LENNOX MULTI SPLIT INVERTER AIR CONDITIONER

Installation Manual

Outdoor Unit - Series 4

CONTENTS

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

Children should be supervised to ensure that they do not play with the appliance.

Please read this manual carefully before operating the unit and keep it in a safe location for future reference.

Installation or maintenance should always be conducted by an authorized dealer or local service centre.

Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.

This marking indicates that this product should not be disposed with other household wastes throughout Australia. To prevent possible harm to the environment or human health from uncontrolled waste disposal recycle it responsibly to promote the sustainable reuse of material resources. To return your used device please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

The design and specifications here within are subject to change without notice for product improvement. Please consult with Customer Service for further details.

Applicable to Model Numbers:

- LNMT100V4
- LNMT114V4

1.0. PREFACE

Please carefully read this manual before installation and operation. When reading this manual, please be aware of the following key user notices:

- This unit measures based on AS/NZS 60335.2.40:2006
- For your personal safety when operating this system, always follow the instructions in the manual.
- The total capacity of the indoor units which runs at the same time cannot exceed that of the outdoor units; otherwise the cooling (heating) performance of each indoor unit will be affected.

Table 1: Minimum and Maximum Number of Connectable Units

Model	LNMT100V4	LNMT114V4
Minimum number of connectable indoor units	2	2
Maximum number of connectable indoor units	4	5
Minimum capacity of connectable indoor units	18	18
Maximum capacity of connectable indoor units	48	51

- Switch the main power on 8 hours before starting the unit for a successful startup.
- It is a normal operation that the indoor unit fan will still run for 20~70 seconds after the indoor unit receives the “stop” signal to make full use of after-heat for the next operation.
- When the running modes of the indoor and outdoor units are in conflict, this will be indicated on the wired controller display for five seconds and then the indoor unit will stop. The unit will return to normal operation by harmonizing their running modes: the cooling mode is compatible with the dehumidifying mode and the fan mode can operate in all modes. If the supply power fails when the unit is running, the indoor unit will send the “start” signal to the outdoor unit three minutes after power recovery.

2.0. SAFETY PRECAUTIONS

2.1. Explanation of Symbols

DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
CAUTION	Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.
NOTICE	Indicates important but not hazard-related information, used to indicate risk of property damage.
	Indicates a hazard that would be assigned a signal word WARNING or CAUTION.

2.2. Operation and Maintenance

- Follow these instructions during the installation process. Please carefully read this manual before unit startup and service.
- Installation should only be conducted by authorized dealer or qualified personnel. Do not attempt to install the unit by yourself.
- Improper handling may result in water leakage, electric shock or fire.
- Before installation, please check if the power supply is in accordance with the requirements specified on the nameplate.
- Ensure local and national codes, standards and regulations are followed.
- Make sure the unit is correctly earthed prior to powering the unit to avoid electric shock.
- Do not connect the ground wire to a gas pipe, water pipe, lightning rod or telephone line.
- Only use genuine authorised accessories and parts, to minimise the risk of water leakage, electric shock and fire accidents.
- If refrigerant leakage occurs during installation, ventilate the area immediately. Keep away from people. Keep away from sparks and naked flames.

- Ensure a correctly sized power cord is used. Never use a damaged power cord or connection wire. The connection wire should be replaced by exclusive cable.
- After connecting the power cord, ensure the electric box cover is properly secured to avoid potential accidents.
- Always comply with the nitrogen charge requirements. Charge nitrogen when welding pipes.
- Never short-circuit or cancel the pressure switch to prevent unit damage.
- Always connect the wired controller prior to supplying power to the unit.
- Prior using the unit, always conduct an inspection to ensure the piping and wiring are connected correctly to avoid water leakage, refrigerant leakage, electric shock, or fire.
- Never insert fingers or objects into air outlet/inlet grille.
- Open doors and windows to provide good ventilation in the room to avoid oxygen deficit when the gas/oil supplied heating equipment is used.
- Never start up or shut down the air conditioner by means of directly plug or unplug the power cord.
- Only turn off a unit if it has been running for at least five minutes; otherwise it will influence oil return of the compressor.
- Do not allow children to operate this unit.
- Do not operate this unit with wet hands.
- Turn off the unit or cut off the power supply before cleaning the unit, otherwise electric shock or injury may occur.
- Never spray or flush water towards unit, otherwise malfunction or electric shock may occur.
- Do not expose the unit to a moist or corrosive environment.
- Ensure the unit has been powered at least 8 hours before operation. Do not cut off the power when 24 hours short-time halting (to protect the compressor).
- Volatile liquids, such as diluent or gas will damage the unit appearance. Only use soft cloth with a little neutral detergent to clean the outer casing of the unit.
- Under cooling mode, do not set the room temperature too low and keep the temperature difference between the indoor and outdoor unit within 5°C.
- If the unit is operating abnormally (e.g. burning smell), power off the unit and cut off the main power supply. Contact the authorised service centre or dealer.
- Never attempt to fix the unit yourself, as this may result in electric shock, injury or damage to the unit. Always use an authorised service centre or dealer.

3.0. PRODUCT INTRODUCTION

- The Lennox Multi Split Inverter Series 4 incorporates inverter compressor technology. This stepless operation can vary the capacity within range of 15% to 120%. The multi split inverter is ideal for both residential and commercial applications.

3.1. Name of the Main Parts

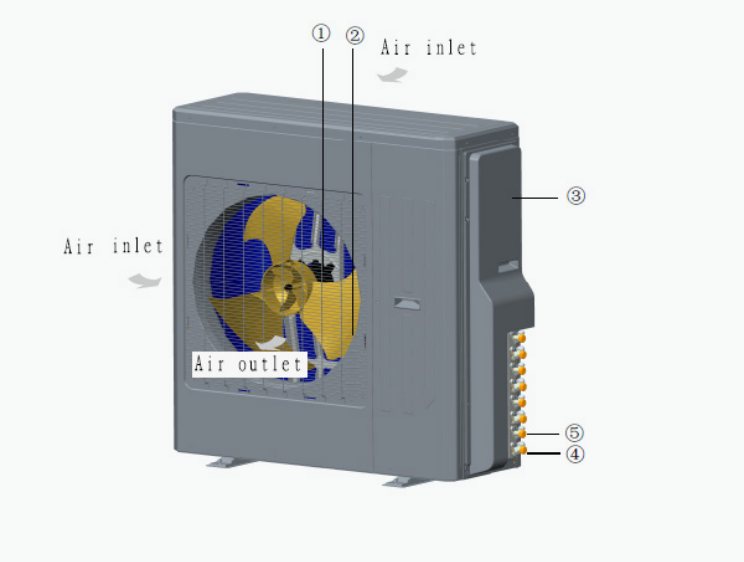


Figure 1: Outdoor Unit Model LNMT100V4 / LNMT114V4

Table 1: Parts List

Part	Description
1	Motor
2	Fan
3	Electricity Box
4	Gas Valve Assembly
5	Liquid Valve Assembly

NOTICE:

- The above figures are only intended to be a simple diagram of the appliance and may not correspond to the appearance of the units that have been purchased.

3.2. Combinations for Outdoor and Indoor Units

- See Figure 2 for combinations of outdoor and indoor Units. For the Multi Split System, one outdoor unit can be connected to up to five indoor units (wall split, cassette, or slim line ducted). The outdoor unit will run if any one indoor unit receives the running command, and all indoor units stop once the outdoor unit is turned off.

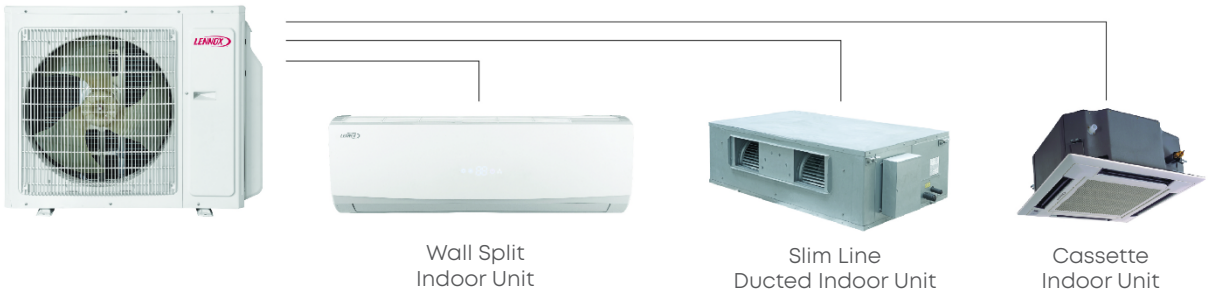


Figure 2: Combinations for Outdoor and Indoor Units

Table 2: Indoor Unit Energy Level and Capacity

Indoor unit	Model	Capacity (kW)	Outdoor unit
Wall Split	LNINVE025V4	2.5	LNMT100V4 LNMT114V4
	LNINVE035V4	3.5	
	LNINVE052V4	5.2	
	LNINVE071V4	7.1	
	LNINVE085V4	8.5	
Cassette	LNMTCAS035V4	3.5	LNMT100V4 LNMT114V4
	LNMTCAS050V4	5.0	
	LNMTCAS071V4	7.1	
Slim Line Ducted	LNMTDSS035V4	3.5	
	LNMTDSS050V4	5.0	
	LNMTDSS060V4	6.0	
	LNMTDSS071V4	7.1	

3.3. Rated Working Conditions

Table 3: Rated Working Conditions

	Indoor Side State		Outdoor Side State	
	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C
Rated Cooling	27	19	35	24
Rated Heating	20	15	7	6

NOTICE:

- The listed cooling and heating capacity is tested before outgoing.
- The parameters are tested under rated working conditions. Refer to name plate for any amendments to test results.
- The parameters of heating capacity of indoor unit for heat pump exclude that of auxiliary electric heating power.
- The performance parameters are tested according to standard AS/NZS 3823.2-2013.

3.4. Operating Temperature Ranges

Table 4: Operating Temperature Ranges

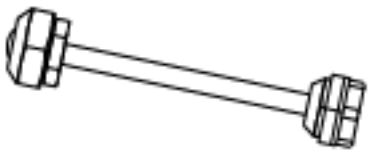
Model	Mode	Outdoor Temperature Range
LNMT100V4	Cooling	-7°C - 48°C
	Heating	-15°C - 24°C
LNMT114V4	Cooling	-7°C - 48°C
	Heating	-15°C - 30°C

4.0. PARTS

NOTICE:

- Prior to installation, ensure you have the following parts listed in Table 5.

Table 5: Parts Required for Installation

Number	Description	Picture	Quantity
2	Tube Connector Sub Assembly		6

5.0. INSTALLATION INSTRUCTIONS

5.1. Installation Location

WARNING

- Position the unit away from direct sunlight for optimum performance. Install the unit in a position away from dust and potential debris.
- Always position the unit away from combustible, flammable and corrosive gas or exhaust gas.
- Never allow children to approach the unit and take measures to prevent children touching the unit.

CAUTION

- Install the unit in a location that can support the weight of the unit. Ensure the unit is correctly anchored as per national and local regulations, codes and standards.
- Allow the recommended clearances around the unit to optimize heat exchange and service access.
- Keep the indoor and outdoor units as close as possible to minimise pipe length and bends.

5.2. Outdoor Unit Clearances

- When the outdoor unit is surrounded by walls, the installation space of the unit should be allowed as depicted in Figure 3.

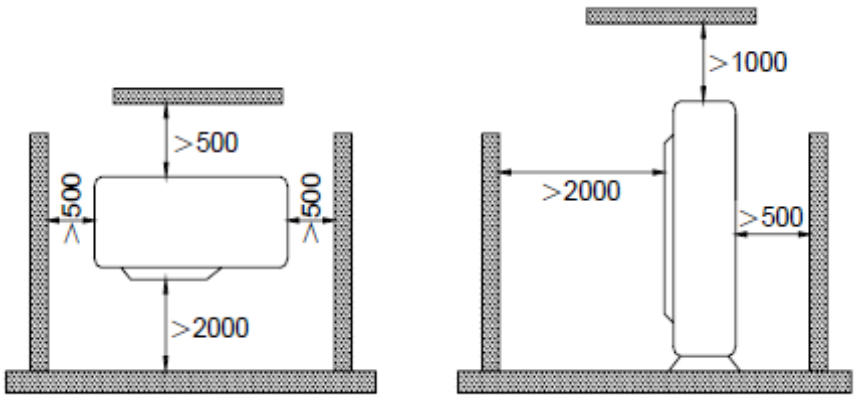


Figure 3: Outdoor Unit Clearances

5.3. Piping Connection

NOTICE:

- The maximum pipe length is shown in Table 6.
- Use waterproof insulating pipe.
- Wall thickness of pipe: 0.5mm - 1.0mm; bearing pressure: 3.0MPa
- The longer the connection of the pipe, the more colling and heating capacity will decrease.
- When the distance between units (piping length) is out of the range listed below, normal operation of the unit cannot be guaranteed.

Table 6: Piping Connection

Model	Connecting Pipe (mm)		Maximum Pipe Length (m)	Maximum Height Difference between Indoor and Outdoor Unit (m)
	Liquid	Gas		
LNMT100V4	Φ6.35	Φ9.52	75	15m
LNMT114V4	Φ6.35	Φ9.52	75	15m

5.4. Outdoor Unit Dimensions

LNMT100V4

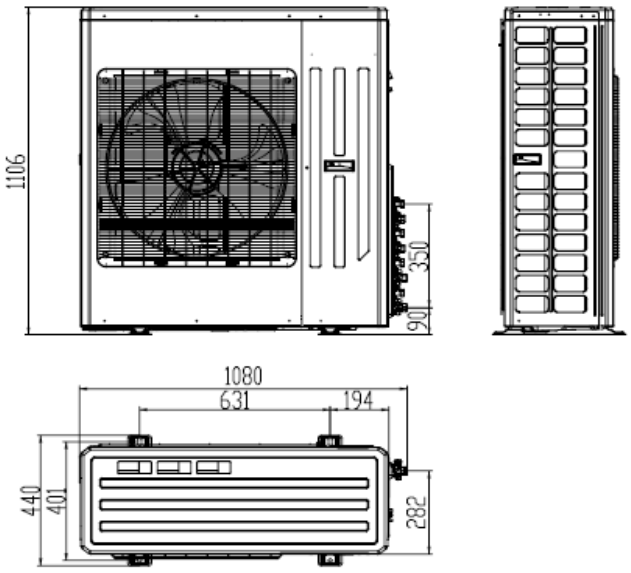


Figure 4: LNMT100V4 Outdoor Unit Dimensions

LNMT114V4

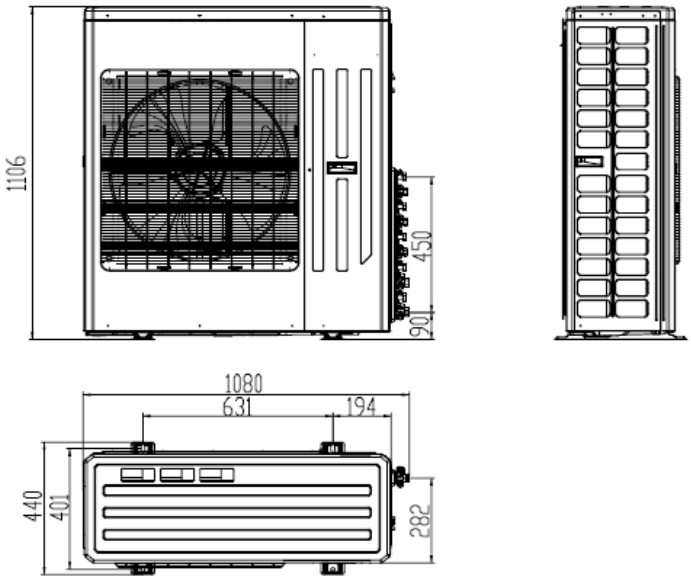


Figure 5: LNMT114V4 Outdoor Unit Dimensions

5.5. Installation of the Connection Pipe

- Connection piping for the indoor and outdoor units are depicted in manifold mode as per Figure 6.

Figure 6: Connection Piping (Manifold Mode)

5.6. Piping Between Indoor and Outdoor Units

1. Ensure the liquid and gas stop valves marked A, B, C, D and E are closed if they have not been connected to the indoor units.
2. Refer to Table 7 for the moments of torque for tightening screws.
3. Point the flare end of the copper pipe at the screw and tighten by hand.
4. Tighten using the appropriate torque wrench as shown in Table 7.
5. Use a pipe tube bender to bend the pipe. Ensure that the bend radius is not too small, otherwise cracks may occur resulting in leakage.
6. Wrap the exposed refrigerant pipe and the joints with insulation and then tighten them with plastic tape.

Table 7: Moments of Torque

Pipe Diameter (mm)	Thickness of Copper Tube (mm)	Tightening Torque (N·m)
Φ6.35	≥0.8 mm	15 - 30
Φ9.52	≥0.8 mm	35 - 40
Φ12.70	≥ 0.8 mm	45 - 50
Φ15.90	≥1.0 mm	60 - 65

CAUTION

- During the connection of the indoor unit and the refrigerant pipe, do not apply too much force to the joints of the indoor unit; as this may cause the capillary pipe or other pipes to crack and result in leakage.
- The refrigerant pipe should be supported by brackets.
- If the piping connection size of outdoor unit does not match the piping connection size of indoor unit, use the piping connection dimension of indoor unit. And use different-diameter joints at the piping connection to connect the indoor unit.

CAUTION

- For the Multi Split Inverter, each pipe should be labeled with the indoor unit details for easy reference and to avoid incorrect piping.

5.7. Allowable Pipe Length and Drop Height Between Indoor and Outdoor Units

NOTICE:

- If the total refrigerant pipe length (liquid pipe) is smaller than that listed in the table below, no additional refrigerant will be charged.

Table 8: Allowable Length and Drop Height of the Refrigerant Pipe

Model	Total Liquid Pipe Length (a+b+c+d+e) (m)
LNMT100V4	40
LNMT114V4	40

Table 9: Allowable Length and Drip Height of the Fitting Pipe

Model	Allowable Value				
	Total Actual Length of Fitting Pipe (m)	Length of Farthest Fitting Pipe (m)	Height Difference between Outdoor Unit and Indoor Unit (m)		Height Difference between Indoor Units (m)
			Outdoor Unit at Upper (m)	Outdoor Unit at Lower (m)	
LNMT100V4	75	25	15	15	7.5
LNMT114V4	75	25	15	15	7.5
Fitting Pipe	L1+L2+...+LM (M ≤5)	L1+L2+...+LM (M ≤5)	H1	H3	H2

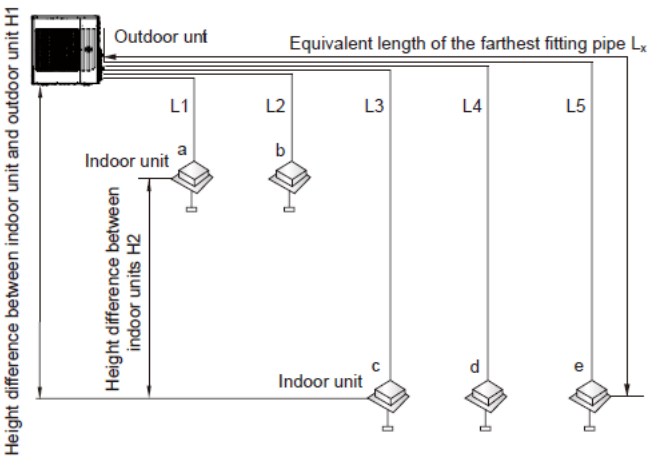


Figure 7: Height Differences between Outdoor and Indoor Units

5.8. Insulating the Refrigerant Pipe

- The refrigerant pipe should be insulated and taped to prevent condensation and water leakage.
- The joints of the indoor unit should be wrapped with the insulation material. Ensure there is no gap is on the joint of the indoor unit, as shown in Figure 8.

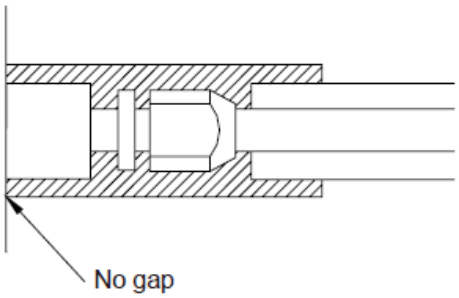


Figure 8: Insulating the Refrigerant Pipe

CAUTION

- Once insulated, ensure the pipe bend radius is not too small as this may cause the pipe to crack or break, resulting in leakage.
- Do not wrap the pipe too tightly or the insulation effect may be weakened. Additionally, make sure the drain hose is separated from the pipe.

To wrap the pipe with tape:

1. Bind the refrigerant pipe and electric cables together with tape and separate them from the drain pipe to prevent the condensate water overflowing.
2. Wrap the pipe from the bottom of the outdoor unit to the top of the pipe where it enters the wall. During the wrapping, ensure the tape will cover half of the former one.
3. Fix the wrapped pipe on the wall with clamps.
4. To finish, fill the hole in the wall with sealant to prevent wind and rain entering the room.

5.9. Support and Protection for Pipeline

1. Add additional supports for hanging connection pipe. The distance between each support must not exceed 1m.

6.0. AIR PURGING AND REFRIGERANT CHARGE

6.1. Air Purging

1. The outdoor unit has been pre-charged before shipment. Additional refrigerant charge may be required during the field installation.
2. Ensure the liquid valve and the gas valve of the outdoor unit are closed fully.
3. As shown in Figure 9, expel the gas inside the indoor unit and refrigerant pipe out using vacuum pump.

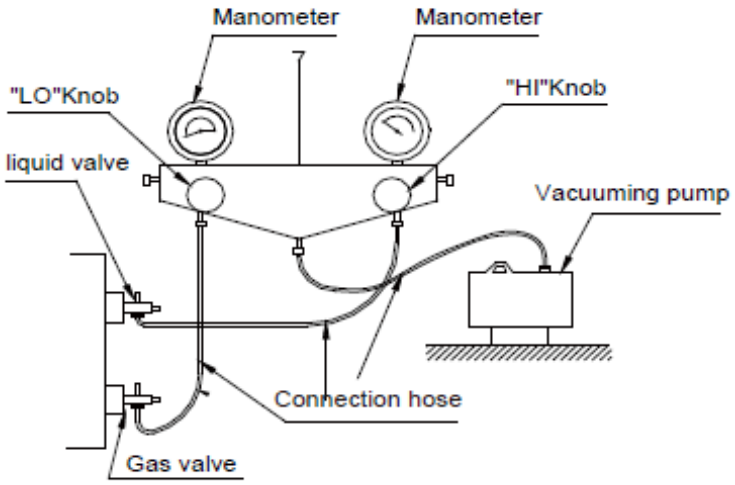


Figure 9: Expelling Gas from the Indoor Unit and Refrigerant Pipe

NOTICE:

- When the compressor is not running, charge the R410A refrigerant into the refrigerant pipe from the liquid valve of the outdoor unit (not from the gas valve).

6.2. Additional Refrigerant Charging

- Refrigerant charge is only in the outdoor unit prior to shipment.

NOTICE:

- Outdoor unit has been pre-charged with refrigerant. The refrigerant charge is not included in the indoor unit and the refrigerant pipe.
- The amount of the additional refrigerant charge is dependent on the diameter and length of the liquid refrigerant pipe which is determined by the actual field installation requirement.
- Record the additional refrigerant charge for future maintenance.
- Calculation of the Additional Refrigerant Charge
  - (Σ Length of Liquid Pipeφ9.52×54+Σ Length of Liquid Pipeφ6.35×22)-880
- The maximum additional refrigerant charge value is 800g.
  - If the calculated value exceeds 800g, the additional refrigerant charge should be 800g
  - If the calculated value is less than 800g, the additional refrigerant charge is the calculated value.

7.0. ELECTRICAL CONNECTIONS AND WIRING

7.1. Wiring Precautions

DANGER

- The installation must be conducted in accordance with local and national wiring regulations, codes and standards.
- Only the power cord with the rated voltage and specified circuit for air conditioner can be used.
- Do not apply excessive force to the power cord.
- The electrical installation should be carried out by the technician as instructed by the local and national regulations, codes and standards. This manual should be followed.
- The diameter of the power cord should meet the recommendations in Table 10. Always replace a damaged power cord with the equivalent specified cord.
- Always ensure the unit is correctly earthed and the earth wire is connected to the dedicated device of the building by the technician. Select the air switch coupled with the leakage current protection switch as per Table 10 recommendations to meet capacity, magnetic and thermal tripping functions in the event of a short circuit and overload.

Table 10: Power Cord Recommendations

Model	Power Supply	Air Switch Capacity (A)	Recommended Cord (Pieces x Sectional Area)
LNMT100V4	220-240V 50H z	32	3×4mm2
LNMT114V4	220-240V 50H z	32	3×4mm2

LNMT100V4

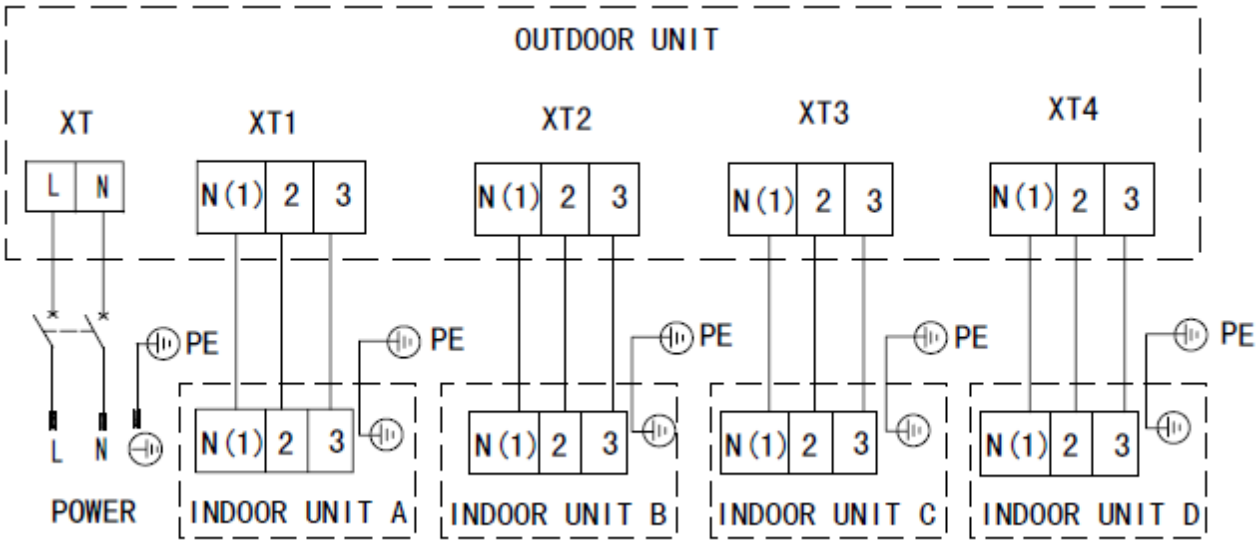


Figure 10: LNMT100V4 Wiring Diagram

LNMT114V4

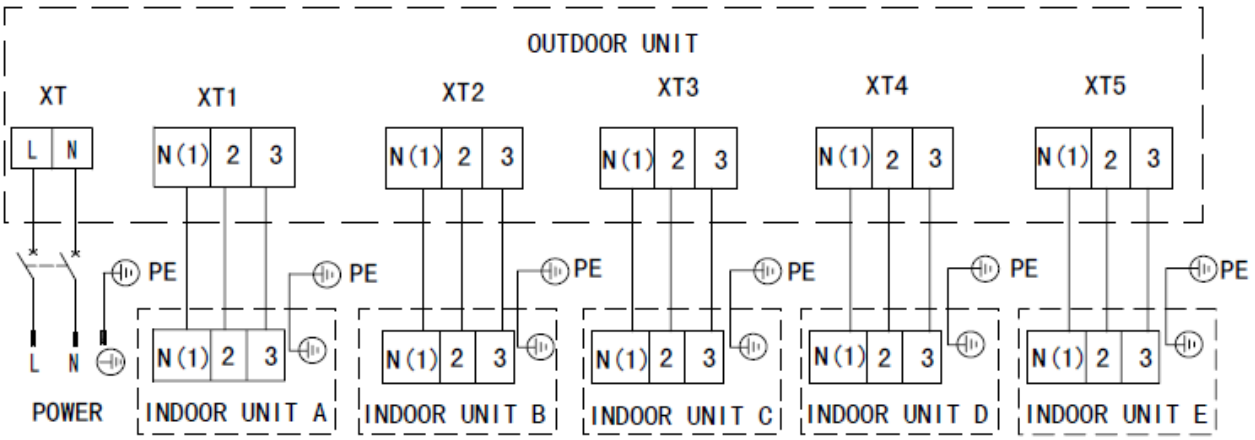


Figure 11: LNMT114V4 Wiring Diagram

7.2. Earthing Requirements

DANGER

- The air conditioner is a Class 1 electric appliance. It must be properly earthed using a specialised earthing device installed by a professional. Please make sure it is earthed effectively, otherwise it may cause electric shock.
- The yellow-green wire in air conditioner is the earth wire. The earth wire cannot be used for other purposes.
- The reliable earth terminal should be provided and the earth wire cannot be connected to any of the following:
  - Running water pipe
  - Coal gas pipe
  - Sewage pipe
  - Other places which may be unsuitable.

7.3. Electrical Cable Connection

CAUTION

- Incorrect wiring connections may cause malfunction of some electric components. After fixing the power cable, ensure that there is sufficient spare cable between connection points to prevent cables from being accidentally detached.
- The mistake connecting line will result in malfunction. After the electrical wiring working, ensure the wire between the connection place and the fixed place has a certain freedom degree.
- The connection piping and connection line of each indoor unit should be connected as per the instructions in this manual.
- All electrical installation should be carried out by a qualified technician as instructed by the local laws and regulations and this manual.
- The installation location should be dry and protected from direct sunlight or strong breeze.
- Install a circuit breaker to enable shut off the main power supply to the system in the event of malfunction.

7.4. Wiring of the Power Cord

1. Open the side plate.
2. Connect the power card to the terminals “L”, “N” and also the earthing bolt, and then connect the wiring terminals “N(1),2,3” of the indoor unit to those of the outdoor unit correspondingly.
3. Fix the power cord with wire clips.
4. Let the power cord go through the rubber ring.
5. Supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (code designation 60245 IEC 57).

CAUTION

- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent to avoid a hazard.

8.0. TROUBLESHOOTING

WARNING

- In the event of abnormal operation (e.g.. burning smell), shut off the main power supply immediately and then contact the authorised service agent.
- Do not attempt to repair the air conditioning yourself as this may cause electric shock, injury or damage to the unit.
- Prior to contacting the service provider, please conduct the checks listed in Table 11.

Table 11: Initial Troubleshooting Checks

Check Items	Potential Result
Has the unit been secured firmly?	The unit may drop, shake or emit noise.
Has the unit been gas leakage tested?	It may cause insufficient cooling/heating capacity.
Does the unit have adequate thermal insulation?	It may cause condensation and dripping.
Does the unit drain well?	It may cause condensation and dripping.
Is the voltage in accordance with the rated voltage specified on the nameplate ?	It may cause malfunction or damage the part.
Is the electric wiring and piping connection installed correctly and securely?	It may cause malfunction or damage the part.
Has the unit been earthed securely?	It may cause electrical leakage.
Is the power cord specified?	It may cause malfunction or damage the part.
Has the inlet and outlet been blocked?	It may cause insufficient cooling/heating capacity.

NOTICE:

- If the air conditioner is still not operating correctly, contact an authorised service agent.
- The following conditions listed in Table 12 are not classified as errors.

Table 12: Abnormal Operating Conditions and Reasons

"Malfunction"		Reason
Air conditioner doesn't run	• When starting the unit immediately after turning the unit off	• The overload switch protecting the unit results in a 3 minute delay
	• When turning on the power	• Run for about 1 minute without other actions
Mist is blown from the air conditioner	• When cooling	• The high humidity air in room is cooled rapidly
Noise is heard from the air conditioner	• Slight click sound heard once begin running	• Sound of initialisation for the electric expand valve
	• Hissing sound heard continuously when cooling	• The sound of gas refrigerant flowing in the unit
	• Hissing sound heard when staring or stopping	• The sound of gas refrigerant flow stopping
	• Slight hissing sound heard when running or after running	• Sound of drainage system
	• Creaking sound heard when running or after running	• The sound caused by expansion of the panel and other parts from the change in temperature
Dust is blown from the air conditioner	• Started up after an extended period of stagnation	• Dust which has been collected in the indoor unit is being blown out
Odour is smelt from the air conditioner	• When running	• Odours from the room which have been collected in the indoor unit are being discharged
Indoor unit still runs	• After being switched off	• The indoor fan motor will keep running for up to 70 seconds to use excess cooling and heating and prepare for next operation

8.1. Error Codes

- The error code will be displayed on the wired controller and the main board of the outdoor unit. A list of error codes is shown in Table 13.

Table 13: Error Codes

Malfunction	Indicator Display			Indoor Display
	Yellow Light	Red Light	Green Light	
Compressor Runs	Flash Once			
Defrost	Flash Twice			H1
Anti-Freezing Protection	Flash 3 Times			E2
IPM Protection	Flash 4 Times			H5
AC Over-current Protection	Flash 5 Times			E5
Over-burden Protection	Flash 6 Times			E8
Compressor Exhaust High Temperature Protection	Flash 7 Times			E4
Compressor Overload Protection	Flash 8 Times			H3
Power Protection	Flash 9 Times			L9
EEPROM Reads and Writes Protection	Flash 11 Times			
Low PN Voltage Protection	Flash 12 Times			PL
Over Voltage Protection for PN	Flash 13 Times			PH
PFC Protection	Flash 14 Times			HC

Table 13: Error Codes (Continued)

Malfunction	Indicator Display			Indoor Display
	Yellow Light	Red Light	Green Light	
PFC Module Temperature Protection	Flash 15 Times			oE
Low Pressure Protection	Flash 17 Times			E3
High Pressure Protection	Flash 18 Times			E1
Limit / Decline Frequency (Electrical Current)		Flash 1 Time		
Frequency Limit (Exhaust)		Flash 2 Times		
Frequency Limit (Over-burden)		Flash 3 Times		
Outdoor Ambient Sensor Malfunction		Flash 6 Times		F3
Outdoor Tube Sensor Malfunction		Flash 5 Times		F4
Exhaust Sensor Malfunction		Flash 7 Times		F5
Attain the Temperature of Switch On		Flash 8 Times		
Frequency Limit (Power)		Flash 13 Times		
Outdoor Fan Malfunction		Flash 14 Times		
Frequency Limit (PFC Module Temperature)		Flash 15 Times		
PFC Module Sensor Mal-function		Flash 16 Times		
Liquid Pipe Temperature Sensor Malfunction (A)		Flash 17 Times		
Gas Pipe Temperature Sensor Malfunction (A)		Flash 18 Times		
Liquid Pipe Temperature Sensor Malfunction (B)		Flash 19 Times		

Table 13: Error Codes (Continued)

Malfunction	Indicator Display			Indoor Display
	Yellow Light	Red Light	Green Light	
Gas Pipe Temperature Sensor Malfunction (B)		Flash 20 Times		
Liquid Pipe Temperature Sensor Malfunction (C)		Flash 21 Times		
Gas Pipe Temperature Sensor Malfunction (C)		Flash 22 Times		
Liquid Pipe Temperature Sensor Malfunction (D)		Flash 23 Times		
Gas Pipe Temperature Sensor Malfunction (D)		Flash 24 Times		
Liquid Pipe Temperature Sensor Malfunction (E)		Flash 25 Times		
Gas Pipe Temperature Sensor Malfunction (E)		Flash 26 Times		
Exit of the Condenser Tube Sensor Malfunction		Flash 27 Times		
Correspondence is Normal			Flash 7 Times	
Communication Failure between Units			Often Bright	
Mode Conflict				E7
Accept Fluorine Mode				Fo
Jumper Cap Malfunction Protection				C5

9.0. MAINTENANCE

CAUTION

- Regular maintenance and service should be performed by authorised personnel to prolong the unit life span.

9.1. Outdoor Heat Exchanger

- Outdoor heat exchanger is required to be cleaned once every two months.
- Use a vacuum cleaner with nylon brush to clean up dust and sundries on the surface of heat exchanger.
- Blow away dust by compressed air if it is available.
- Never use water to wash the heat exchanger.

9.2. Drain Pipe

- Regularly check the drain pipe to ensure it is not blocked and condensate can be drained freely.

9.3. Maintenance Before Usage Season

- Check the inlet/outlet of the indoor/outdoor unit is not blocked.
- Check the ground wire is earthed.
- Check the battery of remote wireless controller has been replaced.
- Check the filter screen has been set soundly.
- After long period of shutdown, turn on the main power switch 8 hours before re-operating the unit so as to preheat the compressor crankcase.

9.4. Maintenance After Usage Season

- Cut off main power supply of the unit.
- Clean filter screen and indoor and outdoor units.
- Clean the dust and sundries on the indoor and outdoor units.
- In the event of corrosion, use the anti-rust paint to stop spreading of rust.

CAUTION

- During airtight and leakage testing, only use nitrogen or refrigerant for these tests.
- Never mix oxygen, ethyne and other dangerous gases into refrigeration circuit.

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