the FLAP button on the remote control to adjust the position of the flap. If you move the flap by hand, the flap position according to the remote control and the actual flap position may no longer match. If this should happen, shut off the unit, wait for the flap to close, and then turn on the unit again; the flap position will now be normal again.
- Do not have the flap pointed down during cooling operation.
 Condensation may begin to form around the air vent and drip down.

Operation without the Remote Control Unit

INDOOR UNIT



Operation selector

If you have lost the remote control unit or it is not working properly, follow the steps below.

1. When the air conditioner is not running

If you want to turn on the air conditioner, switch the operation selector to the OFF position, and then to the ON position.

NOTE

The temperature setting and fan speed are automatically set to match the settings before operation last stopped, provided that operation last stopped less than four hours previously. However, if operation last stopped more than four hours previously, the unit switches to the auto operation mode.

2. When the air conditioner is running

If you want to turn off the air conditioner, switch the operation selector to the OFF position.

Care and Cleaning



- 1. For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning.
- Do not pour water on the unit to clean it. This will damage the internal components and cause an electric shock hazard.

Casing and Grille (Indoor Unit) Clean the casing and grille of the indoor unit with a vacuum cleaner brush, or wipe them with a clean, soft cloth.

If these parts are stained, use a clean cloth moistened with a mild liquid detergent. When cleaning the grille, be careful not to force the vanes out of place.



- 1. Never use solvents, or harsh chemicals when cleaning the indoor unit. Do not wipe the plastic casing using very hot water.
- Some metal edges and the fins are sharp and may cause injury if handled improperly; be especially careful when you clean these parts.
- The internal coil and other components of the outdoor unit must be cleaned every year. Consult your dealer or service center.

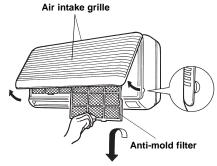
Care and Cleaning (continued)

Anti-Mold Filter

The anti-mold filter behind the air intake grille should be checked and cleaned at least once every two weeks.

How to remove the anti-mold filter

- 1. Grasp both ends of the air intake grille and pull it out and up.
- 2. Push the anti-mold filter up slightly, and then pull it down.

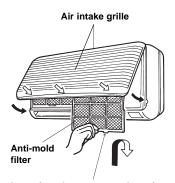


Cleaning

Use a vacuum cleaner to remove light dust. If there is sticky dust on the filter, wash the filter in lukewarm, soapy water, rinse it in clean water, and dry it.

How to replace the anti-mold filter

- With the "FRONT" mark facing you, slide the anti-mold filter up into the unit and then lower the handle into the groove on the unit.
- After installing the anti-mold filter, press the locations marked by the arrows (♣) and close the air intake grille.



Insert into the groove on the unit.

Care and Cleaning (continued)

Air Cleaning Filter (hot provided)

The air cleaning filter removes dust and dirt from the air, and reduces odors and smoke from tobacco.

NOTE

The air cleaning filter is not provided with the air conditioner and must be purchased separately. The first time that you buy the air clean filter, it is necessary to get the STK-ARF4B-50 model with frame. When changing the filter subsequently, it is only necessary to replace the filter itself (model STK-F4B-50).



This air cleaning filter cannot remove harmful gases or vapors nor ventilate air in the room. You must open doors or windows frequently when you use gas or oil heating appliances. Otherwise there is a risk of suffocation in extreme cases.

How to install the air cleaning filter

The air cleaning filter needs to be installed behind the anti-mold filter.

- 1. Remove the anti-mold filter.
- Install the air cleaning filter in the position shown in the diagram, with the "前面" symbols (meaning "FRONT") facing the front.
- 3. Reinstall the anti-mold filter.



Cleaning the main unit and remote controle unit

- · Wipe clean using a soft, dry cloth.
- To remove stubborn dirt, moisten a cloth in warm water no hotter than 40
 °C, wring thoroughly, and then wipe.
- The air intake grille can be removed in order to wash it with water.

Removing and remounting the air intake grille

With the air intake grille open all the way, grip both arms with your hands and pull toward you to remove. To remount, hold the air intake grille roughly horizontal and push it in until the arm shafts fit into the indentations in the main unit, then fit the grille into place.





When using a footstool or the like, be careful not to let it tip over.

Washing the grille with water

- Clean the grille gently using a soft sponge, or the like. Then wipe away any remaining moisture.
- Neutral detergent may be used to remove stubborn dirt. Then rinse thoroughly with water and wipe away any remaining moisture.

Troubleshooting

If your air conditioner does not work properly, first check the following points before requesting service. If it still does not work properly, contact your dealer or service center.

Trouble	Possible cause	Remedy
Air conditioner does not run at all.	Power failure. Leakage circuit breaker tripped. Line voltage is too low. Operation button is OFF. Batteries in remote control unit have run down.	Restore power. Contact service center. Consult your electrician or dealer. Press the button again. Replace batteries.
OPERATION lamp flashes and air conditioner does not operate.	Trouble in wiring system.	Contact service center.
Compressor runs but soon stops.	Obstruction in front of condenser coil.	Remove obstruction.
Poor cooling performance.	Dirty or clogged air filter. Heat source or many people in room. Doors and/or windows are open. Obstacle near air intake or air discharge port. Thermostat is set too high for cooling.	 Clean air filter to improve airflow. Eliminate heat source if possible. Shut them to keep the heat out. Remove it to ensure good airflow. Set the temperature lower.
Clicking sound is heard from the air conditioner.	During cooling operation, plastic parts may shrink due to sudden temperature change. In this event, a clicking sound may occur.	This is normal, and the sound will soon disappear.
OPERATION lamp lights but outdoor unit will not run.	The use of portable telephones near the air conditioner may cause disturbance to its normal operation.	Turn off the power then restart the air conditioner after 1 minute. Consult your dealer.

Tips for Energy Saving

Do not

- Block the air intake and outlet of the unit. If they are obstructed, the unit will not work well, and may be damaged.
- Let direct sunlight into the room. Use sunshades, blinds or curtains. If the
 walls and ceiling of the room are warmed by the sun, it will take longer to
 cool the room.

Do

- Always try to keep the air filter clean. (Refer to "Care and Cleaning".)
 A clogged filter will impair the performance of the unit.
- To prevent conditioned air from escaping, keep windows, doors and any other openings closed.



SANYO Electric Co.,Ltd.

Osaka, Japan

SM700455 10/00/200

Printed in Japan



Большая библиотека технической документации https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html

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