TTW

HOMEOWNER'S GUIDE

WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT 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 EQUIPMENT.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SUPERVISION, SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER SUPERVISION, INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER SUPERVISION OR TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING

DO NOT BYPASS SAFETY DEVICES

Through The Wall Type Room Air Conditioner

PBC092J00AA
PBC093J00AA
PBC122J00AA
PBC123J00AA
PBE093J35AA
PBE123J35AA
PBH073J35AA
PBH092J12AA
PBH093J35AA
PBH113J35AA

This unit does not guarantee the room will not be susceptible to freezing

WARNING

THE UNIT MUST HAVE AN UNINTERRUPTED, UNBROKEN ELECTRICAL GROUND TO MINIMIZE THE POSSIBILITY OF PERSONAL INJURY IF AN ELECTRICAL FAULT SHOULD OCCUR. INSTALLATION TO BE PERFORMED IN ACCORDANCE WITH THE "NATIONAL ELECTRIC CODE" (NEC)"AMERICAN NATIONAL STANDARS INSTITUTE" (ANSI)/"NATIONAL FIRE PROTECTION ASSOCIATION" (NEFPA) 70 AND LOCAL/STATE CODES. IN CANADA, INSTALLATION TO BE PERFORMED IN ACCORDANCE WITH THE CANADIAN ELECTRIC CODE CSA C22.1. FAILURE TO OBSERVE THIS WARNING CAN RESULT IN ELECTRICAL SHOCK THAT CAN CAUSE PERSONAL INJURY OR DEATH.

Our continuing commitment to quality products may mean a change in specifications without notice.

19001 Kermier Rd., Waller, TX 77484
www.daikincomfort.com • www.amana-hac.com

HI-950
08/2024

READ THIS MANUAL

Inside you'll find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many ansers to common problems in the troubleshooting tips - you should be able to fix most of them quickly before calling service. These instructions may not cover every possible condition of use, so common sense and attention to safety is required when installing, operating and maintaining this product.

CAUTION

- **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.**
- **CONTACT THE AUTHORIZED SERVICE TECHNICIAN FOR REPAIR OR MAINTENANCE OF THIS UNIT.**
- **CONTACT THE INSTALLER FOR INSTALLATION OF THIS UNIT.**
- **THE AIR CONDITIONER IS NOT INTENDED FOR USE BY YOUNG CHILDREN OR PEOPLE WHO CANNOT OPERATE THE AIR CONDITIONING INDEPENDENTLY WITOUT SUPERVISION.**
- **YOUNG CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE AIR CONDITIONER.**
- **IF THE POWER CORD NEEDS TO BE REPLACED, PLEASE CONTACT OUR CONSUMER SERVICE AND LOOK FOR AN AUTHORISZED TECHNICIAN.**
- **ELECTRICAL INSTALLATION MUST BE PERFORMED IN ACCORDANCE TO NATIONAL REGULATION STANDARDS BY QUALIFIED PERSONNEL ONLY.**
- **THE APPLIANCE SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL WIRING REGULATIONS.**
- **DO NOT OPERATE YOUR AIR CONDITIONER IN A WET ROOM SUCH AS A BATHROOM OR LAUNDRY ROOM.**
- **APPLIANCES WITH ELECTRIC HEATERS SHOULD BE POSITIONED AT LEAST 3 FEET (1 M) AWAY FROM COMBUSTIBLE MATERIALS.**

SAFETY PRECAUTIONS

To prevent injury to the user or other people and property damage, the instructions shown here must be followed. Incorrect operation due to ignoring instructions may cause harm or damage. the level of risk is shown by the following indicators.

	**WARNING**	This symbol shows that this appliance used a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.
	**CAUTION**	This symbol shows that the operation manual should be read carefully.
	**CAUTION**	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	**CAUTION**	This symbol shows that information is available such as the operating manual or installation manual.

WARNING

SERVICING SHALL ONLY BE PERFOMRED AS RECOMMDED BY THE EQUIPMENT MANUFACTURER. MAINTENANCE AND REPAIR REQUIRING THE ASSISTANCE OF OTHER SKILLED PERSONNEL SHAL BE CARRIED OUT UNDER THE SUPERVISION OF THE PERSON CONPETENT IN THE USE OF FLAMMABLE REFRIGERANTS.

- **DO NOT MODIFY THE LENGTH OF THE POWER CORD OR USE AN EXTENSION CORD TO POWER THE UNIT.**
- **DO NOT SHARE A SINGLE OUTLET WITH OTHER ELECTRICAL APPLIANCES. IMPROPER POWER SUPPLY CAN CAUSE FIRE OR ELECTRICAL SHOCK.**
- **PLEASE FOLLOW THE INSTRUCTION CAREFULLY TO HANDLE, INSTALL CLEAR , SERVICE THE AIR CONDITIONER TO AVOID ANY DAMAGE OR HAZARD. FLAMMABLE REFRIGERANT R-32 IS USED WITHIN AIR CONDITIONER.**
- **WHEN MAINTAINING OR DISPOSING THE AIR CONDITIONER, THE REFRIGERANT (R-32) SHALL BE RECOVERED PROPERLY, SHALL NOT DISCHARGE TO AIR DIRECTLY.**

WARNING

- **COMPLIANCE WITH NATIONAL GAS REGULATIONS SHALL BE OBSERVED.**
- **KEEP VENTILATION OPENINGS CLEAR OF OBSTRUCTION.**
- **THE APPLIANCE SHALL BE STORED SO AS TO PREVENT MECHANICAL DAMAGE FROM OCCURRING.**
- **A WARNING THAT THE APPLIANCE SHALL BE STORED IN A WELL-VENTILATED AREA WHERE THE ROOM SIZE CORRESPONDS TO THE ROOM AREA AS SPECIFIED FOR OPERATION.**
- **ANY PERSON WHO IS INVOLVED WITH WORKING ON OR BREAKING INTO A REFRIGERANT CERCUIT SHOULD HOLD A CURRENT VALID CERTIFICATE FROM AN INDUSTRY-ACCREDITED ASSESSMENT AUTHORITY, WHICH AUTHORIZES THEIR COMPETENCE TO HANDLE REFRIGERANTS SAFELY IN ACCORDANCE WITH AN INDUSTRY RECOGNIZED ASSESSMENT SPECIFICATION.**

EXAMPLES FOR SUCH WORKING PROCEDURES ARE:

- **BREAKING INTO THE REFRIGERATING CIRCUIT.**
- **OPENING OF SEALED COMPONENTS**
- **OPENING OF VENTILATED ENCLOSURES**
- **NO ANY OPEN FIRE OR DEVICE LIKE SWITCH WHICH MAY GENERATE SPARK/ARCING SHALL BE AROUND AIR CONDITIONER TO AVOID CAUSING IGNITION OF THE FLAMMABLE REFRIGERANT USED. PLEASE FOLLOW THE INSTRUCTION CAREFULLY TO STORE OR MAINTAIN THE AIR CONDITIONER TO PREVENT MECHANICAL DAMAGE FROM OCCURRRING.**
- **DO NOT USE MEANS TO ACCELERATE THE DEFROSTING PROCESS OR TO CLEAN, OTHER THAN THOSE RECOMMENDED BY THE MANUFACTURER.**
- **THE APPLIANCE SHALL BE STORED IN A ROOM WITHOUT CONTINUOUSLY OPERATING IGNITION SOURCES (FOR EXAMPLE: AN OPERATING ELECTRIC HEATER) CLOSE TO THE APPLIANCE. THE APPLIANCE SHALL BE STORED IN A ROOM WITHOUT CONTINOURSLY OPERATING IGNITION SOURCES (FOR EXAMPLE: OPEN FLAMES, AN OPERATING GAS APPLIANCE OR AN OPERATING ELECTRIC HEATER).**
- **DO NOT PIERCE OR BURN.**
- **BE AWARE THAT THE REFRIGERANTS MAY NOT CONTAIN AN ODOR**

SAFETY PRECAUTIONS

WARNING

1. TRANSPORT OF EQUIPMENT CONTAINING FLAMMABLE REFRIGERANTS SEE TRANSPORT REGULATIONS.
2. MARKING OF EQUIPMENT USING SIGNS
SEE LOCAL REGULATIONS.
3. DISPOSAL OF EQUIPMENT USING FLAMMABLE REFRIGERANTS
SEE NATIONAL REGULATIONS.
4. STORAGE OF EQUIPMENT/APPLIANCES
THE STORAGE OF EQUIPMENT SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
5. STORAGE OF PACKED (UNSOLD) EQUIPMENT
STORAGE PACKAGE PROTECTION SHOULD BE CONSTRUCTED SUCH THAT MECHANICAL DAMAGE TO THE EQUIPMENT INSIDE THE PACKAGE WILL NOT CAUSE A LEAK OF THE REFRIGERANT CHARGE. THE MAXIMUM NUMBER OF PIECES OF EQUIPMENT PERMITTED TO BE STORED TOGETHER WILL BE DETERMINED BY LOCAL REGULATIONS.
6. INFORMATION ON SERVICING
1) 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 MINIMIZED. FOR REPAIR TO THE REFRIGERATING SYSTEM, THE FOLLOWING PRECAUTIONS SHALL BE COMPLIED WITH PRIOR TO CONDUCTING WORK ON THE SYSTEM.
2) WORK PROCEDURE
WORK SHALL BE UNDERTAKEN UNDER A CONTROLLED PROCEDURE SO AS TO MINIMIZE THE RISK OF A FLAMMABLE GAS OR VAPOUR BEING PRESENT WHILE THE WORK IS BEING PERFORMED.
3) GENERAL WORK AREA
ALL MAINTENANCE AND OTHERS WORKING IN THE LOCAL AREA SHALL BE INSTRUCTED ON THE NATURE OF WORK BEING CARRIED OUT. WORK IN CONFINED SPACES SHALL BE AVOIDED. THE AREA AROUND THE WORKSPACE SHALL BE SECTIONED O . ENSURE THAT THE CONDITIONS WITHIN THE AREA HAVE BEEN MADE SAFE BY CONTROL OF FLAMMABLE MATERIAL.
4) CHECKING FOR PRESENCE OF REFRIGERANT
THE AREA SHALL BE CHECKED WITH AN APPROPRIATE REFRIGERATING
DETECTOR PRIOR TO AND DURING WORK, TO ENSURE THE TECHNICIAN IS AWARE OF POTENTIALLY FLAMMABLE ATMOSPHERES. ENSURE THAT THE LEAK DETECTION EQUIPMENT BEING USED IS SUITABLE FOR USE WITH FLAMMABLE REFRIGERANTS,I.E. NON-SPARKING, ADEQUATELY SEALED OR INTRINSICALLY SAFE.
5) 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.

WARNING

6) NO IGNITION SOURCES
NO PERSON CARRYING OUT WORK IN RELATION TO A REFRIGERATING SYSTEM WHICH INVOLVES EXPOSING ANY PIPE WORK THAT CONTAINS OR HAS CONTAINED FLAMMABLE REFRIGERANT 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 FLAMMABLE 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.
7) 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.
8) CHECKS TO THE REFRIGERATING 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. THE FOLLOWING CHECKS SHALL BE APPLIED TO INSTALLATIONS USING FLAMMABLE REFRIGERANTS:
THE ACTUAL REFRIGERANT CHARGE 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; REFRIGERATING PIPE OR COMPONENTS ARE INSTALLED IN A POSITION WHERE THEY ARE UNLIKELY TO BE EXPOSED TO ANY SUBSTANCE WHICH MAY CORRODE REFRIGERANT CONTAINING COMPONENTS, UNLESS THE COMPONENTS ARE CONSTRUCTED OF MATERIALS WHICH ARE INHERENTLY RESISTANT TO BEING CORRODED OR ARE SUITABLY PROTECTED AGAINST BEING SO CORRODED.
9) CHECKS TO ELECTRICAL DEVICES
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 POSSIBILITY OF SPARKING; THAT THERE NO LIVE ELECTRICAL COMPONENTS AND WIRING ARE EXPOSED WHILE CHARGING, RECOVERING OR PURGING THE SYSTEM; THAT THERE IS CONTINUITY OF EARTH BONDING.

WARNING

7. REPAIRS TO SEALED COMPONENTS

1) 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 SERVICING, THEN A PERMANENTLY OPERATING FORM OF LEAK DETECTION SHALL BE LOCATED AT THE MOST CRITICAL POINT TO WARN OF A POTENTIALLY HAZARDOUS SITUATION.

2) 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 GLANDS, ETC.
ENSURE THAT APPARATUS IS MOUNTED SECURELY.
ENSURE THAT SEALS OR SEALING MATERIALS HAVE NOT DEGRADED SUCH 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 MAY INHIBIT THE EFFECTIVENESS OF SOME TYPES OF LEAK DETECTION EQUIPMENT. INTRINSICALLY SAFE COMPONENTS DO NOT HAVE TO BE ISOLATED PRIOR TO WORKING ON THEM.

8. 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.

9. CABLING
CHECK THAT CABLING WILL NOT BE SUBJECT TO WEAR, CORROSION, EXCESSIVE
PRESSURE, VIBRATION, 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.

10. 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 SYSTEMS CONTAINING FLAMMABLE REFRIGERANTS. ELECTRONIC LEAK DETECTORS SHALL BE USED TO DETECT FLAMMABLE REFRIGERANTS, BUT THE SENSITIVITY MAY NOT BE ADEQUATE, OR MAY NEED RE-CALIBRATION. (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.

WARNING

LEAK DETECTION FLUIDS ARE 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. 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 O VALVES) IN A PART OF THE SYSTEM REMOTE FROM THE LEAK. REMOVAL OF REFRIGERANT SHALL BE ACCORDING TO REMOVAL AND EVACUATION.

11. REMOVAL 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 BE FOLLOWED, SINCE FLAMMABILITY IS A CONSIDERATION. THE FOLLOWING PROCEDURE SHALL BE ADHERED TO:

A) SAFELY REMOVE REFRIGERANT FOLLOWING LOCAL AND NATIONAL REGULATIONS;
B) PURGE THE CIRCUIT WITH INERT GAS;
C) EVACUATE (OPTIONAL FOR A2L);
D) PURGE WITH INERT GAS (OPTIONAL FOR A2L);
E) OPEN THE CIRCUIT BY CUTTING OR BRAZING.

THE REFRIGERANT CHARGE SHALL BE RECOVERED INTO THE CORRECT RECOVERY CYLINDERS IF VENTING IS NOT ALLOWED BY LOCAL AND NATIONAL CODES. FOR APPLIANCES CONTAINING FLAMMABLE REFRIGERANTS, THE SYSTEM SHALL BE PURGED WITH OXYGEN- FREE NITROGEN TO RENDER THE APPLIANCE SAFE FOR FLAMMABLE REFRIGERANTS. THIS PROCESS MIGHT NEED TO BE REPEATED SEVERAL TIMES. COMPRESSED AIR OR OXYGEN SHALL NOT BE USED FOR PURGING REFRIGERANT SYSTEMS. FOR APPLIANCES CONTAINING FLAMMABLE 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 (OPTIONAL FOR A2L). THIS PROCESS SHALL BE REPEATED UNTIL NO REFRIGERANT IS WITHIN THE SYSTEM (OPTIONAL FOR A2L). WHEN THE FINAL OXYGEN-FREE NITROGEN CHARGE IS USED, THE SYSTEM SHALL BE VENTED DOWN TO ATMOSPHERIC PRESSURE TO ENABLE WORK TO TAKE PLACE.
ENSURE THAT THE OUTLET FOR THE VACUUM PUMP IS NOT CLOSE TO ANY POTENTIAL IGNITION SOURCES AND THAT VENTILATION IS AVAILABLE.

12. 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 REFRIGERATION 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 REFRIGERATION SYSTEM. PRIOR TO RECHARGING THE SYSTEM IT SHALL BE PRESSURE TESTED WITH OFN. 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.

WARNING

13.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 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.

K)RECOVERED REFRIGERANT SHALL NOT BE CHARGED INTO ANOTHER REFRIGERATION SYSTEM UNLESS IT HAS BEEN CLEANED AND CHECKED.

14.LABELLING
EQUIPMENT SHALL BE LABELLED STATING THAT IT HAS BEEN DE-COMMISSIONED AND EMPTIED OF REFRIGERANT. THE LABEL SHALL BE DATED AND SIGNED. ENSURE THAT THERE ARE LABELS ON THE EQUIPMENT STATING THE EQUIPMENT CONTAINS FLAMMABLE REFRIGERANT.

15.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 IS AVAILABLE. ALL CYLINDERS TO BE USED ARE DESIGNATED FOR THE RECOVERED REFRIGERANT AND LABELLED FOR THAT REFRIGERANT (I.E. SPECIAL CYLINDERS FOR THE RECOVERY OF REFRIGERANT). CYLINDERS SHALL BE COMPLETE WITH PRESSURE RELIEF VALVE AND ASSOCIATED SHUT-OF VALVES IN GOOD WORKING ORDER. EMPTY RECOVERY CYLINDERS ARE EVACUATED AND, IF POSSIBLE, COOLED BEFORE RECOVERY OCCURS.

WARNING

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 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 MANUFACTURER 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 REFRIGERANTS 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.

NON-DUCT CONNECTED APPLIANCES CONTAINING A2L REFRIGERANTS WITH THE SUPPLY AND RETURN AIR OPENINGS IN THE CONDITIONED SPACE MAY HAVE THE BODY OF THE APPLIANCE MAY BE INSTALLED IN OPEN AREAS SUCH AS FALSE CEILINGS NOT BEING USED AS RETURN AIR PLENUMS, AS LONG AS THE CONDITIONED AIR DOES NOT DIRECTLY COMMUNICATE WITH THE AIR OF THE FALSE CEILING.

NOTES:

Do not try to dismantle the system yourself; the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other must be done by a qualified installer in accordance with relevant local and national legislation.

Air conditioners must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health. Please contact the installed or local authority for more information.

Batteries must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.

NOTES:

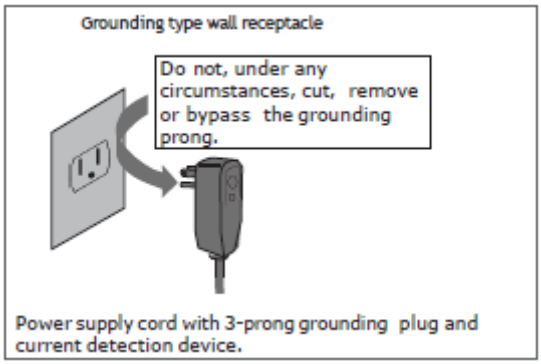
The power supply cord with this air conditioner contains a current detection device designed to reduce the risk of fire.

Please refer to the section Operation of Current Device for details.

If in the event that the power supply cord is damaged, it can not be repaired. It must be replaced with a cord from the manufacturer.

WARNING

- DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.
- AVOID FIRE HAZARD OR ELECTRIC SHOCK. DO NOT USE AN EXTENSION CORD OR AN ADAPTOR PLUG. DO NOT REMOVE ANY PRONG FROM THE POWER CORD.



WARNING

THE COMPLETE ELECTRICAL RATING OF YOUR NEW ROOM AIR CONDITIONER IS STATED ON THE SERIAL PLATE. REVER TO THE RATING WHEN CHECKING THE ELECTRICAL REQUIREMENTS.

- BE SURE THE AIR CONDITIONER IS PROPERLY GROUNDED. TO MINIMIZE SHOCK AND FIRE HAZARDS, PROPER GROUNDING IS IMPORTANT. THE POWER CORD IS EQUIPPED WITH A THREE-PRONG GROUNDING PLUG FOR PROTECTION AGAINST SHOCK HAZARDS.
- YOUR AIR CONDITIONER MUST BE USED IN A PROPERLY GROUNDED WALL RECEPTACLE. IF THE WALL RECEPTACLE YOU INTEND TO USE IS NOT ADEQUATELY GROUNDED OR PROTECTED BY A TIME DELAY FUSE OR CIRCUIT BREAKER, HAVE A QUALIFIED ELECTRICIAN INSTALL THE PROPER RECEPTACLE.
- ENSURE THE RECEPTACLE IS ACCESSIBLE AFTER THE UNIT INSTALLATION.
- DO NOT RUN AIR CONDITIONER WITHOUT OUTSIDE PROTCTIVE COVER IN PLACE. THIS COULD RESULT IN MECHANICAL DAMAGE WITHIN THE AIR CONDITIONER.
- DO NOT USE AN EXTENSION CORD OR AN ADAPTER PLUG.

WARNING

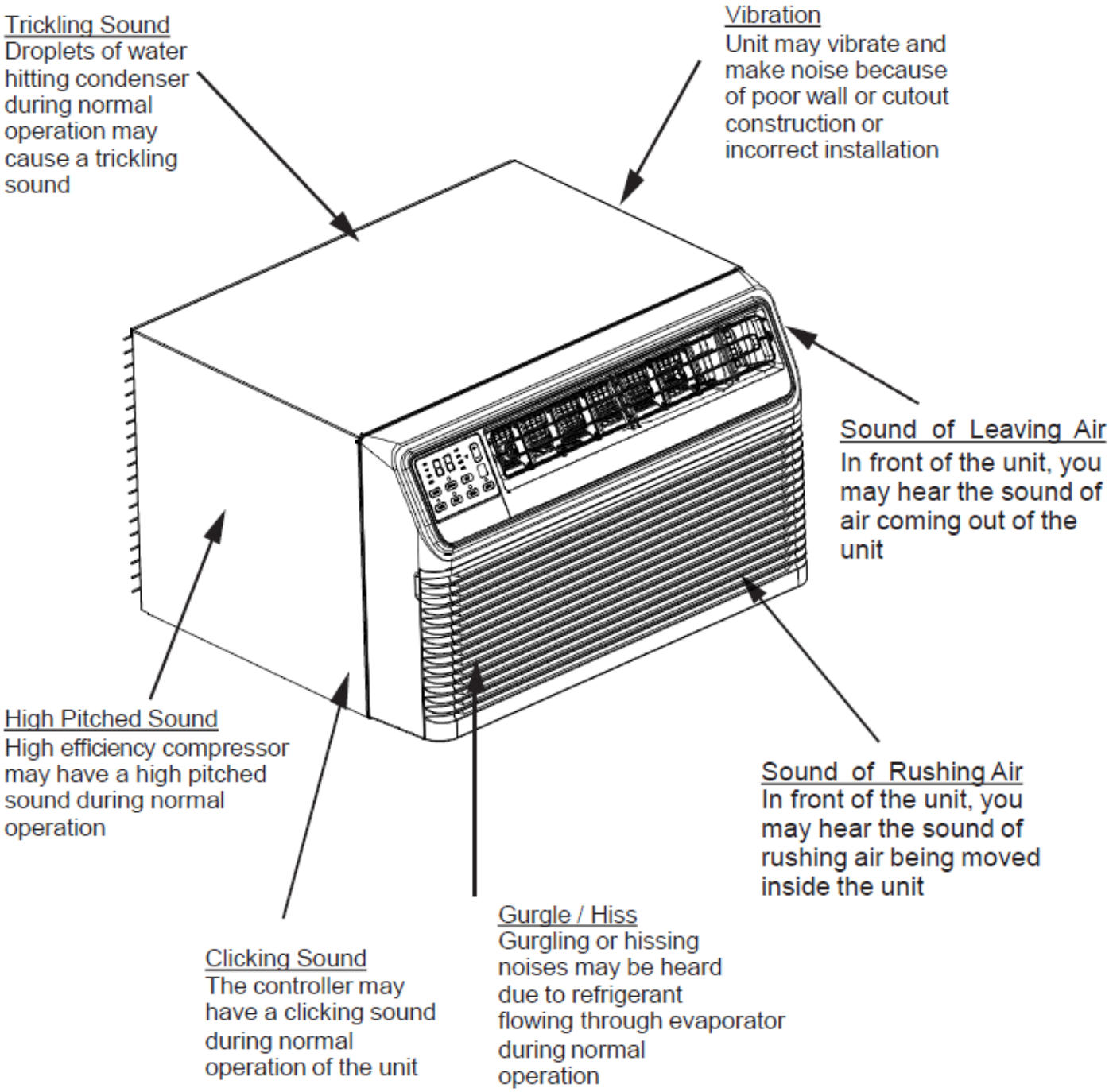
TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, OR INJURY TO PERSONS WHEN USING YOUR AIR CONDITIONER, FOLLOW BASIC PRECAUTIONS, INCLUDING THE FOLLOWING:

- WHILE INSTALLING THE UNIT IN THE WALL SLEEVE, ENSURE THE WALL SLEEVE IS CLEAN AND THERE ARE NO DERBRIS INSIDE THE WALL SLEVE.
- BE SURE THE AIR CONDITIONER HAS BEEN SECURELY AND CORRECTLY INSTALLED ACCORDING TO THE INSTALLATION INSTRUCTIONS IN THIS MANUAL.

SAVE THIS MANUAL FOR POSSIBLE FUTURE USE IN REMOVING OR INSTALLING THIS UNIT.

OPERATING INSTRUCTIONS

NORMAL SOUNDS



NOTE: All the pictures in this manual are for illustrative purposes only. The actual shape of the air conditioner you purchased may be slightly different, but its operation and functions will be similar.

OPERATING INSTRUCTIONS

This air conditioner is designed to be operated under the following conditions.

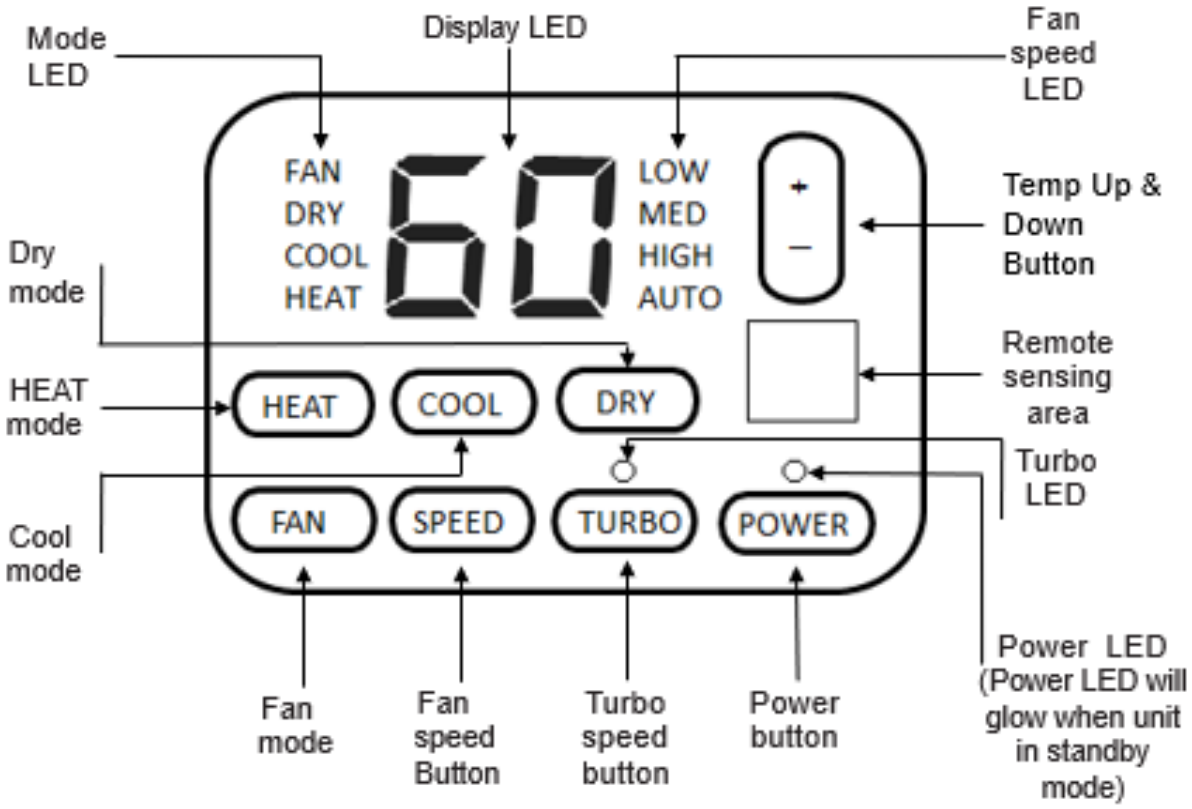
Cooling Mode	Outdoor temp.:	70 ~ 110°F / 21 ~ 43.3°C
	Indoor temp.:	60 ~ 90°F / 15 ~ 32.2°C
Heating Mode	Outdoor temp.:	14 ~ 75°F / -10 ~ 23.9°C
	Indoor temp.:	30 ~ 80.6°F / 0 ~ 27°C

NOTES:

- **The relative humidity of room should be less than 80%. If the unit is used in a condition with a relative humidity over 80%, there may be condensed water on the surface of the unit.**
- **Performance may be reduced outside of these operating temperatures.**
- **Always wait 3 minutes when turning unit off and then on again, or when changing from cool/heat mode to fan mode and back to cool/heat mode. This prevents compressor from overheating and possible tripping**

OPERATING INSTRUCTIONS

KEY PAD FEATURES



TO TURN UNIT ON OR OFF
Press the power button to turn ON/OFF the unit.
NOTE: The unit will initially turn ON in Coolmode. The operating modes can be futher changed by pressing the Mode button.

TO CHANGE TEMPERATURE SETTINGS
Press the Up/Down button to change temperature settings. Press the UP/Down button till the desired temperature is shown on the display LEDs.

TO ADJUST FAN SPEED
Press the Speedbutton to change the indoor side fanspeed of the unit. Fan speed can be Low, Medium, High, or Auto as per the selection from the button.Corresponding LED will start glowing on the display panel to highlight the selected fan speed.

TURBO FUNCTION
The unit can be operated inTurbo function, in which the indoor side fan speed will increase to deliver quick comfort to the user.This mode will also by pass the 3 minute waiting-time forthe compressor to turn on(first time only).

TO SELECT OPERATING MODE
Press the Heat/cool/dry/fan button to select operating mode of the unit. Corresponding LEDs will start glowing on the display panel to highlight the selected mode.

FanMode:
Use this function only when cooling/heating is not required, such as for room air circulation.The user can select Low, Medium, or High fan speed in this mode.
While the unit is running in fan mode, the display will show the current room temperature. Room temperature can not be adjusted in fan mode.

CoolMode:
When the unit is running in cool mode, the user can select-the desired temperature by pressing the up/down button. If the selected temperature is below the current room temperature, the compressor will start after a time delay of 3 minutes.

OPERATING INSTRUCTIONS

The Cool LED will blink during this waiting period to indicate that the compressor is about to turn on.The user can initially bypass this waiting period by pressing the turbokey. The user can select the indoor fan speed as Low, Med, High, or Auto.

HeatMode:
When the unit is running in heat mode, the user can select the desired temperature by pressing the up/down button.If the selected temperature is above the current room temperature, the heating functionality will start.

NOTE: For PBE models, electric heater is used to add heat to the room.
For PBH models, heat pump and electric heater will be switched on and off automatically based on the outside ambient temperatures.

While the unit is working in heat pump mode, the user can select the indoor fan speed compressor will start after a time delay of 3 minutes. The Heat LED will blink during this waiting period to indicate that the compressor is about to turn on.The user can initially bypass this waiting period by pressing the turbo key.

NOTE: While the unit is running in heat pump mode, the user can select indoor fan speed.
While the unit is running in electric heat mode, the fan speed will remain at High. Unit will show EH when changing fan speed.

DryMode:
In this mode,the air conditioner will generally function as a dehumidifier. Since the conditioned space is a closed or sealed area, some degree of cooling will occur.

LEDDisplay:

The LED display shows the status of the unit in various modes.

Fanmode:
While the unit is working in fan mode, theLED display will show the current room temperature.

CoolMode:
While the unit is working in Cool mode, the LED display will show the set temperature as selected by the user.

HeatMode:
While the unit is workingi n Heatmode,the LED display will show the set temperature as selected by the user.

DryMode:
While the unit is working in Dry mode, theLED display will show the set temperature at 75°F and cannot be changed by user.

Speed:
While changing fan speed of the unit, the following will be displayed on the unit:
Low Speed-F1 Med Speed-F2 High Speed-F3 Auto Speed-FA

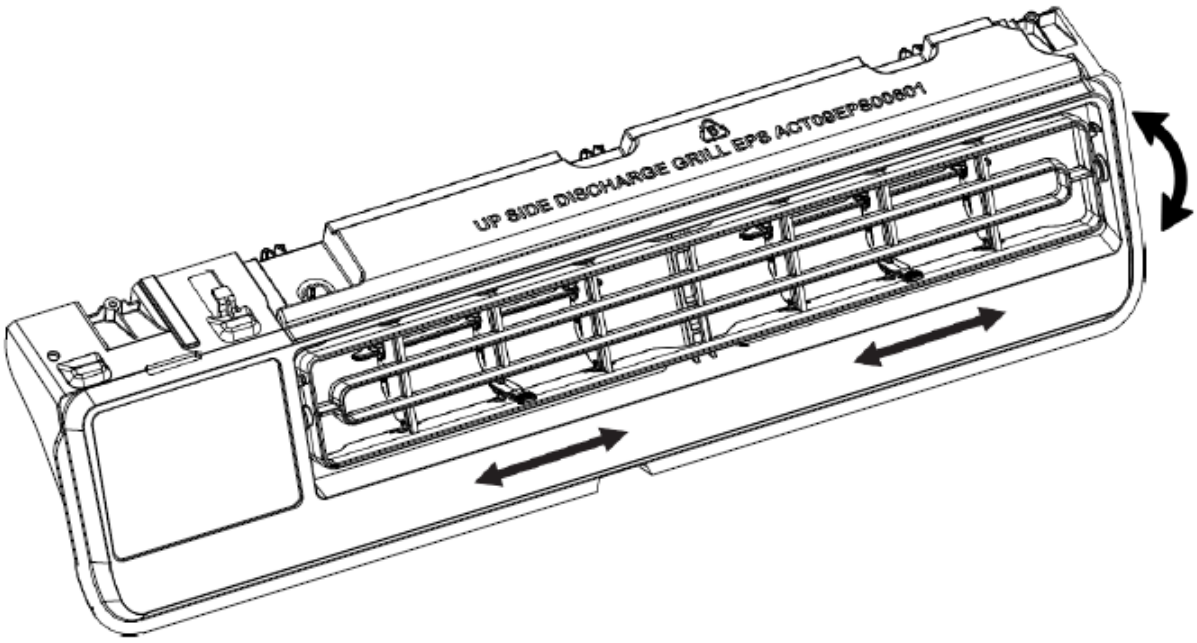
StandbyMode:
When the unit has been turned off through the display panel/remote, the LED display will show OF.

NOTE: In the case of any error in the unit, the corresponding error codes will be displayed on the unit. Refer to the Troubleshooting Tips section to know more about error codes and their possible solutions.

NOTE: If the unit shuts off unexpectedly due to the power outage, it will restart with the previous function setting automatically when the power resumes.

OPERATING INSTRUCTIONS

AIR DIRECTIONAL LOUVERS

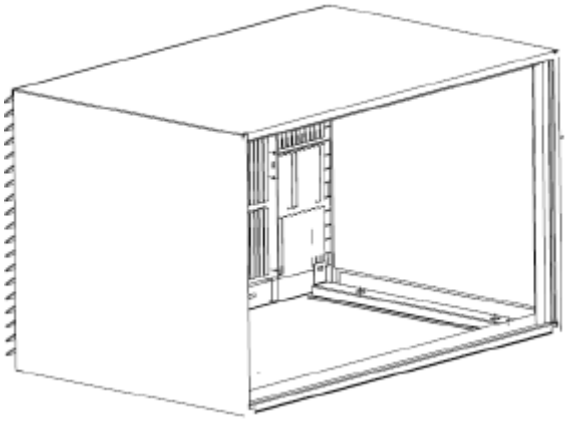


The air conditioner unit has adjustable louvers that allows the user to adjust the direction of air flow as required. Move the handles on the unit from side to side till the desired left/right direction air flow is achieved.
Rotate the louver side to adjust the airflow in up/down direction. Louver is inclined at angle of 27°, which can be adjusted to ± 7°.

NOTE:To get the optimal performance from the unit, make sure there are no obstacles in the air suction/ deliveryof the unit.

WALL-CUT REQUIREMENTS

Your air conditioner is designed to install in standard sleeve with opening Length X height of 26” X 16” (660mmX 400mm).



Wall sleeve

Model	7000-12000 BTU/h
Height	15-1/2” (400mm)

TOOLS YOU WILL NEED

Phillips Screwdriver

Level

TOOLS YOU MAY NEED

Flathead Screwdriver

Pencil

Ruler or tape measure

Scissors or knife

NOTES:

- After verification, the problem or dispute is caused by the quality specification or performance or parts and components that produce by other manufacturer.
- This product is tested and compliance with the standard parts sleeve PBWS01A, and rear grill PBAGK01TB.

PREPARE THE AIR CONDITIONER

- Remove the air conditioner from the carton and place on a flat surface. As per shown in fig : a
- Remove all TOP/BOTTOM packaging EPS, and corner angle boards , sides Honey-comb as shown in fig : b

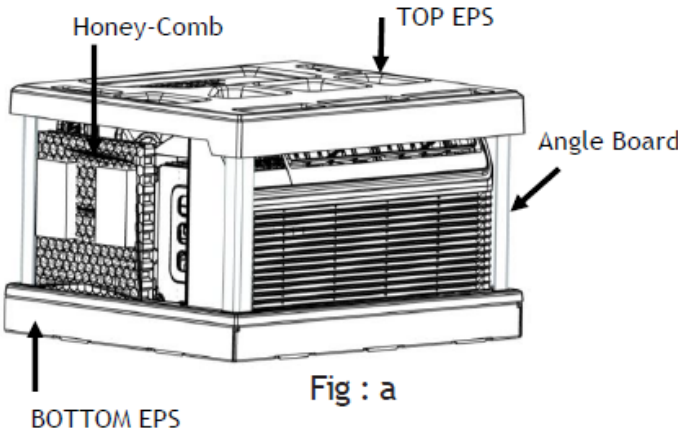


Fig : a

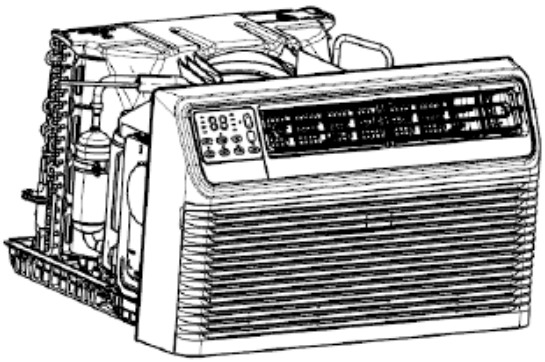


Fig : b

- Insert the Air Conditioner unit through the wall Sleeve. as per shown fig : C

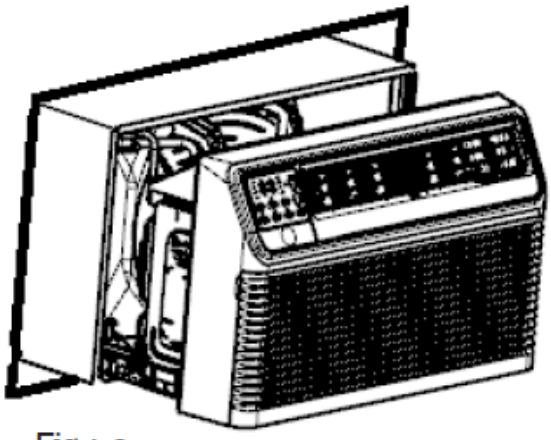
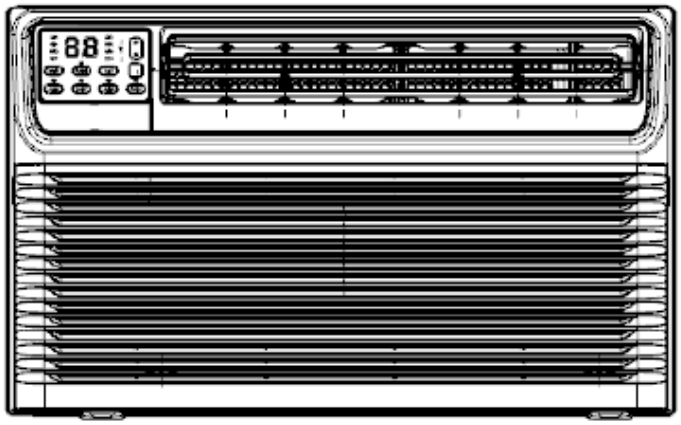


Fig : c

- After installation plug-in the power-cord to the respective socket.



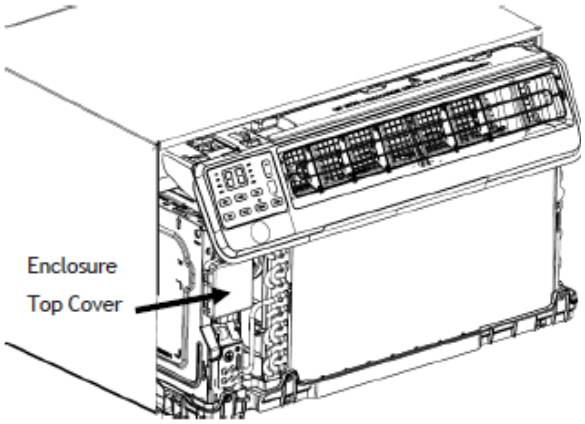


Fig : c

THERMOSTAT CONNECTION WITH CONVERSION BOARD

1.Remove the air conditioner from the carton and place on a flat surface. As per shown in fig : a

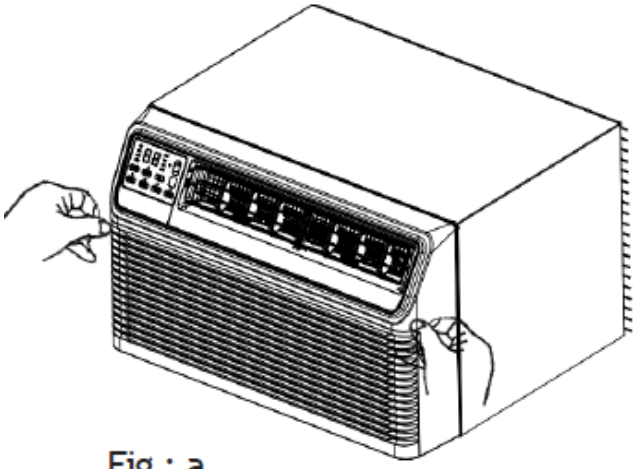


Fig : a

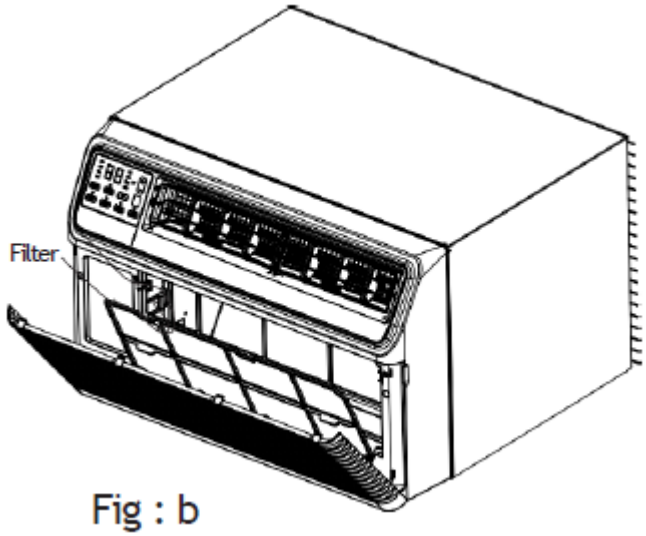


Fig : b

2.Open the top cover of conversion board enclosure as per fig : c.

3.Connect the thermostat wires to the connector as per fig : d.

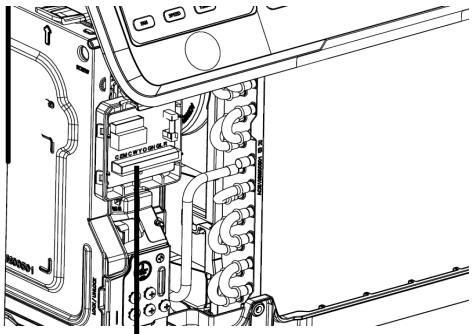
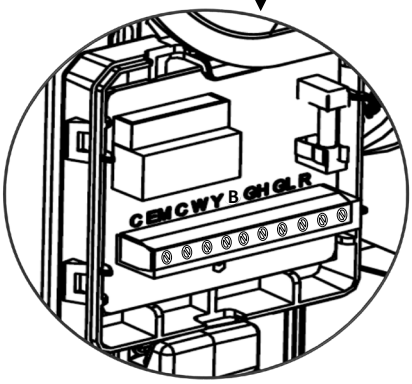


Fig : d



NOTE: Connection should be like C-C, Y-Y, GL-GL, GH-GH.....R-R etc.

Min Distance between the following sides of outdoor unit and adjacent structure, mm

Front Side	510	Left Side	25
Rear Side	510	Right Side	25
Top Side	1000	Bottom Side	122

THERMOSTAT OPERATION, PIN DESCRIPTION

This mode can be activated/deactivated in configuration menu at profile No.13.

1.Remove the air conditioner from the carton and place on a flat surface. As per shown in fig : a

2. The unit will work as per the following logics when External thermostat mode is active:

• The Indoor Fan speed, either Low or High, will be determined by the external thermostat in all modes.

• Indoor motor RPM will be as per below Table :

Model	LOW SPEED	HIGH SPEED
7K 230V	1350	1450
9K 115V/230V	1350	1450
12K 115V/230V	1350	1600

- In cool mode, external thermostat will decide when to turn on/off comp based on set temp and ambient temp (ambient temp will be sensed by the external thermostat).Indoor speed can be selected by user from the thermostat.
- In heat mode, external thermostat will send a signal to turn on/off the heat based on the set temp and ambient temp. Indoor speed can be selected by user from the thermostat.
- If any error is observed controller display will cycle between “Et” and respective error codes.
- H1, H2, H3, H4 and H9 errors conditions are still monitored when using a Wired Thermostat configuration.

PIN DESCRIPTION AT THERMOSTAT:

- B: HP reverse valve
- R: 24V IN
- Y: COMPRESSOR
- W: HEATER
- GH: Indoor Fan High SPEED
- GL: Indoor Fan Low SPEED
- C: 24V COMMON
- EM : Energy Management

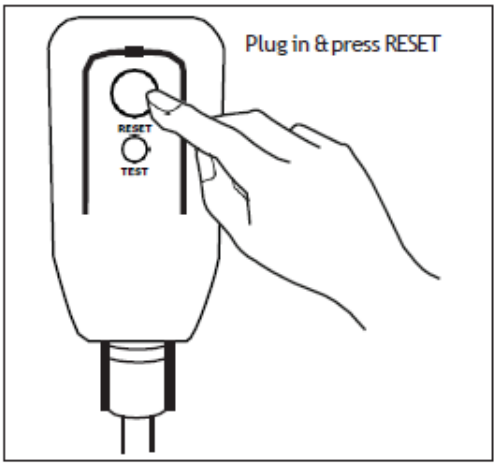
EM ENERGY MANAGEMENT INPUT (FRONT DESK CONTROL) :

controller can handle a switch signal from remote energy management unput, called EM signal or front desk control. Input must be 24VAC. If system receives a 24VAC signal, it will turnoff; otherwise, the unit runs in normal control.

MIN. DISTANCE BETWEEN THE FOLLOWING SIDES OF OUTDOOR UNIT AND ADJACENT STRUCTURE, MM

Front Side	510	Left Side	25
Rear Side	510	Right Side	25
Top Side	1000	Bottom Side	122

OPERATE CURRENT DEVICE/POWER CORD



The power supply cord contains a current device that senses damage to the power cord. Test your power supply cord as follows:

1.Plug in the air conditioner.

2.The power supply cord will have TWO buttons on the plug head. Press theTEST button.You will notice a click as the RESET button pops out.

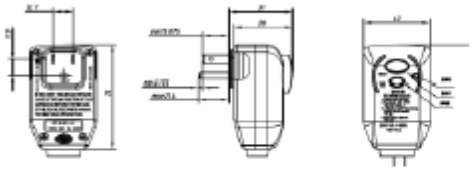
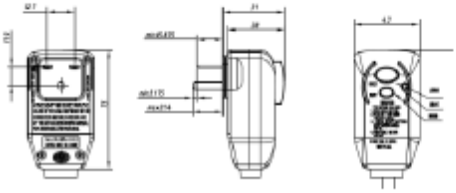
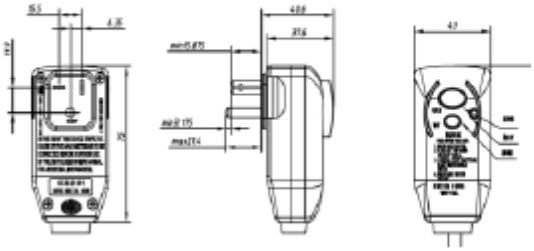
3.Press the RESET button. Again, you will notice a click as the button engages.

4.The power supply cord is now supplying electricity to the unit.(On some products this is also indicated by a light on the plug head.)

NOTES:

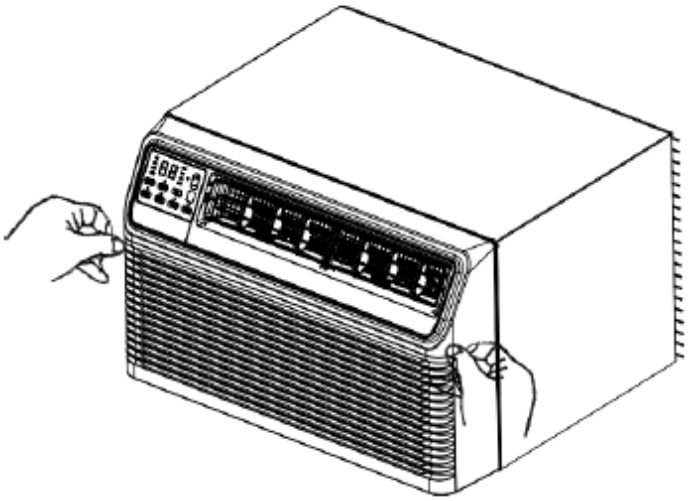
- Do not use this device to turn the unit on or off.
- Always make sure the RESET button is pushed in for correct operation.
- The power supply must be replaced if it fails to reset when either the TEST button is pushed, or it cannot be reset. Please contact customer service.
- If power supply cord is damaged,it cannot be repaired. It MUST be replaced with a new cord. Please contact Customer Service.

Power Cord details model wise

S.No.	Model No	Rating	Plug Details
1	PBC092J00AA	15A/120V	
2	PBH092J12AA		
3	PBC122J00AA		
4	PBC093J00AA	10A/240V	
5	PBC123J00AA		
6	PBH073J35AA	20A/240V	
7	PBE093J35AA		
8	PBH093J35AA		
9	PBE123J35AA		
10	PBH113J35AA		

CARE AND CLEANING

AIR FILTER CLEANING



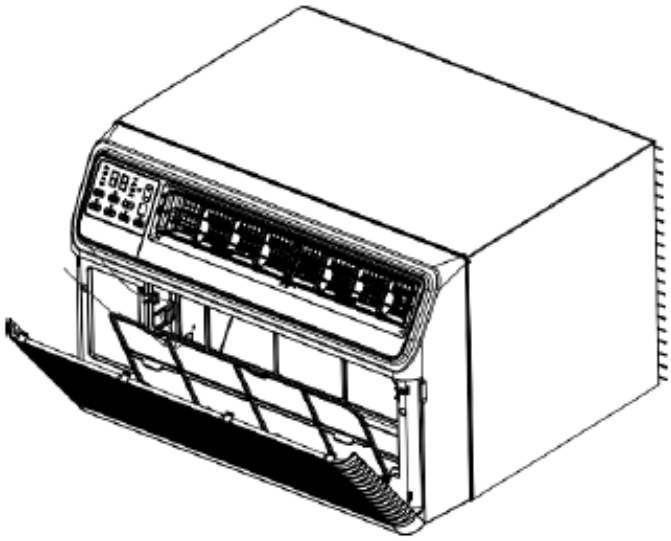
The air filter should be checked at least once in two weeksto see if cleaning is necessary. Trapped particles in the filter can build up and can cause accumulation of frost or reduction in unit performance.

STEPS TO CLEAN THE FILTER:

- Remove the filter cover (fascia) from the unit. To remove the filter cover, grab the filter cover from both sides and pull towards you. The filter cover will be hinged at the bottom side and will open revealingthefilterinside.
- Grasp the filter and pull out the filter.
- Wash the filter using liquid dish washing detergent and warm water. Rinse the filter thoroughly after cleaning.
- Gently shake the excess water from the filter. Be sure the filter is thoroughly dry before reinstalling in the unit.
- You may also vacuum the filter instead of washing it depending on the build upon the filter.

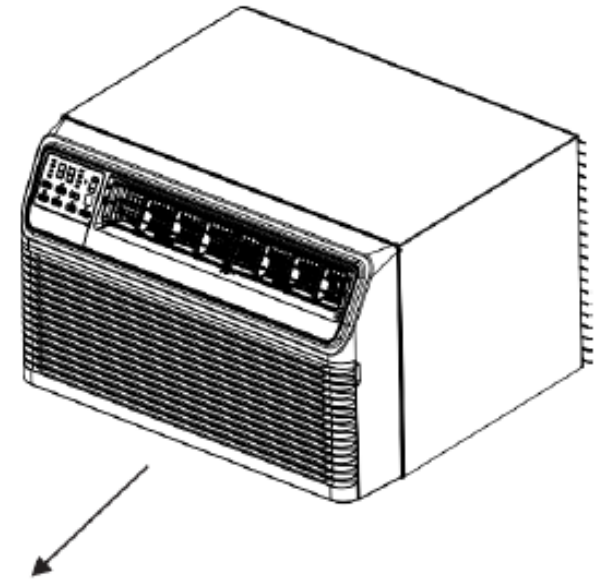
NOTE:

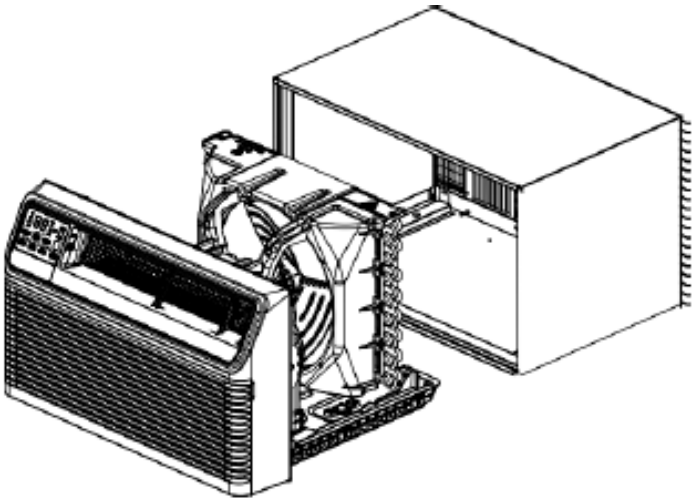
Never use hot water over 40°C (104°F) to clean the air filter. Never attempt to operate the unit without theairfilter. Never use any chemical to clean the filter.

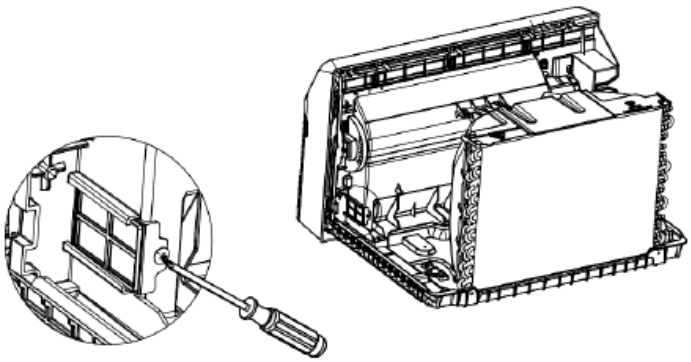


CARE AND CLEANING

FRESH AIR FILTER CLEANING*







The fresh air filter should be checked at least once in two weeks to see if cleaning is necessary.Trapped particles in the filter can build up and can cause reduction of fresh air moving inside the room.

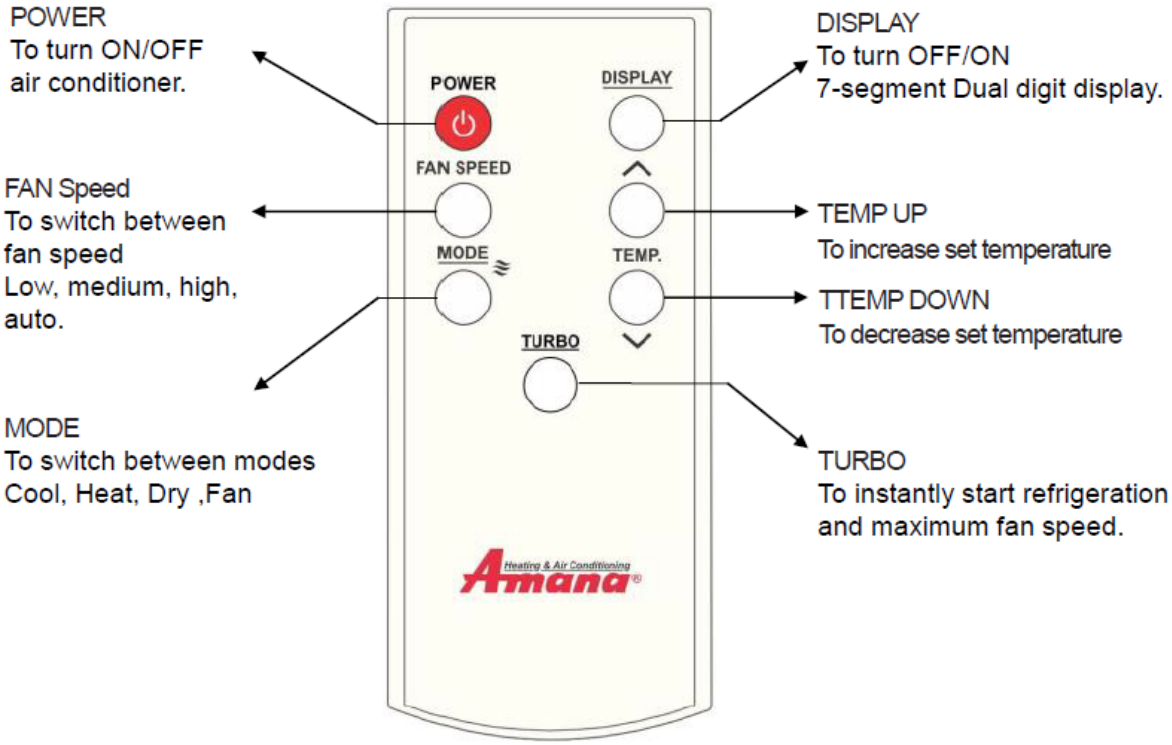
STEPS TO CLEAN THE FRESH AIR FILTER:

- Turn off the power supply to the unit and unplug the power socket from mains suppply.
- Grasp the filter and pull out the filter.
- Wash the filter using liquid dishwashing detergent and warm water. Rinse the filter thoroughly after cleaning.
- Gently shake the excess water from the filter.
- Be sure the filter is thoroughly dry before reinstalling in the unit.
- You may also vacuum the filter instead of washing it depending on the buildup on the filter.
- Fresh air filter is optional (Closed damper is pre-fitted.
- Fresh Air filter also supplied with accessories.

REMOTE CONTROL
OPERATING INSTRUCTIONS

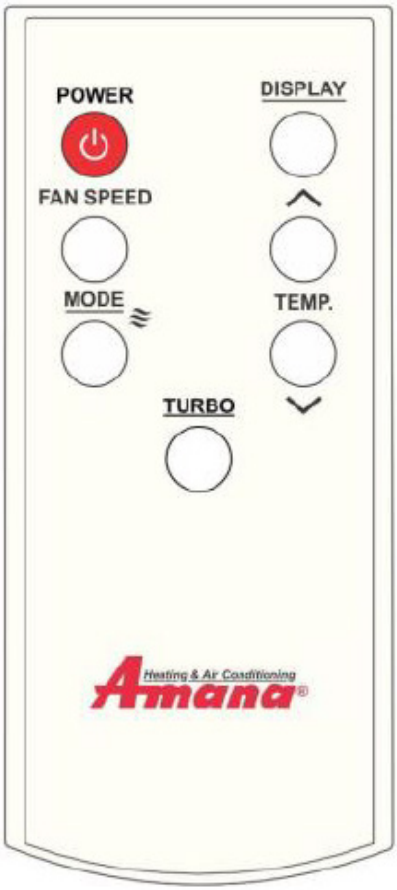
Model	RG15C/E
Rated Voltage	3.0V (Lithium battery CR2025)
Lowest Voltage of CPU Emitting Signal	2.4 V
Signal Receiving Range	22.9 ft. (7 m)
Environment	-5 ˚C ~ 60 ˚C (23˚F ~ 140˚F)

FUNCTION BUTTONS



REMOTE CONTROL OPERATING INSTRUCTIONS

HOW TO USE THE BUTTONS



NOTES:
During operation, point the remote-control signal sender at the receiving window on indoor unit. The distance between signal sender and receiving window should be no more than 7m, and there should be no obstacles between them. Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone: remote controller should be close to indoor unit during operation. Replace new batteries of the same model when replacement is required. When you don't use remote controller for a long time, please take out the batteries. If the command is missing on remote controller, please replace the batteries.

Prepare the Air Conditioner
1. Press the button once when machine is in standby mode to start functioning.
2. Press the button once when machine is running to stop working and put in standby mode

MODE button
1. Press the button to switch between different mode.
2. Cool, dry, fan, heat .

TURBO button
1. Press the button to instantly start refrigeration and maximum fan speed.
2. Again, press the button to disable turbo , the fan speed will go to its previous state.

FAN button
1. Press the button to change Fan speed.
2. Low, medium, high, auto.

TEMPERATURE SET button
1. Press the UP button to increase the set temperature.
2. Press the down button to decrease the set temperature.

DISPLAY button
1. Display button will turn off the LED showing temperature on display panel of machine.
2. Press and hold display key for 5 sec to see room temperature.

TROUBLESHOOTING TIPS

Before calling for service, review this list. It may save you time and expense. This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

Problem	Solution
Air conditioner does not start.	Wall plug disconnected. Push plug firmly into wall outlet.
	Circuit breaker tripped. Reset circuit breaker.
	Check if the light on the plug is on. If it is off, press the RESET button.
	Power is OFF. Turn power ON.
	Unit turned off and then on quickly. Turn unit off and wait 3 minutes before restarting.
	When “EM” pin has signal and energy management is activated.
Air from unit does not feel cold enough.	Room temperature below 60°F (16°C). Cooling may not occur until room temperature rises above 60°F (16°C).
	Temperature sensor behind the air filter is touching the cold coil. Try to move it so it does not contact the cold coil.
	Reset to a lower temperature.
	Compressor shut-off by changing modes. Wait approximately 3 minutes and listen for compressor to restart when set in the COOL mode.
	Check for potential obstructions blocking the outdoor intake/exhaust. Clear any obstructions.
Air conditioner cooling, but room is too warm – ice forming on cooling coil behind air filter.	Outdoor temperature below 64°F (18°C). To defrost the coil, set to FAN ONLY mode.
	Air filter may be dirty. Clean filter. Refer to Care and Cleaning section. To defrost, set to FAN ONLY mode.
	Thermostat set too cold for night-time cooling. To defrost the coil, set to FAN ONLY mode. Then, set temperature to a higher setting.
Air conditioner cooling, but room is too warm -NO ice forming on cooling coil behind air filter.	Dirty or restricted air filter. Clean filter. Refer to Care and Cleaning section. To defrost, set to FAN ONLY mode.
	Temperature is set too high, set temperature to a lower setting.
	Air directional louvers positioned improperly. Position louvers for better air distribution.
	Front of unit is blocked by drapes, blinds, furniture, etc. - restricts air distribution. Clear obstruction in front of unit.
	Any open doors, windows, or registers may allow cold air to escape. Close any doors, windows, or registers.

TROUBLESHOOTING TIPS

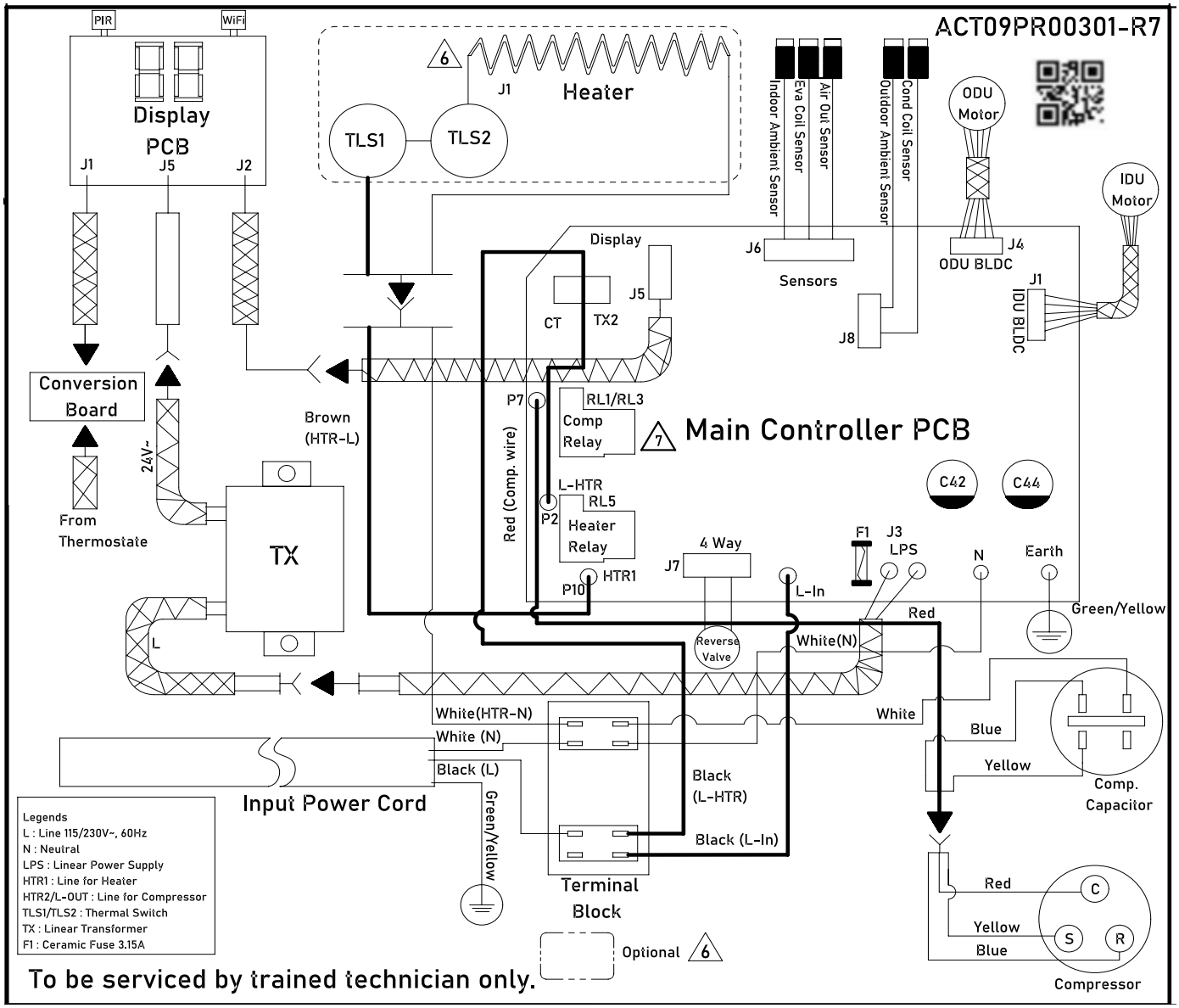
Air conditioner turns on and off rapidly.	Dirty air filter- air restricted. Clean air filter.
	Outside temperature extremely hot. Set FAN speed to a higher setting to bring air past cooling coils more frequently.
	Check for potential obstructions blocking the outdoor intake/exhaust. Clear any obstructions.
Noise when unit is cooling.	Air movement sound. This is normal. If too loud, set to a slower FAN setting.
	Window vibration - poor installation. Refer to installation instructions or check with installer.
Water dripping INSIDE when unit is cooling.	Improper installation. Tilt air conditioner slightly to the outside to allow water drainage. Refer to installation instructions - check with installer.
Water dripping OUTSIDE when unit is cooling.	Unit removing large quantity of moisture from humid room. This is normal during excessively humid days.
Remote sensing deactivating prematurely (some models).	Remote control not located within range. Place remote control within 22.9 feet & 120°, radius of the front of the unit, and pointed in the general direction of the air conditioner unit.
	Remote control signal obstructed. Remove obstruction.
Room too cold.	Temperature setting too low. Increase temperature setting.
Noise when unit starts.	A “da-da” sound may occur for thirty seconds when the unit is turned on due to the compressor starting. It is normal.

TROUBLESHOOTING TIPS

IF THERE IS AN ERROR CODE ON DISPLAY

Error Code	Status	Corrective Action
Ft	Multiple DIP Switch selected (All OFF, or All ON or any two ON/OFF)	Turn ON only One dip switch according to Model.
E1	When room ambient air sensor is short or open	Replace or reconnect the Sensor
E2	When Evaporator coil sensor is short or open	Replace or reconnect the Sensor
E3	When air out sensor is short or open	Replace or reconnect the Sensor
E4	When Condenser. Coil sensor is short or open	Replace or reconnect the Sensor
E5	When outdoor ambient air sensor is short or open	Replace or reconnect the Sensor
EH	Unit will show EH when changing fan speed in Electric Heater running.	Only Turbo and high speed is allowed.
LC	When Ta – Tc ≤ 2ºC, Check the condition for three times after refrigeration cycle start.	Check the sensor position, Recharge the Gas, Check the Compressor also.
H1	To indicate heater element burn (open circuit)	Check Heater Element burnt, or Relay not energized
H2	To indicate heater element continuously ON without any logic/Heater OCP.	Check Relay contact get weld/Stuck or Drive IC's pin get pulled up
H3	Error code when temp sensed by condenser coil sensor is below 68°F (20°C) (in cool mode)	Check Relay contact get weld/Stuck or Drive IC's pin get pulled up
H4	Error code when temp sensed by condenser coil sensor is above 68°F (20°C) (in heat mode)	Check Relay contact get weld/Stuck or Drive IC's pin get pulled up
H5	Error code to indicate indoor BLDC motor fault	Replace or reconnect the Motor
H6	Error code when temp sensed by evaporator coil sensor is above 86°F (30°C) (in cool mode)	Check Relay contact get weld/Stuck or Drive IC's pin get pulled up
H7	Error code when temp sensed by evaporator coil sensor is below 68°F (20°C) (in heat mode)	Check Relay contact get weld/Stuck or Drive IC's pin get pulled up
H8	Error code to indicate Outdoor BLDC motor fault	Replace or reconnect the Motor
H9	Error code to indicate the compressor over current protection.	Turn ON/OFF machine to verify if there is compressor fault.
dF	Error code to indicate defrost error	Check the Sensor position or replace, indoor Motor running at very low RPM or replace the Motor
CF	Configuration menu indication	To exit CF mode press and hold Fan button

WIRING DIAGRAM

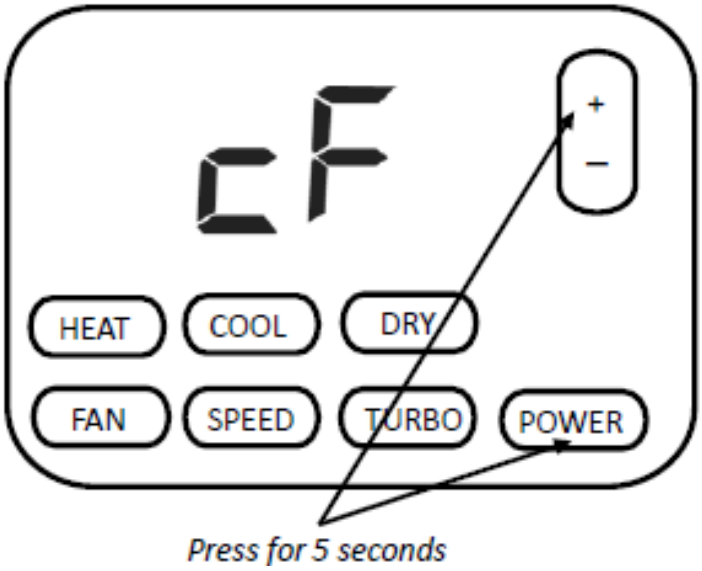


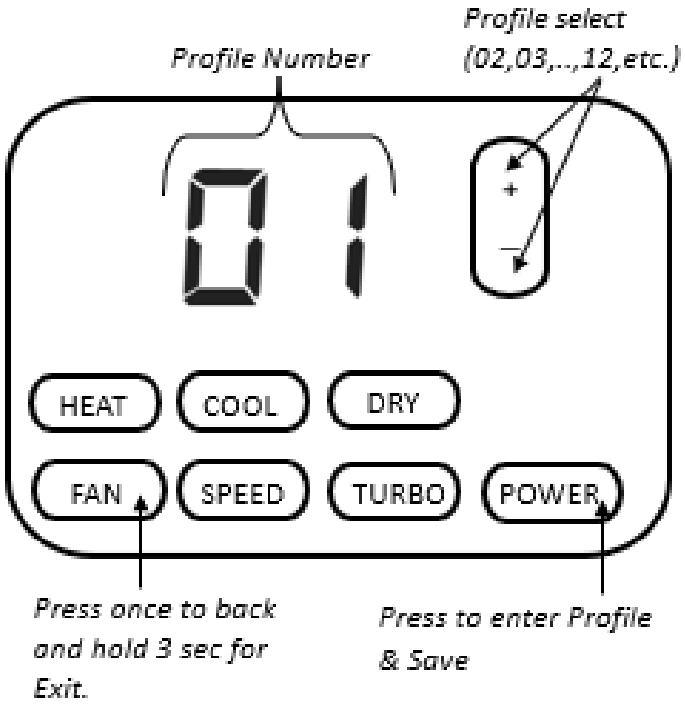
CONFIGURATION MENU

The control can be configured to operate a wide range of options. The options listed below with the * are the factory default settings. If these are acceptable, then the unit does not require any additional configuration and is fully operable. To configure the unit, first select the configuration feature code setting and then an option code to change from the factory default setting.

How to Enter **"CONFIG. MENU"** : In standby mode Press "**POWER+TEMP UP**" for
5 seconds.

Display will show 'cF' for 2sec, then goes to profile menu number 03 by default.





How to enter "**CUSTOM PROFILE**" :

After entering config. Menu, Display will start blinking Profile number "03" always

Press "temp + /-" to move up/down in config. menu.

Select the profile number (03,….,12,etc) and press "POWER " to enter(save), temp + /-" to set the value, Press 'FAN' to back and hold for 3 seconds to exit from configuration menu.

CONFIGURATION MENU

PROFILE TABLE (all temp. in °F)			
Profile No.	**Profile Name**	**Custom/Display DIGIT**	**Description**
03	Custom temp. Range cooling	60	Selectable from 60-80°F (Default 60°F)
04	Custom temp. Range heating	80	Selectable from 68 -90°F (Default 80°F)
05	Custom temp. Delta for dry mode to turn OFF	02	2-8 (Default 2°F)
06	Select temp unit °c/°f.	oF	Fahrenheit (Default)
		oC	Celsius
07	Freeze protection mode (This unit does not guarantee the room will not be susceptible to freezing)	P 1 + Low	Freeze Protection On, Low Fan Speed (Default)
		P2 + High	Freeze Protection On, High Fan Speed
		P0	Freeze Protection Off
08	Activation temp. Selection for freeze prot. Mode	40	25-55°F (Default 40°F)
09	Auto fan low to high (cool)	05	Cooling temp delta for ID fan to go to high in auto fan 5-9°F (Default 5°F)
10	Auto fan low to high (heat)	06	(Heating temp delta for ID fan to go to high in auto fan 6-8°F (Default 6°F)
11	Quick warm up (Only Heat Pump model, Not available in External Thermostat)	04	delta between room temp and set point in heating mode 4-8°F(Default 4°F)
			Not Active
12	Temperature sensor offset	00	to compensate for room temperature bias (-9°F) to (+9°F) (Default 0°)
13	External thermostat	Et	User can select this mode to operate with Thermostat.
		nA	Not Active (Default)

CONFIGURATION MENU

PROFILE DESCRIPTION (ALL TEMPERATURE IN °F)

3. CUSTOM TEMPERATURE RANGE FOR COOLING
Selectable from 60°-80°F (Default 60°F).(User can select minimum set temperature for cool mode between 60°-80°F.)

4. CUSTOM TEMPERATURE RANGE FOR HEATING
Selectable from 68°- 90°F (Default 80°F).(User can select maximum set temperature for heat mode between 68°-90°F.)

5. CUSTOM TEMP. DELTA FOR DRY MODE TO TURN OFF
2°-8°F (Default 2°F) (User can select temperature difference between set temperature and room temperature to turn off compressor in dry mode. (Default 2°F)

6. SELECT TEMP UNIT °C/°F
°F : Fahrenheit (Default). (User can select unit for temperature between °C and °F.
°C : Celsius

7. FREEZE PROTECTION MODE
(Unit will run continuously to maintain the room temperature at 60°F.
Freeze protection mode will turn on based on room ambient Temp. selected in profile-08.

NOTE: High speed fan will be used in Freeze Protection if the electric heat is in use, regardless if P1, Low Fan speed option is selected.

P1+LOW : Freeze Protection On, Low Fan Speed
P2 +HIGH : Freeze Protection On, High Fan Speed
P0 : Freeze Protection Off

8. ACTIVATION TEMP. SELECTION FOR FREEZE PROT. MODE
25°- 55°F (Default 40°F) (User can decide Activation temperature between 25° to 55°F, AC will maintain the room temperature at 60°F and run continuously.)

9. AUTO FAN LOW TO HIGH (COOL)
Cooling temp delta for ID fan to go to high in auto fan 5°-9°F (Default 5°F).
Room temp = Set temp + 5° to 9°F (selected by the user)
Fan speed will change auto to High .

10. AUTO FAN LOW TO HIGH (HEAT)
Heating temp delta for ID fan to go to high in auto fan 6°-8°F (Default 6°F).
Room temp = Set temp + 6° to 8°F (selected by the user)
Fan speed will change auto to High .

11. QUICK WARM UP
When delta between room temp and set point in heating mode 4° to 8°F (Default 4°F) Room temp = Set temp - 4° to 8°F (selected by the user) Heater will turn on instantly instead of heat pump to achieve set temperature. When set temperature is achieved, Heater will turn off and the unit will resume using the heat pump, subject to availability, to maintain the setpoint.
If Heat pump fails to maintain the set temperature, Heater will turn ON again according to this logic.
User have to set temp difference between 4° to 8°F to turn on this mode. There will option “nA” if user want to turn off this mode.

12. TEMPERATURE SENSOR OFFSET
C1 : To compensate for room temperature bias actual (-9°F) to (+9°F) (Default 0°)
(User can select room temperature sensor to read more or less value than actual value to get equal cooling in all corners of room if one side of room is directly exposed to sun.)

13. EXTERNAL THERMOSTAT
Press the power key when profile 13 blink to enter in External thermostat mode. Display will show “Et” and control will work through thermostat.

CUSTOMER FEEDBACK
We are very interested in all product comments.
Please fill out the feedback form on one of the following links:
Daikin Products: (https://daikincomfort.com/contact-us)
Goodman® Brand Products: (http://www.goodmanmfg.com/about/contact-us).
Amana® Brand Products: (http://www.amana-hac.com/about-us/contact-us).
You can also scan the QR code on the right for the product brand you purchased to be directed to the feedback page.

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