MultiElite DS Series
Multi Split System Air Conditioner

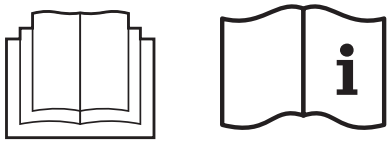
Owner's Manual

Model Numbers

MRC-050DS-2
MRC-075DS-3
MRC-090DS-4
MRC-135DS-5

CAUTION:

The system is charged with flammable refrigerant, safety checks are necessary to ensure that the risk of ignition is minimised.



IMPORTANT NOTE:

This unit is designed for use with R-32 refrigerant only.
Please read the R-32 Safety Manual and this manual carefully before installing or operating your air conditioning unit.
Information in this manual is to be used in conjunction with the R-32 Safety Manual.
Make sure to save this manual for future reference.

ActronAir

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READ SAFETY PRECAUTIONS BEFORE INSTALLATION

Incorrect installation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a **WARNING** or **CAUTION**.

CAUTION

Failure to observe a caution may result in injury or equipment damage

WARNING

Failure to observe a caution may result in death or serious injury.

01. General Information

CONGRATULATIONS on your purchase of an ActronAir air conditioning unit! This unit has been designed and engineered to provide optimum air conditioning and to achieve maximum energy efficiency.

Your air conditioning system has been manufactured from the highest quality materials. Numerous "in house" and "external" inspections and test procedures were conducted to your air conditioning unit to ensure satisfactory operation.

This guide provides operation instructions specific to your split indoor unit. Read this manual thoroughly to ensure safe operation of your air conditioning system.

02. Safety Instructions

- Only licensed HVAC technicians* should service this air conditioning equipment. Improper service or alteration by an unqualified technician could result in significant and major damage to the product or property which may render your warranty null and void. Such unqualified service could also lead to severe physical injury or death. Follow all safety instructions in this literature and all warning labels that are attached to the equipment.
- Prevailing WH&S regulations must be observed and will take precedence to the safety instructions contained on this manual. Safe work practices and environment must be the paramount importance in the performance of all the service procedures.
- This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance.

*****Qualifications required will be appropriate Electrical, Refrigeration and Refrigerant Handling License and Training dependent on local State/Territory regulations.

⚠ DANGER

Hazardous Voltage - Risk of Electrocution.

Turn Off the power from main isolator before proceeding with any service and maintenance work of the unit. Observe proper LOCK-OUT/TAG-OUT (LOTO) procedures for electrical appliances in order to prevent accidental switching-on of the power supply. Extreme care and caution must be observed should there be a need to work on live circuit.

⚠ WARNING

- If any abnormal situation arises (like burning smell), turn of the power supply and call your HVAC technician for instructions to avoid electric shock, fire or injury.
- **DO NOT** let the indoor unit or the controller get wet. It may cause electric shock or fire.
- **DO NOT** insert fingers, rods or other objects into the air inlet or outlet. This may cause injury, since the fan may be rotating at high speeds.
- **DO NOT** use a flammable spray such as hair spray, lacquer or paint near the unit. This may cause fire or combustion.

PRODUCT INSPECTIONS

- Fully check your air conditioning unit and all items against the bill of loading upon receiving your shipment. Inspect the unit, components and accessories for any sign of shipping damage. If there is any damage to the unit, contact ActronAir Customer Care immediately on: 1300 522 722.
- Check the unit nameplate to verify the model, serial number, electrical rated specifications and details are correct.

CODES, REGULATIONS AND STANDARDS

- The installer assumes responsibility to ensure that unit installation complies with the relevant council, state & federal codes, regulations and building code standards. All electrical wiring must be in accordance with current electrical authority regulations and all wiring connections to be as per electrical diagram provided with the unit.

⚠ CAUTION

- DO NOT inspect the unit by yourself. Ask a qualified HVAC technician to perform the inspection.
- To prevent product deterioration, do not use the air conditioner for preservation purposes (storage of food, plants, animals, works of art, etc.).
- **DO NOT** operate the air conditioner with wet hands. It may cause electric shock.
- **DO NOT** touch the evaporator coils inside the indoor unit. The evaporator coils are sharp and may cause injury.
- **DO NOT** place items that might be affected by moisture damage under the indoor unit. Condensation can occur at a relative humidity of 80%.
- **DO NOT** expose heat-producing appliances to cold air or place them under the indoor unit. This may cause incomplete combustion or deformation of the unit due to the heat.
- If the air conditioner is used together with other heating devices, thoroughly ventilate the room to avoid oxygen deficiency.
- **DO NOT** climb onto or place objects on top of the outdoor unit.
- **DO NOT** operate the air conditioner when using fumigant insecticides. The chemicals may become layered with the unit and endanger those who are hypersensitive to chemicals.
- **DO NOT** let children play with the air conditioner.
- **DO NOT** operate the air conditioner in a wet room (e.g. bathroom or laundry room). This can cause electrical shock and cause the product to deteriorate.
- **DO NOT** insert fingers, rods or other objects into the air inlet or outlet. This may cause injury, since the fan may be rotating at high speeds.

⚠ WARNING

This air-conditioning unit contains R-32 refrigerant (CLASS A2L) which is mildly flammable.

NOTE

- Service, maintenance, repairs and decommissioning of this unit must be performed by a licensed HVAC technician; qualified to handle R-32 refrigerant.
- R-32 refrigerant is odourless, if the refrigerant gas comes into contact with fire, it may emit a poisonous gas.

WARNING

- To prevent the risk of fire or explosion from refrigerant leakage, the following safety requirements apply when the appliance is installed in an unventilated area:
- The installation area must be constructed to ensure that any leaked refrigerant does not stagnate and create a fire or explosion hazard.
- The appliance must be stored in a room that meets the minimum area requirement specified for operation.
- The appliance must not be stored in a room with continuously operating open flames (e.g., gas appliances) or other ignition sources (e.g., electric heaters, hot surfaces).
- For Appliances Connected via Air Duct Systems:
- If installed in a room smaller than Amin (as determined in Clause GG.2 of AS/NZS 60335.2.40), that room must not contain continuously operating open flames or other ignition sources (e.g., electric heaters, hot surfaces).
- A flame-producing device may only be installed if fitted with an effective flame arrestor.
- Auxiliary devices that can act as ignition sources must not be installed in ductwork. Examples include, but not limited to:
- Hot surfaces exceeding X °C
- Electric switching devices

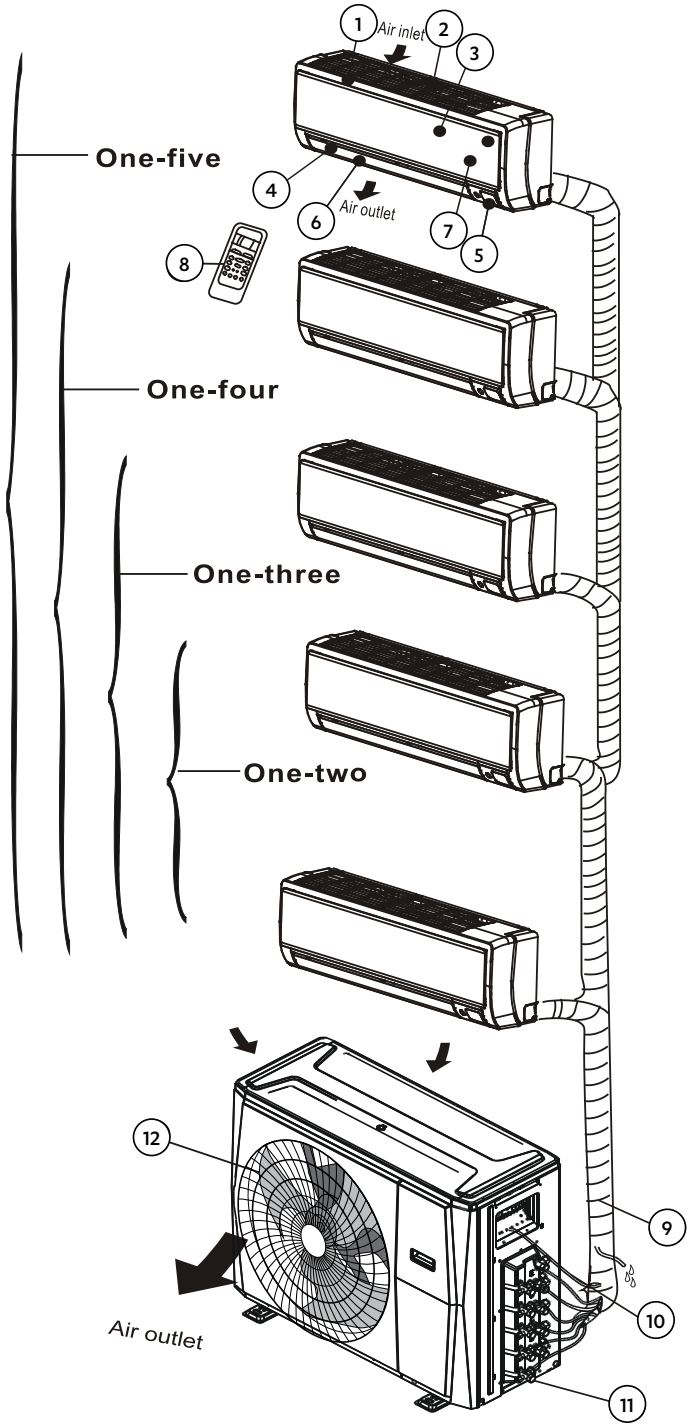
Note: X is the maximum allowable surface temperature defined in Clause 22.117 of AS/NZS 60335.2.40.

03. Unit Parts

NOTE

For multi-split air conditioning systems, a single outdoor unit can be paired with various types of indoor units. Please note that the images in this manual are for illustrative purposes only - your actual air conditioner may differ slightly in appearance. The following sections provide an overview of the different indoor unit options compatible with the outdoor units.

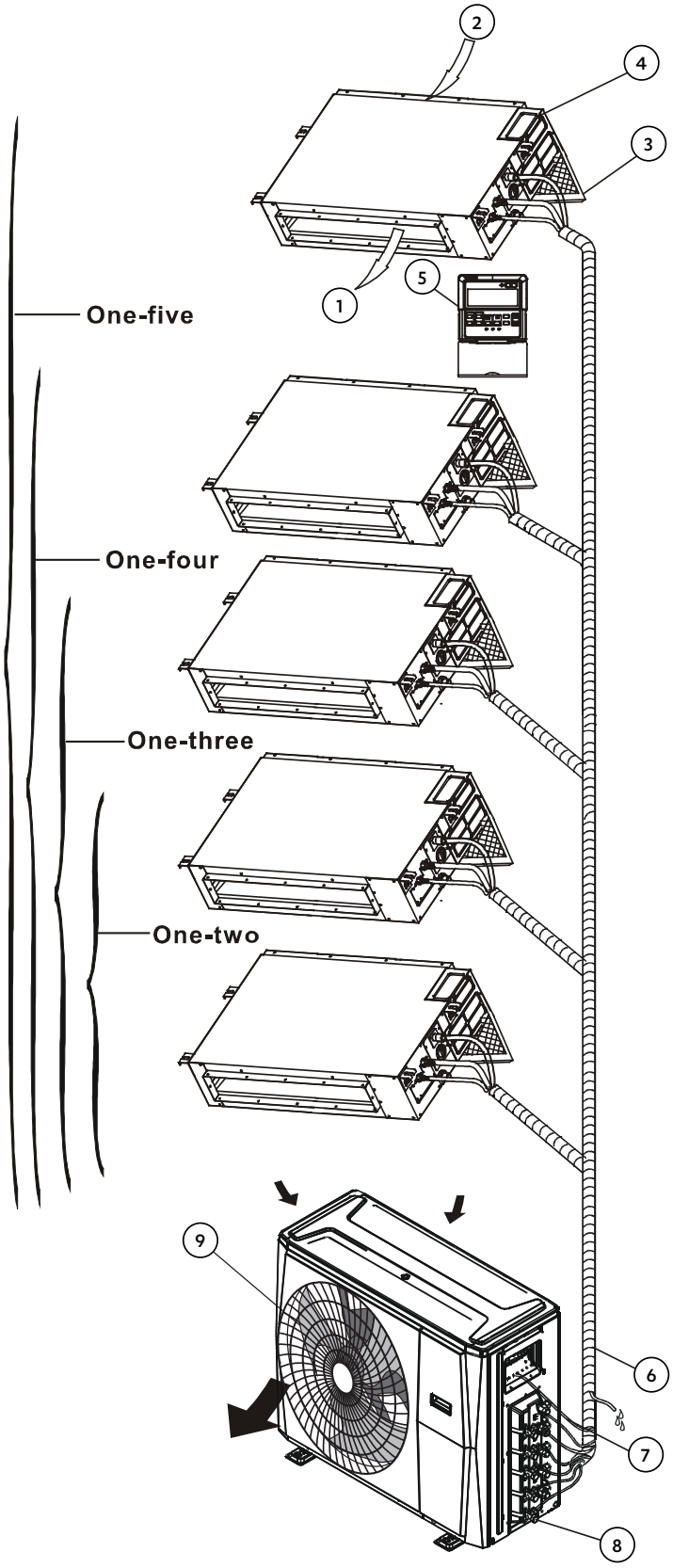
03.01. Wall Mounted Type



Indoor	
Item	**Unit Parts**
1	Panel Frame
2	Top Air Intake Grille (Return Air Filter Underneath)
3	Front Panel
4	Horizontal Louver
5	LCD Display Window
6	Vertical Louvre
7	Manual Control Button (behind the front panel)
8	Remote Controller

Outdoor	
Item	**Unit Parts**
9	Drain Hose, Refrigerant Connecting Pipe
10	Connecting Cable
11	Refrigerant Pipe Valve
12	Fan Guard

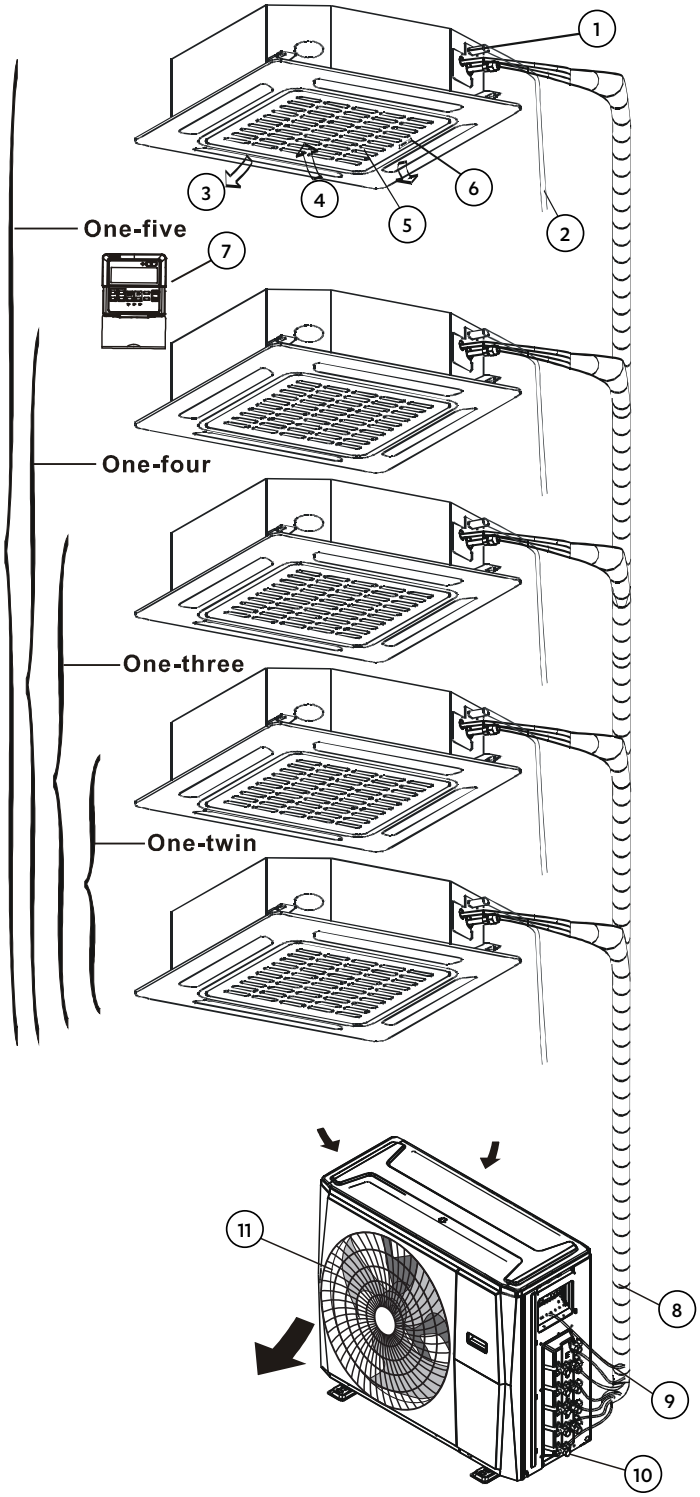
03.02. Bulkhead Type



Indoor	
Item	**Unit Parts**
1	Air Outlet
2	Air Inlet
3	Air Filter
4	Control Box
5	Wired Controller

Outdoor	
Item	**Unit Parts**
6	Drain Hose, Refrigerant Connecting Pipe
7	Connecting Cable
8	Refrigerant Pipe Valve
9	Fan Guard

03.03. Mini Cassette Type



Indoor	
Item	**Unit Parts**
1	Drain Pump (drain water from indoor unit)
2	Drain Hose
3	Air Outlet
4	Air Inlet
5	Return Grill
6	Display Panel
7	Wired Controller

Outdoor	
Item	**Unit Parts**
8	Refrigerant Connecting Pipe
9	Connecting Cable
10	Refrigerant Pipe Valve
11	Fan Guard

04. Operating Conditions

Operating Temperature

For optimal performance in **COOL**, **HEAT**, and **DRY** modes, it is recommended to operate the air conditioner within the specified temperature ranges. Using the unit outside of these ranges may activate safety protection features, which could result in reduced performance.

	COOL Mode	HEAT Mode	DRY Mode
Room Temperature	17°C to 32°C	0°C to 30°C	10°C to 32°C
Outdoor Temperature	-15°C to 50°C	-25°C to 30°C	0°C to 50°C

NOTE

The room's relative humidity should be kept below 80%. If the air conditioner operates in an environment with relative humidity exceeding 80%, condensation may form on its surface. To minimize this effect, set the vertical air flow louvre to its maximum angle and select the HIGH fan mode.

To further optimize the performance of your unit, do the following:

- Keep doors and windows closed.
- Limit energy usage by using **TIMER ON** and **TIMER OFF** functions.
- Do not block air inlets or outlets.
- Regularly inspect and clean air filters.

05. Features

Compressor Protection

- The compressor cannot restart for 3 minutes after it stops.

Hot Start

- The unit is designed to prevent blowing cold air during **HEAT** mode when the indoor heat exchanger is in any of the following conditions and the set temperature has not yet been reached:
  a. During the initial start-up of heating.
  b. While the system is in defrost mode.
  c. During low-temperature heating.
- Additionally, the indoor or outdoor fan will stop operating when the system enters defrost mode.

Defrosting

- Frosting may occur on the outdoor unit during a heat cycle when outdoor temperature is low and humidity is high resulting in lower heating efficiency in the air conditioner.
- Under these conditions, the air conditioner will stop heating operations and start defrosting automatically.
- The defrost period may vary from 4 to 10 minutes, depending the outdoor temperature and the amount of frost buildup on the outdoor unit.

Auto-Restart

In case of power failure, the system will immediately stop. When power returns, the Operation light on the indoor unit will flash. To restart the unit, press the **ON/OFF** button on the remote control. If the system has an auto restart function, the unit will restart using the same settings.

NOTE

Lightning or nearby electronic interference may cause the unit to malfunction. In such cases, reset the power supply at the mains (isolator) and press the **ON/OFF** button on the wired controller to resume operation.

06. Unit Operation

White Mist Emitting From The Indoor Unit

- A white mist may be generated due to a large temperature difference between air inlet and air outlet on **COOL** mode in places with high relative humidity.
- A white mist may be generated due to moisture created in the defrosting process when the air conditioner restarts in **HEAT** mode operation after defrosting.

Noise Coming From The Air Conditioner

- You may hear a low hissing sound when the compressor is running or has just stopped running. This sound is the sound of the refrigerant flowing or coming to a stop.
- You may also hear a low **squeaking** sound when the compressor is running or has just stopped running. This is caused by temperature heat expansion and cold contraction of the plastic parts in the unit when the temperature is changing.
- A noise may be heard due to the louver restoring itself to its original position when power is first turned on.

Dust Blowing Out From The Indoor Unit

This is happens when the air conditioner has not been used for a long time or during its first use.

Smell Emitting From The Indoor Unit

This is caused by the indoor unit giving off smells permeated from building materials, furniture, or smoke.

The Air Conditioner Turns To Fan Only Mode From Cool Or Heat Mode

When the indoor temperature reaches the set point, the compressor will automatically stop, and the air conditioner will switch to **FAN-only** mode. The compressor will restart when the indoor temperature rises in **COOL** mode or falls in **HEAT** mode to match the set temperature.

In environments with high humidity (above 80%), condensation may form on the surface of the indoor unit during cooling. To minimize this, adjust the horizontal louver to the maximum air outlet position and select the **HIGH** fan speed setting.

Energy Saving Tips

- **DO NOT** set the unit to excessive temperature levels.
- While cooling, close the curtains to avoid direct sunlight.
- Doors and windows should be kept closed to keep cool or warm air in the room.
- **DO NOT** place objects near the air inlet and outlet of the unit. This will reduce the efficiency of the unit.
- Set a timer and use the built-in **SLEEP/ECONOMY** mode if applicable.
- If you don't plan to use the unit for a long time, remove the batteries from the remote control (if wireless remote control is being used).
- Clean the air filter every two weeks. A dirty filter can reduce cooling or heating efficiency.
- Adjust louvers properly and avoid direct airflow.

07. Manual Operations

Operation Mode Selection

While two or more indoor units are simultaneously operating, make sure the modes do not conflict with each other. The heat mode claims precedence over all other modes. If the unit initially started to operate in **HEAT** mode, the other units can operate in **HEAT** mode only.

Example: If the unit initially started to operate under **COOL** (or **FAN**) mode, the other units can operate under any mode except **HEAT**.

If one of the unit selects **HEAT** mode, the other operating units will stop operation and displays **--**.

Alternatively, the defrost and alarm indication light (if applicable) will light up, or the operation indication light will flash rapidly, and the timer indication light will turn off (for the floor and standing type).

Optimal Operation

To achieve optimal performance, please note the following:

- Adjust the direction of the air flow so that it is not blowing directly on people.
- Adjust the temperature to achieve the highest possible level of comfort. Do not adjust the unit to excessive temperature levels.
- Close doors and windows in **COOL** mode or **HEAT** mode.
- Use the **TIMER ON** button on the remote controller to select a time you want to start your air conditioner.
- Do not place any object near the air inlet or air outlet, as the efficiency of the air conditioner may be reduced and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating per conformance may be reduced.
- Do not operate unit with horizontal Louvre in closed position.

08. Care and Maintenance

NOTES

All general maintenance and care, except for filter cleaning, should be carried out by a licensed technician. Service, maintenance, repairs, and decommissioning of this unit must be performed by a licensed HVAC technician who is qualified to handle R-32 refrigerant.

Maintenance Procedures

This section outlines the procedures required as part of a regular maintenance program. It is strongly recommended to have the equipment serviced regularly by a licensed technician to ensure optimal performance and reliability. **The maintenance checklist and service intervals provided in this manual serve as general guidelines - some locations may require more frequent servicing.**

Always disconnect electrical power to the unit before performing any maintenance tasks. Additionally, be sure to follow all safety warnings and precautions to maintain a safe working environment.

⚠ WARNING

Hazardous Voltage !
Always make sure that all power supply, including remote controls, are disconnected before performing maintenance. Observe proper LOCK-OUT/TAG-OUT procedures to ensure that power cannot be inadvertently energised. Failure to disconnect power before maintenance procedures can result in serious injury and/or death.
This unit is charged with R-32 mildly flammable refrigerant.

⚠ DANGER

Live Electrical Connections!
It may be necessary to work with live electrical components on certain maintenance tasks. Only licensed electricians and qualified technicians are allowed to perform these tasks.

Beware of Rotating Fan Blades!
Always make sure that all power supply, to the Outdoor Fans are turn Off and isolated.

Observe WH&S safety procedures, do not wear loose clothing and any jewellery when working near the fans.
Wear PPE whenever performing any maintenance procedures.
Observe all necessary procedures when working in a confined space.

Annual Maintenance Checklists

- Perform general maintenance inspections.
- Perform scheduled start-up checks.
- Leak test refrigerant circuits.
- Inspect contacts of all contactors and relays. Replace all worn contacts as required.
- Inspect, clean and tighten all electrical connections.
- Check fans for balanced operation. Make sure that there are no loose screws / bolts, no fan blades interference and no damage to the fans and guards.
- Inspect the air filters, clean or replace as required.
- Clean and repaint any corroded panel section.
- Ensure no blockage of airflow through variable speed drive.

Cleaning the Condenser Coils

Clean the coils at least once a year or more frequently if unit is located in a dusty and dirty environment, in order to maintain your system's proper operating performance. High discharge pressures are good indication that the coils need cleaning. When using detergent or solvents to clean the coils, follow the manufacturer's instructions to avoid potential damage to the coils and to the unit.

To clean the refrigerant coils, use a soft brush and water spray, such as garden hose or pressure washer with low pressure nozzle.

⚠ WARNING

Do Not Use High Alkaline Detergent!
When using detergent for coil cleaning, ensure that the alkaline level is no higher than 8.5, which can cause corrosion damage to the coils.

No Water into the Electrical Compartments!
Ensure consideration is given to the possibility of water entering the electrical compartments during cleaning of the condenser coil.

Coil Cleaning Procedures

- Disconnect power to the unit.
- Remove the louvered panels from the unit to gain access to the air inlet side of the coils.
- Use a soft brush to remove loose dirt and debris from both sides of the coils.
- Straighten bent coil fins with fin comb.
- Prepare the detergent solutions according to the manufacturer's instructions.
- Spray solution at a 90° angle to the coils, keeping a minimum nozzle spray angle of 15°, with at least a 1800mm distance from the coils and 60 psi pressure.
- Spray leaving air side of the coils first then the air inlet side. Allow the solution to stand on the coils for five minutes.
- Rinse both sides of the coils with cool clean water.
- Inspect the coils, if they are still dirty, repeat the cleaning procedure.
- Clean and wipe dry the outer and inner sides of the unit, the refrigerating parts and other components.
- Ensure that the condensate drain lines are not blocked.
- Reinstall all unit panels, covers and guards.
- Restore electrical power to the unit after ensuring all electrical components are dry.

Preparation For Periods of Non-Use

If you plan to not use your air conditioner for an extended period of time, do the following:

- Run the appliance on FAN mode for 12 hours in a warm room to dry all its components. Presence of moisture for a long period of time may lead to mold formation.
- Turn off the appliance and turn off power via the main power isolator.
- Clean the air filter according to the instructions in the previous section. Reinstall the clean, dry filter before storing.
- Remove the batteries from the remote control (if wireless remote control is used).

Recommendation is to electrically isolate the unit heater, if any, will not run.

Maintenance – Pre-Season Inspection

After long periods of non-use, or before periods of frequent use, do the following:

- Use a dry cloth to wipe off the dust accumulated on the rear air intake grille in order to avoid the dust being dispersed from the indoor unit.
- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

⚠ CAUTION

- Any unit repairs, maintenance and cleaning of outdoor unit should be performed by qualified HVAC technician.
- Filter cleaning can and should be regularly performed by product owner as required.

⚠ WARNING

- If the refrigerant leaks, turn off the air conditioner and any combustible heating devices, ventilate the room and call your HVAC technician immediately. Refrigerant can be toxic. DO NOT use the air conditioner until the leak is repaired.
- When the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit in the event of refrigerant leakage. Concentrated refrigerant causes a severe health and safety threat.

09. Troubleshooting

⚠ SAFETY PRECAUTIONS

If ANY of the following conditions occurs, turn off your unit immediately!

- The power cord is damaged or abnormally warm
- You smell a burning odour
- The unit emits loud or abnormal sounds
- A power fuse blows or the circuit breaker frequently trips
- Water or other objects fall into or out of the unit

DO NOT ATTEMPT TO FIX THESE YOURSELF! CONTACT AUTHORISED SERVICE PROVIDER IMMEDIATELY!

The following problems are not a malfunction and in most situations will not require repairs.

Fault	Possible Causes
Unit does not turn on when pressing ON/OFF button	The unit has a 3-minute protection feature that prevents the unit from overloading. The unit cannot be restarted within three minutes of being turned off.
	Cooling and Heating Models: If the Operation light and PRE-DEF (Pre-heating/ Defrost) indicators are lit up, the outdoor temperature is too cold and the unit's anti-cold wind is activated in order to defrost the unit.
	In Cooling-only Models: If the **Fan Only** indicator is lit up, the outdoor temperature is too cold and the unit's anti-freeze protection is activated in order to defrost the unit.
The unit changes from COOL mode to FAN mode	The unit changes its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will resume operating when the temperature fluctuates again.
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in **HEAT** mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.
The indoor unit makes noises	A squeaking sound is heard when the system is **OFF** or in **COOL** mode. The noise is also heard when the drain pump (optional) is in operation.
	A squeaking sound may occur after running the unit in **HEAT** mode due to expansion and contraction of the unit's plastic parts.
Both the indoor unit and outdoor unit make noises	A low hissing sound may occur during operation. This is normal and is caused by refrigerant gas flowing through both the indoor and outdoor units.
	A low hissing sound may be heard when the system starts, has just stopped running or is defrosting. This noise is normal and is caused by the refrigerant gas stopping or changing direction.
The outdoor unit makes noises	The unit will make different sounds based on its current operating mode.
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odour	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become moldy and should be cleaned.
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimize product operation.

When troubles occur, please check the following points before contacting a repair company.

Fault	Possible Causes	Remedies
The unit is not working	Power failure	Wait for the power to be restored
	The power switch is off	Turn on the power
	The fuse is burned out	Replace the fuse
	Remote control batteries are dead	Replace the remote control batteries
	The unit's 3-minute protection has been activated	Wait three minutes after restarting the unit
Poor Cooling Performance	Temperature setting may be higher than the ambient room temperature	Lower the temperature setting
	The heat exchanger on the indoor or outdoor unit is dirty	Clean the affected heat exchanger
	The air filter is dirty	Remove the filter and clean it according to instructions
	The air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on
	Doors and windows are open	Make sure that all doors and windows are closed while operating the unit
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant
The unit starts and stops frequently	There's too much or too little refrigerant in the system	Check for leaks and recharge the system with refrigerant
	There is air, incompressible gas or foreign material in the refrigeration system.	Evacuate and recharge the system with refrigerant
	System circuit is blocked	Determine which circuit is blocked and replace the malfunctioning piece of equipment
	The compressor is broken	Replace the compressor
	The voltage is too high or too low	Install a manostat to regulate the voltage
Poor Heating Performance	The outdoor temperature is lower than 7°C	Check for leaks and recharge the system with refrigerant
	Cold air is entering through doors and windows	Make sure that all doors and windows are closed during use
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant

NOTE

If your problem persists after performing the checks and diagnostics above, turn off your unit immediately and contact ActronAir on 1800 119 229 for technical support or warranty.

10. Error Codes (Indoor Unit)

When troubles occur, please check the following points before contacting a qualified service technician.

When the indoor unit encounters a recognized error on different models ,

1. the running LED with flash in a corresponding series, the timer LED may turn on or begin flashing;
2. an error code will be displayed;
3. both 1 and 2.

These error codes are described in the following tables:

Running Lamp	Timer Lamp	Display	Information	Solution
--	--	dF	Defrost	Normal Display, not error code
--	--	CL	Filter cleaning reminder (power on display for 15 seconds)	
--	--	CL	Active clean	
--	--	nF	Filter replacement (power on display for 15 seconds)	
--	--	FP	Heating in room temperature under 8 °C	
--	--	FC	Forced cooling	
--	--	AP	AP mode of WIFI connection	
--	--	CP	Remote switched off	
1 time	OFF	EH00/EH0A	Indoor unit EEPROM parameter error	TS23
2 times	OFF	EL01	Indoor/Outdoor units communication error	TS24
3 times	OFF	EH02	Zero-crossing signal detection error	TS41
4 times	OFF	EH03	The indoor fan speed is operating outside the normal range	TS27
5 times	OFF	EC51	Outdoor unit EEPROM parameter error	TS23
5 times	OFF	EC52	Condenser coil temperature sensor T3 is in open circuit or has short circuited	TS29
5 times	OFF	EC53	Outdoor room temperature sensor T4 is in open circuit or has short circuited	TS29
5 times	OFF	EC54	Compressor discharge temperature sensor TP is in open circuit or has short circuited	TS29
5 times	OFF	EC56	Evaporator coil outlet temperature sensor T2B is in open circuit or has short circuited	TS29
6 times	OFF	EH60	Indoor room temperature sensor T1 is in open circuit or has short circuited	TS29
6 times	OFF	EH61	Evaporator coil middle temperature sensor T2 is in open circuit or has short circuited	TS29
12 times	OFF	EC07	The outdoor fan speed is operating outside the normal range	TS27
9 times	OFF	EH06	Indoor PCB/Display board communication error	TS50
7 times	FLASH	PC00	IPM malfunction or IGBT over-strong current protection	TS32
2 times	FLASH	PC01	Over voltage or over low voltage protection	TS34
3 times	FLASH	PC02	Top temperature protection of compressor or High temperature protection of IPM module or High pressure protection	TS42
5 times	FLASH	PC04	Inverter compressor drive error	TS32
1 time	FLASH	PC08	Current overload protection	TS30
6 times	FLASH	PC40	Communication error between outdoor main chip and compressor driven chip	TS36
7 times	FLASH	PC03	High or low pressure protection	TS43/TS45
1 time	ON	--	Indoor units mode conflict (match with multi outdoor unit)	--

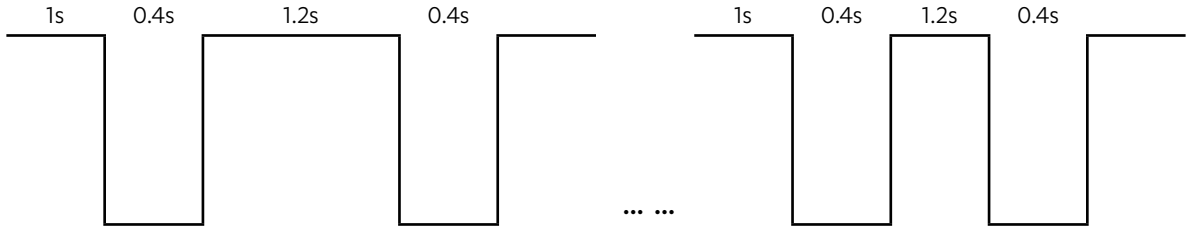
For Other Errors:

The display board may show a garbled code or a code undefined by the service manual. Ensure that this code is not a temperature reading.

Troubleshooting:

Test the unit using the remote control. If the unit does not respond to the remote, the indoor PCB requires replacement. If the unit responds, the display board requires replacement. Contact authorised service provider.

88 Flash Frequency:



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