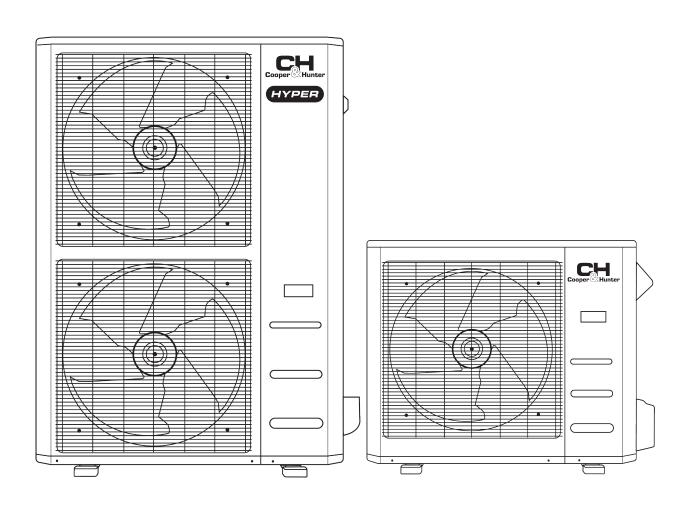


Installation Manual



IMPORTANT NOTE:



Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.





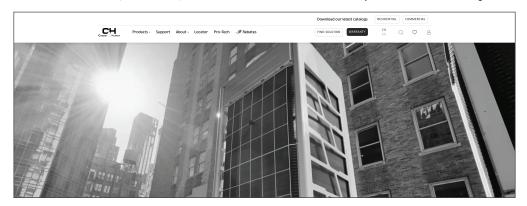


About the Company

With more than 25 years of experience in air conditioning and ventilation, Cooper&Hunter is considered one of the HVAC leaders in the US market. Distributed in more than 55 countries worldwide, the brand is dedicated to technological innovation and consumer-driven product development, while generating HVAC equipment that adheres to the highest quality standards in the US. Our focus is to provide reliable, energy-efficient, and cost-effective residential and commercial air conditioning solutions.

Learn more about your unit

Learn more technical information about your unit at www.cooperandhunter.us, where you can find submittals, leaflets, videos and all technical specifications of your unit.





Step 1

On the website **cooperandhunter.us**, type in your unit model number into the search field and click enter.

Step 2

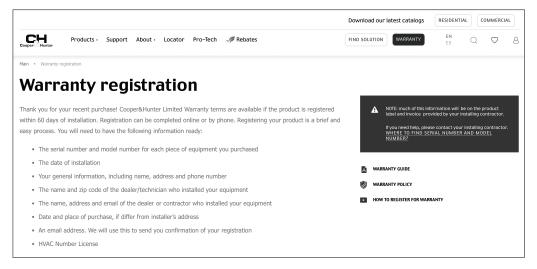
Make sure the unit that appears in your search results matches your unit and click on it for more details.

Step 3

On the detail page of your unit you will be able to view the technical specifications, description and additional documents, such as Submittals, Leaflets and Videos about your unit.

Warranty registration

It is important to register your unit's warranty. This will provide more security and agility whenever you need to request technical support from **Cooper&Hunter**.





Step 1

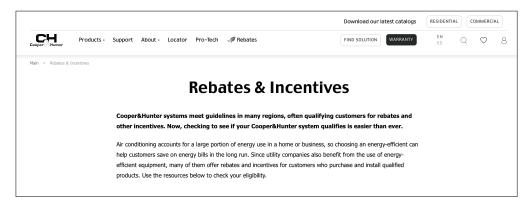
Visit the warranty registration page at **cooperandhunter.us/warranty** and follow the steps to register a new unit. For more information on the warranty terms and policies, see pages at the end of your user manual.

Step 2

Complete the entire warranty registration form, including the information of the licensed technician who installed your equipment. Once comple, you will receive a confirmation email stating your application to register your unit has been submitted.

How to apply for the rebate program

Almost all **Cooper&Hunter** equipment is eligible for the rebate program. Visit **our website** to see if the rebates apply to your location.





Step 1

Go to **cooperandhunter.us/rebates** to add your zip code and select your outdoor unit to see if your unit qualifies for the rebate.

Step 2

See the list of available rebates and instructions on how to apply for each available rebate.

Our Commitment to Innovation and Efficiency

At **Cooper&Hunter**, innovation is at the heart of everything we do. We continuously invest in research and development to bring you the most advanced, reliable, and energy-efficient HVAC solutions. Our goal is to lead the industry in environmental and energy efficiency, and we will spare no effort to achieve this.

We are proud to offer products that, not only meet, but exceed the highest quality standards. Our dedication to technological innovation ensures that you receive the best possible performance and value from your HVAC systems.

Explore more

For more information, including tutorials and updates, visit our official YouTube channel, Instagram and Facebook page. Simply search our social media to access a variety of helpful videos and guides.



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SAFETY PRECAUTIONS

It is really important that you read Safety Precautions Before Operation and Installation. Incorrect installation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a WARNING or CAUTION.

Explanation of Symbols



WARNING

This symbol indicates the possibility of personnel injury or loss of life



CAUTION

This symbol indicates the possibility of property damage or serious consequences.

A WARNING

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.

A ELECTRICAL WARNINGS

- Only use the specified wire. If the wire is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The product must be properly grounded at the time of installation, or electric shock may occur.
- For all electrical work, follow all local and national wiring standards, regulations, and the Installation Manual. Connect cables tightly, and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections can overheat and cause fire, and may also cause shock. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
- All wiring must be properly arranged to ensure that the control board cover can close properly. If the control board cover is not closed properly, it can lead to corrosion and cause the connection points on the terminal to heat up, catch fire, or cause electrical shock.
- Disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- <u>Do not</u> share the electrical outlet with other appliances. Improper or insufficient power supply can cause fire or electric shock.
- If connecting power to fixed wiring, an all-pole disconnection device which has at least 0.11 in clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device(RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

A WARNINGS FOR PRODUCT INSTALLATION

- Turn off the air conditioner and disconnect the power before performing any installation or repairing. Failure to do so can cause electric shock.
- Installation must be performed by an authorized dealer or specialist. Defective installation can cause water leakage, electrical shock, or fire.
- Installation must be performed according to the installation instructions.
 Improper installation can cause water leakage, electrical shock, or fire.
 Contact an authorized service technician for repair or maintenance of this unit.
- This appliance shall be installed in accordance with national wiring regulations. Only use the included accessories, parts, and specified parts for installation.
- Using non-standard parts can cause water leakage, electrical shock, fire, and can cause the unit to fail.
- Install the unit in a firm location that can support the unit's weight. If the chosen location cannot support the unit's weight, or the installation is not done properly, the unit may drop and cause serious injury and damage.
- Install drainage piping according to the instructions in this manual. Improper drainage may cause water damage to your home and property.
- For units that have an auxiliary electric heater, do not install the unit within 1 meter (3 feet) of any combustible materials.
- For the units that have a wireless network function, the USB device access, replacement, maintenance operations must be carried out by professional staff.
- <u>Do not</u> install the unit in a location that may be exposed to combustible gas leaks. If combustible gas accumulates around the unit, it may cause fire.
- Do not turn on the power until all work has been completed.
- When moving or relocating the air conditioner, consult experienced service technicians for disconnection and reinstallation of the unit.
- How to install the appliance to its support, please read the information for details in "indoor unit installation" and "outdoor unit installation" sections.

TAKE NOTE OF FUSE SPECIFICATIONS

The air conditioner's circuit board (PCB) is designed with a fuse to provide overcurrent protection. The specifications of the fuse are printed on the circuit board, for example: T3.15AL/250VAC, T5AL/250VAC, T3.15A/250VAC, T5AL/250VAC, T20A/250VAC, T30A/250VAC, etc.

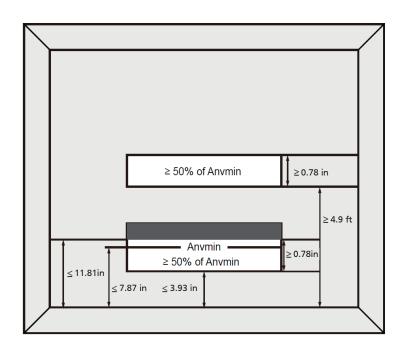
NOTE: Only the blast-proof ceramic fuse can be used.

A WARNING FOR USING FLAMMABLE REFRIGERANTS

- 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: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.

For R454B refrigerant charge amount and minimum room area:

The machine you purchased may be one of the types in the table below. The indoor and outdoor units are designed to be used together. Please check the machine you purchased. The air duct outlet of Medium And High Static Pressure Duct Type Air Conditioner should be at least ≥ 7.3 ft/2.2m above from the floor, and the minimum room area of operating or storage should be as specified in the following table:



- The room into which refrigerant can leak, plus the connected adjacent room(s) shall have a total area of not less than TAmin.
- The room area in which the unit is installed shall be not less than 20 %TAmin.

TA _{min} [ft²/m²]	h _{inst} [ft/m]					
mc or mrel [ozs/kg]	6.0~7.3/ 1.8~2.2	7.6/2.3	7.9/2.4	8.6/2.6	9.2/2.8	9.9/3.0
<=62.6/1.776			12	2/1.10		
63.4/1.8	60/5.53	57/5.29	55/5.07	51/4.68	47/4.35	44/4.06
70.5/2.0	67/6.15	64/5.88	61/5.64	56/5.20	52/4.83	49/4.51
77.5/2.2	73/6.76	70/6.47	67/6.20	62/5.72	58/5.31	54/4.96
84.6/2.4	80/7.38	76/7.06	73/6.76	68/6.24	63/5.80	59/5.41
91.7/2.6	86/7.99	83/7.64	79/7.32	73/6.76	68/6.28	64/5.86
98.7/2.8	93/8.60	89/8.23	85/7.89	79/7.28	73/6.76	68/6.31
105.8/3.0	100/9.22	95/8.82	91/8.45	84/7.80	78/7.24	73/6.76
112.8/3.2	106/9.83	102/9.41	97/9.01	90/8.32	84/7.73	78/7.21
119.9/3.4	113/10.45	108/9.99	104/9.58	96/8.84	89/8.21	83/7.66
126.9/3.6	120/11.06	114/10.58	110/10.14	101/9.36	94/8.69	88/8.11
134/3.8	126/11.68	121/11.17	116/10.70	107/9.88	99/9.17	93/8.56
141.0/4.0	133/12.29	127/11.76	122/11.27	112/10.40	104/9.66	97/9.01
148.1/4.2	139/12.90	133/12.34	128/11.83	118/10.92	110/10.14	102/9.46
155.1/4.4	146/13.52	140/12.93	134/12.39	124/11.44	115/10.62	107/9.91
162.2/4.6	153/14.13	146/13.52	140/12.96	129/11.96	120/11.11	112/10.37
169.2/4.8	159/14.75	152/14.11	146/13.52	135/12.48	125/11.59	117/10.82
176.3/5.0	166/15.36	159/14.69	152/14.08	140/13.00	130/12.07	122/11.27
Area formula Area formula TAmin is the required minimum room area in ft²/m² mc is the actual refrigerant charge in the system in oz/kg mREL is the refrigerant releaseable charge in oz/kg hinst is the height of the bottom of the appliance relative to the floor of the room after installation. WARNING: The minimum room area or minimum room area of conditioned space is based on releasable charge and total system refrigerant charge.						

4. Ventilated area

Ensure that the area is in the open or that it it 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.

5. 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.

6. 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 refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, the sensitivity may not be adequate, or may need re-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. Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

NOTE Examples of leak detection fluids are

- bubble method.
- fluorescent method agents.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. See the following instructions of removal of refrigerant.

7. 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:

- safely remove refrigerant following local and national regulations;
- evacuate;
- purge the circuit with inert gas (optional for A2L);
- evacuate (optional for A2L):
- continuously flush or purge with inert gas when using flame to open circuit; and open the circuit.

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.

The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

8. Charging procedures

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

- Works shall be undertaken with appropriate tools only (In case of uncertainty, please consult the manufacturer of the tools for use with flammable refrigerants)
- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept upright.
- 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 oxygen free nitrogen (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.

9. 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.

10. Unventilated areas

For appliances containing more than for any refrigerating circuit, the manual shall include a statement advising that an unventilated area where the appliance using FLAMMABLE REFRIGERANTS is installed shall be so constructed that should any refrigerant leak, it will not stagnate so as to create a fire or explosion hazard. This shall include:

- a warning that if appliances with A2L REFRIGERANTS connected via an air duct system to one or more rooms are installed in a room with an area less than >Amin as determined in Clause GG.2, that room shall be without continuously operating open flames (for example an operating gas appliance) or other POTENTIAL IGNITION SOURCES (for example an operating electric heater, hot surfaces). A flame-producing device may be installed in the same space if the device is provided with an effective flame arrest;
- for appliances using A2L REFRIGERANTS connected via an air duct system to one or more rooms, a warning with the substance of the following: "Auxiliary devices which may be a POTENTIAL IGNITION SOURCE shall not be installed in the duct work. Examples of such POTENTIAL IGNITION SOURCES are hot surfaces with a temperature exceeding X °C and electric switching devices".

NOTE X is the maximum allowable surface temperature as defined in 22.117.

The manufacturer should specify other potential continuously operating sources known to cause ignition of the refrigerant used.

The appliance shall be stored so as to prevent mechanical damage from occurring.

- -for appliances using A2L refrigerants connected via an air duct system to one or more rooms, a warning that only auxiliary devices approved by the appliance manufacturer or declared suitable with the refrigerant shall be installed in connecting ductwork. The manufacturer shall list in the instructions all approved auxiliary devices by manufacturer and model number for use with the specific appliance, if those devices have a potential to become an ignition source.
- a warning that if appliances connected via an air duct system to one or more rooms with A2L REFRIGERANTS are installed in a room with an area less than 4min as determined in Clause GG.2. or installed in a room with an EFFECTIVE DISPERSAL VOLUME VED less than the minimum as determined by Clause 101.DVN.8, that room shall be without continuously operating open flames (e.g. an operating gas appliance) or other POTENTIAL IGNITION SOURCES (for e.g. an operating electric heater, hot surfaces). A flame-producing device may be installed in the same space if the device is provided with an effective flame arrest.
- for REFRIGERANT DETECTION SYSTEMS, the function and operation and required servicing measures;
- for LIMITED LIFE REFRIGERANT SENSORS Used in REFRIGERANT DETECTION SYSTEMS, the specified end-of-life and replacement instructions;
- REFRIGERANT SENSORS for REFRIGERANT DETECTION SYSTEMS Shall Only be replaced with sensors specified by the appliance manufacture; and instructions to verify actuation of mitigation actions per Annex GG or Annex 101.DVN as applicable.

For appliances using FLAMMABLE REFRIGERANTS with safety features that depend upon the proper function of a leak detection system used for leak mitigation, the instructions and unit markings shall contain the substance of the following:

"LEAK DETECTION SYSTEM installed. Unit must be powered except for service." If any remote located REFRIGERANT SENSOR is employed to detect leaked refrigerant, such a remote located REFRIGERANT SENSOR shall also apply to this marking or be accompanied by such instructions.

Explanation of symbols displayed on the indoor unit or outdoor unit

A2L	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	
	CAUTION	handling this equipment with reference to the installation manual.	
i	CAUTION	This symbol shows that information is available such a the operating manual or installation manual.	

PRODUCTION INSTALLATION

ACCESSORIES

The air conditioner comes with the following accessories. Use all of the installation parts and accessories to install the air conditioner. Improper installation may result in water leakage, electrical shock and fire, or cause the equipment to fail. The items are not included with the air conditioner must be purchased separately.

Name of Accessories	Q'ty(pc)	Shape	Name of Accessories	Q'ty(pc)	Shape
Manual	2~4	Manual	Magnetic ring (wrap		
Refirgenout in/out pipe protection cover	2	0	& S2 (P & Q & E) around the magnetic	1	S1&S2 (P&Q&E)
Copper nut	2		ring twice)		SIGSZ (FRAGE)
Wired remote controller (with packing)	1		Magnetic ring (Hitch it on the connective cable between indoor	1	
Outlet pipe sheath	1		unit and outdoor unit after installation.)		له ٢٠٠
Outlet pipe clasp	1		Display panel	1	$\boxed{\hspace{0.1cm} \circ \hspace{0.1cm} \circ \hspace{0.1cm} \circ \hspace{0.1cm} \circ \hspace{0.1cm} \circ \hspace{0.1cm} }$
Seal ring (Not available for the	1		Remote controller & Battery	1	
outdoor unit with dimensions of 38.58in*38.39in*16.34in)	I		(purchase separately)	2	(b)
Drain joint	1		Remote controller holder(purchase separately)	1	

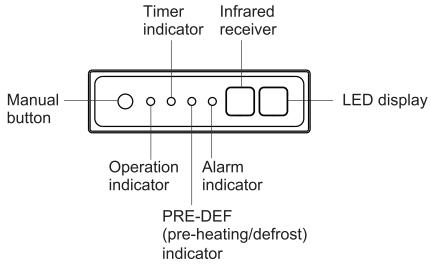
Optional accessories

There are two types of remote controls: wired and wireless.

Select a remote controller based on customer preferences and requirements and install in an appropriate place.

Refer to catalogues and technical literature for guidance on selecting a suitable remote controller.

Display panel



Install Your Outdoor Unit

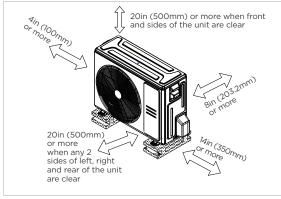
Select installation location



NOTE: PRIOR TO INSTALLATION

Before installing the outdoor unit, you must choose an appropriate location. The following are standards that will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:









☑ Good air circulation ☑ Firm and solid—the and ventilation.

location can support the unit and will not vibrate.

Noise from the unit will not disturb other people.





Meets all spatial requirements shown in Installation 🗹 Protected from prolonged periods 🗹 Where snowfall is anticipated, take Clearance Requirements above.

of direct sunlight or rain.

appropriate measures to prevent ice buildup and coil damage.



NOTE Install the unit by following local codes and regulations , there may be differ slightly between different regions.

SPECIAL CONSIDERATIONS FOR EXTREME WEATHER If the unit is exposed to heavy wind:

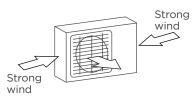
Install unit so that air outlet fan is at a 90° angle to the direction of the wind. If needed, build a barrier in front of the unit to protect it from extremely heavy winds. See Figures below.

If the unit is frequently exposed to heavy rain or snow:

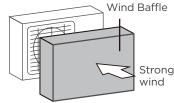
Build a shelter above the unit to protect it from the rain or snow. Be careful not to obstruct air flow around the unit.

If the unit is frequently exposed to salty air(seaside):

Use outdoor unit that is specially designed to resist corrosion.



90° angle to the direction of the wind



Build a wind Baffle to protect the unit



Build a shelter to protect the unit

DO NOT install unit in the following locations:

- Near an obstacle that will block air inlets and outlets.
- Near a public street, crowded areas, or where noise from the unit will disturb others.
- Near animals or plants that will be harmed by hot air discharge.
- Near any source of combustible gas.
- In a location that is exposed to large amounts of dust
- (7) In a location exposed to a excessive amounts of salty air.

Before bolting the outdoor unit in place, you must install the drain joint at the bottom of the unit.

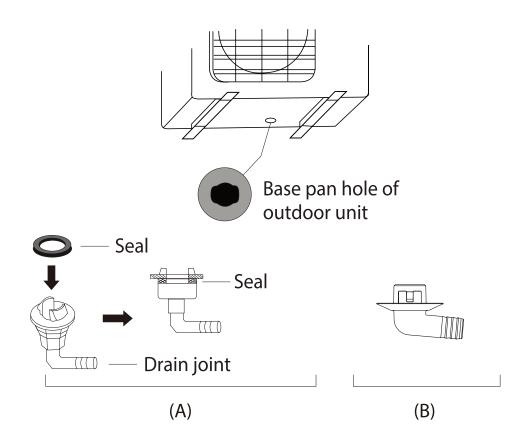
Note that there are two different types of drain joints depending on the type of outdoor unit.

If the drain joint comes with a rubber seal (see Fig.A), do the following:

- 1. Fit the rubber seal on the end of the drain joint that will connect to the outdoor unit.
- 2. Insert the drain joint into the hole in the base pan of the unit.
- 3. Rotate the drain joint 90° until it clicks in place facing the front of the unit.
- 4. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.

If the drain joint doesn't come with a rubber seal (see Fig. B), do the following:

- 1. Insert the drain joint into the hole on the base pan, press firmly to ensure it is properly installed and will not become loose.
- 2. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.



IN COLD CLIMATES

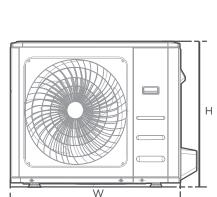
In cold climates, make sure that the drain hose is as vertical as possible to ensure swift water drainage. If water drains too slowly, it can freeze in the hose and flood the unit.

A WARNING -

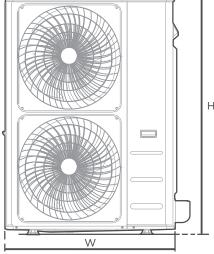
WHEN DRILLING INTO CONCRETE, EYE PROTECTION IS RECOMMENDED AT ALL TIME.

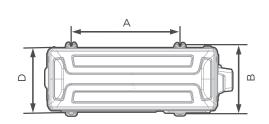
- The outdoor unit can be anchored to the ground or to a wall-mounted bracket with bolt(M10). Prepare the installation base of the unit according to the dimensions below.
- The following is a list of different outdoor unit sizes and the distance between their mounting feet. Prepare the installation base of the unit according to the dimensions below.

Outdoor Unit Types and Specifications (Split Type Outdoor Unit)



(952mmx1333mmx415mm)





Front view

Top view

Outdoor Unit Dimensions W x H x D Distance A Distance B 30.1inx21.8inx11.9in (765mmx555mmx303mm) Distance A Distance B 17.8in (452mm) 11.3in (286mm) L ≤ H

(634mm)

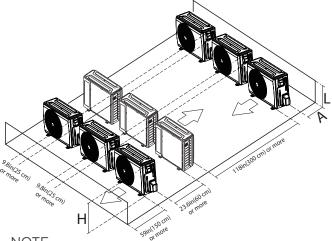
(404mm)

31.7inx21.8inx12.9in	20.1in	12.5in
(805mmx554mmx330mm)	(511mm)	(317mm)
35inx26.5inx13.46in	26.1in	13.94in
(890mmx673mmx342mm)	(663mm)	(354mm)
37.24inx31.9inx16.14in	26.5in	15.87in
(946mmx810mmx410mm)	(673mm)	(403mm)
38.58inX38.39inX16.34in	24.25in	15.63in
(980mmX975mmX415mm)	(616mm)	(397mm)
37.5inx52.5inx16.34in	24.96in	15.9in

Rows of series installation

The relations between H, A and L are as follows.

	L	А	
I < H	L ≤ 1/2H	9.8in (25 cm) or more	
	1/2H < L ≤ H	11.8in (30 cm) or more	
L > H	Can not be installed		



NOTE

H: Unit height

L: Height of the wall behind the unit A: Distance between unit and wall

REFRIGERANT PIPING CONNECTION

When connecting refrigerant piping, **<u>DO NOT</u>** let substances or gases other than the specified refrigerant enter the unit. The presence of other gases or substances will lower the unit's capacity, and can cause abnormally high pressure in the refrigeration cycle. This can cause explosion and injury.

Notes on pipe length and elevation

The maximum length and drop height based on models.

Model	Length of piping	Maximum drop height
9K/12K	82ft/25m	49.2ft/15m
18K	98.4ft/30m	65.6ft/20m
24K	164ft/50m	82ft/25m
36K/48K/60K	246ft/75m	98.4ft/30m

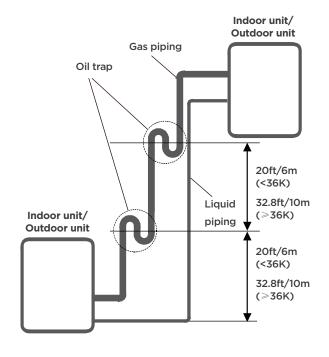
Ensure that the length of the refrigerant pipe, the number of bends, and the drop height between the indoor and outdoor units meets the requirements shown in the table next to it:

! CAUTION

Oil traps

If oil flows back into the outdoor unit's compressor, this might cause liquid compression or deterioration of oil return. Oil traps in the rising gas piping can prevent this.

An oil trap should be installed every 20ft(6m) of vertical suction line riser (<36K). An oil trap should be installed every 32.8ft(10m) of vertical suction line riser (\geq 36K).



Connection Instructions—Refrigerant Piping

! CAUTION -

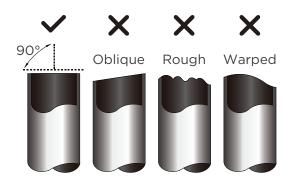
- The branching pipe must be installed horizontally. An angle of more than 10° may cause malfunction.
- **DO NOT** install the connecting pipe until both indoor and outdoor units have been installed.
- Insulate both the gas and liquid piping to prevent condensation.

Step 1: Cut pipes

When preparing refrigerant pipes, take extra care to cut and flare them properly. This will ensure efficient operation and minimize the need for future maintenance.

Measure the distance between the

- indoor and outdoor units. Using a pipe cutter, cut the pipe a
- . little longer than the measured distance.
 - Make sure that the pipe is cut at a
- perfect 90° angle.



DO NOT DEFORM PIPE

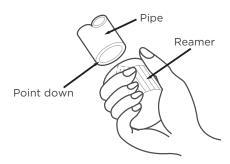
WHILE CUTTING

Be extra careful not to damage, dent, or deform the pipe while cutting. This will drastically reduce the heating

Step 2: Remove burrs

Burrs can affect the air-tight seal of refrigerant piping connection. They must be completely removed.

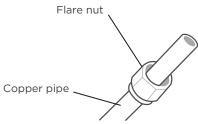
- Hold the pipe at a downward angle to prevent burrs from falling into the pipe.
- Using a reamer or deburring tool, remove all burrs from the cut section of the pipe.



Step 3: Flare pipe ends

Proper flaring is essential to achieve an airtight seal.

- After removing burrs from cut pipe, seal the ends with PVC tape to prevent foreign materials from entering the pipe.
- · Sheath the pipe with insulating material.
- Place flare nuts on both ends of pipe. Make sure they are facing in the right direction, because you can't put them on or change their direction after flaring.



 Remove PVC tape from ends of pipe when ready to perform flaring work.

Electrical work preparation

WALL MOUNTED UNITS

/Ŋ WARNING -

- BEFORE PERFORMING ANY ELECTRICAL WORK, READ THESE REGULATIONS
- BEFORE PERFORMING ANY ELECTRLCAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.
- 1. All wiring must comply with local and national electrical codes, regulations and must be installed by a licensed electrician.
- 2. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
- 3. If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
- 4. If connecting power to fixed wiring, a surge protector and main power switch should be installed.
- 5. Only connect the unit to an individual branch circuit outlet. Do not connect another appliance to that outlet.
- 6. Make sure to properly ground the air conditioner.
- 7. Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
- 8. Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
- 9. To avoid getting an electric shock, never touch the electrical components soon after the power supply has been turned off. After turning off the power, always wait 10 minutes or more before you touch the electrical components.

MARNING

All wiring must be performed strictly in accordance with the wiring diagram located on the back of the Indoor Unit's front panel.

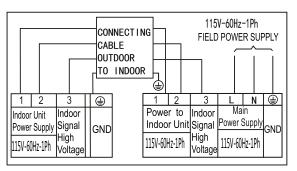
Connect signal and power cables

The signal cable enables communication between the indoor and outdoor units. You must first choose the right cable size before preparing it for connection.

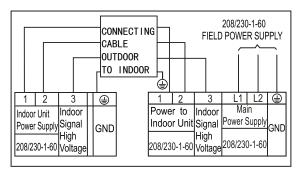
NOTE: Choose the cable type according to the local electrical codes and regulations. Please choose the right cable size according to the Minimum Circuit Ampacity indicated on the nameplate of the unit.

/!\ DO NOT MIX UP LIVE AND NULL WIRES

This is dangerous, and can cause the air conditioning unit to malfunction.

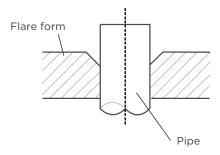


Connection Diagram (115V)



Connection Diagram (208/230V)

• Clamp flare from on the end of the pipe. The end of the pipe must extend beyond the flare form.



- · Place flaring tool onto the form.
- Turn the handle of the flaring tool clockwise until the pipe is fully flared.



Pipe gauge	Tightening torque	Flare dimension(A)	Flare shape	
Φ1/4in (Φ6.35mm)	18-20 N.m (180-200kgf.cm)	0.33~0.34in (8.4~8.7mm)		
Ф3/8in (Ф9.52mm)	32-39 N.m (320-390kgf.cm)	0.52~0.53in (13.2~13.5mm)	90°±4	
Φ1/2in (Φ12.7mm)	49-59 N.m (490-590kgf.cm)	0.64~0.65in (16.2~16.5mm)	A	
Φ5/8in (Φ16mm)	57-71 N.m (570-710kgf.cm)	0.76~0.78in (19.2~19.7mm)	R0.4~0.8	
Ф3/4in (Ф19mm)	67-101 N.m (670-1010kgf.cm)	0.91~0.93in (23.2~23.7mm)		

 Remove the flaring tool and flare form, then inspect the end of the pipe for cracks and even flaring.

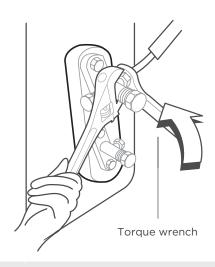
Step 4: Connect pipes

Connect the copper pipes to the indoor unit first, then connect it to the outdoor unit. You should first connect the low-pressure pipe, then the highpressure pipe.

- When connecting the flare nuts, apply a thin coat of refrigeration oil to the flared ends of the pipes.
- Align the center of the two pipes that you will connect.
- Tighten the flare nut snugly by hand.
- Using a wrench, grip the nut on the unit tubing.
- While firmly gripping the nut, use a torque wrench to tighten the flare nut according to the torque values in above table.

NOTICE

Use both a spanner and a torque wrench when connecting or disconnecting pipes to/from the unit.



! CAUTION

Ensure to wrap insulation around the piping. Direct contact with the bare piping may result in burns or frostbite.

 Make sure the pipe is properly connected. Over tightening may damage the bell mouth and under tightening may lead to leakage.

NOTICE

MINIMUM BEND RADIUS

Carefully bend the tubing in the middle according to the diagram below.

DO NOT bend the tubing more than 90° or more than 3 times.



min-radius 3.9in (10cm)

 After connecting the copper pipes to the indoor unit, wrap the power cable, signal cable and the piping together with binding tape.

NOTICE

DO NOT intertwine signal cable with other wires. While bundling these items together. Do not intertwine or cross the signal cable with any other wiring.

WIRING PRECAUTIONS

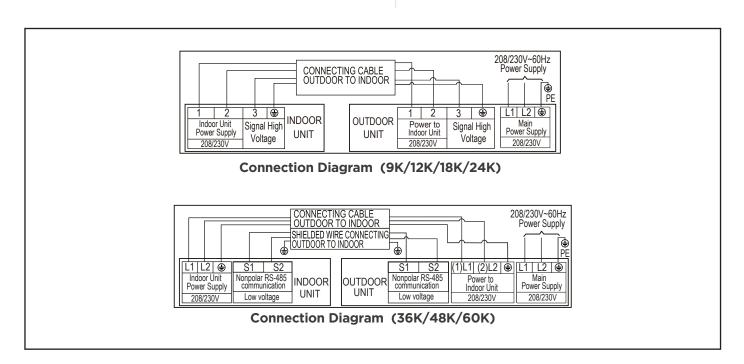
(AHU / CEILING CASSETTE / ONE WAY CASSETTE / SLIM DUCT / FLOOR CEING / MINI FLOOR CONSOLE)

- All wiring must comply with local and national electrical codes, regulations and must be installed by a licensed electrician.
- All electrical connections must be made according to the Electrical Connection Diagramlocated on the panels of the indoor and outdoor units.
- If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
- Power voltage should be within 90-110% of rated voltage. Insufficient power supply can cause malfunction, electrical shock, or fire.
- Installation of an external surge suppressor at the outdoor disconnect is recommended.
- If connecting power to fixed wiring, a switch or circult breaker that disconnects all poles and has a contact separation of at least 1/8in (3mm) must be incorporated in the fixed wiring. The qualified technician must use an approved circuit breaker or switch.
- Only connect the unit to an individual branch circuit. Do not connect another appliance to that outlet.
- Make sure to properly ground the air conditioner.
- Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
- Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
- If the unit has an auxiliary electric heater, it must be installed at least 40in (1 m) away from any combustible materials.

- To avoid getting an electric shock, never touch the electrical components soon after the power supply has been turned off. After turning off the power, always wait 10 minutes or more before you touch the electrical components.
- Make sure that you do not cross your electrical wiring with your signal wiring.
- This may cause distortion, interference or possibly damage to circuit boards.
- No other equipment should be connected to the same power circuit.
- Connect the outdoor wires before connecting the indoor wires.

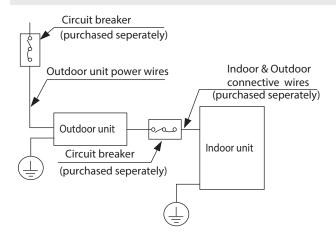
WARNING

BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.



NOTE ON CIRCUIT BREAKER

When the maximum current of the air conditioner is more than 16A, a circuit breaker or leakage protection switch with protective device shall be used (purchased seperately). When the maximum current of the air conditioner is less than 16A, the power cord of air conditioner shall be equipped with plug (purchased seperately). In North America, the applicance should be wired according to NEC and CEC requirements.



NOTE: The cographs are for explanation purpose only. Your machine may be slightly different. The actual shape shall prevail.

OUTDOOR UNIT WIRING



A WARNING –

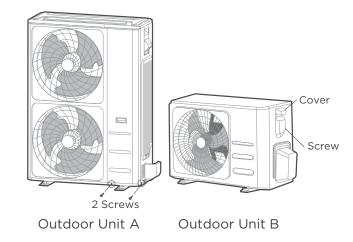
Before performing any electrical or wiring work, turn off the main power to the system.

- 1. Prepare the cable for connection
- a. You must first choose the right cable size. Choose the cable type according to the local electrical codes and regulations.
- b. The size of the power supply cable, signal cable, fuse, and switch needed is determined by the Minimum Circuit Ampacity of the unit. The Minimum Circuit Ampacity is indicated on the nameplate located on the side panel of the unit. Refer to this nameplate to choose the right cable, fuse, or switch.
- c. Using wire strippers, strip the rubber jacketfrom both ends of the signal cable to reveal approximately 5.9in (150mm) of
- d. Strip the insulation from the ends.
- e. Using a wire crimper, crimp u-lugs on the ends.

NOTE: When connecting the wires, strictly follow the wiring diagram found inside the electrical box cover.

2. Remove the 2 screws fixed on the front panel and side panel, then take it down to perform wire connection(see the figure of outdoor unit A).

Unscrew the electrical wiring cover and remove it.(see the figure of outdoor unit B)



- 3. Connect the u-lugs to the terminals Match the wire colors/labels with the labels on the terminal block. Firmly screw the u-lug of each wire to its corresponding terminal.
- 4. Clamp down the cable with the cable clamp.
- 5. Insulate unused wires with electrical tape. Keep them away from any electrical or metal parts.
- 6. Reinstall the cover of the electric control box.

AIR EVACUATION



NOTE -

When opening valve stems, turn the hexagonal wrench until it hits against the stopper. Do not try to force the valve to open further.

Preparations and precautions

Air and foreign matter in the refrigerant circuit can cause abnormal rises in pressure, which can damage the air conditioner, reduce its efficiency, and cause injury. Use a vacuum pump and manifold gauge to evacuate the refrigerant circuit, removing any non-condensable gas and moisture from the system. Evacuation should be performed upon initial installation and when unit is relocated.

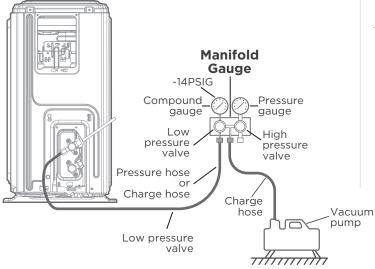
BEFORE PERFORMING EVACUATION

- Check to make sure the connective pipes between the indoor and outdoor units are connected properly.
- ☑ Check to make sure all wiring is connected properly.

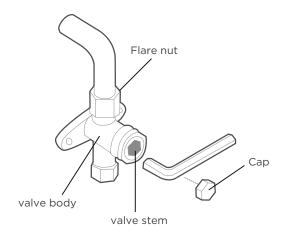
Evacuation Instructions

- Connect the charge hose of the manifold gauge to service port on the outdoor unit's low pressure valve.
- 2. Connect another charge hose from the manifold gauge to the vacuum pump.
- 3. Open the Low Pressure side of the manifold gauge. Keep the High Pressure side closed.
- 4. Turn on the vacuum pump to evacuate the system.
- 5. Run the vacuum for at least 15 minutes, or until the Compound Meter reads -14PSIG.

Outdoor unit



- 6. Close the Low Pressure side of the manifold gauge, and turn off the vacuum pump.
- 7. Wait for 5 minutes, then check that there has been no change in system pressure.
- 8. If there is a change in system pressure, refer to Gas Leak Check section for information on how to check for leaks. If there is no change in system pressure, unscrew the cap from the packed valve (high pressure valve).
- 9. Insert hexagonal wrench into the packed valve (high pressure valve) and open the valve by turning the wrench in a 1/4 counterclockwise turn. Listen for gas to exit the system, then close the valve after 5 seconds.
- 10. Watch the Pressure Gauge for one minute to make sure that there is no change in pressure. The Pressure Gauge should read slightly higher than atmospheric pressure.
- 11. Remove the charge hose from the service port.



- 12. Using hexagonal wrench, fully open both the high pressure and low pressure valves.
- 13. Tighten valve caps on all three valves (service port, high pressure, low pressure) by hand. You may tighten it further using a torque wrench if needed.

NOTE ON ADDING REFRIGERANT

A CAUTION -

DO NOT mix refrigerant types.

Some systems require additional charging depending on pipe lengths. In North America, the standard pipe length is 25ft (7.5m). The refrigerant should be charged from the service port on the outdoor unit's low pressure valve. The additional refrigerant to be charged can becalculated using the following formula (the refrigerant quantity added in the following table is a reference value and can be adjusted according to the actual situation):

	Liquid Side Diameter		
Refrigerant	Ø 1/4in (Ø 6.35)	Ø 3/8in (Ø9.52mm)	
R454B	(Pipe length - standard length) x 15g/m (Pipe length - standard length) x 0.16oz/ft	(Pipe length - standard length) x 30g/m (Pipe length - standard length) x 0.32oz/ft	

TEST RUN

A CAUTION -

Failure to perform the test run may result in unit damage, property damage, or personal injury.

Before test run

installed.

A test run must be performed after the entire system has been completely installed. Confirm the following points before performing the test: a) Indoor and outdoor units are properly

- b) Piping and wiring are properly connected.
- c) No obstacles near the inlet and outlet of the unit that might cause poor performance or product malfunction.
- d) Refrigeration system does not leak.
- e) Drainage system is unimpeded and draining to a safe location.
- f) Heating insulation is properly installed.
- g) Grounding wires are properly connected.
- h) Length of the piping and additional refrigerant capacity have been recorded.
- i) Power voltage is the correct voltage for the air conditioner

Test Run Instructions

- 1. Open both the liquid and gas stop valves.
- 2. Turn on the main power switch and allow the unit to warm up.
- 3. Set the air conditioner to COOL mode.
- 4. For the Indoor Unit
 - a. Ensure the remote control and its buttons work properly.
 - b. Ensure the louvers move properly and can be changed using the remote control.
 - c. Double check to see if the room temperature is being registered correctly.
 - d. Ensure the indicators on the remote control and the display panel on the indoor unit work properly.
 - e. Ensure the manual buttons on the indoor unit works properly.

- f. Check to see that the drainage system is unimpeded and draining smoothly.
- g. Ensure there is no vibration or abnormal noise during operation.

5. For the Outdoor Unit

- a. Check to see if the refrigeration system is leaking.
- b. Make sure there is no vibration or abnormal noise during operation.
- c. Ensure the wind, noise, and water generated by the unit do not disturb your neighbors or pose a safety hazard.

6. Drainage Test

- a. Ensure the drainpipe flows smoothly. New buildings should perform this test before finishing the ceiling.
- b. Remove the test cover. Add 2,000ml of water to the tank through the attached tube.
- c. Turn on the main power switch and run the air conditioner in COOL mode.
- d. Listen to the sound of the drain pump to see if it makes any unusual noises.
- e. Check to see that the water is discharged. It may take up to one minute before the unit begins to drain depending on the drainpipe.
- f. Make sure that there are no leaks in any of the piping.
- g. Stop the air conditioner. Turn off the main power switch and reinstall the test cover.

NOTE: If the unit malfunctions or does not operate according to your expectations, please refer to the Troubleshooting section of the Owner's Manual before calling customer service.

COMMISSION

The indoor ducted units can be programmed for different static pressures or Real-time constant airflows, Use the following steps to set the static pressure or Real-time constant airflow.

WHEN USING THE 120L WIRED CONTROLLER

To set Static Pressure airflow

The factory default setting is SP1, The external static pressure can be manually changed to the fan curves 1,2,3,4,5,6,7,8.

- a. Press and hold ON/OFF () and FAN & for approximately 7 seconds.
- b. Press " \land " \land or " \lor " \lor to scroll through the menu and select "8".
- c. Press and hold ON/OFF for approximately 2 seconds , Press " \land " \land or " \lor " \checkmark to scroll through and select "1~8".
- d. Press " OK" and the display board displays "CS".
- e. Press and hold ON/OFF () and FAN & for approximately 7 seconds, Then exit test mode.

To set Real-time constant airflow

Use the Automatic Airflow " AF " Adjustment function to realize Real-time constant airflows.

- a. Press and hold ON/OFF () and FAN & for approximately 7 seconds.
- b. Press " \land " \land or " \lor " \lor to scroll through the menu and select "8".
- c. Press and hold ON/OFF () for approximately 2 seconds , Press " \land " $\, \smallfrown \,$ or " \lor " $\, \lor$ to scroll through and select " AF ".
- d. Press " OK " and the display board displays " CS ".
- e. Press and hold ON/OFF () and FAN & for approximately 7 seconds, Then exit test mode.

NOTE: Before commissioning, check the power connection of the machine, turn on the power, and keep the machine not working.

NOTE: If there is no change after airflow adjustment, perform the setting again.

NOTE: Low static pressure series 9K,12K,18K models, SP options can only be " $1\sim4$ ".

WHEN USING THE 120N WIRED CONTROLLER

To set Static Pressure airflow

The factory default setting is SP1, The external static pressure can be manually changed to the fan curves 1.2.3.4.5.6.7.8.

- a. Press and hold Copy for approximately 3 seconds, The lower right corner shows P:00, Press "OK".
- b. Press " \land " riangle to scroll through the menu , The lower right corner shows SP, Press "OK".
- c. Press "\" \ " \" \ to scroll through the menu and select "1-8", Press " OK ".
- d. Press "Back" > to exit test mode.

To set Real-time constant airflow

Use the Automatic Airflow "AF" Adjustment function to realize Real-time constant airflows.

- a. Press and hold Copy 🗊 for approximately 3 seconds, The lower right corner shows P:00, Press "OK".
- b. Press "A" A to scroll through the menu, The lower right corner shows AF, Press "OK".
- c. Press "Back" 5 to exit test mode.

NOTE: T1, T2, T2b, T3, T4 are sub-menus for thermistors. DO NOT select to set the external static pressure.

NOTE: Before commissioning, check the power connection of the machine, turn on the power, and keep the machine not working.

NOTE: If there is no change after airflow adjustment, perform the setting again.

NOTE: Setting Static Pressure or Automatic Airflow need to use the Wired Remote Controller.

NOTE : Low static pressure series 6K,9K,12K,18K models, SP options can only be " $1\sim4$ ".

PACKING AND UNPACKING THE UNIT

Instructions for packing unpacking the unit:

Unpacking:

Indoor unit:

- 1. Cut the packing belt.
- 2. Unpack the package.
- 3. Take out the packing cushion and packing support.
- 4. Remove the packing film.
- 5. Take out the accessories.
- 6. Lift the machine out and lay it flat.

Outdoor Unit

- 1. Cut the packing belt.
- 2. Take the unit out of the package.
- 3. Remove the foam from the unit.
- 4. Remove the packing film from the unit.

Packing:

Indoor unit:

- 1. Put the indoor unit into the packing film.
- 2. Put the accessories in.
- 3. Place the packing cushion and packing support.
- 4. Put the indoor unit into the package.
- 5. Close the package and seal it.
- 6. Using the packing belt if necessary.

Outdoor unit:

- 1. Put the outdoor unit into the packing film.
- 2. Put the bottom foam into the box.
- 3. Put the outdoor unit into the package, then put the upper packaging foam on the unit.
- 4. Close the package and seal it.
- 5. Using the packing belt if necessary.

NOTE: Please keep all packaging items if you may need in the future.



Technical Support

Single & Multi-Zone Mini Splits • PTACs • Portables • TTWs • Light Commercial A/C Systems

Limited Warranty provided by Cooper&Hunter (hereby referred to as C&H) covers specified products and parts, subject to the following details:

Our warranty:

C&H Limited Warranty applies only to products installed by a licensed HVAC technician.

Product Registration: Products must be registered for Limited Warranty within 60 days of installation by licensed HVAC technician. Products can be registered at www.cooperandhunter.us/warranty. Alternatively, the warranty registration card from the product User's Manual can be filled out and sent in as instructed.

Warranty Coverage: Cooper&Hunter distributor warrants this product against failure due to defect in materials or workmanship under normal use and maintenance as follows. All warranty periods begin on the date of original installation. Damage resulting from failure to use, install or maintain the product in a manner consistent with manufacturer's recommendations shall render the warranty void. Cooper&Hunter, at its discretion, may request a report from a qualified technician prior to honoring a warranty claim. If a part fails due to defect during the applicable warranty period, Cooper&Hunter will provide a new or remanufactured part, at C&H's discretion, to replace the failed defective part at no charge. This Limited Warranty is subject to all provisions, conditions, limitations and exclusions listed below.

- Warranty is provided only to the first original owner of the Product, where it is originally installed, and is not transferable to the subsequent owners
- Limited Warranty applies only to systems properly installed by a state certified or licensed HVAC contractor, under applicable local and state law, in accordance with all applicable building codes and permits, C&H installation and operation instructions and good trade practices
- · Warranty applies only to products remaining in their original installation location
- Defective parts must be returned to the distributor through a registered servicing dealer for credit

This warranty gives you specific legal rights. Rights may vary from state to state or province to province. For complete warranty details and duration of your specific product, please visit our website at cooperandhunter.us/warranty and follow the registration instructions.

LIMITATIONS OF WARRANTIES:

ALL IMPLIED WARRANTIES AND/OR CONDITIONS (INCLUDING IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE) ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, EXTENDED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

Warranty Exclusions: Cooper&Hunter is not responsible for any warranty claim:

- 1. For equipment installed outside of North America.
- 2. For equipment not installed according to manufacturer's guidelines.
- 3. For equipment which has been removed from the original place of installation and reinstalled at another place.
- 4. If registration information cannot be verified (i.e., invalid license number or wrong information provided).
- 5. For damages or repairs arising as a result of a faulty installation, inappropriate application, or improper use.
- 6. For damages or repairs arising from any external perils, out of Cooper&Hunter's control, such as fires, storms, accidents, floods, broken or frozen water pipes, electrical surges, input power with under or overvoltage, lightning, or existence of corrosive substances nearby.
- 7. For damages or repairs arising from use of non-compatible parts, third-party components, alterations, modifications, or improper applications.
- 8. For improper service or poor maintenance of the equipment, such as cleaning of all air filters, heat exchangers, fans, and blowers, in addition to any necessary lubrication of internal components and maintenance of external accessories.
- 9. For changes that can be considered cosmetic, including but not limited to small fin damages, scratches on the unit cover, etc.

- 10. For resetting of power or the circuit breakers and replacement of other types of fuses, both internal and external.
- 11. For any damage caused by the use of dirty, recycled, or wrong type of refrigerants and lubricants.
- 12. For damage due to moisture, air, dust, sand, dirt, etc., that have been allowed into the system.
- 13. For damage caused by continuing use of the product after a malfunction has been noticed or indicated at the display module, through an error code.
- 14. For damages or performance issues due to improper matching, product selection, undersizing, oversizing, improper installation, or misuse.
- 15. For loss or replacement of refrigerant, lubricant, or oil.
- 16. For labor or any costs associated with labor.

Warranty Begin Date: Warranty begins on the date of registration.

Warranty End Date: Products that have not been registered as instructed above are not covered under Warranty. The Warranty duration will vary from product to product and may have additional extensions granted through promotional benefits. Any part, component or product that is replaced under the terms of this Warranty, will be covered under the same Warranty for the duration in which the original Warranty was applicable. Please visit our website at cooperandhunter.us/warranty and follow the registration instructions to find specific details on your product warranty.

Warranty Procedure: The product owner or technician should contact Cooper&Hunter Technical Support at (786) 953-6706, Monday to Friday from 9AM to 5PM EST while the technician is on site servicing the unit. The product may display error codes. The technician should be on site while troubleshooting with the C&H Technical Support Agent so he or she can address symptoms observed, specific electrical and mechanical measurements, and other detailed information that may be required for proper diagnosis.

While technicians may refer to Cooper&Hunter's website or YouTube channel for helpful information, such as manuals and videos based on certain error codes, the technician will need to troubleshoot with the C&H Technical Support Agent for Warranty purposes. Cooper&Hunter is not able to remotely diagnose a product and or offer remedies, without proper diagnosis results.

When contacting Technical Support, the following forms and information need to be provided:

- 1. Unit's Model & Serial number
- 2. Date of Unit Installation by a Licensed Technician
- 3. Installer's EPA License Number
- 4. Place Unit was purchased

Cooper&Hunter may ask for photos and/or other diagnostic information it deems necessary prior to processing the Warranty claim.

It should be noted that C&H Technical Support Agents troubleshoot on a case-by-case basis, following best practices and procedures to diagnose problems and solutions. Through this process, it is most efficient to diagnose one issue or error code at a time. It is possible that the first suggested solution may or may not solve one problem of multiple failures, in which case the Technician will continue through troubleshooting for remaining issues/error codes.

Cooper&Hunter will furnish a new or refurbished part without any charge for the part itself, for the replacement of any part that has been determined, by Cooper&Hunter, to have failed, at its sole discretion, due to defects in its materials or workmanship under standard use and proper maintenance. The payment of the shipping costs for the part will be the sole responsibility of the owner of the product. Cooper& Hunter reserves the right to ask the owner of the product to return the failed part before or after a replacement part is sent out.

Labor cost, materials and other costs: Any labor costs and/or the costs for the supplies or materials used or purchased in the field for the replacement of the defective part, remain the responsibility of the owner. No other costs involved in diagnosis, lodging, transportation, servicing, repair, replacement, installation, removal, shipping, etc., are to be covered under the Warranty.

Refrigerant: Any costs related to charging, recharging, adjustment, or removal of refrigerant, and the cost of the refrigerant itself, are not covered under any circumstances. All products go through vigorous quality controls at various stations and leave the factory in perfect working and sealed condition. Products are individually tested in highly sensitive helium vacuum chambers for existence of refrigerant leaks. Cooper&Hunter does not cover any claims related to the lack of refrigerant in new products, discovered upon arrival, or during installation, as well as subsequent refrigerant loss occurring at any time afterward.

This Warranty is not transferable. No person or entity is authorized to change the terms and conditions outlined in this Warranty agreement, in any respect, nor to create any additional obligations or liabilities for any party involved.

This warranty agreement supersedes all prior warranty agreements between the parties and constitutes the complete, final and exclusive understanding of the parties with respect to the subject matter. All prior

negotiations, representations, or promises, whether oral or written, of either party shall be deemed to have been merged herein.

If any part of this warranty agreement shall be invalidated for any reason, such part shall be deleted, and the remainder shall be unaffected and shall continue in full force and effect. This Warranty provides you certain legal rights and you may also have other rights, which vary from State to State. Therefore, some of these limitations or exclusions may not apply to you.

States with Express and Implied Warranties: Products in states with Express and Implied Warranties do not need to be registered for C&H Warranty. However, for Warranty support, installation invoice should be provided.

Pursuing legal remedies:

ARBITRATION CLAUSE. IMPORTANT. PLEASE REVIEW THIS ARBITRATION CLAUSE, AS IT AFFECTS YOUR LEGAL RIGHTS.

- 1. This arbitration clause affects your rights against Cooper&Hunter and any of its employees, agents, affiliates, successors, or assignees, all of whom together are referred to below as "we" or "us" for the simplicity of reference.
- 2. ARBITRATION REQUIREMENT: EXCEPT AS STATED BELOW, ANY DISPUTE BETWEEN YOU AND ANY OF US SHALL BE DECIDED BY NEUTRAL AND BINDING ARBITRATION, RATHER THAN ANY COURT OR BY TRIAL BY JURY. ARBITRATION WILL BE HANDLED ONLY ON AN INDIVIDUAL BASIS AND ALL PARTIES EXPRESSLY WAIVE; ANY RIGHTS TO PARTICIPATE AS A CLASS REPRESENTATIVE OR CLASS MEMBER, ANY RIGHTS TO CLASS ARBITRATION OR ANY CONSOLIDATION OF INDIVIDUAL ARBITRATIONS. THE ARBITRATOR WILL BE A MEMBER OF THE AMERICAN ARBITRATION ORGANIZATION. The meaning of "Dispute" has the broadest possible meaning allowable by law, including any controversy, claim or other dispute, relating to or arising from the purchase of the product, any of the warranties upon the product, or the condition of the product, as well as the determination of the application or the scope of the Arbitration Clause itself. Rights to appeal and discovery are also limited in arbitration based on the rules of the arbitration organizations.
- **3. Governing Law:** Effect and procedures of arbitration will be governed by the Federal Arbitration Act (9 U.S.C. § et seq.) rather than any related state law. In case of any substantive warranty, your claims and rights under such substantive warranty will be governed by the applicable law of the state in which Product was purchased.
- **4. Location of the Arbitration:** Unless otherwise provided under the applicable law, arbitration hearing will be conducted in the judicial district in Miami-Dade County, Florida.
- **5. Costs of the Arbitration:** Unless otherwise provided under the applicable law, each party will be responsible for; its own costs payable to the arbitration organization, and the costs of their attorneys, experts or other fees.
- **6. Survival and Enforceability of the Arbitration Clause:** This arbitration clause will survive the expiration or termination of this warranty agreement, indefinitely.

