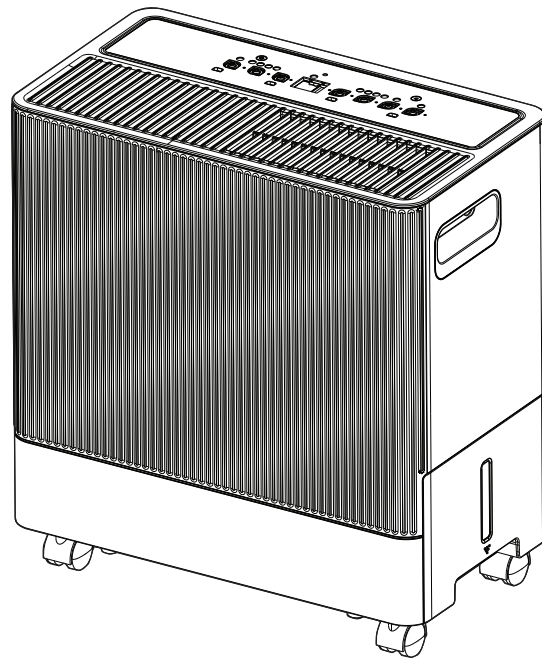


INSIGNIA™

35- or 50-Pint Dehumidifier

NS-DH35WH7 / NS-DH35WH7-C / NS-DH50WH7 / NS-DH50WH7-C



Before using your new product, please read these instructions to prevent any damage.

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Introduction




Congratulations on your purchase of a high-quality Insignia product. Your NS-DH35WH7 / NS-DH35WH7-C / NS-DH50WH7 / NS-DH50WH7-C represents the state of the art in dehumidifier design and is designed for reliable and trouble-free performance.

Important Safety Instructions

Read all instructions before use.

Keep these instructions.

Symbol explanation

	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	CAUTION	This symbol shows that information is available such as the operating manual or installation manual.

WARNING

- Do not exceed the rating of the power outlet or connection device.
- Do not operate or stop the unit by switching on or off the power.
- Do not damage or use an unspecified power cord.
- Do not modify the power cord length or share the outlet with other appliances.
- Do not insert or pull out the plug with wet hands.
- Do not install the appliance in a location that may be exposed to combustible gas.
- Do not place the unit near a heat source.
- Disconnect the power if strange sounds, smell, or smoke comes from it.

WARNING

- You should never try to take apart or repair the unit by yourself.
- Before cleaning, turn off the power and unplug the unit.
- Do not use the machine near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.
- Do not drink or use the water drained from the unit.
- Do not take the water bucket out during operation.
- Do not use the unit in small spaces.
- Do not put in places where water may splash onto the unit.

WARNING

- Place the unit on a level, sturdy section of the floor.
- Do not cover the intake or exhaust openings with cloths or towels.
- Care should be taken when using the unit in a room with the following persons: infants, children, elderly people, and people not sensitive to humidity.
- Do not use in areas where chemicals are handled. Never insert your finger or other foreign objects into grills or openings. Take special care to warn children of these dangers.
- Do not place a heavy object on the power cord and take care so that the cord is not compressed.

⚠ WARNING

- Do not climb up on or sit on the unit.
- Always insert the filters securely. Clean the filter once every two weeks.
- If water enters the unit, turn the unit off and disconnect the power. Contact a qualified service technician.
- Do not place flower vases or other water containers on top of the unit.
- Do not use extension cords.

⚠ CAUTION

- 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.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.
- Prior to cleaning or other maintenance, the appliance must be disconnected from the AC outlet.
- Do not install the appliance in a location that may be exposed to combustible gas. If combustible gas accumulates around the unit, it may cause fire.
- If the appliance 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 technician or customer service for assistance.
- Our product should not be used in a water damage environment.

⚠ CAUTION

- In a thunderstorm, the power must be cut off to avoid damage to the machine due to lightning.
- Do not run the cord under carpeting. Do not cover the cord with throw rugs, runners, or similar coverings. Do not route the cord under furniture or appliances. Arrange the cord away from traffic area and where it will not be tripped over.
- Do not operate the unit with a damaged cord or plug. Discard the unit or return it to an authorized service facility for examination and/or repair.
- To reduce the risk of fire or electric shock, do not use this appliance with any solid-state speed control device.
- The appliance shall be installed in accordance with national wiring regulations.

⚠ CAUTION

- Contact the authorized service technician for repair or maintenance of this unit.
- The manufacturer's nameplate is located on the 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 (please refer to the nameplate for the electrical data), have a qualified electrician install the proper receptacle.
- Never operate your appliance in an area where standing water may accumulate, or where it may be exposed to dripping or splashing water.
- The unit's circuit board (PCB) is designed with a fuse to provide over current protection. Specifications of the fuse are printed on the circuit board, such as: T 3.15A/250V (or 350V).

	<p>CAUTION: Risk of fire flammable materials</p>
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⚠ WARNING

- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- DO NOT modify the length of the power cord or use an extension cord to power the unit.
- DO NOT share a single outlet with other electrical appliances.
- Improper power supply can cause fire or electrical shock.
- Please follow the instruction carefully to handle, install, clear, service the appliance to avoid any damage or hazard.
- Flammable Refrigerant R32 is used within appliance.
- When maintaining or disposing the appliance, the refrigerant (R32) shall be recovered properly, shall not discharge to air directly.
- Compliance with national gas regulations shall be observed.
- Keep ventilation openings clear of obstruction.
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.

⚠ WARNING

- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry-recognized assessment specification. All training shall follow the ANNEX HH requirements of UL 60335-2-40 4th Edition.
 - Examples for such working procedures are:
 - breaking into the refrigerating circuit;
 - opening of sealed components;
 - opening of ventilated enclosures.
- No open fire or device like switch which may generate spark/arcing shall be around appliance to avoid causing ignition of the flammable refrigerant used. Please follow the instructions carefully when storing or maintaining the appliance to prevent mechanical damage from occurring.
- 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) and ignition sources or (for example: an operating electric heater) close to the appliance.
- Do not pierce or burn.
- Be aware that the refrigerants may not contain an odor.

 **CAUTION****• Transport of equipment containing flammable refrigerants**

See transport regulations.

• Marking of equipment using signs

See local regulations.

• Disposal of equipment using flammable refrigerants

See national regulations.

• Storage of equipment/appliances

The storage of the appliance should be in accordance with the applicable regulations or instructions, whichever is more stringent.

• Storage of packed (unsold) equipment

Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge. The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

• Information on servicing

Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

-Work procedure

Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.

-General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

-Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerating detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

-Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

-No ignition sources

No person carrying out work in relation to a refrigerating system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. No Smoking signs shall be displayed.

 **CAUTION****7) Ventilated area**

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

8) Checks to the refrigerating equipment Where electrical components are being changed, they shall be fit for the purpose and to the correct specifications. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance. The following checks shall be applied to installations using flammable refrigerants: the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed; the ventilation machinery and outlets are operating adequately and are not obstructed; if an

indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant; marking to the equipment continues to be visible and legible. markings and signs that are illegible shall be corrected; and refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

9) Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking; that there no live electrical components and wiring are exposed while charging, recovering or purging the system; that there is continuity of earth bonding.

- **Sealed electrical components shall be replaced.**
- **Intrinsically safe components must be replaced.**

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.

 **CAUTION****• 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 systems containing flammable refrigerants.

Electronic leak detectors shall be used to detect flammable refrigerants, but 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 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.

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. Removal of refrigerant shall be according to Removal and evacuation.

• 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).

 **CAUTION**

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.

• **Charging procedures**

In addition to conventional charging procedures, the following requirements shall be followed. 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 in an appropriate position according to the instructions. 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 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.

• **Decommissioning**

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- c) Before attempting the procedure ensure that: mechanical handling equipment is available, if required, for handling refrigerant cylinders; all personal protective equipment is available and being used correctly; the recovery process is supervised at all times by a competent person; recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with instructions.
- h) Do not overfill cylinders. (No more than 80% volume liquid charge.)
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

• **Labeling**

Equipment shall be labeled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

• **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 for the recovered refrigerant and labeled for that refrigerant (i.e., special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

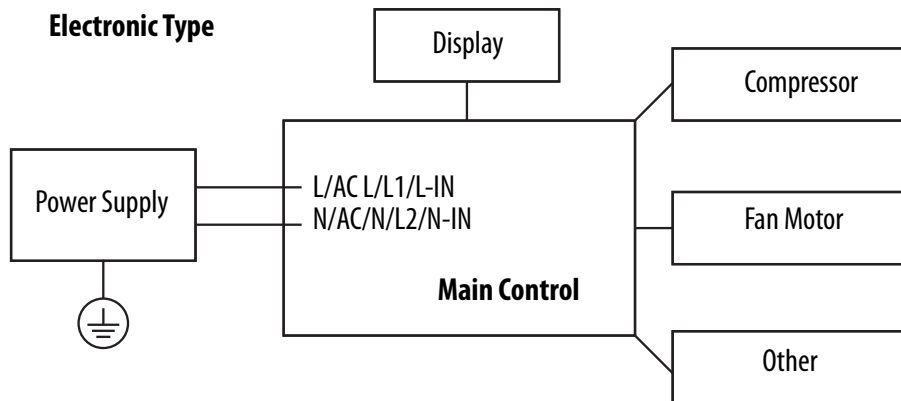
The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Electrical work

⚠ WARNING

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



Note: Please strictly follow the wiring label attached to the machine for all wiring connections. The above wiring diagram is a simplified version for preliminary illustration purposes only.

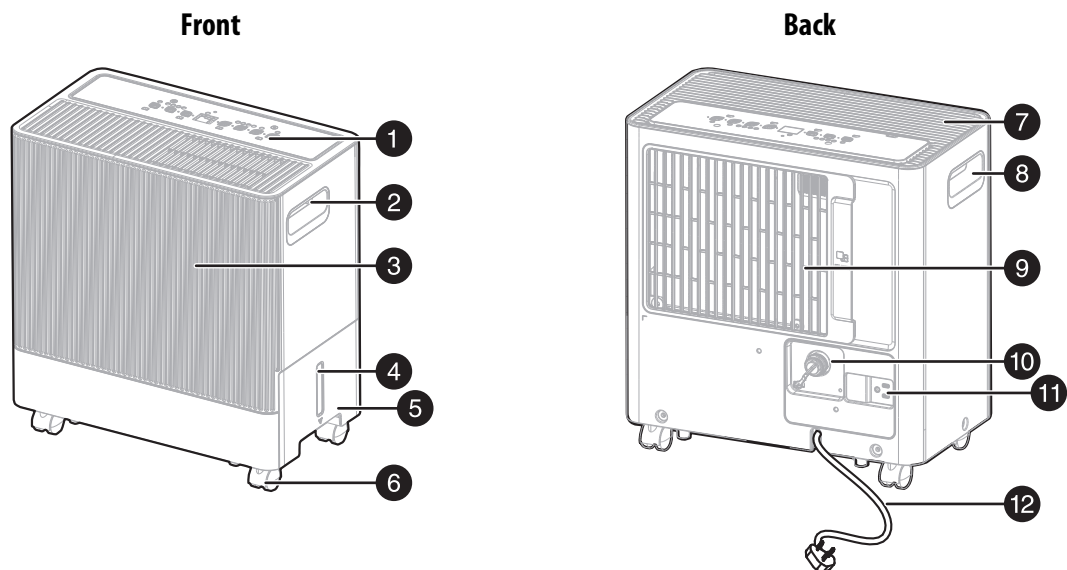
Features

- Adjustable humidistat (between 35–85% with two fan speeds) for customized control
- Comfort mode maintains a comfortable humidity relative to your room temperature
- 12.68 pt (6 L) (50-pint model) or 9.72 pt (4.6 L) (35-pint model) water bucket with auto shut-off prevents overflow
- Drain hose connection continuously empties water from the tank (drain hose not included)
- Timer function lets you schedule automatic start or stop time

Package contents

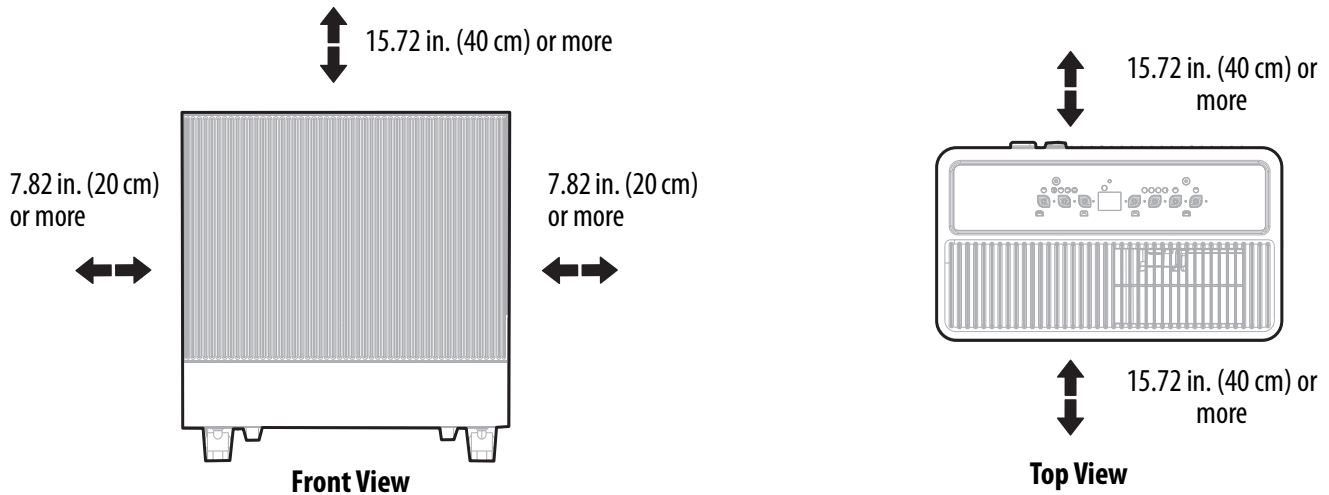
- 35- or 50-Pint Dehumidifier
- Caster wheel (4)
- *Caster Wheel Installation Guide*
- *User Guide*

Main Components



#	Part
1	Control panel
2	Handle
3	Front panel
4	Water level window
5	Water bucket
6	Caster wheel
7	Air outlet grill
8	Handle
9	Air filter (air inlet grill)
10	Continuous drain hose outlet and water plug
11	Power plug storage
12	Power cord and plug

Finding a suitable location



Note: The caster wheels can move freely. Do not force the caster wheels to move over carpet. Do not move your dehumidifier with water in the bucket as the water may spill.

Note: 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.

Connecting to power

- Select a suitable location, making sure you have easy access to an electrical outlet. See [Finding a suitable location](#) on page 12.
- Plug your dehumidifier into a 115V~60Hz wall outlet electrical socket with a grounded connection.
- Do not connect your dehumidifier to a multiple socket outlet, which is also being used for other electrical appliances.



Other considerations

- When used in an open space with open windows, condensation may form on the surface of the unit. This is normal.
- Do not use outdoors.
- Your dehumidifier is intended for indoor residential applications only.
- Your dehumidifier should not be used for commercial or industrial applications.
- Your dehumidifier is designed to operate with a working environment between 41° F (5° C) and 90° F (32° C), and between 30% Relative Humidity (RH) and 90% Relative Humidity (RH).
- Place your dehumidifier on a smooth, level floor strong enough to support it with a full bucket of water.
- Allow at least 7.82 in. (20 cm) of air space on all sides of your dehumidifier for good air circulation (at least 15.72 in. (40 cm) of air space for the air outlet).
- Place your dehumidifier in an area where the temperature will not fall below 41° F (5° C). The coils can become covered with frost at temperatures below 41° F (5° C), which may reduce performance.
- Place your dehumidifier away from clothes dryers, heaters, or radiators.
- Use your dehumidifier to prevent moisture damage anywhere books or valuables are stored.
- Use your dehumidifier in a basement to help prevent moisture damage.
- Your dehumidifier must be operated in an enclosed area to be the most effective.
- Close all doors, windows, and other outside openings to the room.
- Before moving or tilting your dehumidifier, remove the water by either taking out the bucket or using the drain hose, then disconnect the power cord.

Before first use

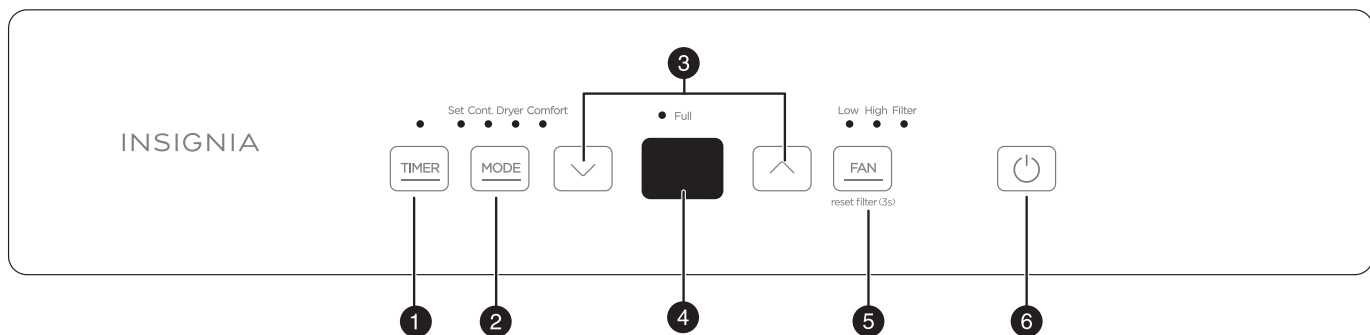
- Install the four caster wheels. See the *Caster Wheel Installation Guide* that came with your dehumidifier for instructions.
- When you first use your dehumidifier, operate the unit continuously for 24 hours. Make sure that the water plug is securely installed in continuous dehumidification mode and does not leak.
- When using in an open space with open windows, condensation may form on the surface of your dehumidifier, which is normal.
- Make sure that the water bucket is secure, otherwise your dehumidifier will not operate.
- If your dehumidifier has been switched off and needs to be switched on again quickly, wait three minutes before turning it back on again.


Using your dehumidifier

- 1 Make sure that the water plug, water bucket, and air filter are securely installed.
- 2 Turn on your dehumidifier by pressing the  (power) button.
- 3 Set the mode function to the desired humidity and mode. See [Selecting dehumidifying modes](#) on page 14.
- 4 Turn off your dehumidifier by pressing the  (power) button or by using the auto shut-off feature. See [Setting the auto start/stop timer](#) on page 14.


Note: If the unit has been switched off and needs to be switched on again quickly, allow approximately three minutes for operation to resume correctly.

Understanding the control panel





#	Part	Function
1	TIMER button	Press to set the auto start or auto stop function.
2	MODE button	Press to select between the following modes: Set, Cont., Dryer, or Comfort.
3	^ (up) and v (down) buttons	Press to adjust the humidity level and timer settings.
4	Display	Shows the ambient humidity and set humidity (humidity range: 30% to 90%) and the timer setting (timer range: 24 hours). It also shows any possible error codes.
5	FAN button	Press to select the fan speed of low or high.
6	 (power) button	Press to turn your dehumidifier on or off.

Turning on your dehumidifier

Press the  (power) button to turn your dehumidifier on or off.

Setting the auto start/stop timer

- 1 Turn off your dehumidifier to set the auto start or make sure that your dehumidifier is on to set the auto stop.
- 2 Press the **TIMER** button to turn on the auto start or auto stop time.
- 3 Press or hold the  (up) and  (down) buttons to change the auto start or auto stop time by .5-hour increments up to 10 hours, then at 1-hour increments up to 24 hours. The selected time displays for five seconds, the system automatically returns to displaying the humidity, and the timer indicator light glows blue when the timer is set.



Note: The timer can be adjusted to increase or decrease to a maximum of 24 hours. After the timer setting is complete, press the **TIMER** button again to check the timer setting status. You can cancel the timer by setting the time to "0.0".

Selecting dehumidifying modes

Press the **MODE** button to select the mode you want: Set > Cont. > Dryer > Comfort. The corresponding indicator light glows blue.

Note: The humidity setting can only be adjusted in Set mode and cannot be adjusted in Dryer, Cont., or Comfort mode. After changing to Set mode, the set humidity shows on the display, then after five seconds the ambient humidity shows on the display.

Setting Dehumidifying Mode (Set)

Press the **MODE** button to select the dehumidifying mode, then adjust the desired humidity by pressing the  (up) and  (down) buttons.

Note: Humidity can be set from 35% to 85%, with a 5% adjustment per press.

Setting Continuous Dehumidifying Mode (Cont.)

Press the **MODE** button to select the continuous dehumidifying mode. Your dehumidifier operates for the set amount of time selected. See [Setting the auto start/stop timer](#) on page 14. You can also leave the time at 0.0., which will result in the dehumidifier running continuously. The compressor will shut off for 10 minutes after running for eight hours, then automatically restart.

Note: Humidity cannot be adjusted in this mode. To adjust humidity, change to Set mode.

Setting Dryer Mode (Dryer)

Press the **MODE** button to select the dryer mode. Your dehumidifier operates in continuous dehumidifying and high fan speed mode, intended for drying wet or damp clothes.

Note: Thick or heavy wet clothes may not receive the most effective dehumidification.

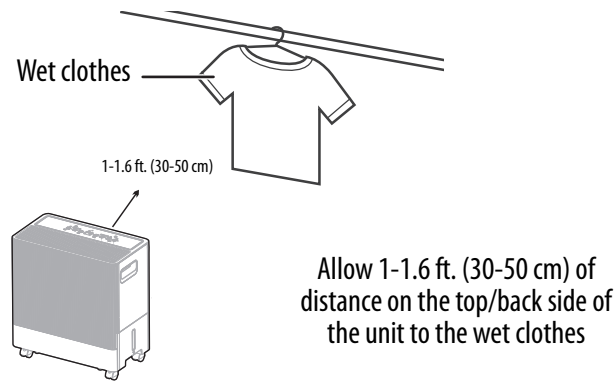
 **WARNING: Risk of electrical shock.**

Do not place your dehumidifier where water may splash onto your dehumidifier. If water enters your dehumidifier, turn it off and disconnect the power, then contact a qualified service technician.

Note: Humidity cannot be adjusted in this mode. To adjust humidity, change to Set mode.

- 1 Close any nearby doors and windows when using this mode.
- 2 Dry wet clothes first for the most effective dehumidification.

- 3 Direct your dehumidifier's airflow towards the wet clothes.



Setting Smart Dehumidifying Mode (Comfort)

Press the **MODE** button to select the smart dehumidifying mode. Your dehumidifier automatically adjusts based on the ambient temperature to reach the set humidity.

Note: Humidity cannot be adjusted in this mode. To adjust humidity, change to Set mode.

Using the up and down buttons to set the humidity and timer

- Press the \wedge (up) and \vee (down) buttons to set the humidity level within a range of 35% (RH) to 85% (RH) by 5% increments.
- Press the \wedge (up) and \vee (down) buttons to set the auto start and auto stop time from 00:00 to 24:00 by .5-hour increments up to 10 hours, then at 1-hour increments up to 24 hours.

Setting the fan speed

Press the **FAN** button to select the fan speed: Low > High. The corresponding fan speed indicator light glows blue.

Understanding the additional features

Understanding the auto shut-off

Your dehumidifier automatically shuts off when the water bucket is full, when the water bucket is removed, or if the water bucket is not replaced in the proper position.

- 1 Carefully remove the water bucket, then empty the water. See [Emptying the water bucket](#) on page 17.
- 2 Replace the water bucket. Make sure that it is secure, otherwise your dehumidifier will not operate.

Note: The fan motor may continue to run for up to 30 seconds, then turn off.

Understanding the check air filter indicator

Your dehumidifier's system counts the time that the fan motor operates. The check filter feature only turns on when your dehumidifier runs for 250 hours or more.

When the reset (clean filter) indicator light flashes:

- 1 Remove and clean the air filter. See [Cleaning the air filter](#) on page 16.
- 2 Replace the air filter.
- 3 Press and hold the **FAN** button for three seconds. The reset indicator light turns off.

Understanding the auto-restart

If your dehumidifier turns off unexpectedly due to a power cut, it restarts with the previous settings automatically when the power comes back on.

Cleaning and Maintenance

⚠ CAUTION: Risk of injury.

Turn off and unplug your dehumidifier before cleaning and maintenance.

Cleaning the grill and case

- Clean the air intake and outtake grills frequently with a vacuum attachment or a brush.
- Use water and a mild detergent to clean the grill and case. Do not use bleach or abrasives.

⚠ WARNING: Risk of electrical shock.

Do not splash water directly onto your dehumidifier. Doing so may result in electrical shock, cause the insulation to deteriorate, or cause your dehumidifier to rust.

Cleaning the water bucket

It is recommended to clean the water bucket every few weeks to prevent mold, mildew, and bacteria growth.

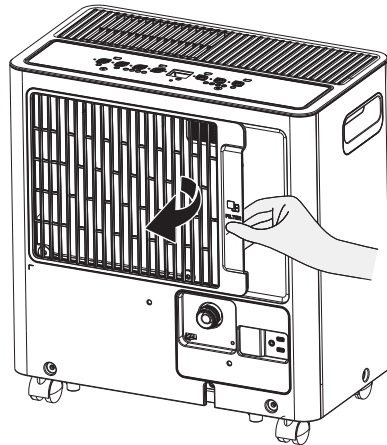
Note: The water bucket is not dishwasher safe. Do not wash the water bucket in a dishwasher.

- 1 Remove the water bucket from your dehumidifier and drain any water. See [Emptying the water bucket](#) on page 17.
- 2 Fill the water bucket with clean water, add 1 teaspoon of white vinegar, then allow to sit for 30 minutes.
- 3 Swish the cleaner around the bucket, then empty it and rinse thoroughly.
- 4 Dry the water bucket thoroughly, then replace it in your dehumidifier. Make sure that it is secure, otherwise your dehumidifier will not operate.

Cleaning the air filter

It is recommended to clean the air filter every two weeks based on normal operating conditions.

- 1 Pull the air filter away from your dehumidifier to remove it.



- 2 Wash the air filter with clean water, then dry thoroughly.
- 3 Replace the filter. Make sure that it is secure.

Note: Do not operate your dehumidifier without a filter. Dirt and lint will clog it and reduce performance.

Emptying the water bucket

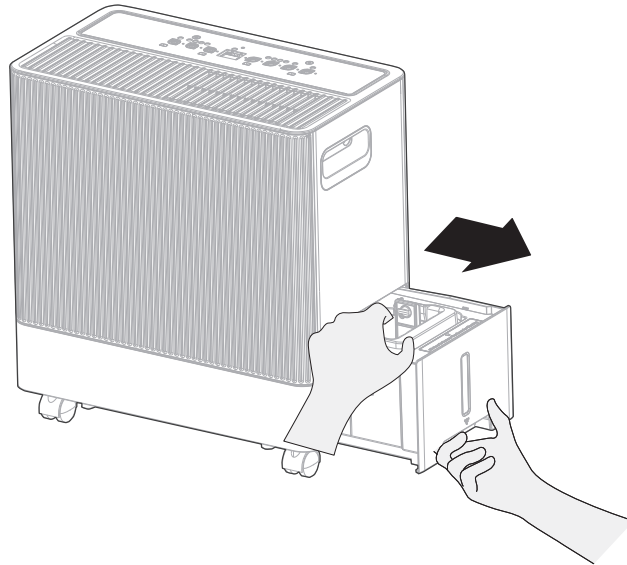
If your dehumidifier is off and the water bucket is full, the full indicator light glows blue.

If your dehumidifier is on and the water bucket is full, the compressor and the fan turn off, the full indicator light glows blue, and the display shows P2.

Draining with the water bucket

- 1 Gently pull the water bucket halfway out.

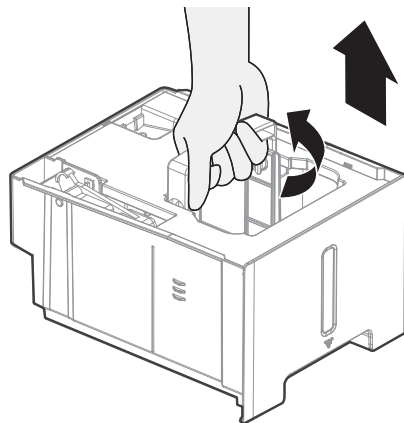
Note: When you remove the bucket, do not touch any parts inside of your dehumidifier. Doing so may cause damage.



- 2 Pull up on the handle and lift the water bucket up slowly to prevent water from spilling.

⚠ WARNING: Risk of electrical shock.

If any water spills in your dehumidifier while removing the water bucket, dry it immediately.

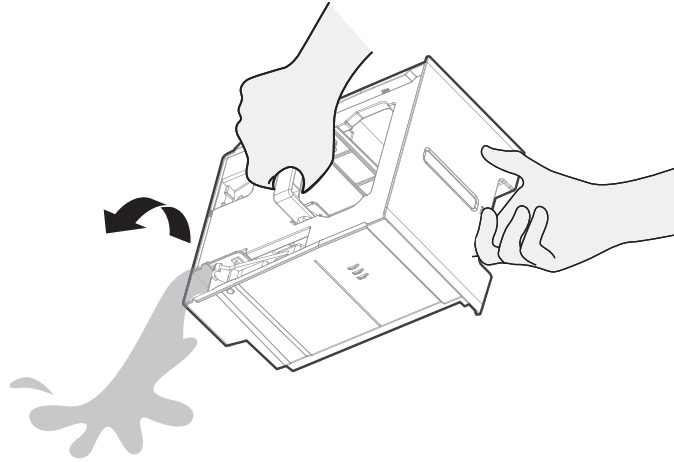


Notes:

- If your dehumidifier is off and the bucket is removed, it beeps eight times and the display shows "Eb." If your dehumidifier is on and the bucket is removed, the compressor and fan turn off, then it beeps eight times and the display shows "Eb."
- If the pump hose drops when you remove the bucket, you must reinstall it before replacing the water bucket. See [Draining with the drain hose \(not included\)](#) on page 18.

- 3 Dispose of the water and replace the water bucket. Make sure that it is secure, otherwise your dehumidifier will not operate. Your dehumidifier turns on automatically after three minutes.

Note: Make sure that you replace the water bucket gently. Roughly handling the water bucket or not placing it securely may cause damage to your dehumidifier or cause it not to operate.



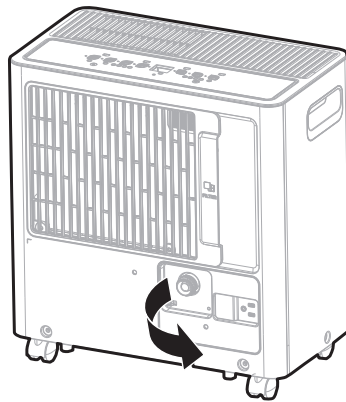
Draining with the drain hose (not included)

Water can be automatically emptied into a floor drain by attaching a 5/16 in. (8 mm) drain hose (not included) to a female threaded end (SPEC M26).

- 1 Gently remove the water plug.

⚠ WARNING: Risk of electrical shock.

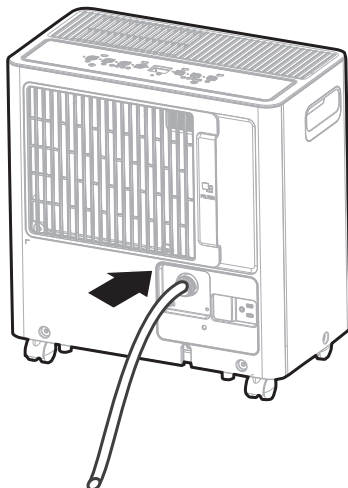
If any water spills in your dehumidifier while removing the water plug, dry it immediately.



- 2 Insert the drain hose through the drain outlet, then place the other end of the drain hose next to a floor drain or drainage facility.

Notes:

- Make sure that the drain hose is secure so that there are no leaks, and the end of the hose is level and down so the water flows smoothly.
- Make sure that the hose is directed toward the drain with no kinks that could stop water flow. Make sure that the drain hose is lower than the drain hose outlet.

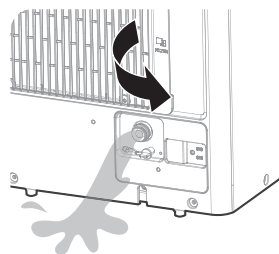
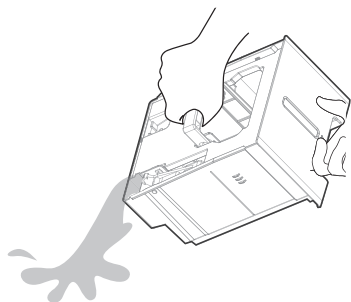


- 3 Turn on your dehumidifier by pressing the $\text{\textcircled{P}}$ (power) button.
 4 Set the mode function to the continuous dehumidifying mode to begin draining.
 5 Turn off your dehumidifier and remove the drain hose after draining, then dry any water that may have spilled into your dehumidifier.

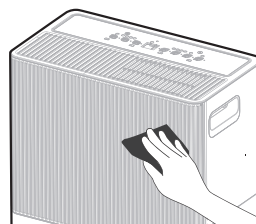
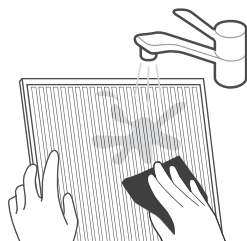
Storing your dehumidifier

If your dehumidifier will not be used for a long period of time:

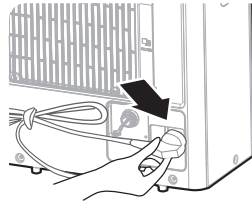
- 1 Dispose of any water in the water bucket. See [Emptying the water bucket](#) on page 17.



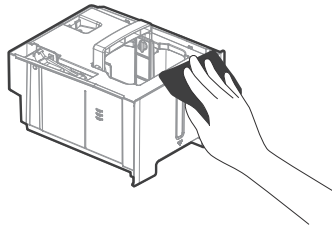
- 2 Clean the outside of your dehumidifier, the water bucket, and the air filter, then dry thoroughly. See [Cleaning the grill and case](#) on page 16, [Cleaning the water bucket](#) on page 16, and [Cleaning the air filter](#) on page 16.



- 3 Wrap the power cord with the power cord buckle, then insert it into the power plug storage.



- 4 Replace the water bucket.



Note: Make sure that all parts are dry before replacing.

- 5 Place your dehumidifier vertical on a level surface, then cover it with a plastic bag or blanket to prevent scratches or dust.
- 6 Store upright in a dry, well-ventilated area.

⚠ CAUTION

The unit should not be stored or tilted at an angle greater than 30 degrees.

Troubleshooting

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
My dehumidifier does not start.	No power.	<ul style="list-style-type: none"> • Make sure that the plug is completely inserted into a working outlet. • Check the house fuse/circuit breaker box.
	The water bucket is not in the correct position.	Make sure that the water bucket is securely in place.
	The water bucket is full.	Your dehumidifier has an auto shut-off feature if the water bucket is full. If the water bucket is full, empty it. See Setting the auto start/stop timer on page 14 and Emptying the water bucket on page 17.
My dehumidifier is not drying the air.	Not enough time has passed.	Allow enough time to pass for your dehumidifier to remove moisture.
	Your dehumidifier is blocked.	Make sure that there are no curtains, blinds, or furniture blocking your dehumidifier.
	The humidity control is set too low.	Set the humidity control higher.
	The room has too much circulation.	Close any doors and windows in the room.
	The room temperature is too low (below 41°F (5°C)).	Increase the room temperature to allow for dehumidification.
	Something in the room is producing water vapor.	Make sure that there are no objects, such as a kerosene heater, that may be giving off water vapor in the room.
	The room is too large.	Your dehumidifier is recommended for rooms up to 2000 sq. ft. (35 pt unit) or 3000 sq. ft. (50 pt unit).
My dehumidifier makes a loud noise when operating.	The air filter is clogged.	Make sure that the air filter is clean. See Cleaning the air filter on page 16.
	Your dehumidifier is tilted instead of upright.	Make sure that your dehumidifier is vertical and on a level surface.
	The floor is not level.	Make sure that your dehumidifier is placed on a flat, level surface.
Frost appears on the coils.	Normal operation.	This is normal. Your dehumidifier has an auto defrost feature.
There is water on the floor.	The hose connection may be loose.	Make sure that the connection between the drain hose and your dehumidifier and the drain hose and the female threaded end is secure.
	The water plug is removed.	Make sure that the water plug is securely in place. If the drain is removed because you are emptying the water bucket and water spilled, dry the water immediately.
ES, AS, P2, or EB show on the display.	Error code detection.	See Understanding the LED display error codes on page 22 for error code information.
My dehumidifier will not let me change the humidity level.	Dehumidifier is not in Set mode (is in Cont., Comfort, or Drying mode).	Make sure that your dehumidifier is on Set mode to change the humidity level. See Selecting dehumidifying modes on page 14.

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
My dehumidifier just turned off.	No power.	<ul style="list-style-type: none"> • Make sure that the plug is completely inserted into a working outlet. • Check the house fuse/circuit breaker box.
	The desired humidity level was reached.	Your dehumidifier turns off if the desired humidity level is reached, then turns back on when a change in humidity is detected. This is normal.
	The auto shut-off time was reached.	Your dehumidifier may have reached the auto shut-off time. See Setting the auto start/stop timer on page 14.

Understanding the LED display error codes

The display shows the ambient humidity and set humidity (humidity range: 30% to 90%) and the timer setting (timer range: 0-24 hours). It also shows any possible error codes.

Error Code	Meaning	Instruction
ES/EH61	Evaporator coil temperature sensor error	Unplug your dehumidifier and plug it back in. If the error repeats, take your dehumidifier to the nearest authorized service center.
AS/EH60	Room temperature sensor error	Unplug your dehumidifier and plug it back in. If the error repeats, take your dehumidifier to the nearest authorized service center.
P2	Water bucket is full or not in the right position	Empty the water bucket and replace it. Make sure that it is secure.
EH00	Indoor EEPROM error	Unplug your dehumidifier and plug it back in. If the error repeats, take your dehumidifier to the nearest authorized service center.

Specifications

NS-DH35WH7 / NS-DH35WH7-C

Dimensions (H x W x D)	15.9 x 18.5 x 8.9 in. (40.39 x 47 x 22.61 cm) without casters 16.8 x 18.5 x 8.9 in. (42.8 x 47 x 22.61 cm) with casters
Net weight	34.72 lbs. (15.75 kg) with casters
Power supply	115V, 60Hz
Humidistat range (% relative humidity)	35% (RH) to 85% (RH)
Dehumidification capacity	35 pt/day (16.6 L/day)
Working room temperature	41° F (5° C) to 90° F (32° C)
Water bucket capacity	9.61 pt (4.6 L)
Noise level	≤56 dB
Timer range	0-24 hours
Maximum recommended room size	2,000 sq ft.
Power cord length	6 ft. (1.83 m)

NS-DH50WH7 / NS-DH50WH7-C

Dimensions (H x W x D)	19 x 18.8 x 9.9 in. (48.26 x 48.01 x 25.2 cm) without casters 19.9 x 18.9 x 9.9 in. (50.6 x 48.01 x 25.2 cm) with casters
Net weight	41.78 lbs. (18.95 kg) with casters
Power supply	115V, 60Hz
Humidistat range (% relative humidity)	35% (RH) to 85% (RH)
Dehumidification capacity	50 pt/day (23.7 L/day)
Working room temperature	41° F (5° C) to 90° F (32° C)
Water bucket capacity	12.7 pt (6 L)
Noise level	≤56 dB
Timer range	0-24 hours
Maximum recommended room size	3,000 sq ft.
Power cord length	6 ft. (1.83 m)

ONE-YEAR LIMITED WARRANTY

Best Buy, or its Authorized Partner of Insignia branded products, warrants to you, the original purchaser of this new Insignia branded product ("Product"), that the Product shall be free of defects in the original manufacture of the material or workmanship for a period of one (1) year from the date of your purchase of the Product or the date of delivery (if later than the date of purchase) ("Warranty Period").

For this warranty to apply, your Product must be (i) purchased in the United States or Canada from a Best Buy branded retail store, online at www.bestbuy.com or www.bestbuy.ca, or from Best Buy's Authorized Partner, and (ii) packaged or sold with this warranty statement.

The term "Best Buy", as used in this warranty, refers to Best Buy branded retail stores, www.bestbuy.com, www.bestbuy.ca, and Best Buy's Authorized Partner.

Because Insignia cannot control the quality of products sold by unauthorized sellers, this warranty applies only to Products that were purchased from Best Buy or an Insignia Authorized Partner, unless otherwise prohibited by law. Insignia reserves the right to reject warranty claims for Products purchased from unauthorized sellers, including unauthorized websites.

REPAIR OR REPLACEMENT, AS PROVIDED UNDER THIS WARRANTY, IS YOUR EXCLUSIVE REMEDY FOR BREACH OF WARRANTY. INSIGNIA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, LOST DATA, LOSS OF USE OF YOUR PRODUCT, LOST BUSINESS, OR LOST PROFITS. INSIGNIA PRODUCTS MAKES NO OTHER EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT. ALL EXPRESSED AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE AND NO WARRANTIES, WHETHER EXPRESSED OR IMPLIED, WILL APPLY AFTER THE WARRANTY PERIOD. SOME STATES, PROVINCES, AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON (i) HOW LONG AN IMPLIED WARRANTY LASTS, (ii) EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, or (iii) LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS 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.

How long does the coverage last?

The Warranty Period lasts for 1 year (365 days) from the date you purchased the Product or the date of delivery (if later than the date of purchase). Your purchase date is printed on the receipt you received with the Product. In the event that Authorized Partner ceases to sell the covered Insignia branded product, this warranty shall terminate for that product and there shall be no repair or replacement of the Product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a Best Buy retail store location or from a Best Buy online website (www.bestbuy.com or www.bestbuy.ca), please take your original receipt and the Product to any Best Buy store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased your Product from an Authorized Partner, call Insignia at 1-877-467-4289.

To obtain warranty service, in the United States and Canada call 1-877-467-4289. Call agents may diagnose and correct the issue over the phone.

If you purchased the Product from an Authorized Partner other than Best Buy, please call 1-888-BESTBUY in the United States or 1-866-BESTBUY in Canada. You will be asked to provide proof of purchase and to return your Product to Best Buy. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

Where is the warranty valid?

This warranty is valid only in the United States and Canada to the original purchaser of the product from an Authorized Partner, in the country where the original purchase was made.

What does the warranty not cover?

This warranty does not cover:

- Food, beverage, and or medicine loss/spoilage.
- Damage to other products caused by a power surge or other similar issue while connected to the Product.
- Customer instruction/education.
- Installation.
- Set up adjustments.
- Cosmetic damage.
- Damage due to weather, lightning, and other acts of God, such as power surges.
- Accidental damage.
- Misuse.
- Abuse.
- Negligence.
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna.
- Display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance.
- Connection to an incorrect voltage or power supply.
- Damage due to attempted repair by any person not authorized by Insignia to service the Product.
- Products sold "as is" or "with all faults".
- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.).
- Products where the factory applied serial number has been altered or removed.
- Loss or Theft of this product or any part of the product.
- Display panels containing up to three (3) pixel failures (dots that are dark or incorrectly illuminated) grouped in an area smaller than one tenth (1/10) of the display size or up to five (5) pixel failures throughout the display. (Pixel based displays may contain a limited number of pixels that may not function normally.)
- Failures or Damage caused by any contact including but not limited to liquids, gels or pastes.

Contact Insignia:

1-877-467-4289

www.insigniaproducts.com

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