TECO

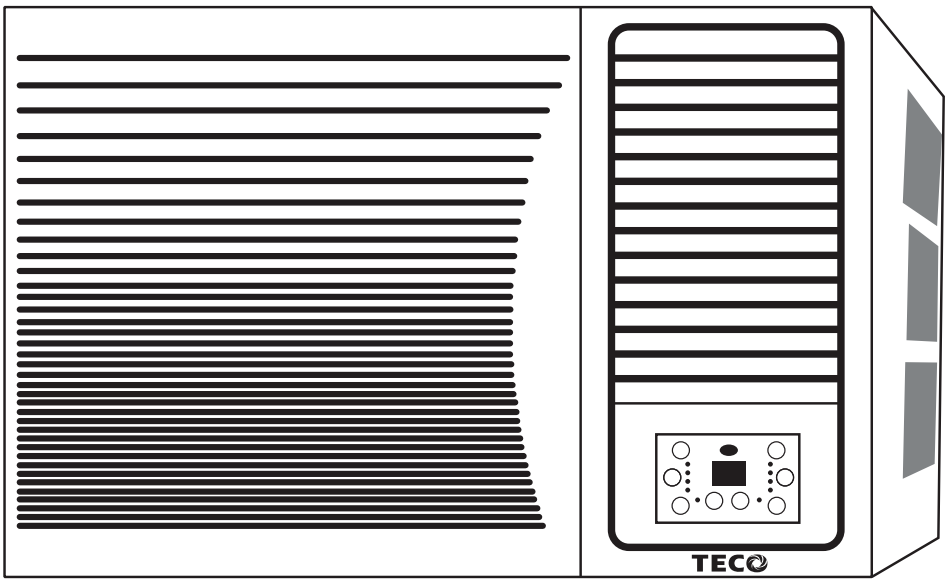
The Comfortable Choice

Window - Wall Type
Room Air Conditioner

User's Manual

R32 Refrigerant Models

TWW16CFDG	TWW22HFWDG
TWW22CFWDG	TWW27HFWDG
TWW27CFWDG	TWW40HFWDG
TWW40CFWDG	TWW53HFWDG
TWW53CFWDG	TWW60HFWDG
TWW60CFWDG	TWW61HFWEG



Thank you for selecting our super quality Air Conditioner. To ensure satisfactory operation for many years to come, this User's Manual should be read carefully before using your air conditioner. After reading, store it in a safe place. Please refer to the manual for questions on use or in the event that any irregularities occur.

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Foreword

Congratulations on your purchase of a TECO room air conditioner. To assist you in protecting your investment and maintaining the appliances satisfactory operation, three simple steps are provided for you to follow.

1. Ensure that your air conditioner is installed according to the specifications detailed in this booklet.
2. Familiarise yourself with the correct operation of the air conditioners controls and switches.
3. Service your air conditioner at regular intervals.

Thank you for taking the time to read this booklet and we trust you enjoy the comfort obtained from your TECO room air conditioner.

The information contained in this material is provided by Teco Australia Pty Ltd in good faith. The information supplied to our knowledge is correct; however is subject to change without notice, therefore before relying on the material in any important matter, users should carefully evaluate its accuracy, completeness and relevance for their purpose. It is not intended as a substitute for consulting the relevant legislation or for obtaining appropriate professional advice relevant to your particular circumstances.

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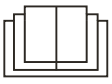
WARNING ICON
This symbol indicates information concerning your personal safety

CAUTION ICON
This symbol indicates information on how to avoid damaging the appliance

FLAMMABLE ICON
This symbol indicates appliance filled with flammable R32 refrigerant



Read Before Use

Read Before Installation

Read Before Servicing

The Refrigerant

- The refrigerant used in this appliance is the mildly flammable **HFC R32** (difluoromethane). It is contained within the sealed system and does not pose a risk during normal operation or specified installation or maintenance procedures.
- Compared to other commonly used refrigerants, R32 has a lower global warming potential and a zero ozone depleting potential. R32 has good thermodynamic features which lead to a really high energy efficiency. The units therefore require less refrigerant than previously used with other refrigerants.

- If the refrigerant circuit should become damaged and a leak is observed, avoid open flames and sources of ignition.
- Disconnect the power to the appliance from the mains power. As this appliance uses a plug to supply power do not switch off from the appliance controls or the power point.
- Thoroughly ventilate the room in which the appliance is situated for several minutes before using other appliances or sources of ignition.
- Contact TECO customer service for advice.

- **The following checks shall be applied to installations using flammable refrigerants:**

  – the charge size is in accordance with the room size within which the refrigerant containing parts are installed;

  – the ventilation machinery and outlets are operating adequately and are not obstructed;

  – if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;

  – marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;

  – refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing compo-nents, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

- **Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.**

- **Initial safety checks shall include:**

  – that capacitors are discharged: this shall be done in a safe manner to avoid possi-bility of sparking;

  – that no live electrical components and wiring are exposed while charging, recover-ing or purging the system;

  – that there is continuity of earth bonding.

- **Checks to the area**
  Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, DD.4.3 to DD.4.7 shall be completed prior to conducting work on the system.

- **Work procedure**
  Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or capour being present while the work is being performed.

- **General work area**
  All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoides.

- **Checking for presence of refrigerant**
  The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsi-cally safe.

- **Presence of fire extinguisher**
  If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

- **Ventilated area**
  Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is
- carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

- **Checks to the refrigeration equipment**
  Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

- **Checks to electrical devices**
  - that capacitors are discharged: this shall be done in a safe manner to avoid possi-bility of sparking;
  - that no live electrical components and wiring are exposed while charging, recover-ing or purging the system.

- **No ignition sources**
  No person carrying out work in relation to a refrigerating system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

- **Repairs to sealed components**
  During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servic-ing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation. Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glandes, etc.
  - Ensure that the apparatus is mounted securely.
  - Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer’s specifications.

  NOTE: The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- **Repair to intrinsically safe components**
  Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
  Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.
  Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

- **Cabling**
  Check that cabling will not be subject to wear, corrosion, excessive pressure, vibra-tion, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

- **Leak detection methods**
  Leak detection fluids are suitable for use with most refrigerants but the use of deter-gents containing chlorine shall be avoided as the chlorine may react with the refrig-erant and corrode the copper pipe-work.

- **Detection of flammable refrigerants**
  Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.
  The following leak detection methods are deemed acceptable for all refrigerant systems.
  Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibretion. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the **LFL** of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25% maximum) is confirmed.
  Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
  NOTE: Examples of leak detection fluids are
  - bubble method,
  - fluorescent method agents.

  If a leak is suspected, all naked flames shall be removed/extinguished.
  If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to clause DD.9.

- **Removel and evacuation**
  When breaking into the refrigerant circuit to make repairs - or for any other purpose - conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed sinse flammability is a consideration. The following procedure shall be adhered to:

  - remove refrigerant;
  - purge the circuit with inert gas (optional for A2L);
  - evacuate (optional for A2L);
  - purge with inert gas (optional for A2L);
  - open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants other than A2L refrigerants, the system shall be perged process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.
For appliances containing flammable refrigerants, other than A2L refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmo-spheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.
Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and that ventilation is available.

- **Charging procedures**

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigerating system.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

- **Decommissioning**

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to reuse of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.
b) Isolate system electrically.
c) Before attempting the procedure, ensure that:

– mechanical handling equipment is available, if required, for handling refrigerant cylinders;
– all personal protective equipment is available and being used correctly;
– the recovery process is supervised at all times by a competent person;
– recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.
e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
f) Make sure that cylinder is situated on the scales before recovery takes place.
g) Start the recovery machine and operate in accordance with manufacturer's instructions.
h) Do not overfill cylinders. (No more than 80% volume liquid charge).
i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

- **Labeling**

  Equipment shall be labeled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flam-mable refrigerants, ensure that there are labels on the equipment stating the equip-ment contains flammable refrigerant.

- **Recovery**

  When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
  When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designat-ed for the recovered refrigerant and labeled for that refrigerant (i.e. special cylin-ders for the recovery of refrigerant). Cylinders shall be complete with pressure-re- lief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
  The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufac-turer if in doubt.
  The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrig-erants in recovery units and especially not in cylinders.
  If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Safety Precautions

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
Children should be supervised to ensure that they do not play with the appliance.

WARNING

- **Do not start or stop the appliance by unplugging and plugging the power cord.**
  This may result in fire and/or electric shock
- **Do not use any extension cords, power boards or adapters to connect this appliance.**
  Do not connect via an extension lead. Extension leads do not guarantee the required safety of the appliance (e.g. danger of overheating, this can result in fire and/or electric shock).
- **Do not damage or modify the power cord or plug. Do not tamper with, tie or twist the power cord. Do not place heavy items on the power cord or subject the power cord to heat.**
  This can result in fire and/or electric shock.
- **If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or TECO service center.**
- **Do not put your fingers or any objects, into the air outlet and inlet. Please do not touch the swing louvres.**
  The internal fan rotates at a high speed, and thus such an action may result in an injury or malfunction
- **Do not attempt to repair, take apart, or modify the appliance.**
  It may result in fire and/or electric shock. Refer servicing to your dealer or TECO Service Centre.
- **Do not put the appliance near heat generating devices (such as stoves, fan heaters, etc.).**
  The plastic parts may melt causing fire.
- **Wipe dust off the power plug and insert the plug firmly into the power outlet socket.**
  If the plug is not fully inserted in the power outlet socket, dust may gather on the connectors which in turn may cause fire and/or electric shock.
- **Should a malfunc on occur (a smell of burning, etc.), switch off the appliance and unplug it from the power outlet socket.**
  Continuing to operate a malfunctioning appliance may result in fire, electric shock, and further malfunction.
  Contact your dealer or TECO Service Centre for consultation.
- **Do not cover the air inlet and the air outlet with clothes, curtains, etc.**
  This results in poor ventilation and may cause heat generation and fire.
- **Do not put flower vases or any other objects filled with water on the unit.**

Water may leak into the appliance adversely affecting the electric insulation and cause electric shock and/or fire by short-circuiting.

- **Do not use the appliance for special purposes, such as preservation of food, art works etc.**

  This may negatively affect the quality of the items stored.

- **If there is a possibility that the temperature around the drainage hose (field supplied) could drop to freezing point.**

  Water inside the hose may freeze and prevent the water from flowing out. The water may leak from the appliance and damage surrounding objects.

- **Do not block the drainage outlet or continuous drainage hose (field supplied).**

- **If using the appliance or fixed drainage for a long time ensure the internal and external drain is clear.**

  When using the appliance after a long period of time or when draining water continuously for a long time with no assistance, check the unit periodically for foreign objects, etc. that could clog the hose resulting in heat generation and/or a water leakage.

- **Do not use the appliance in places that may be subject to oil or flammable gas leakage.**

  Such a leakage around the appliance may cause combustion and fire.

- **Do not wash the appliance with water.**

  It may cause an electric shock.

- **Do not use the appliance where it is likely to come in contact with water.**

  Exposure to water may result in fire or electric shock caused by a leak of electricity.

- **All electrical work should be carried out by a suitably qualified and competent person, in strict accordance with current national and local safety regulations.**

  For extra safety it is advisable to install a suitable residual current device (RCD). Contact a qualified electrician for advice.

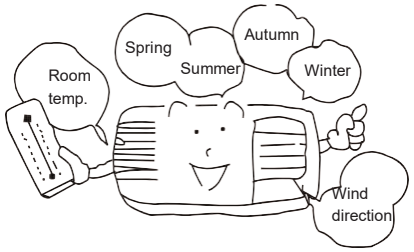
- **Ensure power is not supplied to the appliance until after installation work has been carried out.**

- **The appliance is supplied with a mains cable with moulded plug ready for connection to a single phase power supply within a voltage range of 220~240V/50Hz.**

- **Please ensure the electrical connection data plate information match the household mains supply.**

- **Connection should be made via a suitable switched socket which is easily accessible after installation.**

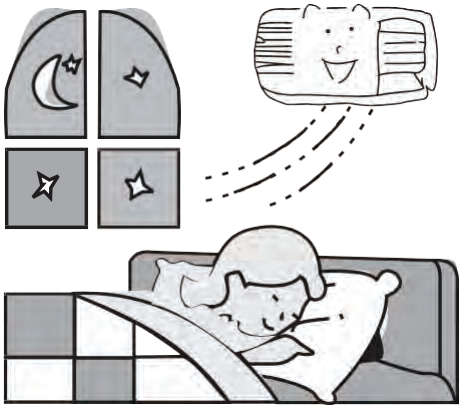
Introduction



TECO's window - wall room air conditioners are engineered to maintain a comfortable temperature.
Each unit comes packed with a host of features that make it easy for you to operate, set and forget.
Simple and clever controls let you reach optimum comfort with ease.

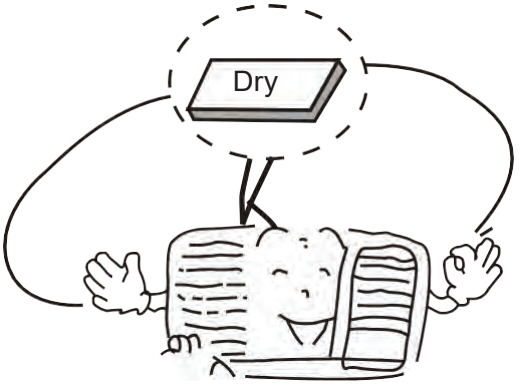
Cool in Summer

During hot summer days, the air conditioner can cool down the room by circulating the air within the room and cooling it.



Dry During Wet or Humid Conditions *(dehumidifying)*

In wet or humid conditions, the air conditioner can dehumidify the air by drawing moisture from the air and leaving the room dry and fresh without effecting the temperature.



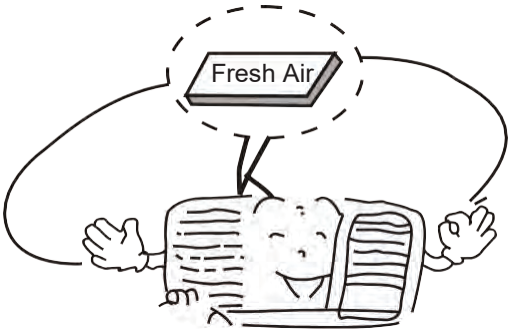
Warm in Winter *(heat pump units only)*

During cold winter months, the air conditioner can keep the room warm by circulating the cold air within the room and heating it.

During some lower outside temperature conditions it may be necessary to use supplementary sources of heating depending on application.

Exhaust Air Vent

Opening the exhaust air vent door to exhaust air from the room, allowing fresh air to enter.



Operating Conditions

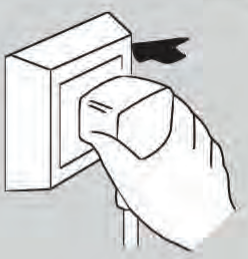
Please operate the air conditioner in the correct conditions as follows:

COOL & HEAT mode operation	DRY mode operation
Outdoor air on temperature should be between 18°C ~ 43°C for cooling and 1°C ~ 24°C for heating. Operation outside these temperature ranges may effect the performance of the air conditioner. Room humidity should be lower than 90%. Otherwise, it is possible for the air conditioner to form moisture or dew on the front panel of the air conditioner. This indicates normal operation.	Outdoor air on temperature should be in the range of 18°C ~ 43°C. Operation outside these air on temperature ranges may effect the performance of the air conditioner.

Power Requirements

CAUTION

Rated voltage and voltage range: 220~240V.
The electric components could be damaged when the voltage is too high.
If the voltage is too low, the compressor could vibrate violently to damage the refrigerant system and easily cause the compressor and electric components not operate correctly.

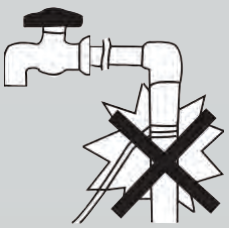


WARNING

All earth leads must be connected.
An approved power outlet must be used. Furthermore, the power outlet must conform to the wiring regulations.
All electrical wiring and connections must comply to the current electrical Australian Standards and Wiring rules.

Earth Wire To ensure the reliable earthing, please do not connect earth wire to water pipes.

WARNING



Installation

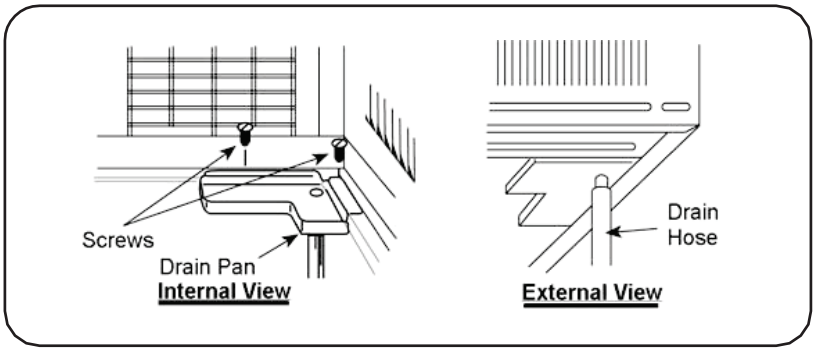
Teco Australia Pty Ltd will not warrant the equipment supplied, if the installation does not comply with the Building Code of Australia or any Local Government standard or code. The customer/contractor is solely responsible for ensuring that the equipment installed complies with all relevant building codes or standards.

CAUTION

IMPORTANT NOTICE

Due to various wall and window types and constructions, Teco Australia Pty Ltd recommends the window/wall type room air conditioner must be installed with compliance to the Building Code of Australia, Local Government or body corporate requirements. Please consult your local builder or air conditioning contractor.
All hardware required to install the air conditioner is field supplied.

Drainage



Drain Plug

(For illustration purposes only)

Drain Holes

To get the maximum cooling efficiency, the air conditioner is designed to splash condensate water on to the condenser coil during operation. Draining water away from the base may cause a slight loss in performance.

The cooling and heating model has two drain holes:

1. Thermostatically controlled drain mechanism. The drain will open <14 C (approx.) to allow water to drain from the base and will close >15 C (approx.).
2. Drain hole with rubber plug fitted

The Cooling model has only one drain hole with rubber plug fitted.

Please remove the rubber plug fitted to the drain hole if the noise of splashing water bothers you or if the water droplets splashed through the condenser coil drops to the ground below causes a trip hazard or during Winter to release defrosted water quickly from the base.

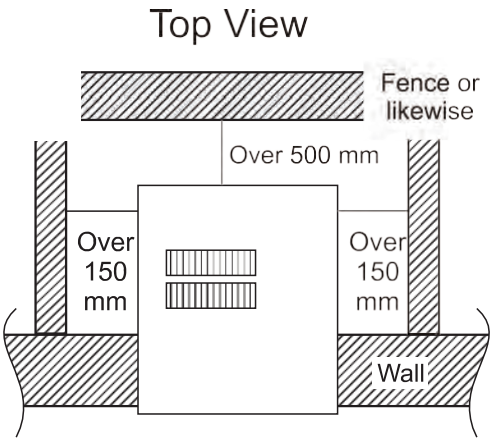
To install a drain line please follow the steps below:

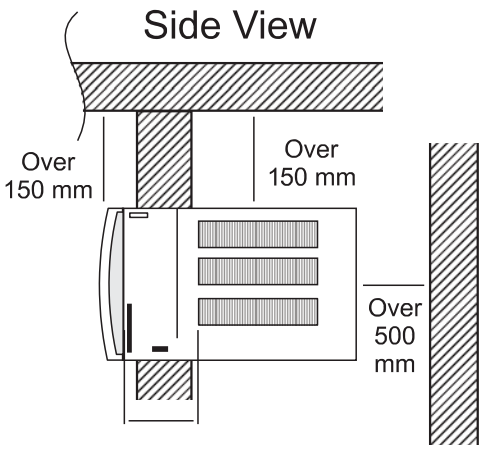
1. Slide out the chassis from the cabinet.
2. Remove the rubber plug from the body base plate.
3. Install the drain pan to the corner of the cabinet with 2 screws.
4. Slide the chassis into its original place in the cabinet.
5. Connect the drain hose (field supplied) to the outlet on the drain pan bottom.

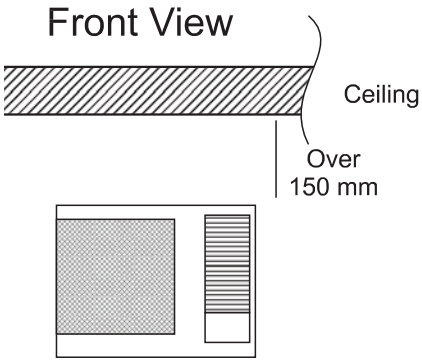
WARNING: Do not push any object into the condensate drain hole as it may damage the condensation water thermostat mounted above.

External Clearances

A clear area is necessary around the exterior of the cabinet to allow adequate fresh air flow through the unit. The minimum clearances required are shown below.

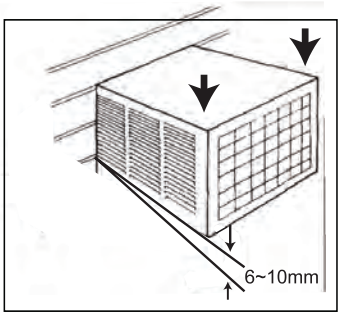






Tilt

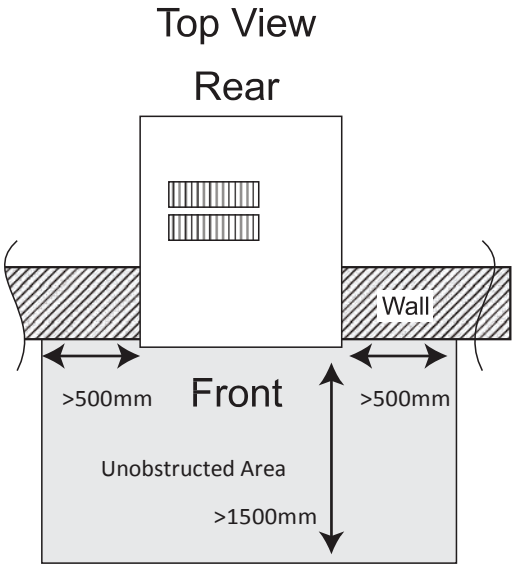
When installing the unit, to clear condensate from the unit, the back edge of the cabinet should be approximately 6mm lower than the front edge.

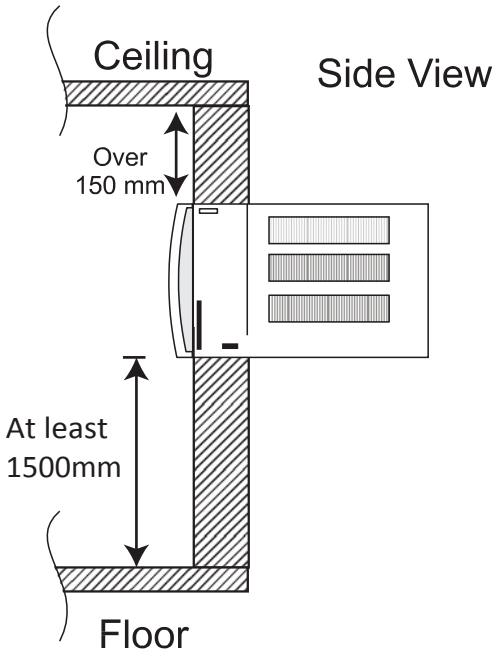


For safety and earthing purposes, all screws and washers, if removed during installation, maintenance, repairs, etc. must be refitted.

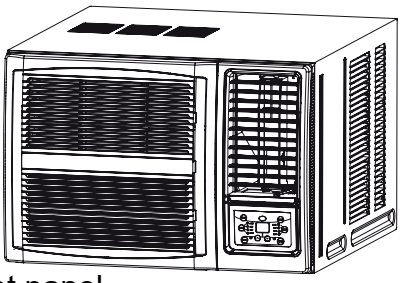
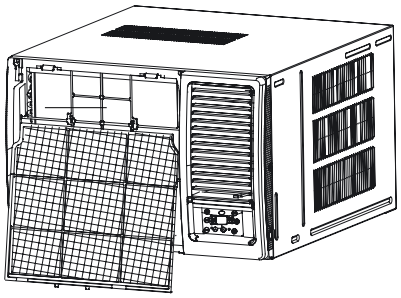
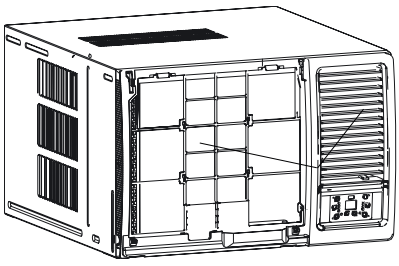
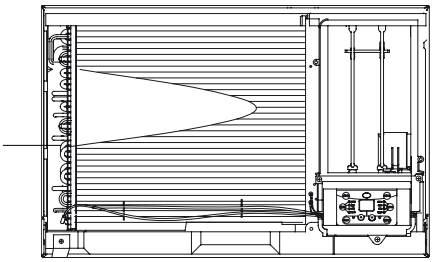
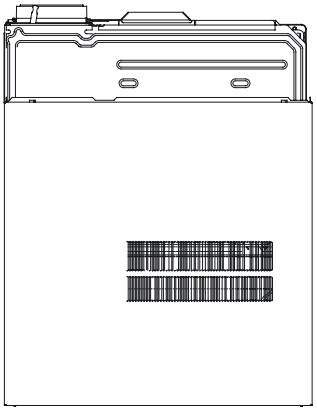
Internal Clearances

A clear area is necessary around the interior of the cabinet to allow adequate air flow through the unit. The minimum clearances required are shown below.



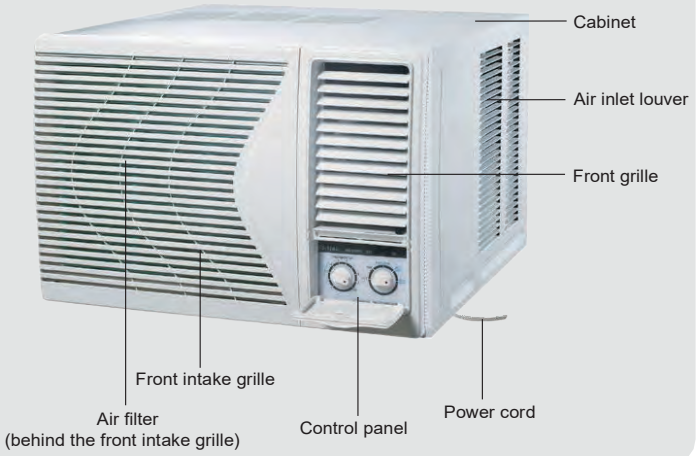


Removal Procedure

Steps	Procedure
1.Remove panel assembly	 Air-inlet panel
a. Remove the air-inlet grille	
b. Remove the filter	 Filter
c. Remove screws from either side and middle of front panel	 screw
d. Push into sides and top of metal casing to releas clips and remove front panel	
2. Remove Cabinet	
e. Remove scre and clasp fitted to chassis	 Clap fitted to chassis
f. Slide out air conditioner from casing	

Part Identification

For TWW16CFDG Only



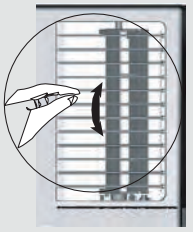
All images are for Illustration purposes only.

Air direction adjustment

Vertical airflow direction vane

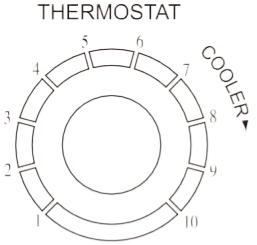
(Airflow direction adjustment up and down).

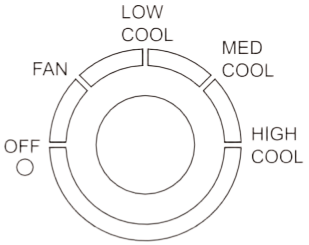
The vertical airflow direction vane is controlled by positioning the vane to discharge the air upwards, downwards or straight out.



Control Panel

For TWW16CFDG Only





1. **Main Control Knob**
   Set to select Low Cool, Med Cool, High Cool or Fan Only as desired.
   CAUTION: WAIT at least 3 minutes before resetting to cooling operation, if it has been turned off or set to Fan.
2. **Thermostat Knob**
   Set thermostat knob to select your desired room temperature (usually 6~7 is recommended). Adjust setting after a short period if your desired temperature cannot be obtained. The evaporator fins may be frozen up, if you set knob to 10. Turn it back counter-clockwise to resume normal operation.

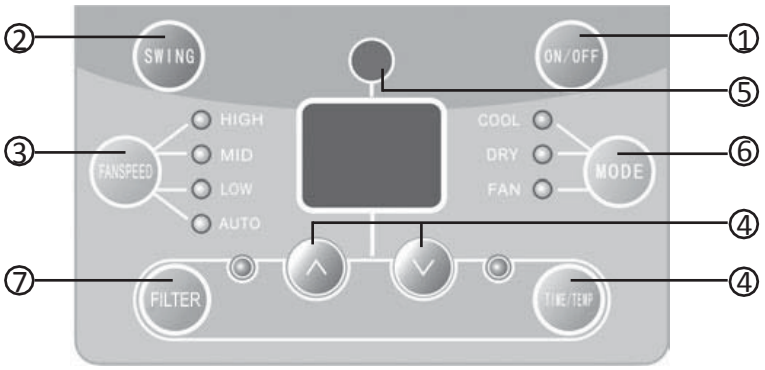
AIR SWING

OFF  **ON**

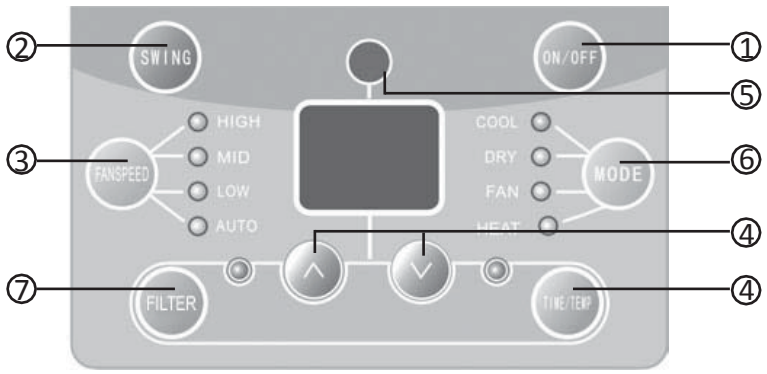
3. Air Swing Switch
(Airflow direction adjustment Side-to-Side)
To obtain a fix airflow direction, set the air swing switch to “ON” for the vanes to swing from side to side until the desired flow direction is reached, then switch it to “OFF”. For continuous side-to-side air circulation, set the air swing switch to “ON”.

Control Panel

Cooling Only Models



Cooling & Heating Models



① POWER BUTTON
Operation starts or stops when this button is pressed

② SWING BUTTON
Activate the automatic air swing function

③ FAN SPEED BUTTON
Select the fan speed HIGH, MID, LOW and AUTO in sequence.

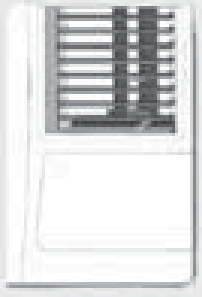
④ TIME/TEMP BUTTON
Press the ⌃keypad to increase the set (operating) temperature of the unit and press the ⌄keypad to decrease the set (operating) temperature of the unit. The temperature setting range is from 16°C~30°C
Press the ⌃keypad also to increase the selected time in 1 hour increments and pressing the ⌄keypad to decrease the selected time in 1 hour decrements.

⑤ **SIGNAL RECEIVER**

⑥ MODE BUTTON
Select the operation mode, AUTO, HEAT, COOL, FAN, DRY (for reverse cycle model) or AUTO, COOL, FAN, DRY (for cooling only model).

⑦ FILTER BUTTON
This feature is a reminder to clean the Air Filter (see Care & Cleaning). The LED light will illuminate after 250 hours operation. To reset after cleaning the filter, press the Filter button and the light will go off.
If the filter requires cleaning prior to the 250 hours of operation, remove, clean and replace the filter. To reset the timer, press the Filter button for at least 3 seconds and the accumulated time of operation will be cancelled.

Ventilation Lever



Open Position:
The ventilation door opens to allow air and odors to be expelled from the room.

Closed Position:
The ventilation door is closed and the air will be circulated inside the room and conditioned.

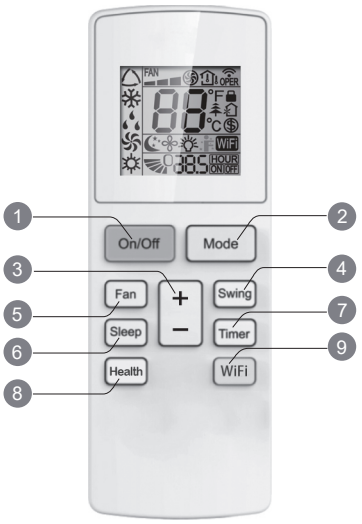
Remote Control

Name & Function of Wireless Remote Control

(Not applicable to TWW16CFDG)

NOTE:

- Ensure there are no obstructions between receiver (air conditioner front panel) and remote controller.
- Do not drop or throw the remote control.
- Do not let any liquid in the remote control.
- Do not place the remote control in direct sunlight or any location with excessive heat.



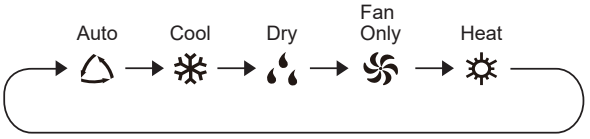
1. On/Off button
2. Mode button
3. + / - button
4. Swing button
5. Fan button
6. Sleep button
7. Timer button
8. Health button
9. WiFi button

1 On/Off button

Press this button to turn on the unit. Press this button again to turn off the unit.

2 Mode button

Press this button can your required operation mode in turn. Corresponding indicator will be on.



- **Auto:** Under this mode, the unit will operate automatically according to ex-factory setting. In this case, set temperature cannot be adjusted.
- **Cool:** Under this mode, air conditioner operates under cooling mode. Cooling indicator will be on. Press “Fan Speed” button can adjust the fan speed.
- **Dry:** Under this mode, the unit runs in low fan speed for dehumidification and the corresponding indicator is on; under dry mode, the fan speed cannot be adjusted.
- **Fan Only:** Under this mode, air conditioner will not cool or heat, only blow wind. Fan indicator will be on. Press “Fan Speed” button can adjust the fan speed.
- **Heat:** Under this mode, air conditioner operates under heating mode. Press “Fan Speed” button can adjust the fan speed (Cooling only unit won’t receive heating mode signal. If set to heating mode with remote controller and ON/OFF button is pressed, the Unit will not start up)

NOTE: When in HEAT mode, the operation may stop from time to time to perform defrost function. During defrost H1 will be displayed. See page 16.

3 + / - button

- Pressing “+” or “-” button once will increase or decrease set temperature by 1°C (°F). Hold “+” or “-” button for 2s, set temperature on remote controller will change. Release the button after your required set temperature is reached.
- Under timer setting status, after each pressing of “+” or “-” button, time will increase or decrease 0.5h . Hold “ + ” or “-” button, 2s later, time displayed on dual-8 nixie tube will change quickly. Loosen the button until the time is reached to your set time.

4 Swing button

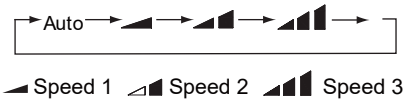
Press this button to turn “ON” & “OFF” swing.

Name & Function of Wireless Remote Control

(Not applicable to TWW16CFDG)

5 Fan button

This button is used for setting Fan Speed in the sequence that goes from AUTO, , , to then back to Auto.



NOTE: There are 3 speeds for the Fan Speed of this model.

6 Sleep button

Press this button to go into the Sleep operation mode. Press it again to cancel this function. This function is available in COOL, HEAT (Only for models with heating function) mode to maintain the most comfortable temperature for you.

7 Timer button

Under ON status, press this button to set timer OFF; Under OFF status, press this button to set timer ON. Press this button once and the characters of HOUR ON (OFF) will flash to be displayed. Meanwhile, press “+” button or “-” button to adjust timer setting (time will change quickly if holding “+” or “-” button). Time setting range is 0.5~24 hours. Press this button again to confirm timer setting and the characters of HOUR ON (OFF) will start flashing.
If the characters are flashing but you haven’t pressed the timer button, timer setting status will quit after 5s. If the timer is confirmed, press this button again to cancel the timer.

8 Health button

Press this button to turn on or turn off the health and scavenging functions in operation status. Press this button for the first time to start scavenging function; LCD displays " ". Press the button for the second time to start health and scavenging functions simultaneously; LCD displays " " and " ". Press this button for the third time to quit health and scavenging functions simultaneously. Press the button for the fourth time to start health function; LCD display " ". Press this button again to repeat the operation above.

● This function is applicable to partial of models.

9 WiFi button

When WiFi function is turned on, " WiFi " icon will be displayed on the remote controller; when WiFi function is turned off by pressing the WiFi button, the icon will no longer be displayed.
How to turn on WiFi: Press " WiFi " button to turn on WiFi function.
How to turn off WiFi: Hold " WiFi " button for 5s to turn off WiFi function.
Under off status, press "MODE" and " WiFi " buttons simultaneously for 1s, WiFi module will restore factory settings.

● This function is not available for TWW16CFDG.

Function introduction for combination buttons

Temperature display switchover function

Under OFF status, press "-" and "Mode" buttons simultaneously to switch temperature display between °C and °F.

Light function

Under switch-on or switch-off state, you may hold "+"and "FAN" buttons simultaneously to set the lamp on or off and send the code. After being energized the lamp is defaulted on.

Name & Function of Wireless Remote Control

(Not applicable to TWW16CFDG)

Note:

- Range of time setting is: 0.5~24h
- The interval between two motions can't exceed 5s, otherwise the remote controller will exit setting status.

Combined Button Functions

Child Lock Function

Press “+” and “-” buttons simultaneously to turn on or turn off child lock function. When child lock function is active, the LOCK indicator will be displayed on the remote. No signal will be sent from the remote while it is in Child Lock.

Switching between centigrade and

While the air conditioner is off, press both “MODE” and “-” buttons simultaneously to switch between °C and °F.

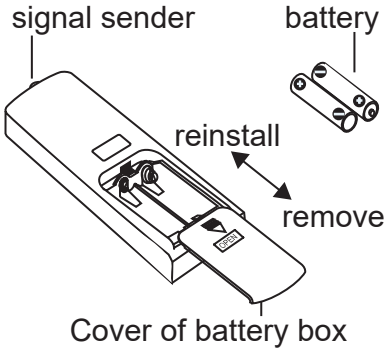
Getting Started

1. Connect the power to the air conditioner. Press the ON/OFF button on the remote controller to turn on the unit.
2. Press the MODE button to select between AUTO, COOL, DRY, FAN or HEAT.
3. Press + or - buttons to set the required temperature.
   The temperature cannot be set under AUTO mode.
4. Press FAN button to set from the following fan speeds
   Auto, Low, Medium and High.

Remote Control

Changing the remote controller batteries

1. Press the remote controller back cover downward while sliding the cover in the direction of the arrow.
2. Remove the exiting batteries.
3. Insert two new AAA 1.5V batteries. Ensure the batteries are inserted in the correct direction as in the image to the right.
4. Replace the back cover once the batteries are securely in place.



Notes

CAUTION

- When changing the batteries, do not mix new and old batteries. Do not mix brands or battery types.
- If the remote control is not used for long periods, remove the batteries to reduce the chance of leakage and damage to the remote.

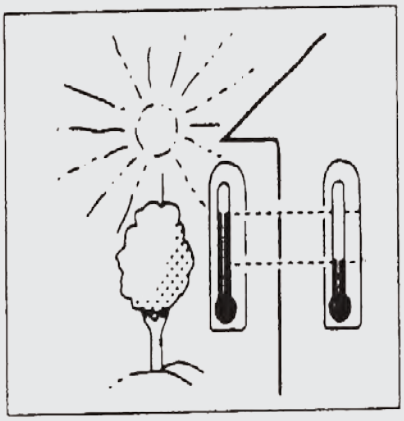
- The remote has a limited range. This range reduces over time as the batteries lose charge.
- When using the remote, keep away (>1M) from other wireless appliances.
- When the remote does not operate, remove the batteries, wait 30sec. and replace them. If problems persist, replace with new batteries.

General Operation

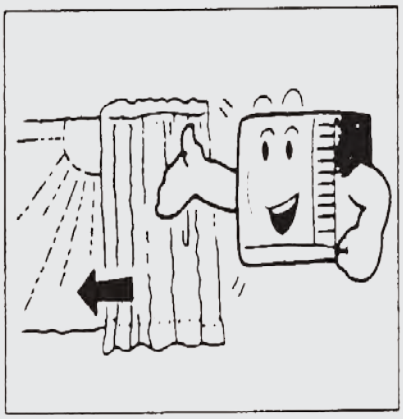
Operation in heating mode

- The amount of heating provided in HEAT mode will vary depending on environmental conditions existing at the time of operation.
- Performance is dependent on the amount of heat available in the outside air and the output heat capacity of the machine compared to the size of the space being heated.
- Heat absorbed by the outside heat exchanger (coil) will be reduced by frost buildup dependent on the amount of moisture in the outside air entering the machine.
- From time to time the microcomputer will stop the heating operation to defrost the outside heat exchanger, during this process some noises may be apparent when the operation is reversed.
- During defrost, **H1** will be displayed, heating function will resume in short time. This function is normal and not a fault. Please do not turn off Unit.

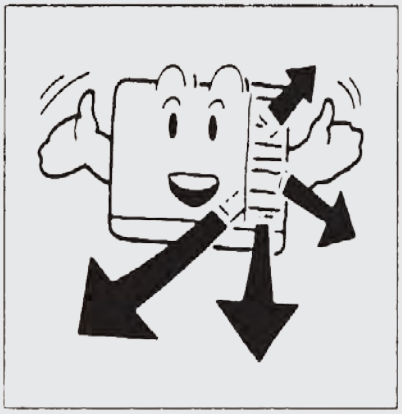
Do not set the cooling temperature too low. It could damage your health and waste electricity.



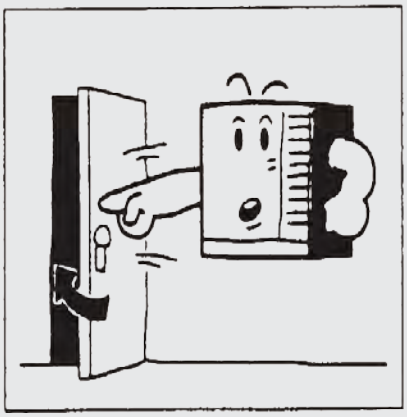
Keep blinds and curtains closed. Do not let sunshine directly in the room while the air conditioner is operating.



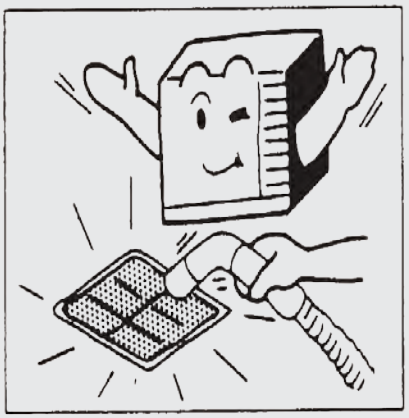
To keep the room temperature uniform, adjust the vertical and horizontal airflow direction to ensure uniform temperature in the room.



Make sure that the doors and windows are tightly closed. Avoid opening doors and windows as much as possible to keep the conditioned air in the room.



Clean the air filter regularly. Blockages in the air filter reduce dehumidifying effects. Clean the air filter at least once every two weeks.



Ventilate the room occasionally.
Since windows and doors are kept closed, it is a good idea to open them and ventilate the room every few hours.

Caution: Operation for Safety & Health

CAUTION

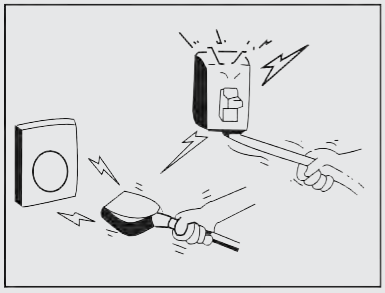
1) The plug must be accessible after the appliance is installed.
2) Do not use this appliance in a laundry or location with high moisture or humidity.
3) If the power cord is damaged, it must be replaced by the manufacturer or qualified service agent. Never attempt to repair the power cord. Do not operate the unit if the power chord is damaged.

WARNING

- Do not pull the power cord out by the cord.
- Damage to the cord may occur. This can cause electric shock.

- Do not use the air conditioner for other purposes except for cooling or heating the room.
- Do not use the appliance for other purposes such as drying clothes or preserving food, etc.

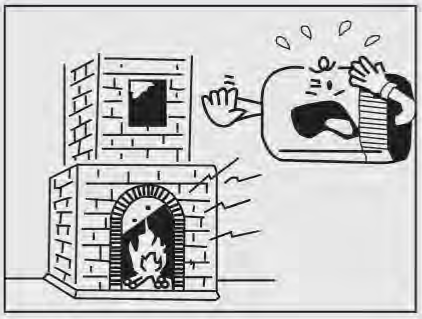
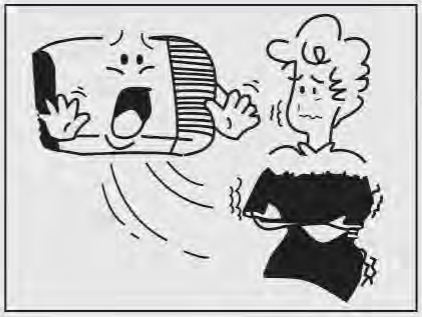
- Do not block the air intake and outlet vents. This reduces appliance performance and causes irregular operation.
- Do not insert any objects into these vents as it is dangerous to touch the electric components and fans.



Adjust the temperature to suit the conditions. Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.

Do not use heating equipment in the vicinity of the air conditioner. The plastic parts could distort if exposed to excessive heat.

Avoid exposing the body directly to a continuous unidirectional air flow for long periods. This is not recommended for health reasons.

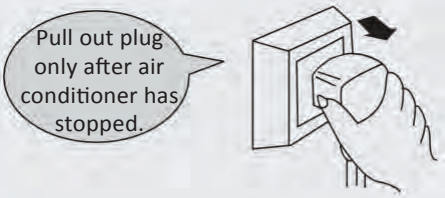




Always wait at least 3 minutes before switching the air conditioner on again after you have switched it off during cooling or heating.

Care & Maintenance

To ensure safety, always turn off the air conditioner and main power supply before performing maintenance on the appliance.

1. Power off before cleaning.



2. Use a soft cloth when cleaning the cabinet. If the cabinet is very dirty, dip cloth into warm water (below 40°C).

3. Don't use gas, benzene, solvent, cleanser, chemical solvent, etc. for cleaning.

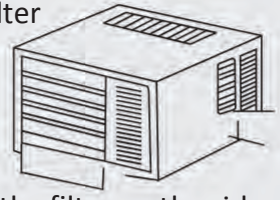
4. Do not splash water directly into indoor unit, there are micro-computers and circuit boards which must not get wet.

Air filter

The air filter behind the intake grille should be washed at least once every two weeks or as often as it needs cleaning.

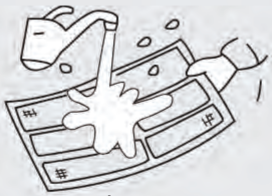
How to clean the air filter:

1. To remove the air intake grille, grasp the tab on the filter and pull to take out.



2. Vacuum the filter on the side containing the dust.

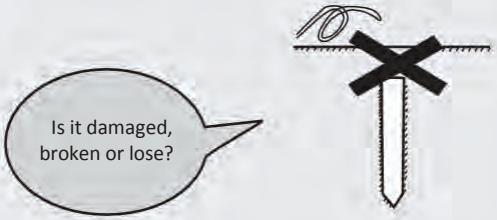
3. Wash the filter, cleaner side up under gentle flowing water to wash out accumulated dust and lint.



4. If the filter is very dirty, use a mild household detergent in the water used to wash the filter.

Let the filter dry thoroughly before reinstalling it into the air conditioner. If necessary, please ask your local service center personnel to assist.

* Check the earth wire.



* Check if air inlet and outlet of outdoor unit are clear.

Troubleshooting

Please check the following items before asking for repair or contacting service, it may saves you time and money. If problems persist, consult your warranty information for contact details.

Fault	Solution
Air conditioner does not operate at all. 	▪ Power failure ▪ Power plug disconnected ▪ Check fuse and main switch ▪ Inconsistent voltage
Air conditioner efficiency is poor. 	▪ Check air inlet and outlet are not blocked ▪ Other cooling/heating sources in the room ▪ Check air filter is clean ▪ Indoor fan is set to LOW ▪ Room temperature is too high or too cool as the air conditioner starts.
Odors or foggy air is released from the air conditioner. 	▪ When in cooling mode, high room humidity that is rapidly cooled, can appear foggy. ▪ Odors and smoke near the air intake can be transferred into and through the air conditioner.
Air conditioner operates with excess noise. 	▪ The sound of flowing water is the refrigerant flowing through inside the air conditioner. This is a normal function of the appliance. ▪ The sound of falling water is caused by the dehumidifying unit processing the collected water. This is a normal function.
It seems that condensation is leaking from air conditioner.	Condensation occurs when the air flow from the air conditioner cools the warm room air.
Air conditioner dose not operate for about 3 minutes when restarting.	▪ This is to protect the mechanism. ▪ Wait about three minutes and operation will begin.

CAUTION : ***If any of the following occur, immediately power off the air conditioner and unplug from the wall. Contact your local service center.***

CAUTION

- Operation starts or stops abnormally.
- Power fuse or switch often trips.
- Fluids are splashed directly into the air conditioner.
- Electrical cord is hot or cord insulation is damaged
- Other unusual noises emitted from the air conditioner.

WARNING

It is hazardous for anyone installing, removing, altering, repairing, servicing or testing of this appliance.

Only an Authorised Service Person can carry out servicing or repairs to this appliance.

IF SERVICE IS REQUIRED:
If you have a problem, and the problem persists after you have made the checks mentioned in this manual, contact:
TECO Australia's Service on 1300 660 037 (8:30am - 4pm Mon~Fri AEST) For warranty details please visit www.teco.com.au
Service Email : had.service@teco.com.au
Spare Parts : had.parts@teco.com.au

Did you know?
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- ♦ Top Load Clothes Washers
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- ♦ Twin Tub Clothes Washers
- ♦ Auto Sensing Vented Clothes Dryers
- ♦ Refrigerators
- ♦ Chest and Vertical Freezers
- ♦ Bar Fridges
- ♦ Televisions
- ♦ Air Curtains and Air Conditioners

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WARRANTY INFORMATION

Teco's warranty information for the product purchased is available at www.teco.com.au.
A copy of the warranty may also be obtained by contacting Teco's Warranty and Service Department on 1300 660 037 during business hours (Mon - Fri 8.30am – 4pm AEST).

To arrange for servicing of a Teco product, please contact our Warranty and Service Department on 1300 660 037 during business hours (Mon - Fri 8.30am – 4pm AEST).

To assist in processing any warranty claim that you may have Teco recommends that you:

1. Complete the following information in relation to your purchase:

   Name of retailer: _____

   Name of owner: _____

   Date of purchase: _____

   Model No. : _____

   Serial No. : _____

   MFG code: _____

2. Retain proof of your purchase for any warranty claim. Ideally this proof of purchase will be the tax invoice issued for your purchase.

3. Complete the following information in relation to the person that installed your Teco appliance (if applicable):

   Installer's name: _____

   Telephone No.: _____

   Licence No.: _____

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