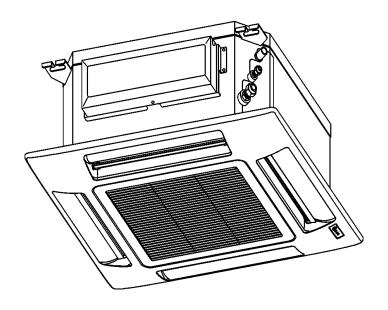
TECHNICAL DATA & SERVICE MANUAL



INDOOR UNIT: ASIAS8

SPLIT SYSTEM AIR CONDITIONER

Model No.	Product Code No.
ASIAS8	38.7006.181



IMPORTANT! Please read before installation

This air conditioning system meets strict safety and operating standards.

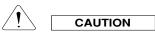
For the installer or service person, it is important to install or service the system so that it operates safely and efficiently.

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.
- •The unit must be supplied with a dedicated electrical line.



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 sale/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

 During installation, connect before the refrigerant system and then the wiring one; proceed in the reverse orden when removing the units.



When wiring

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

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked, to ensure the grounding.
- 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 and death.

- · Ground the unit following local electrical codes.
- The Yellow/Green wire cannot be used for any connection different from the ground connection.
 Connect all wiring tightly. Loose wiring may cause overheating
- at connection points and a possible fire hazard.
- Do not allow wiring to touch the refrigerant tubing, compressor, or any moving parts of the fan.
- Do not use multi-core cable when wiring the power supply and control lines. Use separate cables for each type of line.

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 aluminium fins on the air conditioner can cut your fingers.

When installing...

... In a ceiling

Make sure the ceiling is strong enough to hold the unit-weight. It may be necessary to build a strong wooden or metal frame to provide added support.

... In a room

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

... In moist or uneven locations

Use a raised concrete base to provide a solid level foundation for the outdoor unit. This prevents damage and abnormal vibrations.

... In area with strong 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 then drifting snow. Provide snow vents.

When connecting refrigerant tubing

narrow or wide. Therefore, to avoid confusion, the refrigerant tubing for your particular model is specified as narrow tube for liquid, wide tube for gas.

When servicing

- Turn the power OFF at the main power board 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 the work, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.
- Ventilate the room during the installation or testing the refrigeration system; make sure that, after the installation, no gas leaks are present, because this could produce toxic gas and dangerous if in contact with flames or heat-sources.

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1. SPECIFICATIONS

1-1 Unit Specifications

ASIAS8

Power source	220 - 240 V ~ 50 Hz
Voltage rating	230 V

P	erformance			
	Capacity			See catalogue with the requested matching
	Air circulation	High/Med./Low	m³/h	700/600/500

atures			
Controls/Temperature controls			Microprocessor/ I.C. thermostat
Control unit			Wireless remote control unit
Timer			ON/OFF 24 hours & Daily program, 1-hour OF
Fan speed			3 and Auto
Airflow direction		Vertical	Auto
Air Filter			Washable, Anti-Mold
Power noise level	High/Med./Low	dB-A	53/49/46
Refrigerant tubing connections			Flare type
Refrigerant	Narrow tube	mm(in.)	6,35 (1/4)
tube diameter	Wide tube	mm(in.)	9,52 (3/8)
Refrigerant			R410A
Refrigerant tube kit / Air clean filter	r		Optional /

Dimensions & Weight

Dimensions	Unit	Height	mm	273
		Width	mm	575
		Depth	mm	575
	Ceiling panel	Height	mm	64
		Width	mm	730
		Depth	mm	730
Package dimensions Unit Ceiling panel	sions Unit	Height	mm	380
	Width	mm	744	
	Depth	mm	650	
	Volume	m3	0,18	
	Height	mm	110	
	Width	mm	800	
		Depth	mm	800
		Volume	m3	0,07
Weight	Unit	Net	kg	16,5
		Shipping	kg	21
	Ceiling panel	Net	kg	2,50
		Shipping	kg	4,70

DATA SUBJECT TO CHANGE WITHOUT NOTICE

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1-2 Major Component Specifications

ASIAS8

Controller PCB	
Part No.	SAC DCI IDU
Controls	Microprocessor
Control circuit fuse	250 V - 3,15 A
Remote Control Unit	SAC W-REM V3

Remote Control Unit

SAC W-REM V3

a & Fan Motor				
Туре				Centrifugal fan
Q'ty Dia. and le	nght		mm	1Ø 280 / L 166
Fan motor modelQ	'ty			BOM Y5S413B2201
No. of polesrpm (2	30 V, High / med / Low)			4 950 / 790 / 700
Running Amps (230 V	V, High / med / Low)		Α	0,31 / 0,28 / 0,25
Power input (230 V, High / med / Low) W				72 / 63 / 58
Coil resistance (Ambient temp. 25 °C) Ω				BLU-BLK: 239
				BRN-WHT: 19
				WHT-RED: 101
				GRY-RED: 29
				BLK-GRY: 63
Safety devices	Туре			Internal thermal protector
	Operating temp.	Open	°C	130 ± 10%
		Close		Automatic
Run capacitor			μF	2
			VAC	440

Fla	Flap Motor						
	Туре	Stepping motor					
	Model	MP24Z2					
	Rating	DC 12 V					
	Coil resistance (Ambient temp. 25 °C)	2 400±7%					

Heat Exch. Coil		
Coil		Aluminium plate fin / Copper tube
Rows		1
Fin pitch	mm	1,3
face area	m2	0,258

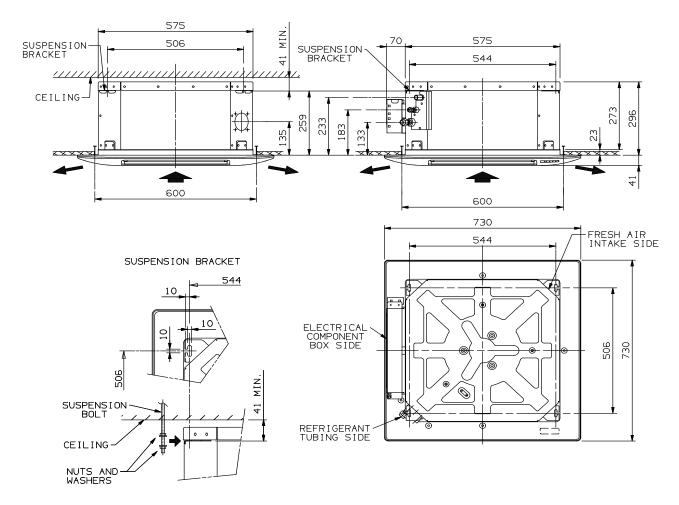
DATA SUBJECT TO CHANGE WITHOUT NOTICE

1-3 Other Component Specifications

asformer (TR)		0028TRA008
Rating	Primary	AC 230 V, 50 Hz
	Secondary	13 V - 6VA
	Capacity	
Coil resistance	Ω (at 25°C)	Primary: -
	, , , , , , , , , , , , , , , , , , ,	Secondary: -
Thermal cut-off temp.		120°C
ermistor (Coil sensor)		NTC-THERMISTOR
Resistance	kΩ	10 at 25 °C
ermistor (Room sensor)		NTC-THERMISTOR
Resistance	kΩ	10 at 25 °C

Model		PC 309564003
Rating	Voltage	220-240 V - 50 Hz
-	Input	14 W
Total head capacity		0,4 l/min
ety float switch		
		P200AC-001
Model		F 200AC-001

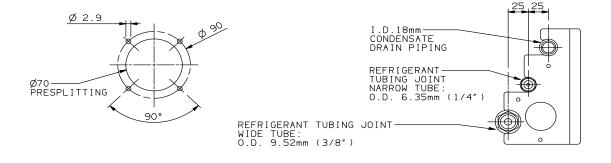
2. DIMENSIONAL DATA



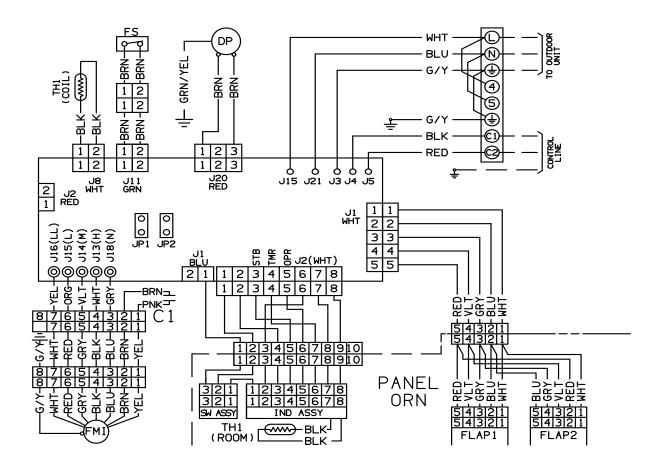
ASIAS8

FRESH AIR INTAKE PORT

REFRIGERANT TUBING SIDE



3. ELECTRICAL DATA 3-1 Electric Wiring Diagrams



4.FUNCTION

4-1 System operation control

The inputs to the systems come from indoor and outdoor sensors. The outdoor unit is the system MASTER while the indoor one is the SLAVE. Communication between units is made with a 2 poles RS485 bus

The indoor units receives the user input (fan speed, flap position etc) through remote controller which sends signal every time a button is pressed and in any case, automatically, every 5 minutes.

4.1.1 control specification

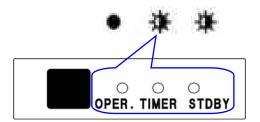
During operation compressor speed can be subjected to change due to thermal load variations or protection activations but in any case:

- The minimum time interval between an OFF and a ON operation is not lower than 3 minutes
- The minimum operating time is not lower than 3 minutes
- The maximum acceleration/deceleration rate is fixed at 20rpm /sec
- During the start-up compressor speed increases according to a defined rule which is independent from the thermal load calculation.

4-1.2 Multisplit available modes

If the unit is a part of a multisplit system, there could be some mode combination not available (example: unit A - heat mode and unit B - cool mode).

In this case the system automatically stops, leds TMR and STB blink while led OPR is on



🗱 = LED blinking

• = LED on

		AVAILABLE MODE COMBINATION TABLE						
		INDOOR UNIT A						
		AUTO	HEAT	DRY	COOL	FAN		
В	AUTO							
UNIT	HEAT					•		
	DRY					•		
NDOOR	COOL					•		
Z	FAN							

AVAILABLENOT AVAILABLE

4-2 Cool Mode Operation

In Cooling Mode, the operation of the compressor (CM), Outdoor Fan (FMO) and Indoor Fan (FMI) are determined by:

1) the difference between the room air temperature (RAT) and the set point temperature (SPT)

2) the protection level at which the system is operating

3) the thermal load in the room

NOTES

In addition to the temperature difference of above, the operation of the main components (CM, FMO, FMI) is also controlled by protection function.

The minimum off time of compressor is 3 minutes.

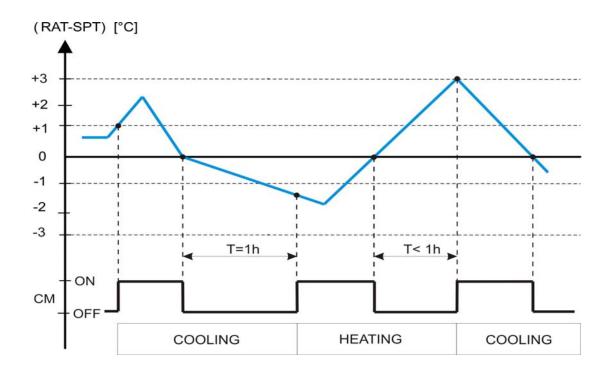
The indoor fan can change speed only after it has operated at the same speed for 30 sec if in AUTO and 1 sec for the other settings (High, Med, Low).

4-3 Heat Mode Operation

The Heating mode operation is similar to the Cooling mode operation. The CM, FMO and FMI are controlled by the same parameters.

The FMI will not be turned on until the indoor coil temperature is warm enough to prevent the supply of cold air (see COLD DRAFT PREVENTION feature for details). The indoor fan can change speed only after it has operated at the same speed for 30 sec if in AUTO and 1 sec for the other settings (High, Med, Low).

4-4 Auto Mode Operation (only monosplit)



In Auto Mode, the unit switches automatically between the Auto Cooling and Auto Heating in order to maintain the room temperature (RAT) at the prescribed set point (SPT). The switching between the two modes is according to the above graph and following table

COOLING ---> HEATING

If -3°C ≤ Dt ≤-1°C and the compressor is off for more than 1 hour If Dt ≤ -3°C and compressor is off for more than 3 minutes

HEATING ---> COOLING

If $1^{\circ}C \le Dt \le 3^{\circ}C$ and the compressor is off for more than 1 hour If $Dt \ge 3^{\circ}C$ and compressor is off for more than 3 minutes

Dt = RAT - SPT

Refer to the sections 4.1 COOLING MODE and 4.2 HEATING MODE for system operation details.

4-5 Dry Mode Operation

Dry operation remove moisture from indoor air running, in cooling mode, at a low level without reducing the ambient temperature. This is done cycling ON and OFF indoor and outdoor units according to below.

ROOM TEMP	DRY LEVEL	
≥ SPT+2°C	LEVEL 0	Operation according to COOLING mode
< SPT+2°C ≥ SPT-1°C	LEVEL 1	CM on at constant speed FMO on at constant speed FMI switches between L and LL every 30 seconds RV off
< SPT-1°C ≥ 15°C	LEVEL 2	CM switches 9 minutes off and 3 minutes on FMO switches 9 minutes off and 3 minutes ON FMI switches between L and LL every 30 seconds RV off
< 15°C	DRY OFF ZONE	CM off FMO off FMI off RV off

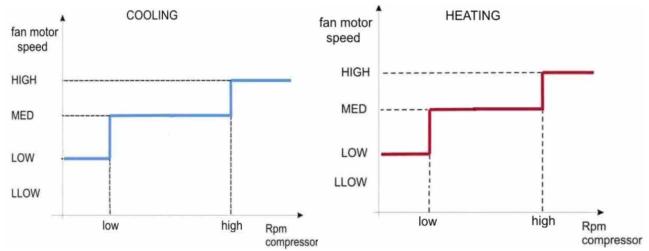
SPT = Set Point Temperature

4-6 Fan Mode Operation

With this mode, the indoor fan is turned on while CM, FMO and RV stay off all the time. The user can select between 3 speeds: HIGH, MEDIUM and LOW.

4-7 Auto Fan speed

With this option selected, the indoor fan speed changes automatically according to the compressor speed as shown in the following graphs



to prevent the supply of cool air, the FMI speed is setted as shown only if the indoor coil temperature ICT ≥ 32°C (see COLD DRAFT PREVENTION feature for details)

4-8 Forced Mode

In this mode the system operates (COOLING or HEATING mode – fixed settings) or is switched off by means of the MODE button on the indoor unit control board. The operation modes can be selected pressing the button in a cyclic way (OFF \Rightarrow COOL \Rightarrow HEAT \Rightarrow OFF...). The settings are:

COOLING mode

SET POINT temperature = 25°C FAN SPEED = HIGH FLAP POSITION = 3

HEATING mode SET POINT temperature = 21°C FAN SPEED = HIGH FLAP POSITION = 4

4-9 Protection operations indoor unit

4-9.1 Freeze-up

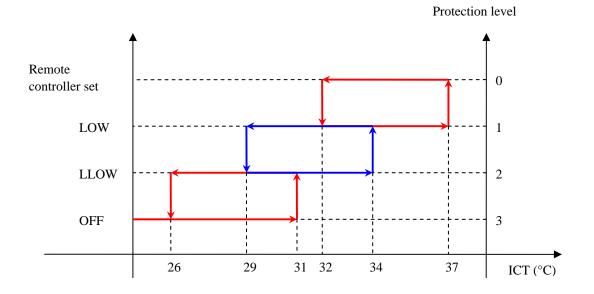
This protection prevents ice formation on the indoor coil heat exchanger. The protection is activated as soon as the indoor coil temperature ICT decreases and acts by decreasing the compresor speed

The system exit this protection routine when ICT temperature rises above 5°C.

4-9.2 Cold draft

This feature prevents the supply of cold air forcing the indoor fan to a speed which cannot be changed by the user.

If the ICT temperature goes down 32°C (in descending) or does not reach 37°C (in rising), the speed fan is set as shown below.



4-9.3 Overheat

This feature prevents the build up of high pressure in the indoor heat exchanger during heating operation As soon as the indoor coil temperature (ICT) increases, compressor speed is reduced in order to avoid heat exchanger overheating. System stops compressor operation when ICT reaches 60 °C

4-10 Protection operations on outdoor unit

4-10.1 Overheating

During cooling operation as soon as the outdoor coil temperature (OCT) increases, compressor speed is reduced in order to avoid heat exchanger overheating. System stops compressor operation when OCT reaches 60 $^{\circ}$ C

4-10.2 Compressor discharge temperature

During operation, as soon as the discharge temperature increases, (CDT) compressor speed is reduced in order to avoid overheating of the motor. Compressor is stopped when CDT reaches 110°C

4-10.3 Compressor power-module overheating

The module temperature, detected by a built-in thermistor, is always monitored by the control system and kept operating in a safe area. If temperature exceeds 100°C, operation is automatically stopped.

4-10.4 Outdoor fan power-module overheating

The module temperature, detected by a built-in thermistor, is always monitored by the control system and kept operating in a safe area. If temperature exceeds 100°C, operation is automatically stopped.

4-10.5 Compressor power-module overcurrent

Operation is automatically stopped in case of current driven to each motor phase greater than a value depending on the power of the outdoor unit (9A for 12000btu and 11A for 18000btu)

4-10.6 Outdoor fan power-module overcurrent

In case of current driven to each motor phase greater than 300mA operation is automatically stopped

4-11 Defrost

The defrost process is controlled by a detection algorithm designed in order to mantain optimal utilization of the heat pump capacity especially during negative outdoor temperature conditions.

- Compressor speed fixed
- Expansion valve opening fixed
- · Outdoor fan switched off
- · Indoor fan controlled by cold draft prevention
- Defrost valve switched on (open)
- · Reversing valve switched on (heating operation)

NOTE:

- Minimum defrost time interval is 2 minutes
- During HIGH POWER operation the defrost detection is ignored until this mode remains active
- System exits defrost protection as soon as 14°C on the outdoor coil are detected and, in any case, if at least 12 minutes are elapsed from the start of the defrost cycle.

4-12 I FEEL function

As standard configuration the air conditioner operates detecting the room temperature through the sensor equipped in the wireless remote controller (icon I FEEL shown on the display). This feature provides a personalised environment since the temperature can be detected where the remote controller is located.

It is possible to de-activate this option pressing the I FEEL button on the remote controller.

In this case the I FEEL icon is no longer displayed and room temperature is detected through the sensor included in the indoor unit.

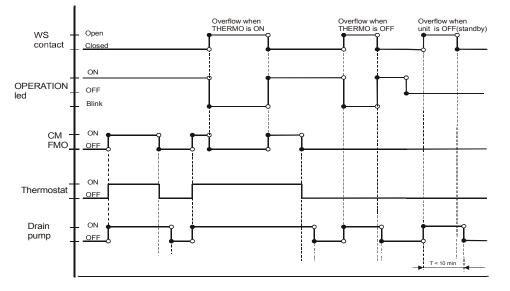
4-13 HI POWER mode

When this mode is active the internal fan speed is set automatically and the air conditioner operates, for 15 minutes, at the maximum power. After 15 minutes from the selection the mode is automatically switched off.

4-14 DRAIN PUMP

This unit is equipped with a drain pump

The level detection is done through a float switch connected at the input WS (closed under normal conditio and opened when water overflow). System operation is according to the following chart:



4-15 NIGHT Function

When this setting is active indoor fan speed is automatically reduced in order to allow low noise operation. Temperature control acts in the same way as NORMAL MODE but after 60 minutes of operation the air conditioner modifies automatically the set-point temperature according to the following:

•COOLING/DRY: +1°C •HEATING: - 2°C

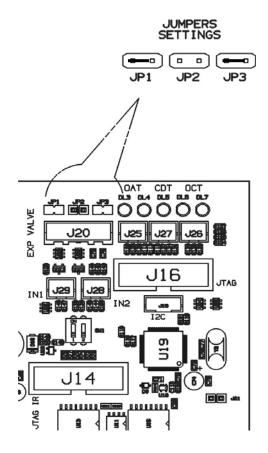
4-16 LED OFF function

This is a special function mode which can be selected by the user pressing, at the same for more than 5 seconds the IFEEL and FAN buttons on the remote controller. With this option active the OPERATION, TIMER and STANDBY lamps are switched off even during operation (they activates only in case of diagnostic signaling).

4-17 Capacity Test mode

This is a special operating mode used when testing the performance of the A/C. In this case the main components of the A/C (compressor, outdoor fan, indoor fan) operate at fixed settings. This option is activated shorting the JP1 and JP3 jumpers on the outdoor pcb and setting the remote controller according to the following:

COOLING MODE: Setpoint = 10°C / I-FEEL OFF HEATING MODE: Setpoint = 32°C / I-FEEL OFF



4-18 Diagnostic

With this feature is possible to have a visual signal that a trouble is occurring. This mode is always active and the signalling is made through the display board LEDS In case of no troubles the LEDS status follows its normal function. The detected troubles are showed to the user/technician using the 3 leds of the indoor unit receive and the 5 leds on the outdoor pcb. For each fault there are different effects upon the operation of the A/C:

NOTES

• The troubles are showed according to a priority list that is, in case of more than one

trouble present, is always showed, at first, the one with the highest priority ($1 \Rightarrow 2 \Rightarrow 3$ etc).

- Sensor damaged means a situation where sensor is short-circuited or opened
- In case of damaged sensors, the system (CM, FMO, FMI etc), if in OFF state, does not start

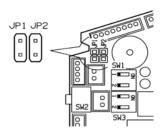
Priority	Priority INDOOR UNIT FAULT		LEDS statu	IS	Effects
FIOIIty			LD3(timer)	LD1(stby)	
4	RAT probe damaged	F	0	F	System does not operate. To restart the system,
3	ICT probe damaged	F	F	0	power re-setting (off-on) is required
2	communication error	F	F	F	The A/C switches off. As soon as fault is
1	fault on outdoor unit	0	0	F	cleared the system automatically restart
0	wrong mode selected	•	F	F	system does not operate.To restart the system,
					select correct mode

O = LED off

F = LED blinking

• = LED on

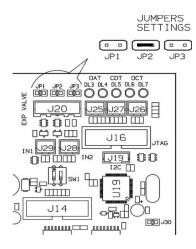
4-19 Indoor Unit Jumpers Configuration



Unit is shipped with jumpers set according to the following table:

JUMPER	STATUS
JP1	open
JP2	open

4-20 Outdoor Unit Jumpers Configuration



Unit is shipped with jumpers set according to the following table:

JUMPER	STATUS
JP1	open
JP2	closed
JP3	open

5. INDOOR UNIT AND REMOTE CONTROL ADDRESS

5-1 Address Switches (only for multisplit)

INDOOR UNIT A

Check that the setting of switches SW1 and SW3 (on the pcb) and dip switch of remote control correspond to the figure:

indoor unit PCB



SW1SW31= off1= off2= off2= off(PCB factory state)

INDOOR UNIT B

Set the switches SW1 and SW3 (on the pcb) and dip switch of remote control as shown in the figure:

(dip switch is located on the battery compartment)

1= on

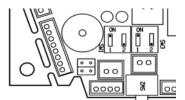
2= off

3= on

4= on

indoor unit PCB

remote control unit



 SW1
 SW3

 1= on
 1= on

 2= off
 2= off

remote control unit

(dip switch is located on the battery compartment)



2= off 3= on 4= on

1= off

(remote control factory state)

5-2 Refrigerant Circuit Check (only for multisplit)

- 1. Power ON the system
- 2. Set the remote controller of the unit A as following (unit B must be OFF):

mode: COOLING filter: ON set point: 32°C

3. Press FAN + IFEEL button for at least 5 seconds, pointing the remote control unit directly at the air conditioner receiver System starts and runs for 3 minutes

After 3 minutes operation:

in case the setting is right:

the unit switches to COOL mode and stops (set point 32°C) the system is ready to operate the STANDBY lamp flashes check the setting of indoor units and the connections of the refrigerant circuits

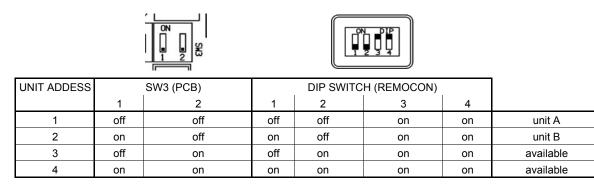
in case the setting is wrong: t

5-3 Changing the Address of the Air Conditioner

In case of more than one air conditioner operating in the same room, it may be necessary to assign an address to each unit in order to avoid operation conflicts. Address is set acting on the dip-switches located on the indoor PCB and on the remote controller. The PCB settings must match the corresponding ones on the wireless remote controller.

How to change address of the air conditioner

Set the PCB and the remote control to the address desidered



For monosplit all combinations are available

6) **TROUBLESHOOTING**

6-1 CHECK BEFORE AND AFTER «TROUBLESHOOTING»

(A) Check power supply wiring.

• Check the power supply wires are correctly connected.

(B) Check power supply.

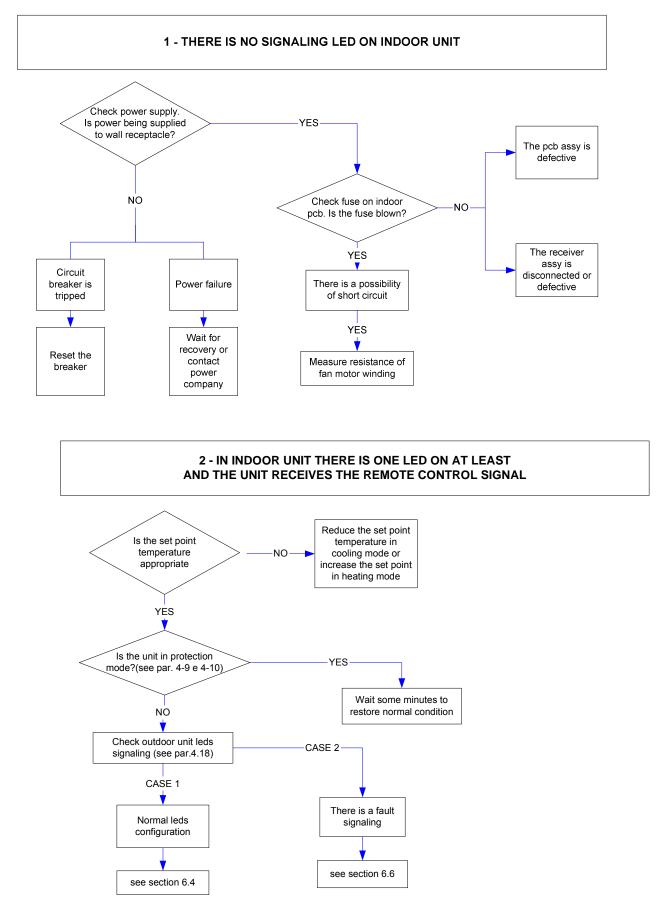
- Check that voltage is in specified range (±10% of the rating).
- Check that power is being supplied.

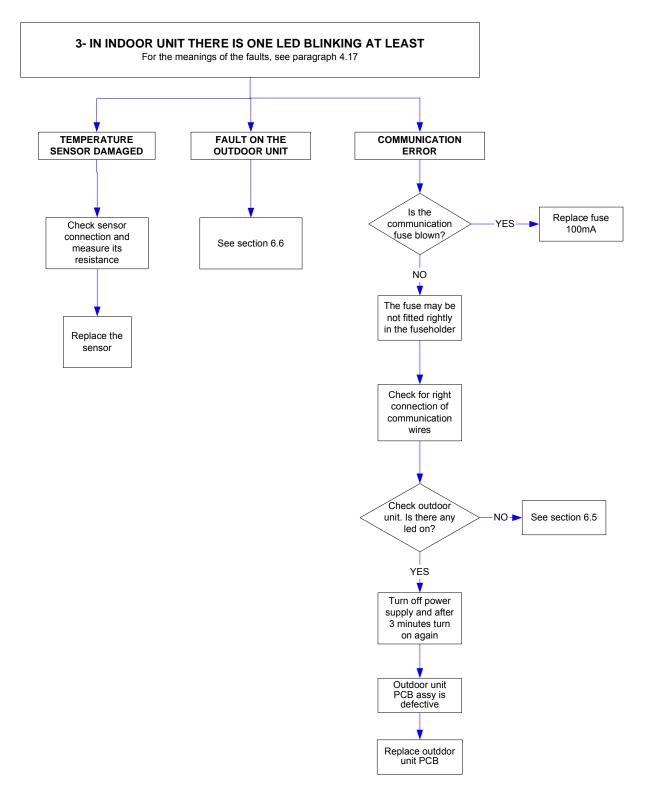
• WARNING: If the following troubleshooting must be done with power supplied, be careful not to touch any uninsulated live part that can cause *electric shock*

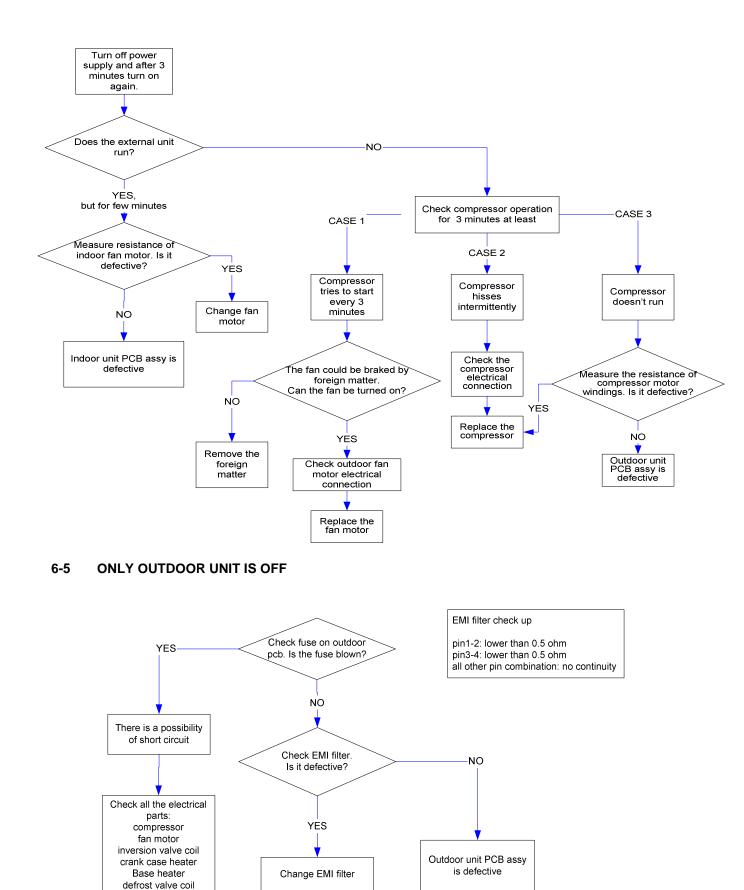
6-2 CIRCUIT BREAKER TRIPS OR FUSE BLOWS.

- When circuit breaker is set to ON, it trips in a few moments. Resetting is not possible.
- Measure insulation resistance. There is a possibility of ground fault.

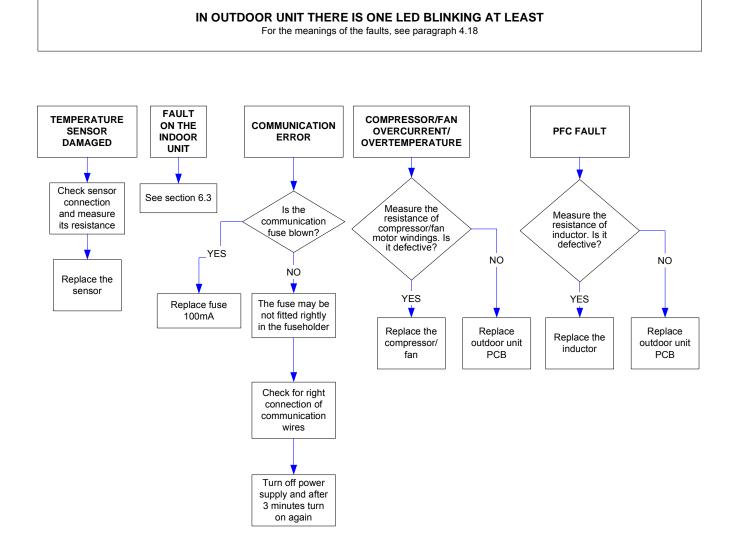
If resistance value is 1 Mohm or less, insulation is defective.



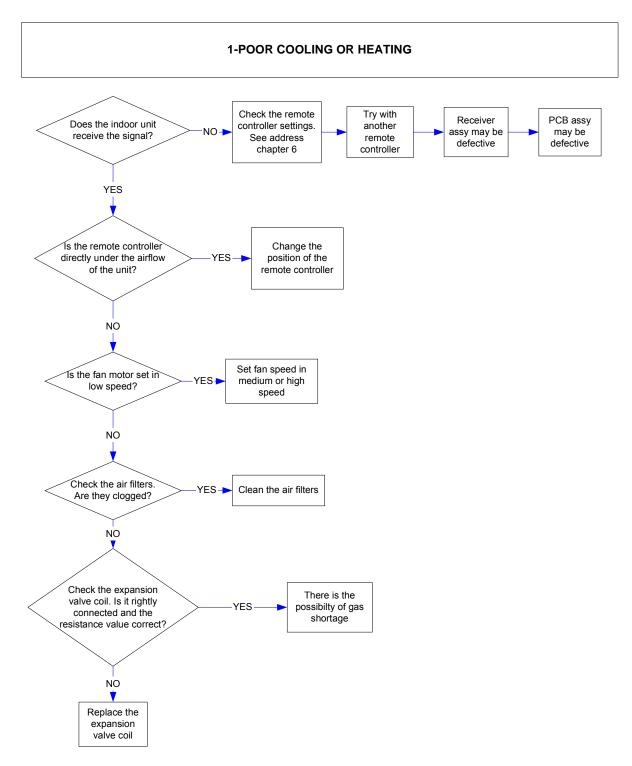




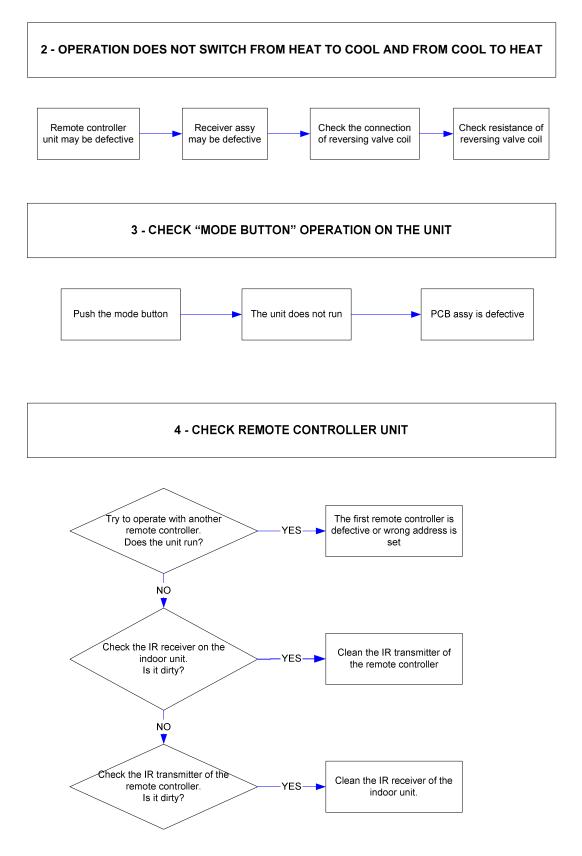
6-6 FAULT ON OUTDOOR UNIT



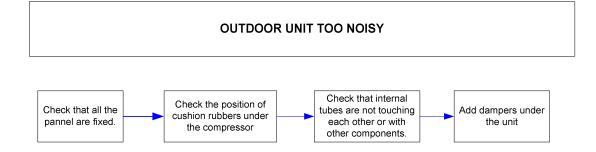
6-7 AIR CONDITIONER OPERATES, BUT ABNORMALITIES ARE OBSERVED.



6-7 AIR CONDITIONER OPERATES, BUT ABNORMALITIES ARE OBSERVED.



6-8 NOISE PROBLEM



7. CHECKING ELETRICAL COMPONENTS

7-1 Measurement of Insulation Resistance

The insulation is in good condition if the resistance exceeds 1 Mohm

a) Power Supply Wires

Clamp the earthed 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 earthed wire and the other power wires (fig.1).

b) Unit

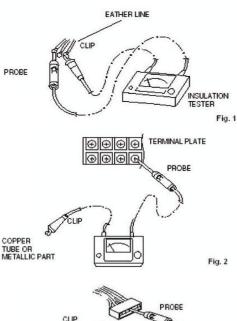
Clamp an alluminium plate fin or copper tube with the lead clip of the insulation resistance tester and measure the resistance by placing a probe on N terminal, and then on Lterminal the terminal plate (fig.2)

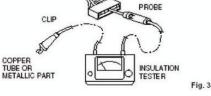
c) Measurement of Insulation Resistance for Electrical Parts

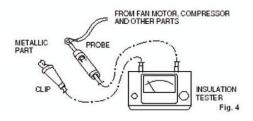
Disconnect the lead wires of the disired electric part from terminal plate, PCB assy, capacitor, etc. Similary disconnect the connector. Then measure the insulation resistance (fig.1 to 4). Refer to electric wiring diagram.

NOTE

If the probe cannot enter the poles because the hole is too narrow then use a probe with a thinner pin.



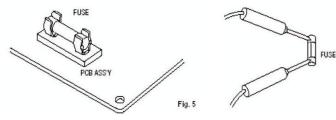




7-2 Checking Continuity of fuse on PCB assy

Remove PCB assy from electrical component box (fig.5) Then pull out the fuse from PCB assy

Check continuity of fuse by the multimeter (fig.6)



7-3 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

the gradually returns to its original position.

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

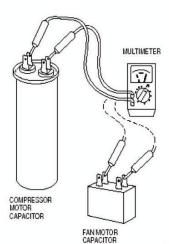


Fig. 7

Fig. 6

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