

MULTI DUCTLESS INVERTER HEAT PUMP PANEL CASSETTE TYPE INDOOR UNIT

OWNER'S MANUAL



Models:

GKH(12)BA-D3DNA2A/I

GKH(18)BA-D3DNA2A/I



User Notice

◆ When operating, the entire capacity of the cooperating indoor unit should be not larger than 150% of outdoor unit. Otherwise, it will cause the shortage of cooling (heating) capacity.

◆ A Breaker(or fuse) need to be installed in every indoor unit, and the capacity should in according with indoor unit's electrical parameter; all the indoor units are required to be centralized controlled by a total Switch, this Switch can cut off the electric power supply in case of emergency. The Breaker(or fuse) on each indoor units have the function of short circuit prevention and abnormal overload avoiding, it should be connected in normal situation. The total switch controlling the power supply of all the indoor units. Before clearing and maintenance job being carried out to the indoor units, it is very important to turn off the total power supply switch.

◆ In order to turn on the units successfully, the main power switch should be opened 8 hours before the operation.

◆ After receiving the turn off signal, every indoor unit will continue to work for 20-70sec to make use of the rest cool air or the rest heat air in the heat exchanger, while preparing for the next operation. And this is normal.

◆ When the selected operating mode of the indoor unit are clash with the operating mode of the outdoor unit, the malfunction light will blink after 5s on the indoor unit or remote controller showing that the operation clash, then the indoor unit will stop. At this time, change the operation mode of the indoor unit to the one that would not clash with the outdoor operating mode to make the operation normal. The cooling mode is not clash with the dry mode, while the fan mode is not clash with any mode.

◆ The appliance shall not be installed in the laundry.

◆ An all-pole disconnection switch having a contact separation of at least 1/8" (3mm) in all poles should be connected in fixed wiring.

◆ Information regarding transport/storage temperature -13-131°F (-25-55°C) is missing.

◆ Main switch provided by end user: main switch handle should be black or gray, it can be locked in "OFF" position with padlock.

◆ The main disconnection device should be explained in user manual and the height should be recommended at 2-5.8ft (0.6-1.7m) over current protection is required(UL 1995,CSA C22.2).

◆ The cooling range of the unit is the outdoor environment temp. 23~118°F (-5~48°C) DB, the heating range of the unit(only for the heat pump type unit) is the outdoor environment temp. 5~81°F (-15~27°C) WB.

Thank you for your selecting of Cooper&Hunter air conditioner, please read this usage and install instruction carefully and keep it well in order to use this unit correctly.

Thank you for choosing a C&H Multi Ductless Heat Pump!

You can feel confident in your selection because the same pride in craftsmanship and engineering knowledge that goes into millions of other C&H installed products worldwide has gone into your unit.

Please read this owner's manual carefully before operation and retain it for future reference.

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1 Malfunction Debarring

 Warning!

◆ Cut down the main power switch immediately if malfunction (such as smell the burning odor etc.) happened, and then contact service center. If the abnormal state is maintained, the unit may be damaged or electric shock or fire may be happened.

◆ Do not refit the conditioner. Please contact service center to repair or move the conditioner.

1.1 Check the following items before contacting maintenance center

Phenomena	Reason	Remedial Measures
Air conditioner doesn't run at all	Blow of fuse or breaker	Change fuse or close breaker
	Power cut	Restart when there is power supply
	Don't connect with power	Connect power well
	Low batteries of wireless remote controller	Change new batteries
	Wireless remote controller exceed remote control area	Signal could be received within 312in (8m)
Air conditioner runs but stops immediately	Blockage in inlet or outlet vent of indoor or outdoor unit	Clean out blockage
Abnormal cooling or heating	Blockage in inlet or outlet vent of indoor or outdoor unit	Clean out blockage
	Improper of temp. setting	Adjust settings in wireless remote controller
	Low setting of fan speed	Adjust settings in wireless remote controller
	Incorrect of wind direction	Adjust settings in wireless remote controller
	Door or window opened	Close
	Direct sun burn	Hang curtain or jalousie before windows
	Too many people in room	
	Too many heater in room	
	Filter blocked by dirt	Clean filter

Malfunction Debarring

1.2 Instruction

If problem still cannot found out after above checking, please contact service center and instruct phenomena and model.

1.3 The following circumstance are not malfunction

"Malfunction"		Reason
Air conditioner doesn't run	Start up unit immediately after turned off	The overload protects switch makes it run after 3 minutes delay.
	When opening power	Run for about 1 minute without other actions
Mist is blown from air conditioner	When cooling	The high humidity air in room is cooled rapidly
Noise is heard from air conditioner	Slight click sound heard once begin running	Sound of initialization for electric expand valve
	Hissing sound heard continuously when cooling	The sound for gas refrigerant flowing in the unit
	Hissing sound heard when starting or stopping	The sound for gas refrigerant stops flow
	Slight hissing sound heard when running or after running	Sound for running of drainage system
	Creak sound heard when running or after running	The grating sound caused by expands of panel and other parts for the change of temperature
Dust be blown for air conditioner	Started up after long time's doesn't runs	Dust in indoor unit be blown out
Odor gives out from air conditioner	When running	This is because when air conditioning, odors or cigarette smoke from the room that was sucked in is discharged again.

1.4 After-sales Service

When having quality or other problems when purchasing air conditioner, please contact the local service center.

2 Maintenance Method

When air conditioner won't be used for a long time, please cut off the main power supply of air conditioner.

⚠ Warning!

- ◆ Do not turn off the unit and cut off the main power supply when cleaning the air conditioner, otherwise electric shock or harm may happen.
- ◆ It is forbidden to wash air conditioner by water rinsing, otherwise electric shock may happen.

2.1 Cleaning air filter

Air filters should be cleaned by professionals with proper operation to ensure personal safety.

When the usage environment has lots of dust, air filter should be cleaned more frequently (about once 6 months).

(1). Open air inlet grille

Loosen two screws on the air inlet grille with a screwdriver. And pull the 2 handle on air inlet grille at the same time with the direction showed by arrow in fig.1, pull down slowly. (Reverse when closing)

(2). Disassembly air filter

As shown in fig.2, pull the handle behind air inlet grille, raise it and disassembly. Then discharge the 3 purifier fixed on filter.

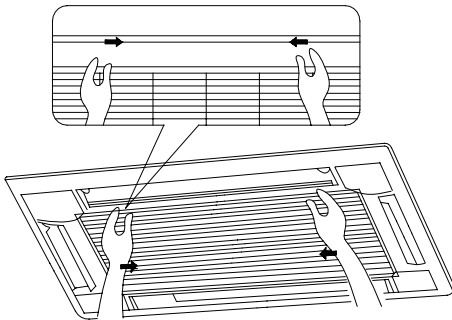


Fig.1

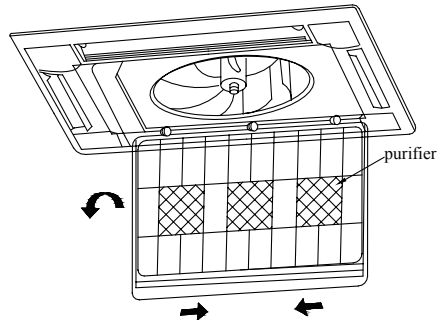


Fig.2

(3). Clean

Adopts cleaner or water to wash filter; if the filter is too dirty (like oil stain on it), adopts warm water (lower than 113°F (45°C) with neutral scourer to clean it, then dry it in the shade.

⚠ Note !

Do not clean the filter by hot water whose temp. is higher than 113°F (45°C) to prevent fade or deformation.

Do not burn it on fire or the filter would catch fire or deformation.

(4). Install air filter

Fix the 3 purifiers on filter, install filter on the several bulges on top of air inlet grille, pull the handle behind air inlet grille toward inside to fix filter. As shown in fig.3.

Maintenance Method

(5). Close air inlet grille (Refer to the 1st step)

Maintenance Method

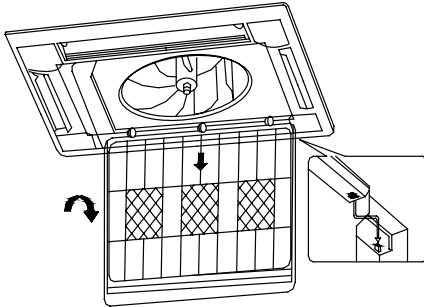


Fig.3

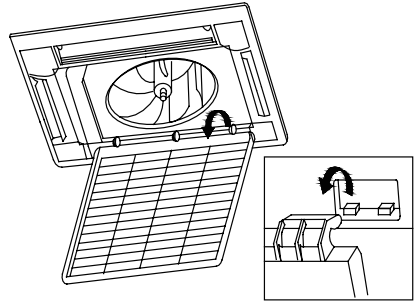


Fig.4

2.2 Clean air inlet grille

(1). Open air inlet grille (the same with the 1st step of Clean Air Filter)

(2). Take out air filter (the same with the 2nd step of Clean Air Filter)

(3). Take out air inlet grille

Open air inlet grille for an angle of 45°, as shown in fig.4, rise it.

(4). Clean

Clean it by pubescence brush, water and neutral cleaning, then throw water or dry it.

▲Note !

Do not use water above 113°F (45°C) to wash the panel to prevent fade or deformation.

(5). Install air inlet grille (refer to 3rd step)

(6). Install air filter (refer to the 4th step of Clean Air Filter)

(7). Close air inlet grille (refer to the 1st step)

2.3 Install and change of air purifier

(1). Open air inlet grille (the same the 1st step of Clean Air Filter)

(2). Disassembly purifier

As shown in fig.5, disassembly air filter, screw out fixing bolts fixed on purifier on filter, then purifier could be disassembly.

(3). Take out the package sack of static fiber net filter, then install the filter in stand of purifier, and fix purifier on air filter.

(4). Install air filter (the same with the 4th step of Clean Air Filter)

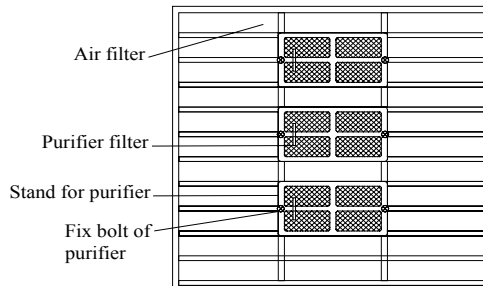


Fig.5

Function and usage period for air purifying

- ◆ Could adsorb CO, CO₂, benzene, aldehydes and odor of gasoline etc..
- ◆ Could adsorb deleterious material that is smaller than 1µm in air, as dust, pollen, bacteria, and virus.
- ◆ Usage period is 6 months to 1 year. If it is necessary to be changed, purchase new purifier in the nearest Gree special engaged maintenance center.

6.4 Clean Outlet vent and Surface Panel

- ◆ Clean the surface panel by soft dry cloth or wet cloth with neutral scourer.
- ◆ It is forbidden to clean surface panel by gasoline, benzene, diluents, cleansing powder etc..
- ◆ If the guide louver is too dirty, it may be removed to be cleaned. (As narrated below)

Disassembly and install of guide louver

(1). Disassembly guide louver

Screw bolts in both end of guide louver to loose.

⚠ Note !

Do not wipe guide louver powerfully when cleaning, otherwise fluff on surface would fall off.

(2). Install guide louver

Rotate guide louver slightly could install the protruding edge of both end into grooves on both end of guide louver, and then tighten bolts.

2.5 Maintenance before or after usage season

Check before the usage season

- ◆ Check if there is blockage in inlet or outlet vent of air conditioner.
- ◆ Check if the earthing wire had earthed reliably.
- ◆ Check if the air filter had been installed well.
- ◆ In order to start up the air conditioner smoothly after long time's turned off, turn on the main power supply 8 hours before turning on the air conditioner.

Maintenance after usage season

- ◆ Clean filter and body of air conditioner.
- ◆ Cut off the main power supply of air conditioner.
- ◆ The cooling or heating capacity and sound level are tested before leaving factory.
- ◆ If the parameter changed, refer to the data offered on nameplate.



LIMITED WARRANTY STATEMENT

Ductless Heat Pump Multi-Split System

FOR WARRANTY SERVICE OR REPAIR:

Contact your installing contractor. You may find the installer's name on the equipment or in your Owner's packet.

Complete product registration below and send back by e-mail at

PRODUCT REGISTRATION:

Model No.: _____

Serial No.: _____ Date of Installation: _____

Owner Name: _____

Address of Installation: _____

Installing Contractor: _____

Address: _____

Phone No. / E-mail: _____

C&H distributor (hereinafter "Company") 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. If the date cannot be verified, the warranty period begins one hundred twenty (120) days from date of manufacture. If a part fails due to defect during the applicable warranty period Company will provide a new or remanufactured part, at Company's option, to replace the failed defective part at no charge for the part. This limited warranty is subject to all provisions, conditions, limitations and exclusions listed below.

- A warranty period of Seven (7) years on compressor to the original registered end-user.
- A warranty period of Five (5) years on all parts to the original registered end user.
- A warranty period of One (1) year on the remote control provided with the original unit.
- Limited warranty applies only to systems that are 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.

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 EXPRESS WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

THIS WARRANTY DOES NOT COVER:

1. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts, or replacement parts, or new units.
2. Product cleaning required prior to warranty service and repair.
3. Normal maintenance as outlined in the installation and servicing instructions or Owner's Manual, including filter cleaning and/or replacement and lubrication.
4. Failure, damage or repairs due to faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
5. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
6. Failure or damage due to floods, winds, fires, lightning, accidents, corrosive environments (rust, etc.) or other conditions beyond the control of the Company.
7. Failure or damage of coils or piping due to corrosion on installations within one (1) miles of sea coast or corrosive body.
8. Parts not supplied or designated by Company, or damages resulting from their use.
9. Products installed outside continental USA and Canada.
10. Electricity or fuel costs, or increases in electricity or fuel costs from any reason whatsoever, including additional or unusual use of supplemental electric heat.
11. Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
12. Shipping damage or damage as a result of transporting the unit.
13. Accessories such as condensate pumps, line sets and so forth are not covered.
14. Any special, indirect or consequential property or commercial damage of any nature whatsoever. Some states or provinces do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.



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