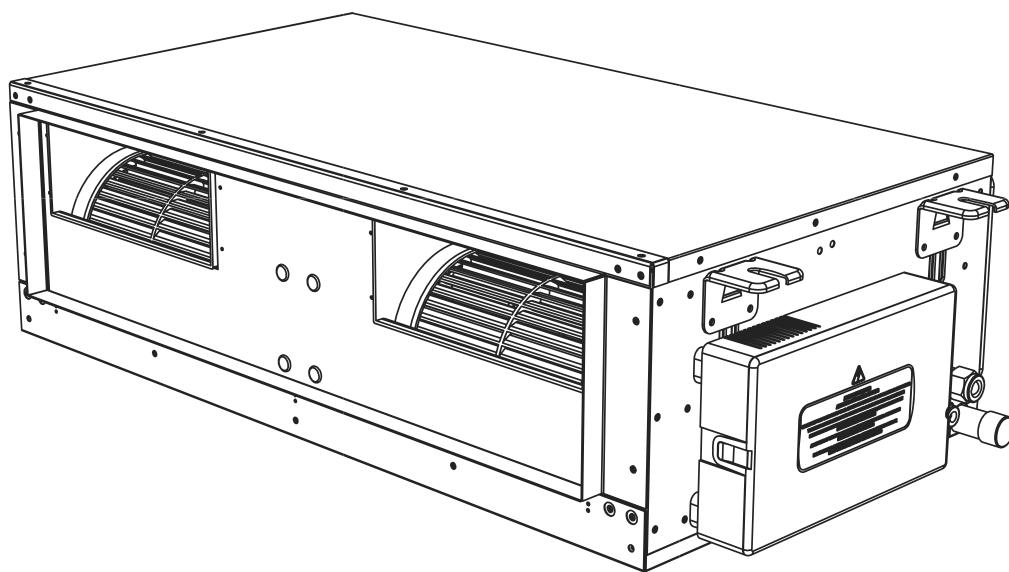


OWNER'S MANUAL

BD/BC DUCTED TYPE SPLIT SYSTEMS
CAPACITY RANGE: 8-25kW



(English) (BD/BC)

CONGRATULATIONS ON CHOOSING A NEW BRAEMAR AIR CONDITIONER FOR YOUR HOME

Your air conditioner is built from quality materials and engineered to provide many years of economical, trouble free cooling.

Please take a few minutes to read these instructions so you have a full understanding of how to operate your air conditioner.

Your installer should demonstrate the features and procedures set out in these instructions. The installer should also provide you with a Model and Serial number sticker, which can be attached to the last page, and to the warranty booklet.

Keep these instructions in a safe place for future reference.

IMPORTANT

As with any product that has moving parts or is subject to wear and tear, it is VERY IMPORTANT that you maintain your Air Conditioner and have it regularly serviced. No-one could reasonably expect a car manufacturer to pay a warranty claim for breakdown or repairs where the car had not been properly serviced and maintained in accordance with the manufacturer's requirements. The same applies to your Air Conditioner. Accordingly, it is a condition of warranty cover for your Air Conditioner that you comply with all of the maintenance and service requirements set out in the Owner's Manual. Compliance with these requirements will prolong the life of your Air Conditioner. Further, it is also a condition of warranty cover that the Maintenance Schedule in the Owner's Manual is filled out (by signing and dating it in the places indicated) when the item is completed. ANY FAILURE TO CARRY OUT THE REQUIRED MAINTENANCE AND SERVICING, AND ANY FAILURE TO FILL OUT THE MAINTENANCE SCHEDULE, WILL VOID YOUR WARRANTY.

CONTENTS

Operating Instructions

1. Preface.....	3
2. Part Identification.....	4
3. How to Use the Wall Control.....	5-8
4. Operating Guide & Precautions.....	9
5. What to check before you make a Service Call.....	10

Installation Instructions

6. Safety Instructions for installation and maintenance.....	11
7. Indoor Unit Installation.....	12
8. Outdoor Unit Installation.....	13-14
9. Pipe Preparation.....	15
10. Piping Length and Elevation.....	16
11. Piping Connection.....	17
12. Air Purging and Check for Pipe Leakage.....	18
13. Wiring Diagram.....	19
14. Refrigerant Pipe and Drain Pipe.....	20
15. Test Running.....	21

Maintenance

16. Maintenance Schedule.....	22
17. Maintenance.....	23
18. Important.....	24

NOTE:

Common problems with air conditioning units result from a failure to clean the air filter or alternatively, to replace it after it has been cleaned.

Please check and clean the air filters by following the instructions on page 22 and 23 of this Manual.

1. PREFACE

NOTE FOR THE HOME OWNER

The user should retain this Manual for future reference. To ensure the warranty does not become void, the unit must be regularly maintained and serviced in accordance with the requirements set out in this booklet, and further, the Maintenance Schedule on page 22 must be filled out as indicated. Attention should be given to the air inlet side of the outdoor coil to ensure that leaves, grass etc are not being drawn into the unit. Restriction to air flow across the coil will reduce the system capacity or result in high operating pressure and excessive operating costs. Air filters must be installed properly and should be inspected at least once a month.

Your air conditioner is designed and built with reliable components to provide years of trouble free dependable service. However, it will require regular maintenance either by yourself (end user) or a licensed technician to keep your warranty on the unit valid as set out in the Maintenance Schedule.

Important

Where this booklet indicates that maintenance/service is to be performed by a qualified licensed technician, and it is not carried out by such a technician, then the warranty will be immediately voided.

The fact that the Australian Greenhouse Office has issued various regulations on the use and disposal of refrigerants in this unit makes it even more important why only qualified licensed technicians should work on the unit, where specified.

BEFORE INSTALLATION

Your unit **must** be installed by a qualified, licensed installer.

Check the Product

Upon receiving your unit, please inspect for damage. Claims for damage should be reported immediately to the transportation company. Check that the unit is correct against your order. In the event an incorrect unit is delivered, it must be returned to the supplier and must NOT be installed. The manufacturer assumes no responsibility for installation of incorrectly delivered units.

Read the Installation instructions

Read all instructions carefully prior to installation. Please ensure every step described in this manual is understood and taken into account before starting installation. Proper installation will help ensure trouble free operation. Improper installation may result in problems such as noisy operation, compressor damage, improper operation or dangerous conditions that could result in injury or property damage and this could also void the warranty.

NOTE:

Overcurrent Protection

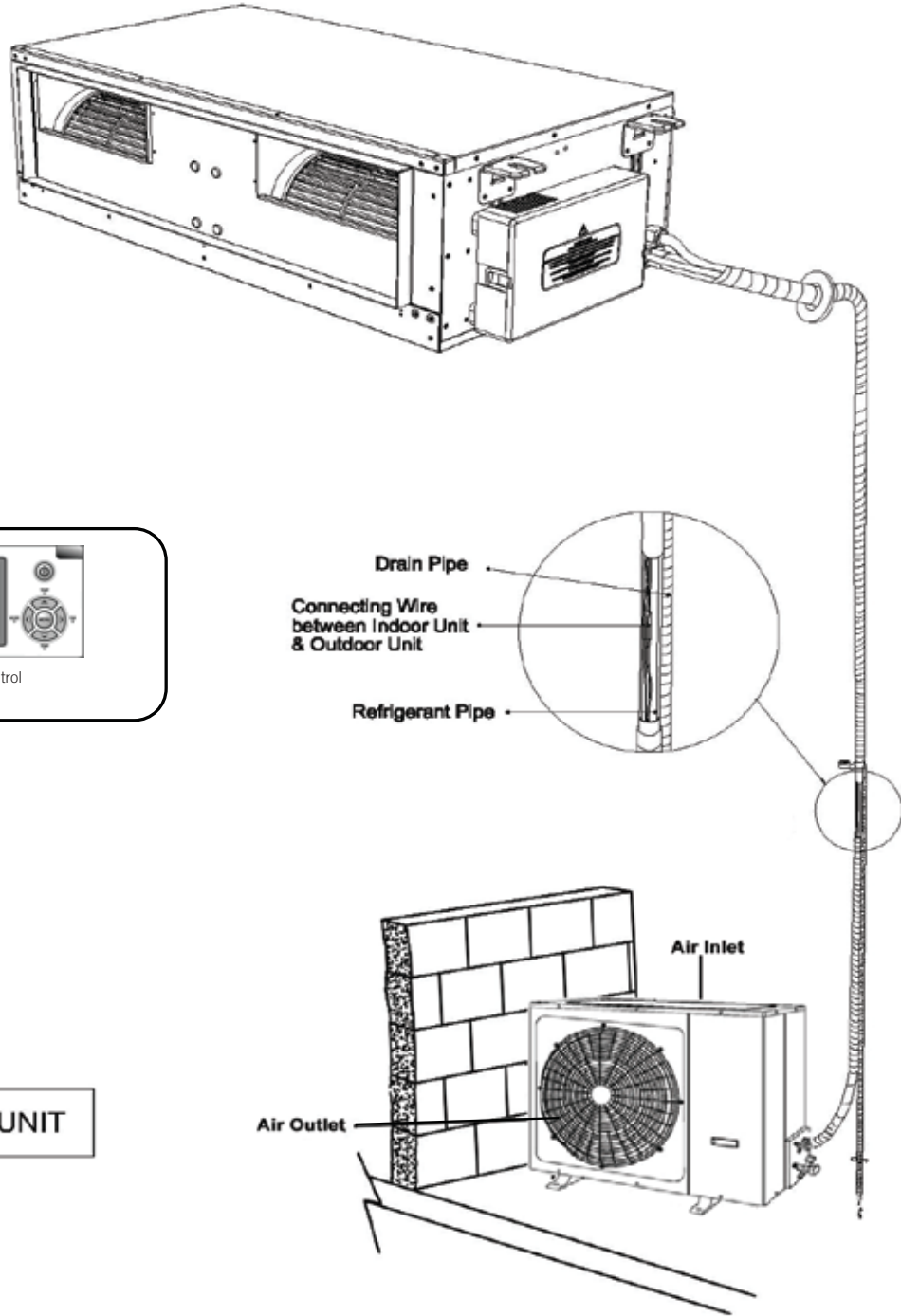
Overcurrent protection which is less than that recommended could result in unnecessary fuse failure and a charge for the service call to rectify the problem. The manufacturer bears no responsibility for damage caused to the equipment as a result of deviation from the recommended rating.

Refrigerant tubing

Keep refrigerant tubing clean and dry prior to and during installation to avoid equipment damage.

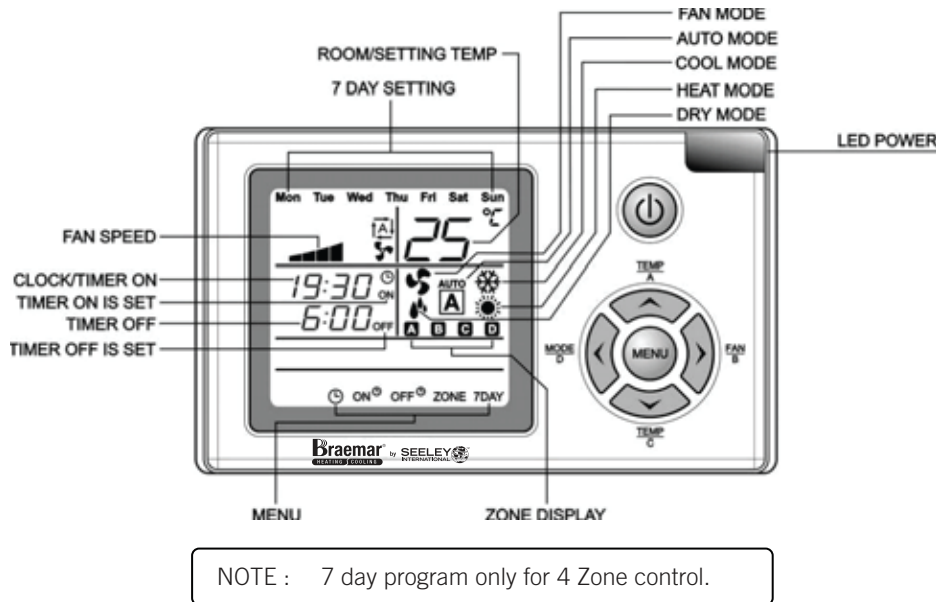
2. PART IDENTIFICATION

INDOOR UNIT



OUTDOOR UNIT


3. HOW TO USE THE WALL CONTROL



1). BASIC FUNCTION:


The following features can be operated by buttons on the Display unit.

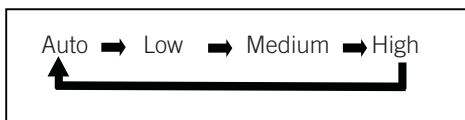


Pressing the  button will turn the air conditioner on or off. When turned on, it will operate according to the setting shown on the Display unit. The Zone Indicators **A B C D** on the Display unit will show the zones that have been opened.



FAN

Press the  button to set fan speed (Auto, Low, Medium, or High.)



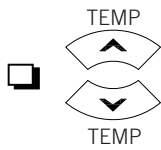
AUTO MODE :



When the fan speed is set to auto speed, the speed will be adjusted automatically according to the difference between the room temperature and setting temperature.

- If the difference is 3°C or more, the speed is high.
- If the difference is 2°C, the speed is medium.
- If the difference is 1°C or less, the speed is low.

NOTE: The FAN button can not be used in DRY mode.

3. HOW TO USE THE WALL CONTROL CONT.





The setting temperature can be set in the range of 18-30°C by pressing the TEMP  or TEMP  button. The LCD on the Display unit will show the setting temperature.



OPERATING MODE

By pressing MODE button, the air conditioner can be put in one of the 5 operating modes (fan, cool, dry, heat, auto).



1. Fan Mode : The system will circulate air only in this mode. The SLEEP, TEMP  and  TEMP buttons are not used.
2. Cool Mode : The system will operate as a cooling unit. The room sensor for cool mode is located at the return air near the indoor coil.
Note: the compressor is subjected to a 3-minute delay protection each time it stops.
3. Dry Mode : The system will operate as a dehumidifier. In dehumidifying, the temperature will be reduced. The indoor unit will operate intermittently in the cool mode and the outdoor unit will stop operating intermittently.
4. Heat Mode : The system will operate as a heat pump by switching on the reversing valve relay. The room sensor for heat mode is located at the display touch pad.
Note: the compressor is subjected to a 3-minute delay protection each time it stops.
5. Auto Mode : The system will operate in either Cool mode or Heat mode automatically depending upon the room temp and set temp. In this mode, “Cool” and “Heat” symbols will appear simultaneously on the display screen.

NOTE : For the optimum energy efficiency, we recommend you set the cooling temperature between 24-26°C and the heating temperature between 18-20°C.

3. HOW TO USE THE WALL CONTROL CONT.

2). ENHANCED FEATURES :

The enhanced features of the system can be accessed by the user by choosing from the menu setting.












Press MENU button to display the menu.

NOTE : Exit by pressing the following button: 











CLOCK SETTING

Set the clock by pressing the following button: 

- Move cursor to  position and then press MENU button.
- Press  or  button for setting the Hour.
- Use  or  button to enter into Minute setting and then press the  or  button until you reach the required setting.
- Use  button to enter into Day setting and then press  or  button until you reach the required setting.
- Press MENU button to confirm.
- Press the  button to exit.









NOTE : If Timer on/off is set, there will be no Clock display.

TIMER ON

- Move cursor to ON  position and then press MENU button.
- Press  or  button for setting the Hour.
- Use  or  button to enter into Minute setting and then press  or  button until you reach the required setting.
- Press MENU button to confirm.
- Press  button to exit.


NOTE: You may cancel at any time by pressing the POWER button while in this setting mode.

TIMER OFF

- Move cursor to OFF  position and then press MENU button.
- Press  or  button for Hour setting.
- Use  or  button to enter into Minute setting and then press  or  button until you reach the required setting.
- Press MENU button to confirm.
- Press  button to exit.

NOTE : You may cancel at any time by pressing the POWER button while in this setting mode.

ZONE CONTROL

- Move cursor to zone position and then press MENU button.
- Press A or B or C or D button (if the 4 zone function is used)
to turn on/off any particular zone (s). The Display will show the active zone (s).
- Press MENU button to confirm.
- Press  button to exit.

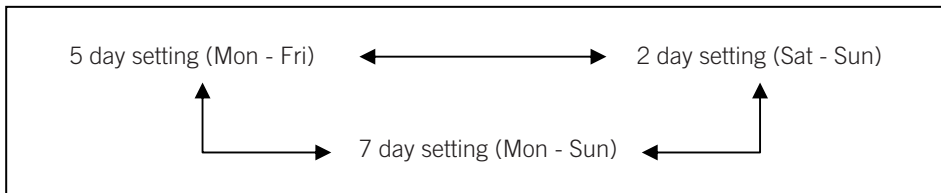
NOTE : If you press and hold the MENU button for 2 seconds, the system will enter into ZONE mode immediately.

3. HOW TO USE THE WALL CONTROL CONT.

7 Day program

The system can be programmed to turn on/off on a 2, 5 or 7 day basis.

- ❑ Move cursor to the 7 DAY position and then press the MENU button.
- ❑ Use the < or > button to select the 2, 5 or 7 day setting and then press the MENU button.



- ❑ (Timer on/off setting) : Press the ^ or v button for the Hour setting. (Press the ⏸ button to skip the Timer On Setting)
- ❑ Use the < or > button to enter into the Minute setting and press the ^ or v button until you reach the setting.
- ❑ Press the MENU button to confirm the setting.
- ❑ Press the ⏸ button to exit the 7 Day program. The words "7 DAY" should appear on the display.

To cancel the 7 DAY program :

- ❑ Press the MENU button.
- ❑ Move the cursor to the 7 DAY position and then press the MENU button.
- ❑ Press the MENU button again to enter into the "Timer On" setting.
- ❑ Press the ⏸ button 2-3 times to exit the 7 DAY mode. The words "7 DAY" should disappear from the display.

Note : - To override the 7 DAY program, press v button and hold for at least 5 seconds.
The words "7 DAY" should start blinking on the display.
- To deactivate the override, press the ^ button and hold for at least 5 seconds.

4. OPERATING GUIDE & PRECAUTIONS

4.1 OPERATING GUIDE

The temperature should not be set above or below what you need. Otherwise it will result in increased energy costs.

Clean the air filter every month for optimum efficiency.

Close windows and doors while operating the unit to save energy (and prevent leakage of conditioned air).

Draw curtains closed or close glass windows when cooling to prevent heat load from sunlight which may increase electricity costs.

In case of ineffective ventilation, open the window to ventilate the room air once in a while, but not too long since cooled and/or heated air will be unnecessarily removed.

4.2 PRECAUTIONS

Check electrical system (voltage and frequency). Use the proper power supply indicated on the unit to operate the air conditioner and only fuse with specified capacity. Do not use pieces of wire instead of a fuse.

Turn the switch off at the main power supply if you do not intend to use the unit for a long period of time.

Do not insert objects into the air inlet or outlet when the air conditioner is running as this may cause damage or personal injury. Also pay special attention when children are around.

Ensure there are no obstacles blocking the air flow direction of either the indoor or the outdoor unit. This may cause the unit to malfunction or may result in the unit performing inefficiently.

Do not channel the air flow directly at people, especially infants, aged persons, or patients.

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 unit.

5. WHAT TO CHECK BEFORE YOU MAKE A SERVICE CALL

When you contact your Dealer regarding service or warranty, please quote the cooler model number and serial number as shown on the back page of this manual

PROBLEM	CAUSES
The unit won't turn on	<p>Check if the electrical wire is damaged & whether the breaker switch is still on.</p> <p>Check the power supply is in order.</p> <p>Check the timer switch is on.</p>
The air conditioner runs, but the air does not feel cool enough	<p>Check whether the preset temperature is "too high" and adjust accordingly.</p> <p>If the sunlight shines directly into the room, you may like to close the curtains.</p> <p>If the doors and windows are open, you may like to close them to prevent cool air from escaping.</p> <p>Check if there is anything obstructing the air discharge and rectify it.</p> <p>Check that the fan is still operating.</p> <p>Check whether the air filter is dirty or clogged.</p>
Vapour or mist coming out of the unit while it's running.	<p>The unit is operating normally.</p> <p>Hot air in the room mixes with cool air which causes vapour.</p>
The wall control isn't working	<p>Check if the wire between the unit and the receiver is loose or whether it is disconnected. This may need to be repaired.</p> <p>Check if the batteries are inserted correctly.</p> <p>Check if the batteries are flat.</p>

If any of the below error codes appears please call Seeley International service on 1300 526 477

Error code	Description	LED Power blinking
Er : 03	Compressor overload protection	yes
Er : 04	Anti overheat protection	yes
Er : 05	Room sensor error	yes
Er : 06	Deice sensor error	yes
Er : 07	Freeze sensor error	yes
Er : 08	Protection & Alarm Damper	yes

6. SAFETY INSTRUCTIONS FOR INSTALLATION AND MAINTENANCE

Your unit **must** be installed by a qualified, licensed installer.

Please read this manual carefully. Your failure to do so could result in injury to you or damage to the cooler and property. Disconnect electrical power at the fuse or circuit breaker box before you begin installing the cooler. Always comply with your local Occupational Health and Safety regulations.

Guide for Safe Working at Heights

Employers' & Employee's Responsibilities

The installation and maintenance of coolers has the potential to create Occupational Health and Safety issues for those involved. Installers (and qualified licensed technicians who carry out service/maintenance to the cooler) are advised to ensure they are familiar with the relevant State and Federal legislation, such as Acts, Regulations, approved Codes of Practice and Local Standards, which offer practical guidance on these health and safety issues. Compliance with these regulations will require appropriate work practices, equipment, training and qualifications of workers.

Seeley International provides the following information as a general guide to contractors and employees to assist in minimising risk whilst working at heights, although it should not be taken as a substitute for understanding and adhering to relevant laws.

Risk Assessment

A risk assessment of all hazardous tasks is required under legislation. There is no need for this to be a complicated process, it just is a matter of looking at the job to be done and considering what action(s) are necessary so the person doing the job does not injure themselves.

This should be considered in terms of:

- What are the chances of an incident happening?
- What could the possible consequence be?
- What can you do to reduce, or better still, completely eliminate the risk?

Some points to consider if accessing the roof:

- What is the best and safest access to the roof and working areas?
- If a worker is alone, who knows they are there and if they get into difficulty, how can they summon help? (Call someone on the ground? Mobile phone etc.)
- What condition is the roof in? Should the trusses, underside or surface be checked?
- Does the worker have appropriate foot wear? (Flat sole jogger type is advisable)
- Are all power cables / extension leads safe and appropriately rated?
- Are all ladders, tools and equipment suitable in good condition?
- Where ladders are to be used, is there a firm, stable base for them to stand on? Can they be tied or secured in some way at the top?
- Is there a roof anchor to attach a harness and lanyard to? If so, instruction should be issued for the use of an approved harness or only suitably trained people used?
- Does the work schedule take into account weather conditions, allowing for work to be suspended in high winds, thunder storms/lightning or other types of weather giving wet, slippery surfaces.
- Is there an on-going safety check system of harnesses, ropes, ladders and access/lifting equipment and where they exist on roofs, anchor points before the commencement of work?
- Is there a system which prevents employees from working on roofs if they are unwell or under the influence of drugs or alcohol? Are there any special conditions to consider i.e. excessive power lines?

7. INDOOR UNIT INSTALLATION

7.1 SELECTION OF INSTALLATION LOCATION.

Place where water is easily drained out.

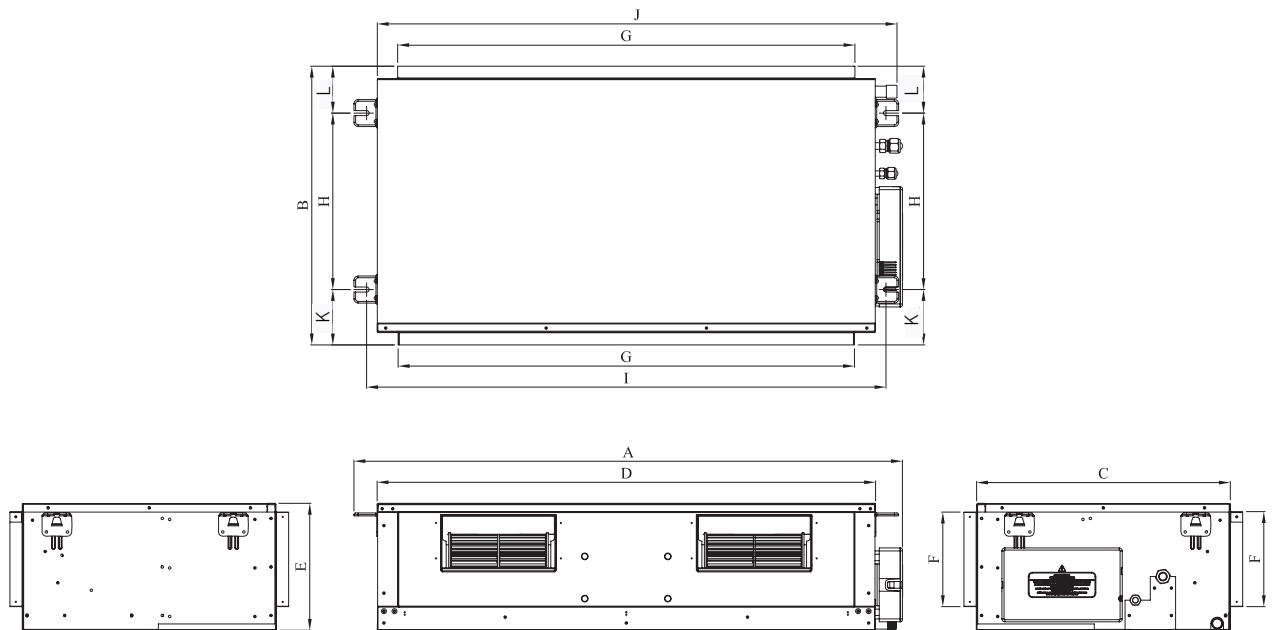
A place that can handle the weight of the indoor unit.

A place which has easy access for maintenance.

7.2 CAUTIONS FOR INSTALLATION WHERE AIR CONDITIONER TROUBLE IS LIABLE TO OCCUR.

Where there is contact with acid or bases.

Where there is irregular electrical supply.



MODEL	DIMENSION (mm)												Net Weight Kg
	A	B	C	D	E	F	G	H	I	J	K	L	
BD09A	1300	600	600	1180	300	224	1080	418	1231	1230	131	111	45
BD11A	1520	720	660	1400	360	284	1300	478	1451	1450	131	111	62
BD15A	1520	720	660	1400	360	284	1300	478	1451	1450	131	111	73
BD18A	1520	910	850	1400	440	364	1300	668	1451	1450	131	111	80
BD21A	1790	870	810	1650	440	365	1550	610	1790	1230	130	130	88
BD25A	1990	870	810	1850	440	365	1750	610	1990	1700	130	130	98

Remark : Supply & Return air dimension are F x G

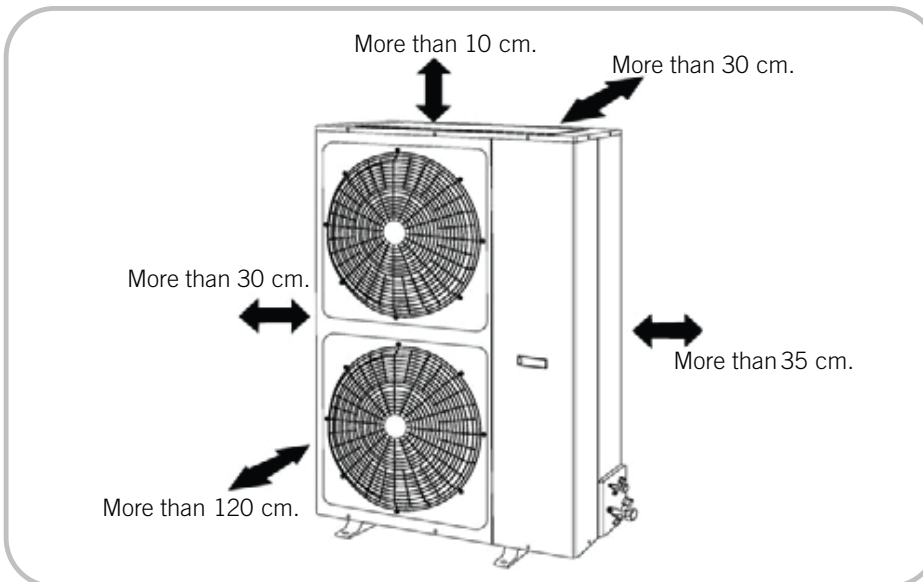
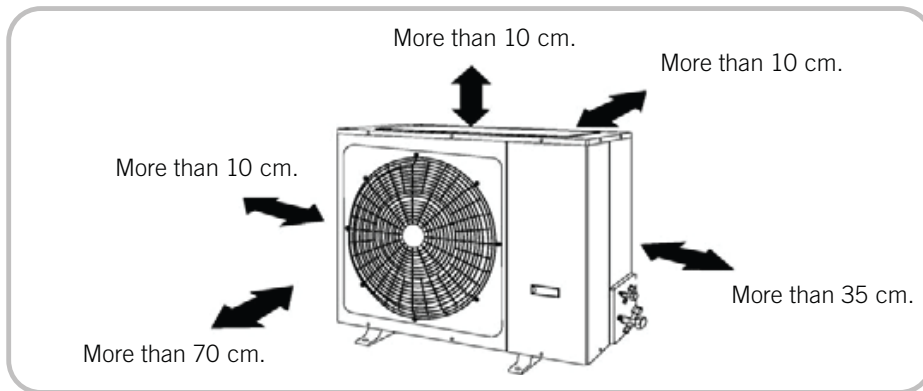
8. OUTDOOR UNIT INSTALLATION

8.1 WHERE TO INSTALL OUTDOOR UNIT:

- The foundation must be solid enough to bear the weight and vibration of the unit.
- The space around the unit must be adequate for ventilation.
- The location must not be close to any flammable gases.
- The location must be sufficiently isolated so that the running noise and the hot exhaust air do not disturb the users or their neighbours.
- The location must allow for easy access to check and maintain the unit in future years
- There must be adequate space around the unit, as shown by the diagrams below.

IMPORTANT:

Local Council noise regulations and other relevant laws must be complied with when deciding where to locate the air conditioner.



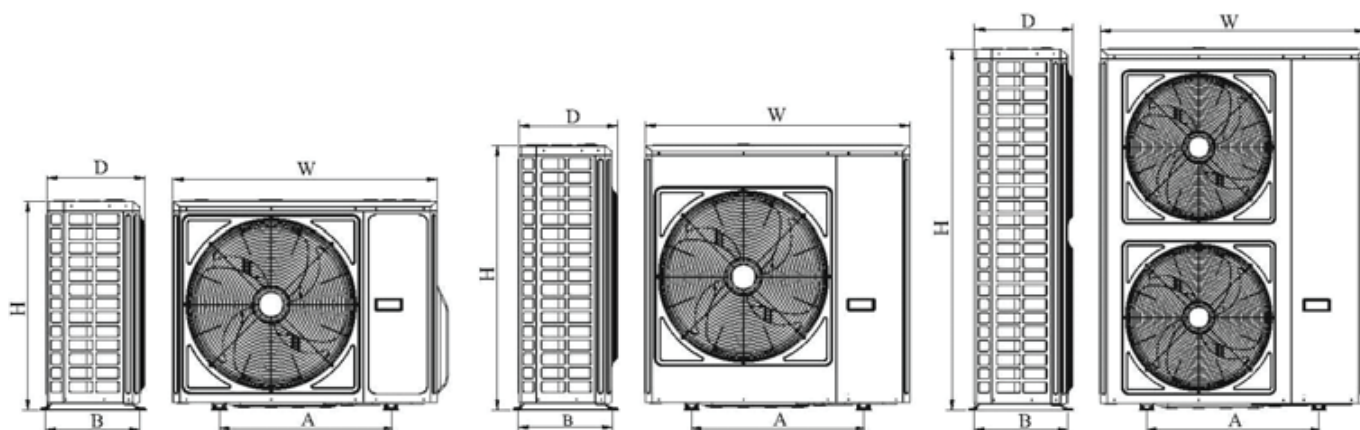
⚠ CAUTION

Installation in the following locations may cause problems.

If it is unavoidable to use such location, consult with your distributor or dealer.

- where machine oil is present.
- salty locations i.e. very close to the seashore.
- where sulphur gas is present.
- where high-frequency waves are generated by radio equipment, welder or medical equipment.

8. OUTDOOR UNIT INSTALLATION CONT.



MODEL	DIMENSION (mm)					Net Weight kg
	D	W	H	A	B	
BC09A	390	1008	760	630	350	80
BC11A	390	970	970	630	350	90
BC13A	390	970	1316	630	350	102
BC15A	390	970	1316	630	350	106
BC113A	390	970	970	630	350	78
BC153A	390	970	1316	630	350	106
BC183A	390	970	1474	630	350	130
BC213A	390	1150	1552	766	550	148
BC253A	390	1150	1552	766	550	172

9. PIPE PREPARATION

9.1 PIPE CUTTING

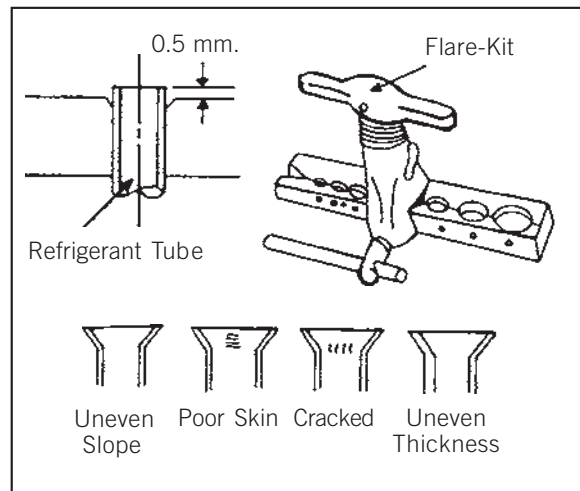
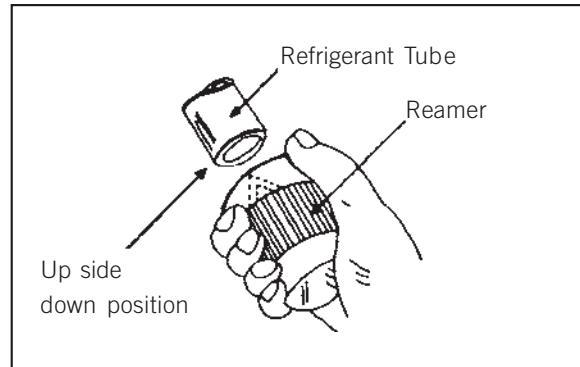
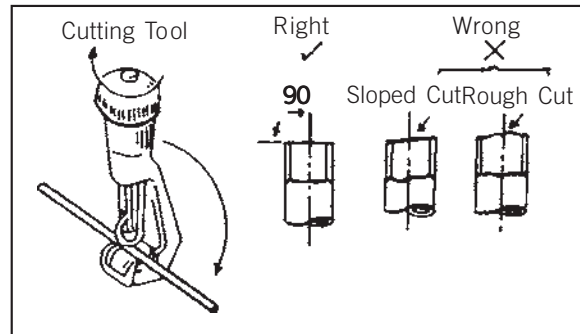
Use cutting tools easily found in the market. Measure pipe precisely. Provide a little bit longer pipe than the measurement.

9.2 REAMING

Clean the inside of the refrigerant tube. While reaming, the tube end must be on the top of the reamer to prevent any dust going back into the tube.

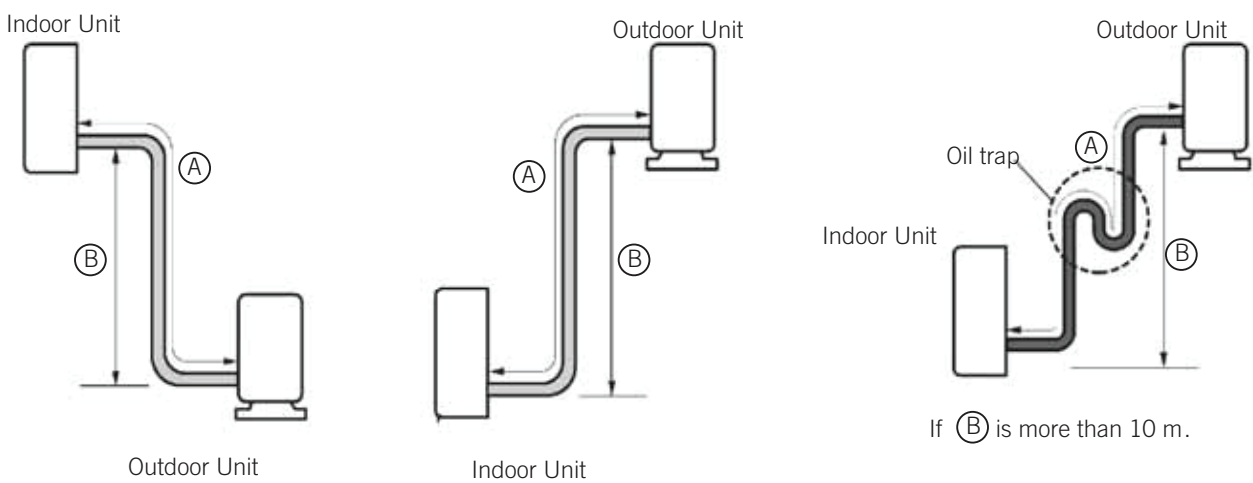
9.3 FLARING THE PIPE END

Flare both ends of the pipe with flaring kit by fitting the flare nut on the pipe before flaring. Set the die on the pipe so that pipe end is 0.5 mm above top of the die. Check if the pipe end is even and perfectly round.



10. PIPING LENGTH AND ELEVATION

Model No.	Pipe Size (Diameter : Ø)				Maximum pipe length	Minimum pipe length	Maximum vertical separation	Pre-Charge length	Refrigerant charge adjustment
	Gas		Liquid						Add if over 12m Remove if less than 12m
	(inch)	(mm)	(inch)	(mm)	m	m	m	m	g/m
BC09A	5/8"	15.88	3/8"	9.52	30	3	15	12	50
BC11A BC113A	5/8"	15.88	3/8"	9.52	30	3	15	12	50
BC13A	3/4"	19.05	1/2"	12.70	30	3	15	12	100
BC15A	3/4"	19.05	1/2"	12.70	30	3	15	12	100
BC153A	3/4"	19.05	1/2"	12.70	30	3	15	12	100
BC183A	3/4"	19.05	1/2"	12.70	30	3	15	12	100
BC213A	7/8"	22.22	1/2"	12.70	50	5	15	12	100
BC253A	1 1/8"	28.58	1/2"	12.70	50	5	15	12	100



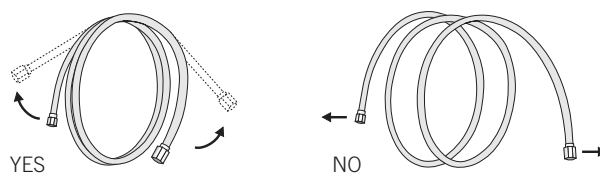
! CAUTION:

- Capacity is based on standard length and maximum allowance length is on the basis of reliability.
- Oil trap should be installed every 10 metres in vertical pipe.

11. PIPING CONNECTION

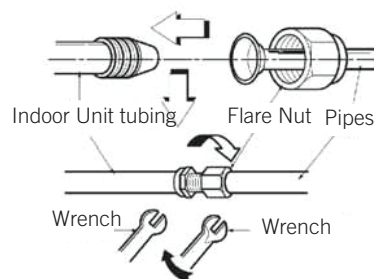
11.1 CONNECTING THE PIPES

- Do not remove the cap from the pipes until just before connecting them. This is to prevent humidity or dirt from entering the pipes.
- If a pipe is bent too many times, it will become stiff: do not bend the same part of the pipe more than 3 times. When unwinding the pipe, be careful not to pull it. Unroll it as shown in the figure.



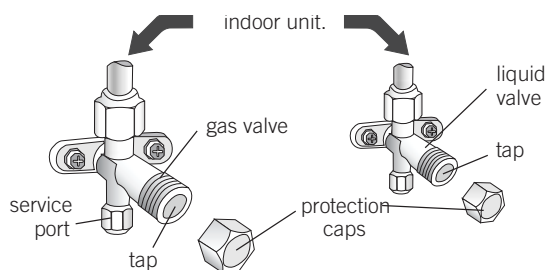
11.2 CONNECTION TO THE INDOOR UNIT

- Bend the connection pipes following the correct path.
- Remove the flare nut from the indoor unit piping (check that there is no debris inside).
- Insert the flare nut and apply the flare at the end of the connection pipe.
- Connect the pipes using two wrenches.



11.3 CONNECTION TO THE OUTDOOR UNIT

- Tighten the flare nut to the piping ports of the outdoor unit with the same tightening method as that used for the indoor unit.
- To prevent leakages pay special attention to the following points:
 - Tighten the connectors using two wrenches. Take care not to damage the pipes.
 - If the tightening torque is not sufficient, there will probably be leakages. If the torque is too great, there could be leaks because it is easy to damage the flange.
 - The safest way to tighten the connection is to use a standard wrench and a torque wrench: in this case, use the following table.



Pipe Size	fastening torque (kgf*m)
1/4" (6.35 mm)	1.8-2.5
3/8" (9.52 mm)	3.4-4.2
1/2" (12.7 mm)	5.5-6.6
5/8" (15.9 mm)	6.3-8.2
3/4" (19.0 mm)	9.9-12.1
7/8" (22.2 mm)	9.9-12.1
1-1/8" (28.6 mm)	12.4-14.7

Note: Connect the pipes with connector set by soldering for gas pipe size greater than (Ø 7/8"/22.2 mm)

Note:

Indoor unit is charged with dry nitrogen. Please check indoor unit is sound by depressing the schraeder valve adjacent to vapour line on indoor unit prior to placing it in its final location.

- If dry nitrogen is present, unit is ok to install.
- If dry nitrogen is not present, unit may have a leak. Please do not install. Contact Seeley International Services on 1300 526 477 for advice.

12. AIR PURGING AND CHECKING FOR PIPE LEAKAGE

12.1 AIR PURGING & PRESSURE TEST

The purpose of air purging is to get rid of moisture and air in the system, otherwise moisture and air will cause ineffectiveness of the compressor which directly affects the cooling and heating capacity.

We recommend pressure testing the field installed pipes to a target pressure of 4.05 MPa for a period of no less than 2 hours using dry nitrogen. Only if field pipes are sound, continue to 12.2. If leakage is noticed, repair leaks and retest.

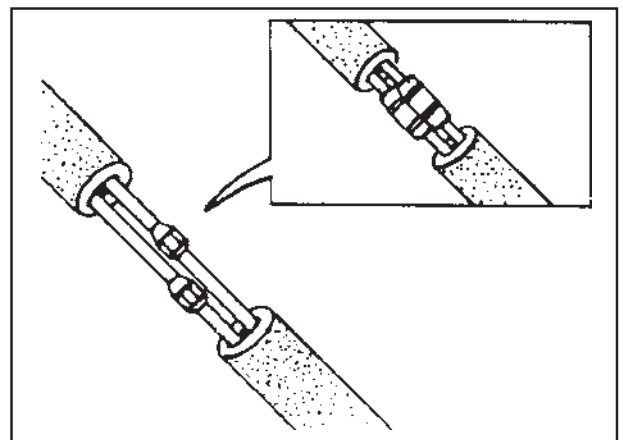
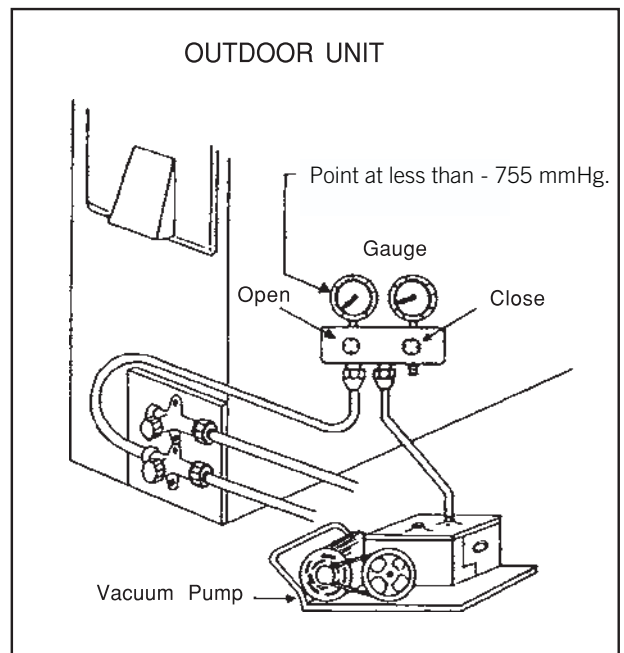
12.2 PURGING BY USING VACUUM

After tightening the flare nuts between the indoor and the outdoor units:

- Remove a blank cap of a three-way valve by using a torque wrench. Check if both high pressure and low pressure valves are in closed condition.
- Remove the nut of the service port.
- Connect a gauge into the service port and a vacuum pump.
- Release dry nitrogen carefully
- Vacuum indoor unit and connecting pipe until the gauge indicates at less than - 755mmHg (-0.1MPa)
- Hold vacuum for 15 minutes
- If required add additional refrigerant
- Remove gauge. Tighten up the nut of the service port.
- Use a hexagonal wrench to open both high pressure and low pressure valves to the end (counter clockwise).
- If required remove charge if field installed pipe is less than 12m
- Tighten the blank cap of the three-way valve.

12.3 GAS LEAKING CHECK

- Check leakage by apply soapsuds to every connection and inspect carefully. After checking, wipe them off completely.
- Cover indoor unit joint with pipe insulation and plastic bands to prevent condensation at joints.



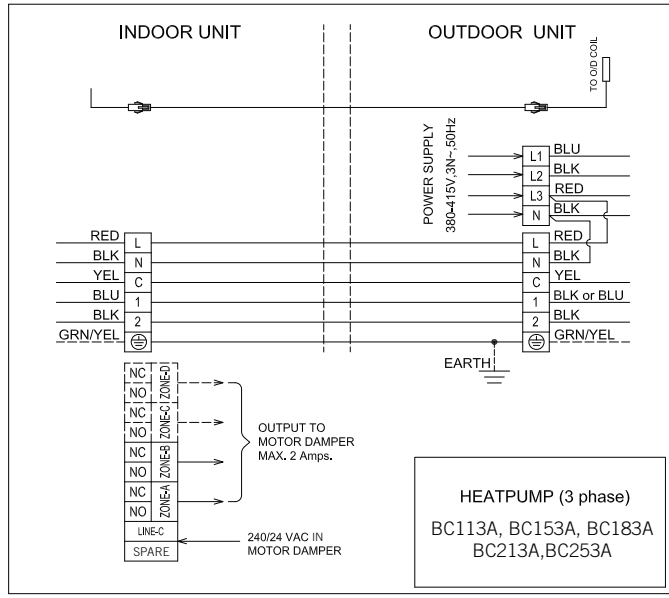
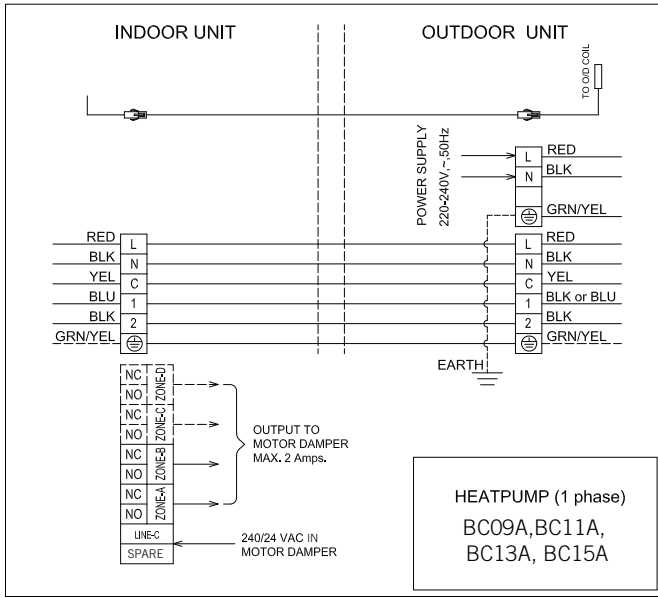
13. WIRING DIAGRAM

- Wiring is to be done as shown in the electrical wiring diagram (Do not change the internal wiring)
- Use copper conductors only.

- How to tighten screw on terminal block:
 1. Bare the ends of electric wire.
 2. After retaining the wire, check that all the terminal screws are firmly tightened.

CAUTION: appliance shall be installed in accordance with local and national wiring laws and regulations.

CAUTION: A breaker should be incorporated into the fixed wiring. The breaker should be all-poles witch and the distance between its two contacts should be not less than 3mm.



RECOMMENDED MINIMUM WIRE SIZE

MODEL	Power Supply for Outdoor Unit	Inter-Unit Wiring	Suggested Fuse or Breaker Capacity*	Running current Cool / Heat
	(mm ²)	(mm ²)		
BC09A	4	2.5	25 A	12.60 / 12.00
BC11A	4	2.5	30 A	15.20 / 13.90
BC113A	2.5	2.5	25 A	5.35 / 4.90
BC13A	4	2.5	30 A	20.50 / 18.40
BC15A	4	2.5	30 A	22.50 / 21.00
BC153A	2.5	2.5	25 A	7.65 / 6.45
BC183A	2.5	2.5	25 A	9.25 / 8.30
BC213A	4	2.5	30 A	12.60 / 10.15
BC253A	4	2.5	30 A	15.00 / 14.30

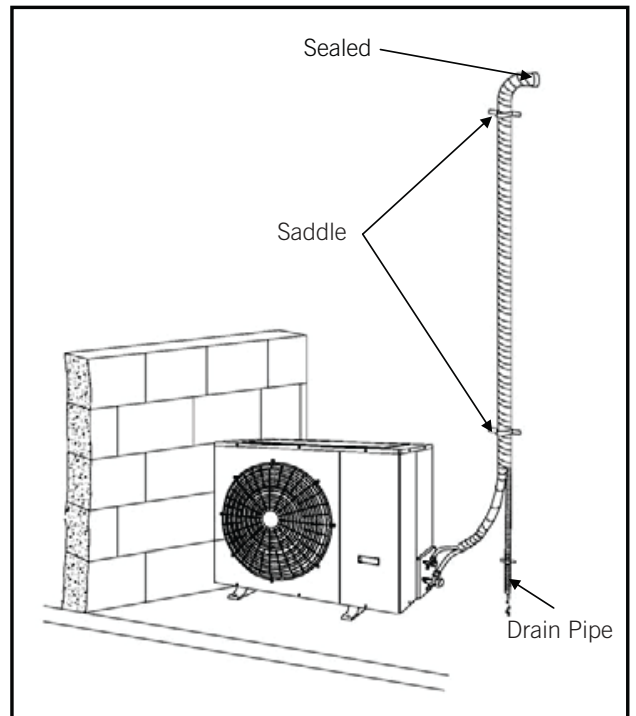
CAUTION: * All wiring shall be carried out by licensed electricians in accordance to AS/NZS 3000 (wiring rules).

14. REFRIGERANT PIPE AND DRAIN PIPE

IF THE OUTDOOR UNIT IS INSTALLED

LOWER THAN THE INDOOR UNIT (picture 1)

1. A drain pipe should be above ground and the end of the pipe should not dip into water. All pipes must be restrained to the wall by saddles.
2. Taping of the pipes must be done from bottom to top.
3. All pipes are bound together by tape and restrained to the wall by saddles.

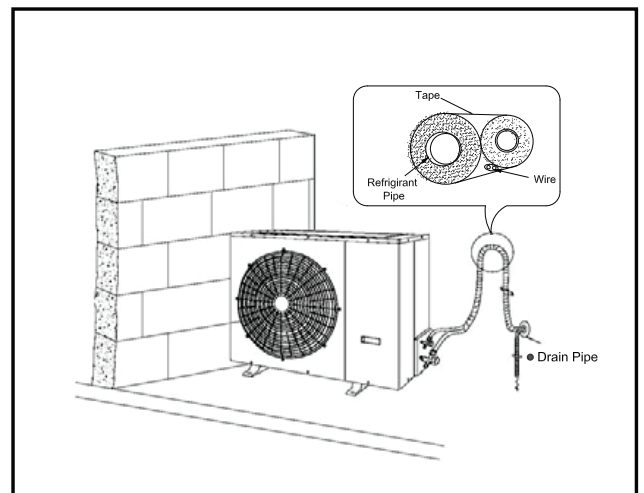


Picture 1

IF THE OUTDOOR UNIT IS INSTALLED

HIGHER THAN THE INDOOR UNIT (picture 2)

1. Taping should be done from lower to upper part.
2. All pipes should be bound and taped together and trapped the pipes to prevent water returning to the room (see picture).
3. Restrain all pipes to the wall with saddles.

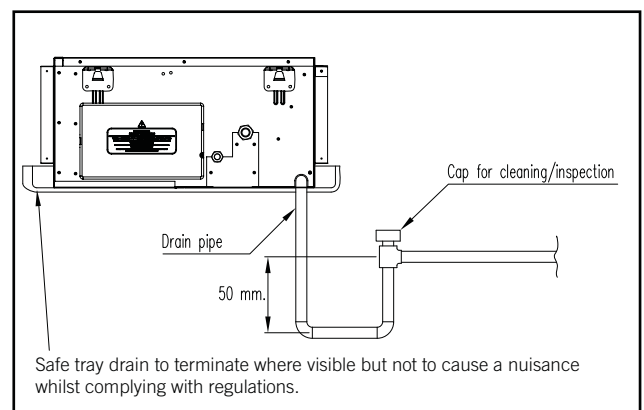


Picture 2

INDOOR UNIT DRAIN (picture 3)

NOTE : It is recommended to install a safe tray underneath the indoor unit.

NOTE : Refrigerant, indoor unit drain pipes and outdoor unit drainage must comply with local and national laws and regulations.



Picture 3

15. TEST RUNNING

1 . RUN TEST

Check electrical main wire's voltage.

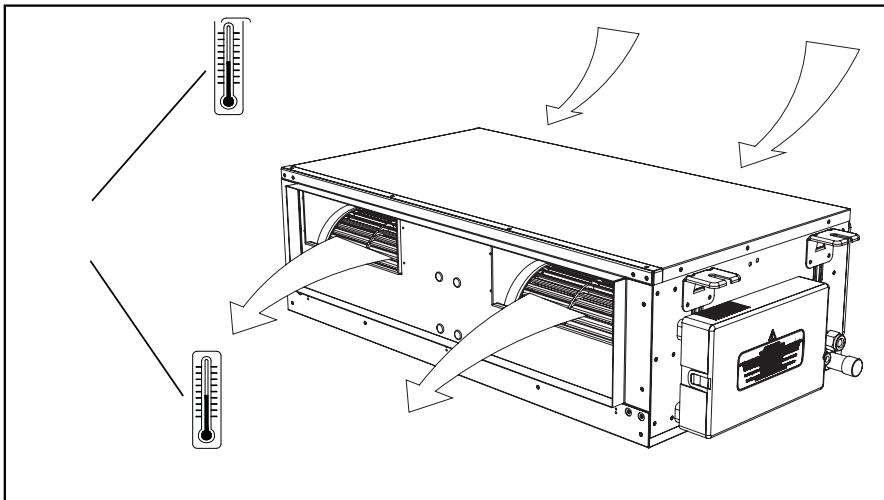
Run the air conditioner for 15 minutes or more. Check the electrical current with ammeter and compare with the specifications.

2 . EVALUATION OF THE PERFORMANCE

Check electrical main wire's voltage.

Use a thermometer to measure cool air both in and out.

The difference between in-air and out-air temperature should not be less than 8°C



■ Check for installation and test run

Please kindly explain to the Home Owner how to operate the unit using the instruction manual.

Check items for test run

Put check mark ✓ in boxes

- Gas leak from connecting pipe?
- Heat insulation of connecting pipe?
- Are the indoor and outdoor connecting wires firmly inserted to the terminal block?
- Is the connecting wiring of indoor and outdoor firmly fixed?
- Is drainage securely carried out?
- Is the earth line securely connected?
- Is the indoor unit securely fixed?
- Is power source voltage abided by the code?
- Is there any noise?
- Is the indicator lamp lit?
- Are cooling and heating (when in heat pump) performing normally?
- Is the operation of room temperature adjustment normal?

16. MAINTENANCE SCHEDULE

Your air conditioner is designed and built with reliable components to provide years of trouble free dependable service. As stated earlier, it is a condition of your warranty cover that you comply with the maintenance and service requirements set out in this Owner's Manual, and further, that the Schedule below is filled out (by signing and dating it in the places indicated) when the item is completed.

PLEASE NOTE:

You will see that the Schedule covers Year 1 to Year 5. To preserve your investment for many years afterwards, we strongly recommend that you continue to maintain and service the unit, as per the items and frequency set out in the Schedule, and as indicated elsewhere in this Owner's Manual.

Checks to be completed by the Home Owner (please sign or initial in the space provided to indicate the check has been completed)							
	MONTHLY	ANNUALLY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Air filter cleaning	✓						
Air filter replacement		✓					
Replace batteries (for units with a remote control)		✓					
Maintain required clearance around outdoor unit (see page 13)		✓					

Checks to be completed by a Qualified Licensed Technician (please ensure the Technician signs and fills out the details required in the space provided below)				
				ANNUALLY
Check, clean or replace filter				✓
Check indoor fan				✓
Check condensate drains and clean				✓
Check outdoor unit				✓
Check refrigerant charge				✓
Check pipe and wire covers				✓
Check integrity of refrigerant connections				✓
Check fans and fan motors				✓
Check integrity of electrical connections				✓
Check ductwork (connections, zone dampers, supports)				✓
Check overall installation				✓
Report to the home-owner all tasks that require attention				✓
Installation	Date:		Contractor:	
Maintenance	Year 1	Date:	Technician:	
	Year 2	Date:	Technician:	
	Year 3	Date:	Technician:	
	Year 4	Date:	Technician:	
	Year 5	Date:	Technician:	

Air Filter

It is important to check air filters as per the above schedule and replace as necessary. A dirty air filter will not allow the correct amount of air to pass through the cooling/heating coil, which will reduce the rated capacities, and adversely affect the refrigerant temperature and the overall operation of your air conditioner.

Indoor Coil

When the air filter is cleaned as recommended above, the indoor coil will require minimal cleaning. Cleaning the air filter as recommended will assist in maximising the life span of the indoor coil. A properly working coil is essential for effective heat transfer.

Outdoor Coil

The outdoor coil is required for effective heat transfer between the air conditioner and the external environment. If the external environment air is dirty the frequency of cleaning should be increased, and if necessary, more regularly than the recommended intervals. If in doubt, contact a qualified and licensed technician for advice.

Refrigerant

The refrigerant is the "blood line" of the air conditioning system, the air conditioner will work efficiently and effectively with the correct amount of refrigerant charge. Systems that run short on refrigerant charge may eventually cause a compressor burn out.

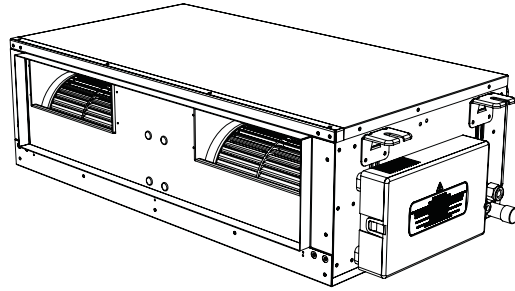
17. MAINTENANCE

CLEANING THE INTERNAL AIR FILTERS

Before inspection and maintenance of the unit, always set the main power switch to "OFF" to cut off power supply.

Remove the air filter; clean it with a vacuum cleaner or if it is very dirty, wash it with soapy water then wipe off until it is completely dry before reinstallation.

*To locate the air filter, see the next page.
Alternatively consult your installer.



WARNING:

- *If the air filter is dirty, it will cause airflow reduction, overload the indoor fan and compressor and consume more electricity.*

AT THE START OF THE SEASON

- Check that nothing blocks the air inlet and outlet of indoor and outdoor units. (See page 4 for location of these items on the outdoor unit.)
- Running the unit without an air filter can cause malfunctions due to dirt or dust. Have an air filter in place at all times.
- Check that the drain pipe is not obstructed or clogged. (See page 4 and page 20 for location of this item.)

DURING THE OFF SEASON

- Cut off the power supply main switch, if not using for heating.
- Clean the air filter and other parts as indicated in the Maintenance Schedule.
- Leave the circulation fan running for 2-3 hours to dry out the inside of the unit.


18. IMPORTANT:

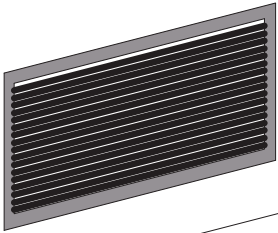
Your air filter requires regular cleaning. (Please refer to Section 17 Cleaning the Internal Air Filters on page 23 and to the Maintenance Schedule on page 22 of this booklet).

The cleaner your air filter, the more energy efficient your air conditioner will be.

If you do not have a ducted system, then the air filter will usually be in the indoor unit. For a ducted system, the air filter will usually be fitted by the installer in the return air register (i.e. the return air grille). Instructions on where to find the air filter should be provided by the installer, as set out below.

Your filter is located as follows:

Ceiling:	<input type="checkbox"/>	
Room:	
Step Ladder Required:	Yes / No	

Wall:	<input type="checkbox"/>	
Room:	
Step Ladder Required:	Yes / No	

Other:	<input type="checkbox"/>
Room:
Description by installer	

When you contact your Dealer regarding service or warranty please quote the cooler model number and serial number as shown below.

Insert indoor unit sticker here

Insert outdoor unit sticker here



Warranty Service
Australia 1-300-526-477
seeleyinternational.com

It is the policy of Seeley International to introduce continual product improvement. Accordingly, specifications are subject to change without notice. Please consult with your dealer to confirm the specifications of the model selected.

Braemar[®]
HEATING COOLING

by **SEELEY**[™]
INTERNATIONAL 

seeleyinternational.com