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MIDEA WDK20AE1N Owner's Manual

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----- Manual continues below part list -----

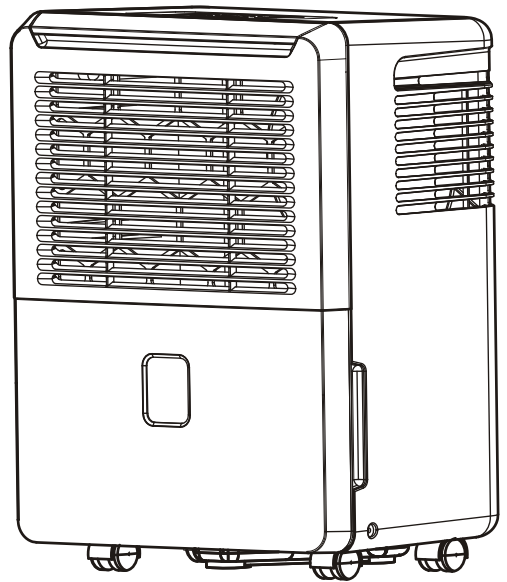
Available Replacement Parts for MIDEA WDK20AE1N

12100509000055	Drain Hose
12100510000020	Drain Connector
12100204000332	Air Filter
17120100000344	Sensor (Humidity)
12620100000015	UNIVERSAL WHEEL
12100510000015	DRAIN CONNECTOR
12600801000037	PLUG
11201007003439	Pipe Temperature Sensor

USER MANUAL

Dehumidier WDK

Rated voltage: 115V
Frequency: 60Hz



Warning notices: Before using this product, please read this manual carefully and keep it for future reference.

The design and specifications are subject to change without prior notice for product improvement. Consult with your dealer or the manufacturer for details.

WDK20AE1N
WDK35AE1N
www.midea.com

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Read This Manual

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



CAUTION

- Contact the authorized service technician for repair or maintenance of this unit.
- The unit is not designed to be used by young children or people with reduced physical, sensory or mental capabilities without supervision.
- Young children should be supervised to ensure that they do not play with the unit.
- If the power cord needs to be replaced, please contact our consumer service and look for an authorized technician.
- Electrical installation, if needed, must be performed in accordance to national regulation standards by qualified personnel only.

Safety Precautions

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




This symbol indicates the possibility of death or serious injury.



This symbol indicates the possibility of injury or damage to property.

WARNING

- Plug in power cord plug properly.
Otherwise, it may cause electric shock or fire due to excess heat generation.
- Do not modify power cord length or share the outlet with other appliances as it may cause electric shock or fire due to overheating.
- Always ensure effective grounding.
Incorrect grounding may cause electric shock.
- Unplug the unit if you notice unusual sounds or smells, or smoke comes from it.
A damaged product may cause fire and electric shock.
- Keep firearms away from the unit.
- Ventilate room before operating the air conditioner if there is a gas leakage from another appliance.
- Do not operate or stop the unit by inserting or pulling out the power cord plug.
- Do not operate with wet hands or in very humid environments.
It may cause electric shock.
- Do not allow water to come into contact with any electric parts.
It may cause failure or electric shock.
- Do not use the socket if it is loose or damaged.
It may cause fire and electric shock.
- Do not place the power cord close to heating appliances.
It may cause fire and electric shock
- Do not disassemble or modify unit.
It may cause failure and electric shock.
- Do not damage or use an alternate power cord.
It may cause fire and electric shock.
- If the power cord is damaged, it must be replaced by the manufacturer or an authorized service center or a similarly qualified person in order to avoid a hazard.
- Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.
It may cause an explosion or fire.
- Before cleaning, turn off the power and unplug the unit.
- Do not take the water bucket out during operation, the bucket full protection may be activated and risk electric shock.

 **CAUTION**

- Do not use the unit in small spaces.
Lack of ventilation can cause overheating and fire.
- Do not use in places where water may splash onto the unit.
Water may enter the unit and degrade the insulation. It may cause an electric shock or fire.
- Place the unit on a level, sturdy section of the floor.
If the unit falls over, it may cause water to spill and damage belongings, or cause electrical shock or fire.
- Never insert your finger or other foreign objects into grills or openings. Take special care to warn children of these dangers.
It may cause failure or electric shock.
- Do not climb up on or sit on the unit.
You may be injured if you fall or if the unit falls over.
- Always insert the filters securely. Clean filter once every two weeks.
Operation without filters may cause failure.
- If water enters the unit, turn off the unit and switch off the circuit breaker. Isolate supply by taking the power-plug out and contact a qualified service technician.
- Do not place flower vases or other water container on top of the unit.
Water may spill inside the unit, causing insulation failure and electrical shock or fire.
- Do not use detergents that contain wax or thinners as it may damage the product.
Clean with a soft clothe only.
- If the unit is knocked over during use, turn off the unit and unplug it from the main power supply immediately. Visually inspect the unit to ensure there is no damage. If you suspect the unit has been damaged, contact a customer service or a qualified technician.
- In a thunderstorm, the power must be cut off to avoid damage to the unit due to lightning.
- Turn off the main power switch if the unit is not to be used for an extended time.
- Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.

**WARNING - Electrical Information**

- The manufacturer's nameplate is located on the rear panel of the unit and contains electrical and other technical data specific to this unit.
- Be sure the unit is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your unit must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Ensure the receptacle is accessible after the unit installation.
- Do not use extension cords or adapter plugs with this unit. However, if it is necessary to use an extension cord, use an approved "dehumidifier" extension cord only (available at most local hardware stores).
- To avoid the possibility of personal injury, always disconnect the unit from power supply, before installing and/or servicing.

**WARNING - For your safety**

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.

Unit Specifications and Features

Product overview

Front

1. Control panel
2. Air intake grille
3. Air outlet grille
4. Air filter (behind the grille)
5. Water bucket
6. Handle (both sides)

Rear

1. Drain hose outlet
2. Caster
3. Power Cord and plug
4. Band (Used only when storing the unit.)

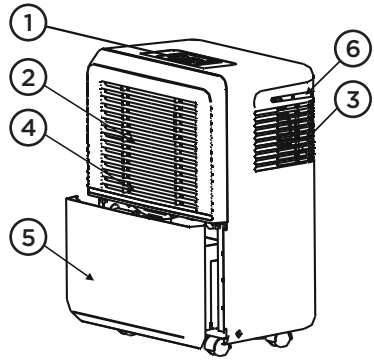


Fig. 1

NOTE

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

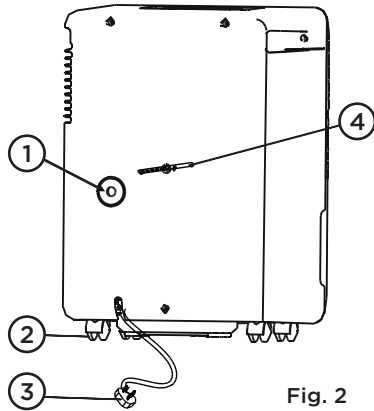


Fig. 2

Accessories

Drain hose (1 pc)



Adaptor A (1 pc)



Screw (2 pc)

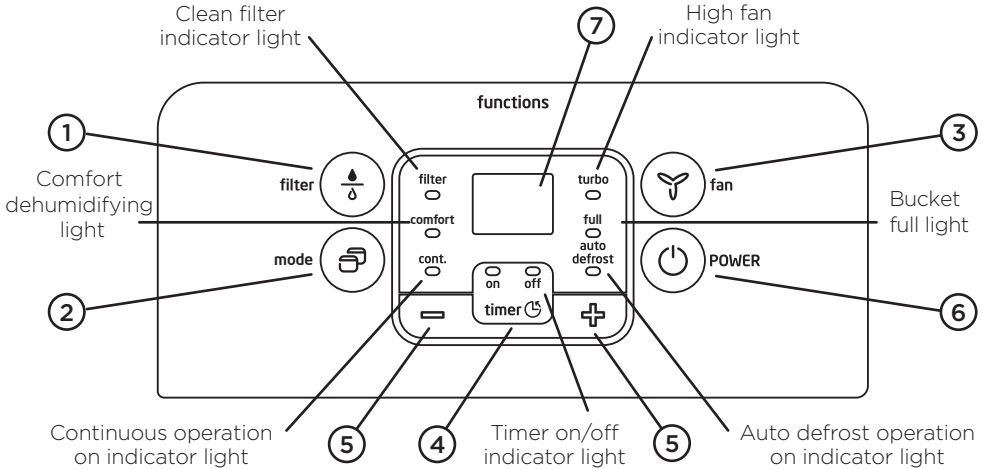


Operating Instructions

CAUTION

Clean your unit occasionally to keep it looking new. Be sure to unplug the unit before cleaning to prevent chock or fire hazards.

Key Pad Features



NOTE

The control panel of the unit you purchased may be slightly different according to the models.

Control Pads

When you push the button to change operation modes, the unit will make a beep sound to indicate that it is changing modes.

1. FILTER Pad

The check filter feature is a reminder to clean the Air Filter for more efficient operation. The Filter light (Clean filter light) will flash after 250 hours of operation. To reset after cleaning the filter, press the Filter pad and the light will go off.

2. Mode

Press to select the desired operation mode from Dehumidifying, Continuous dehumidifying and Comfort dehumidifying. At Comfort dehumidifying mode, the unit will automatically control room humidity in a comfortable range 45%-55% according to the room temperature. The humidity setting function will be invalid.

3. FAN Pad

Control the fan speed. Press to select either High or Normal fan speed. Set the fan control to High for maximum moisture removal. When the humidity has been reduced and quiet operation is preferred, set the fan control to Normal.

4. TIMER Pad

Press to initiate the Auto start and Auto stop feature, in conjunction with the **⇒** and **⊕** key pads.

5. Up/Down Pads (**⊕** / **⇒**)

• Humidity Set Control Pads

The humidity level can be set within a range of 35% RH (Relative Humidity) to 85% RH (Relative Humidity) in 5% increments.

For drier air, press the **⇒** pad and set to a lower value (%).

For damper air, press the **⊕** pad and set a higher value (%).

• TIMER Set Control Pads

Use the **⇒** and **⊕** pads to set Auto start and Auto stop time 0.0 to 24.

6. POWER Pad

Press to turn the dehumidifier on and off.

7. Display

Shows the set % humidity level from 35% to 85% or auto start/stop time (0 - 24) while setting, then shows the actual (+/- 5% accuracy) room % humidity level in a range of 30% RH (Relative Humidity) to 90% RH (Relative Humidity).

Error Codes and Protection Code:

AS - Humidity sensor error - Unplug the unit and plug it back in. If error persists, contact Customer Service.

ES - Temperature sensor error - Unplug the unit and plug it back in. If error persists, contact Customer Service.

P2 - Bucket is full or bucket is not in right position - Empty the bucket and replace it in the right position

Other Features

Bucket Full Light

Glowes when the bucket is ready to be emptied, or when the bucket is removed or not replaced in the proper position.

Auto Shut Off

The dehumidifier shuts off after 30 seconds when the bucket is full, or when the bucket is removed or not replaced in the proper position. When the setting humidity is reached, the unit will be shut off automatically. For some models, the fan motor will continue operating.

Auto Defrost

When frost builds up on the evaporator coils, the compressor will cycle off and Auto Defrost function will run until the frost disappears.

Wait 3 minutes before resuming operation



After the unit has stopped, it can not be restarted in the first 3 minutes to protect compressor operation. The unit will restart automatically after 3 minutes.

Auto-Restart

If the unit stops unexpectedly due to a power cut, it will restart with the previous function setting automatically when the power resumes.

Other Features (cont.)

Setting the Timer

- When the unit is on, first press the Timer button, the Timer OFF indicator light illuminates. It indicates the Auto stop program is initiated. Press it again the Timer ON indicator light illuminates. It indicates the Auto start is initiated.
- When the unit is off, first press the Timer button, the Timer ON indicator light illuminates. It indicates the Auto start program is initiated. Press it again the Timer OFF indicator light illuminates. It indicates the Auto stop is initiated.
- Press or hold the  and  pads to change the Auto time by 0.5 hour increments, up to 10 hours, then at 1 hour increments up to 24 hours. The control will count down the time remaining until start.
- The selected time will register in 5 seconds and the system will automatically revert back to display the previous humidity setting.
- When the Auto start & Auto stop times are set, within the same program sequence, indicator lights illuminate identifying both ON and OFF times are now programmed.
- Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel the Auto Start/Stop function.
- When LED display window displays the code of P2, the Auto Start/Stop function will also be cancelled.

When Using the Unit

- When first using the dehumidifier, operate the unit continuously 24 hours.
- This unit is designed to operate with a working environment between 5°C/41°F and 32°C/90°F.
- If the unit has been switched off and needs to be switched on again quickly, allow approximately three minutes for the correct operation to resume.
- Do not connect the dehumidifier to a multiple socket outlet, which is also being used for other electrical appliances.
- Select a suitable location, making sure you have easy access to an electrical outlet.
- Plug the unit into a electrical socket-outlet with earth connection.
- Make sure the water bucket is positioned correctly so that the unit can operate properly.

NOTE

When the water in the bucket reaches to a certain level, please be careful to move the unit to avoid it spill.

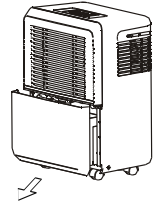
Removing Collected Water

There are two ways to remove collected water:

1. Use the bucket

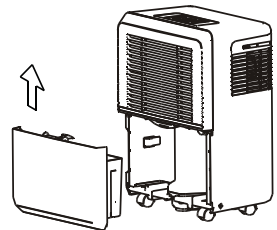
- When the unit is off, if the bucket is full, the unit will beep 8 times and the Full indicator light will flash, the digital display shows P2.
- When the unit is on, if the bucket is full, the compressor turns off and the fan turns off after 30 seconds for drying the water of the condenser, then the unit will beep 8 times and the Full indicator light will flash, the digital display shows P2.
- Slowly pull out the bucket. Grip the left and right handles securely, and carefully pull out straight so water does not spill. Do not put the bucket on the as because the bottom of the bucket is uneven. Otherwise the bucket will fall and cause the water to spill.
- Throw away the water and reposition the bucket. The bucket must be in right place and securely seated for the dehumidifier to operate.
- The machine will re-start when the bucket is restored in its correct position. The unit will restart operation when the bucket back in place.

1. Pull out the bucket.



2. Hold both sides of the bucket evenly, and pull it out from the unit.

Fig. 3



3. Pour the water out.

Fig. 4

NOTES

- When you remove the bucket, do not touch any parts inside the unit. Doing so may damage the product.
- Be sure to push the bucket gently all the way into the unit. Banging the bucket against anything or failing to push it in securely may cause the unit not to operate.
- When you remove the bucket, if there is some water in the unit you must dry it.

2. Continuous draining

Water can be automatically emptied into a floor drain by attaching the unit with a water hose (Id \geq \varnothing 5/16", not included) with a female threaded end (ID: M = 1", not included).

- Install the drain hose onto the adaptor A (See Fig. 5, placed in the bucket).
- Remove the plastic cover from the back drain outlet of the unit and set aside and remove bucket, then insert the drain hose through the drain outlet of the unit and securely press it into the connector on the front of the unit. (See. Fig. 7)
- Tighten the adaptor A and the unit by using two screws (placed in the bucket).
- Install the female threaded end of the water hose into the adaptor A. (See. Fig. 8), then lead the water hose to the floor drain or a suitable drainage facility.
- Make sure the hose is secure so there are no leaks.
- Direct the hose toward the drain, making sure that there are no kinks that will stop the water flowing.
- Place the end of the hose into the drain and make sure the end of the hose is level or down to let the water flow smoothly. Do never let it up.
- Place the bucket back in the unit and make sure that it is located correctly.
- Select the desired humidity setting and fan speed on the unit for continuous draining to start.

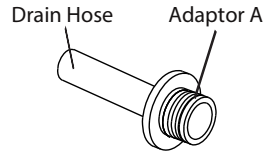


Fig. 5

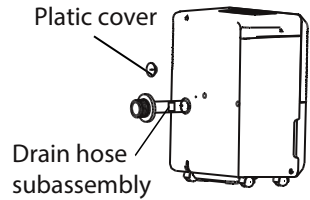


Fig. 6

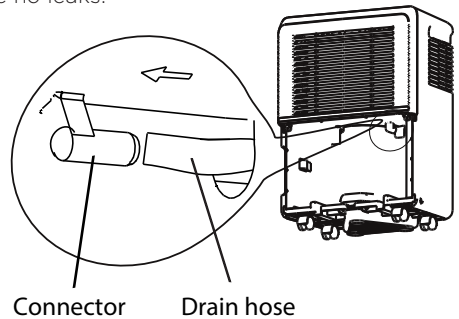


Fig. 7

NOTE

When the continuous drain feature is not being used, remove the drain hose from the outlet.

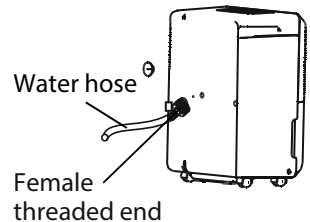


Fig. 8

Installation Instructions

Positioning the Unit

A dehumidifier operating in a basement will have little or no effect in drying an adjacent enclosed storage area, such as a closet, unless there is adequate circulation of air in and out of the area. (See Fig. 9)

- Do not use outdoors.
- This dehumidifier is intended for indoor residential applications only. This dehumidifier should not be used for commercial or industrial applications.
- Place the dehumidifier on a smooth, level floor strong enough to support the unit with a full bucket of water.
- Allow at least 8 inches of air space on all sides of the unit for good air circulation.
- Place the unit in an area where the temperature is between 5°C (41°F) and 32°C (90°F), and between 30%(RH) and 80%(RH). The coils can become covered with frost at at lower temperatures, which may reduce performance.
- Place the unit away from any clothes dryer, heater or radiator.
- Use the unit to prevent moisture damage anywhere books or valuables are stored.
- Use the dehumidifier in a basement to help prevent moisture damage.
- The dehumidifier must be operated in an enclosed area to be most effective.
- Close all doors, windows and other outside openings to the room.

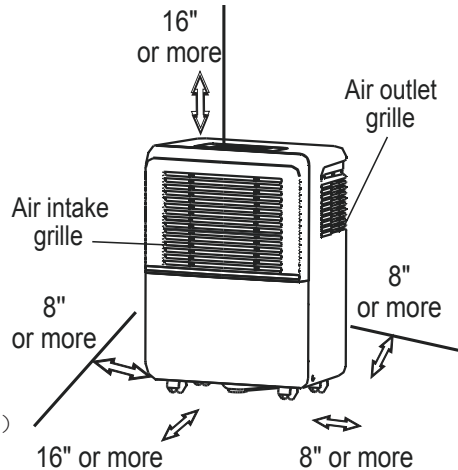


Fig. 9

NOTE

Casters (At four points on the bottom of unit)

- Casters can move freely.
- Do not force casters to move over carpet, nor move the unit with water in the bucket.
(The unit may tip over and spill water.)

Care and Cleaning

Turn the dehumidifier off and disconnect the plug from the wall before cleaning.

1. Clean the Grill and Case

- Use water and a mild detergent. Do not use bleach or abrasives.
- Do not splash water directly onto the unit. Doing so may cause an electrical shock, cause the insulation to deteriorate, or cause the unit to rust.
- The air intake and outlet may get dirty during operation, use a vacuum cleaner or brush to clean.

2. Clean the bucket

Every few weeks, clean the bucket thoroughly to prevent growth of mold, mildew and bacteria. Partially fill the bucket with clean water and mild detergent. Swish it around in the bucket, empty and rinse.

NOTE

Do not use a dishwasher to clean the bucket. After clean, the bucket must be in place and securely seated for the dehumidifier to operate.

3. Clean the air filter

- Remove the filter every two weeks based on normal operating conditions.
- Remove the filter from the top of the unit (See Fig. 10), or to remove the filter, remove Bucket then pull filter downwards (See Fig. 11).
- Wash the filter with clean water then dry.
- Re-install the filter, replace bucket.

! CAUTION

DO NOT operate the dehumidifier without a filter because dirt and lint will clog it and reduce performance

4. When not using the unit for long time periods

- After turning off the unit, wait one day before emptying the bucket.
- Clean the unit, water bucket and air filter.
- Wrap the cord and bundle it with the band (Fig. 12).
- Cover the unit with a plastic bag.
- Store the unit upright in a dry, well-ventilated place.

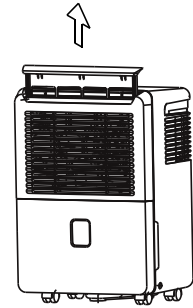


Fig. 10

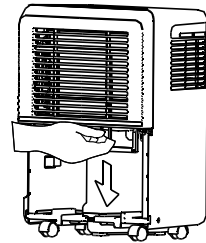


Fig. 11

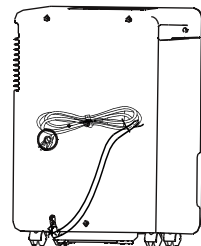


Fig. 12

Troubleshooting Tips

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

Problem	Solution
Unit does not start	Make sure the dehumidifiers plug is connected firmly into the wall outlet.
	Check the house fuse/circuit breaker box.
	Dehumidifier has reached its preset level or bucket is full.
	Water bucket is not in the proper position.
Dehumidifier does not dry the air as it should	Did not allow enough time to remove the moisture.
	Make sure there are no curtains, blinds or furniture blocking the front or back of the dehumidifier.
	The humidity control may not be set low enough.
	Check that all doors, windows and other openings are securely closed.
	Room temperature is too low, below 5°C (41°F).
	There is a kerosene heater or something giving off water vapor in the room
The unit makes a loud noise when operating	Air filter may be dirty. Clean filter. Refer to Care and Cleaning section.
	The unit is tilted instead of upright as it should be.
	The floor surface is not level.
Frost appears on the coils	This is normal. The dehumidifier has Auto defrost feature.
Water on floor	Hose to connector or hose connection may be loose.
	Intend to use the bucket to collect water, but the back drain plug is removed.
ES, AS, P2 and EC, appear in the display	These are error codes and protection code. See the CONTROL PADS ON THE DEHUMIDIFIER section.

Warranty

Air Conditioner Limited Warranty

Your product is protected by this Limited Warranty:

Warranty service must be obtained from Midea Consumer Services or an authorized Midea servicer.

Warranty

- One year limited warranty from original purchase date.

Midea, through its authorized servicers will:

- Pay all costs for repairing or replacing parts of this appliance which prove to be defective in materials or workmanship.

Consumer will be responsible for:

- Diagnostics, removal, transportation and reinstallation cost required because of service.
- Costs of service calls that are a result of items listed under NORMAL RESPONSABILITIES OF THE CONSUMER**

Midea replacement parts shall be used and will be warranted only for the period remaining on the original warranty.

NORMAL RESPONSABILITIES OF THE CONSUMER**

This warranty applies only to products in ordinary household use, and the consumer is responsible for the items listed below:

1. Proper use of the appliance in accordance with instructions provided with the product.
2. Routine maintenance and cleaning necessary to keep the good working condition.
3. Proper installation by an authorized service professional in accordance with instructions provided with the appliance and in accordance with all local plumbing, electrical and/or gas codes.
4. Proper connection to a grounded power supply of sufficient voltage, replacement of blown fuses, repair of loosen connections or defects in house wiring.
5. Expenses for making the appliance accessible for servicing.
6. Damages to finish after installation.

EXCLUSIONS

This warranty does not cover the following:

- 1) Failure caused by damage to the unit while in your possession (other than damage caused by defect or malfunction), by its improper installation, or by unreasonable use of the unit, including without limitation, failure to provide reasonable and necessary maintenance or to follow the written installation and Operating Instructions.
- 2) Damages caused by services performed by persons other than authorized Midea customer service; or external causes such as abuse, misuse, inadequate power supply or acts of God.
- 3) If the unit is put to commercial, business, rental, or other use or application other than for consumer use, we make no warranties, express or implied, including but not limited to, any implied warranty of merchantability or fitness for use or purpose.
- 4) Products without original serial numbers or products that have serial numbers which have been altered or cannot be readily determined.

NOTE: Some states do not allow the exclusions or limitation of incidental or consequential damages. So this limitation or exclusion may not apply to you.

IF YOU NEED SERVICE

Keep your bill of sale, delivery slip, or some other appropriate payment Record.

The date on the bill establishes the warranty period, should service be required.

If service is performed, it's your best interest to obtain and keep all receipts.

This written warranty gives you specific legal rights. You may also have other rights that vary from state to state.

Service under this warranty must be obtained by following these steps, in order:

- 1) Contact Midea Consumer Services or an authorized Midea services at 1 866 646 4332.
- 2) If there is a question as to where to obtain service, contact our consumer relations Department.

return policy

Questions about installing or operating your Arctic King product?

- If you still need assistance, please call Customer Service at **1-866-646-4332**.
- Have your sales receipt, serial number and product model number available when you call.

The product may be returned within 90 days of purchase with receipt. After 90 days, the product is covered under limited warranty. Please refer to the warranty section in the User Manual for details.

**save your
receipt**



