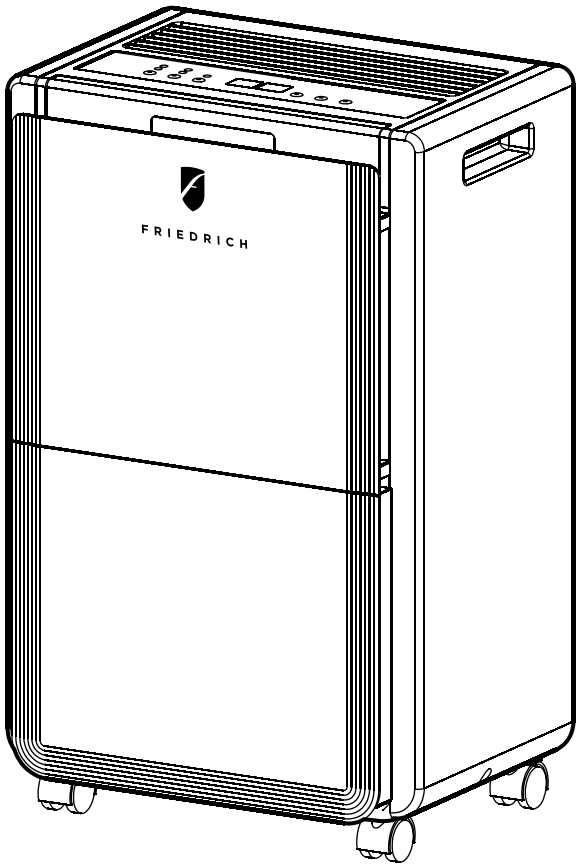
Installation and Operation Manual

FRIEDRICH™

Dehumidifier

D35B1B, D50B1B



Models

D35B1B	Volts: 115/60Hz	Capacity: 35 Pints	Moisture Removal: 35 Pint/Day
D50B1B	Volts: 115/60Hz	Capacity: 50 Pints	Moisture Removal: 50 Pint/Day

97991000_01

Congratulations!

Thank you for your decision to purchase the Friedrich Dehumidifier. Please read thoroughly of this Installation and Operation Manual.

THANK YOU, on behalf of our entire company, for making such a wise purchase.

Table of Contents

THINK SAFETY FIRST	⚠ WARNING	⚠ AVERTISSEMENT	⚠ ADVERTENCIA
	Do not remove, disable or bypass this unit's safety devices. Doing so may cause, fire, injuries or death.	Ne pas supprimer, désactiver ou contourner cette l'unité des dispositifs de sécurité. faire vous risqueriez de provoquer, le feu, les blessures ou la mort.	No eliminar, desactivar o pasar por alto los dispositivos de seguridad de la unidad. Si lo hace podría producirse fuego, lesiones o muerte.

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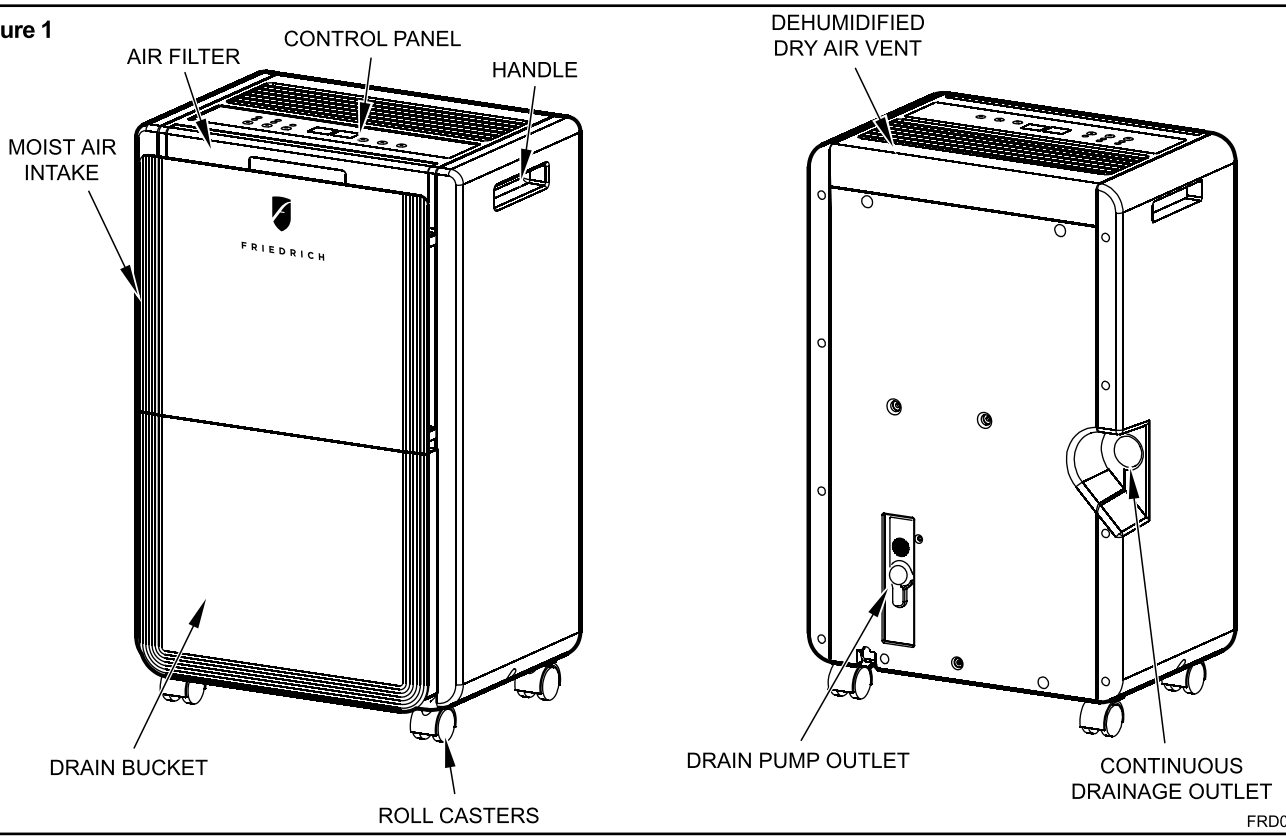
DESCRIPTION OF COMPONENTS

Figure 1



FRD001

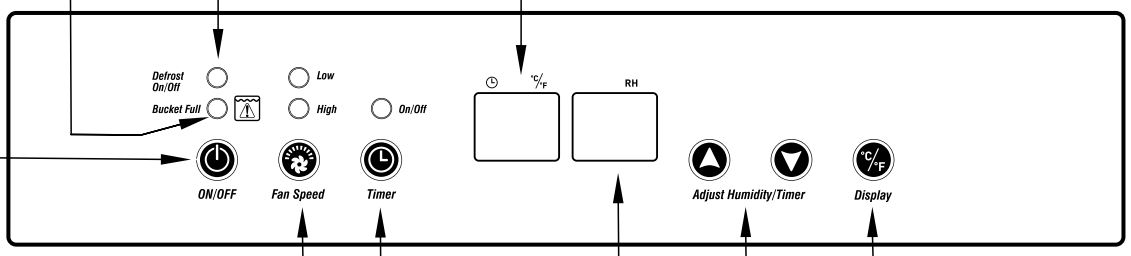
FUNCTION EXPLANATION

Figure 2

BUCKET FULL LAMP
LAMP LIGHTS WHEN DRAIN BUCKET IS FULL AND NEEDS TO BE EMPTIED.

DEFROST LAMP
LAMP LIGHTS WHEN UNIT IS DEFROSTING (SEE PAGE 5).

CURRENT TEMP / TIMER SET DISPLAY
WHEN THE UNIT IS RUNNING THE CURRENT TEMP IS DISPLAYED. WHEN THE **TIMER** BUTTON IS PRESSED THIS WINDOW DISPLAYS THE TIMER SETTING THEN REVERTS BACK TO THE TEMPERATURE AFTER 10 SECONDS.



FAN SPEED
HIGH/LOW

POWER
ON/OFF

TIMERS
WHEN THE UNIT IS ON PRESS THE **TIMER** BUTTON TO DISPLAY THE POWER OFF TIMER. SELECT FROM 1-24 HOURS OF RUNNING TIME UNTIL THE UNIT SHUTS OFF AUTOMATICALLY. WHEN THE UNIT IS OFF PRESS THE **TIMER** BUTTON TO DISPLAY THE POWER ON TIMER. SELECT FROM 1-24 HOURS UNTIL THE UNIT WILL TURN ON AUTOMATICALLY.

CURRENT HUMIDITY DISPLAY
DISPLAYS THE CURRENT RELATIVE HUMIDITY (RH) IN THE ROOM. WHEN THE ▲ OR ▼ IS PRESSED THE HUMIDITY SETTING IS DISPLAYED.

SET HUMIDITY
ADJUST THE HUMIDITY % FROM 30% TO 90% RH BY PRESSING THE ▲ OR ▼ BUTTONS. HUMIDITY IS ADJUSTED IN 5% INCREMENTS.

°C/°F SELECTOR
PRESS THE °C/°F SWITCH BUTTONS IT WILL SWITCH BETWEEN °C AND °F.

Note: When operating the dehumidifier for extended periods (greater than 23 hours continuously) the dehumidifier will operate for 23 hours on then 1 hour off in order to reset the system. During the off period “SA” will show in the display window. The unit will restart automatically after the hour is complete.

FRD002

INSTALLATION INSTRUCTIONS

Follow the steps below for unpacking and set up your unit.

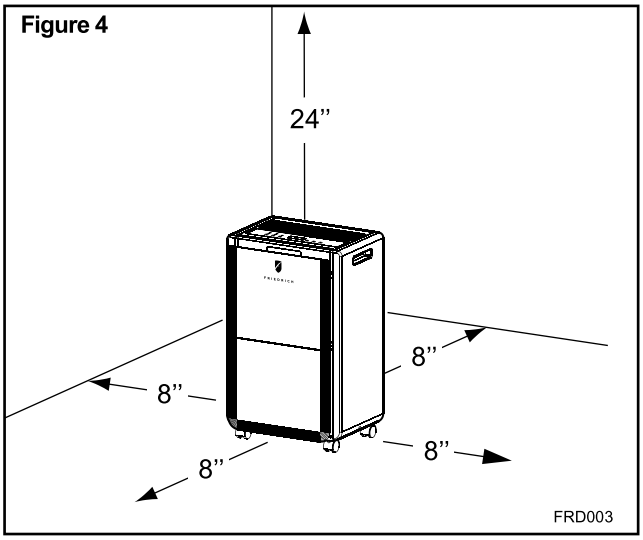
STEP 1. Remove unit from carton and inspect.

STEP 2. Remove accessories from drain bucket.

STEP 3. Set up unit in position with adequate clearance. Installation of unit is complete.

Allow at least 8 inches of space all around the unit and at least 24 inches of space above the unit.

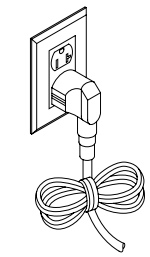
Figure 4



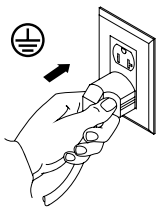
OPERATION INSTRUCTIONS

⚠WARNING

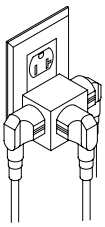
Electrical Hazards



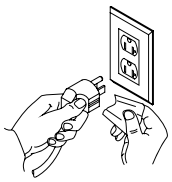
Do not fold power cord as shown at left.



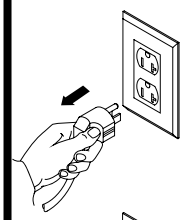
Make sure the plug is placed fully and firmly into the receptacle.



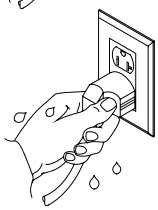
Do not use multiple sockets as shown at left.



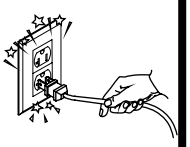
Make sure the plug is clean.



After turning the unit off please take plug out of the receptacle.



Do not have wet hands when connecting the power plug.



Do not pull the power cord to avoid a broken cord, which can lead to danger.

Start Operation

STEP 1. Place the unit in an upright position on a flat, steady, stable and heat resistant surface. Make sure there is nothing flammable or heat sensitive within 39 inches. Operating the product in any other position could cause a hazard.

⚠WARNING

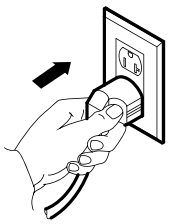
Electrical Shock Hazard

Make sure your electrical receptacle has the same configuration as your dehumidifier's plug. If different, consult a Licensed Electrician.

Do not use plug adapters.
Do not use an extension cord.
Do not remove ground prong.

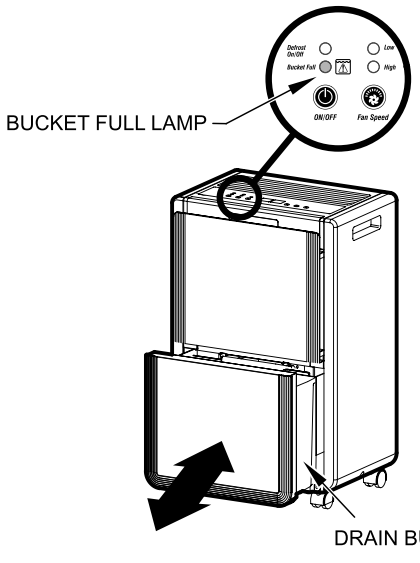
Always plug into a grounded 3 prong oulet. Failure to follow these instructions can result in death, fire, or electrical shock.

STEP 2. Insert the plug into a suitable wall socket. The dehumidifier is suitable for operation on an electricity supply having the same voltage as that shown on its rating label.



STEP 3. Make sure the **Drain Bucket** is correctly placed in the proper position (See Figure 5). (After switching the unit 'ON" for the first time, if the **Bucket Full** lamp illuminates, just pull out the drain bucket; check to ensure that the **float** lever is able to move freely, then return the drain bucket to the correct position).

Figure 5

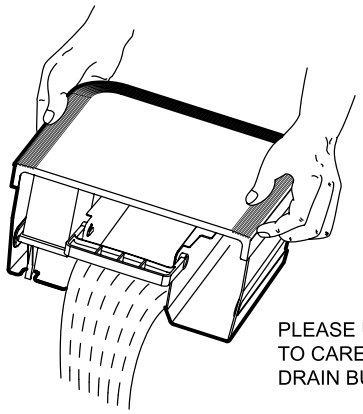


FRD004

When Bucket Full Lamp Is On

When the drain bucket is full, the **Bucket Full** lamp will illuminate and the unit will stop operating. The drain bucket should be carefully removed from the unit by sliding it outwards (See Figure 6) and should be emptied. Then place the empty drain bucket back to its proper position, (See Figure 7) the unit will start operating and run normally.

Figure 6



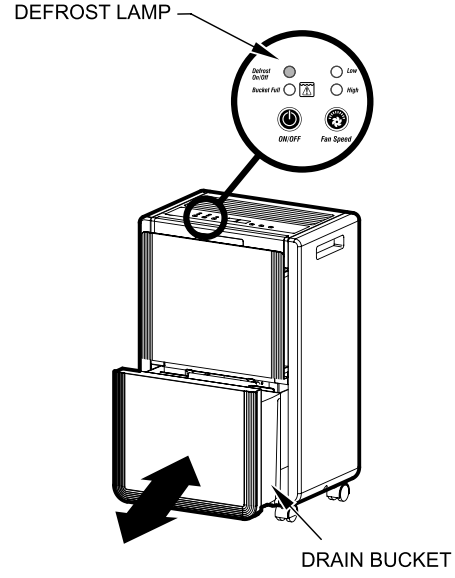
FRD005

Defrost

When the unit is operated in low temperatures (less than 54 °F the surface of the evaporator will accumulate a layer of frost which will reduce the efficiency of the dehumidifier. When this happens the unit will go into periodic defrost mode automatically. The Defrost Lamp will illuminate on control panel, this is quite normal (See Figure 7).

The dehumidifier will operate in temperatures down to 41 °F. The time it takes to defrost may vary. If the unit freezes up it should be turned off at the power supply for a few hours and then re-started. If the room temperature remains below 41 °F the unit should be switched off. It is not recommended to use the dehumidifier in temperatures below 41 °F.

Figure 7

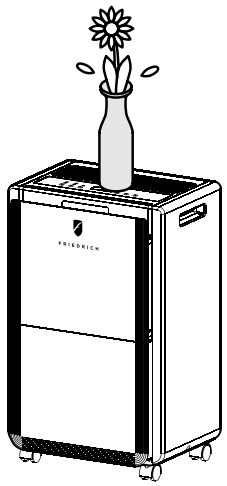


FRD006

OPERATING DO'S AND DON'TS

Do not place anything on top of the unit or control panel (See Figure 8).

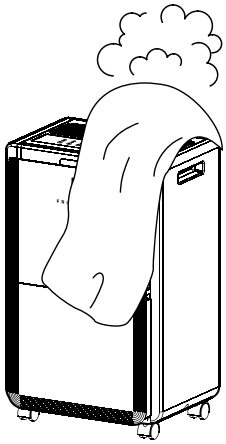
Figure 8



FRD007

Do not place anything over the inlet or outlet points (See Figure 9).

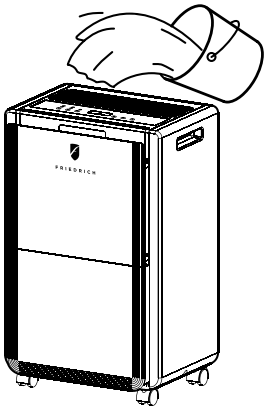
Figure 9



FRD008

Do not wet the unit or the control panel (See Figure 10).

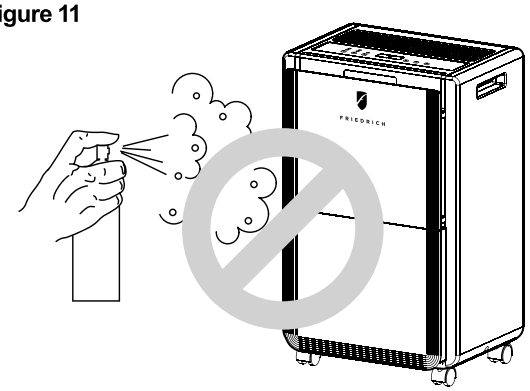
Figure 10



FRD010

Do not use insect, oil or paint spray around the unit (See Figure 11), it might cause damage to the plastic parts or start a fire.

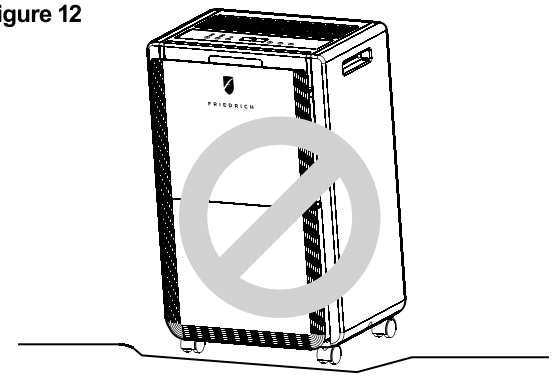
Figure 11



FRD014

Do not place the unit on an uneven surface (See Figure 12), to avoid shaking, noise and leakage of water.

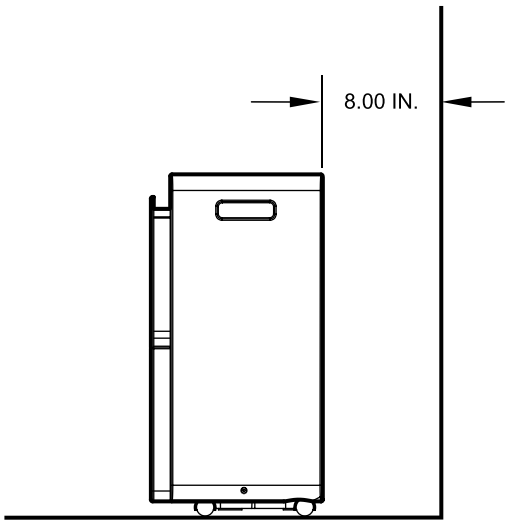
Figure 12



FRD015

Do always keep the unit 8 in. away from the wall (See Figure 13) to dissipate the heat properly.

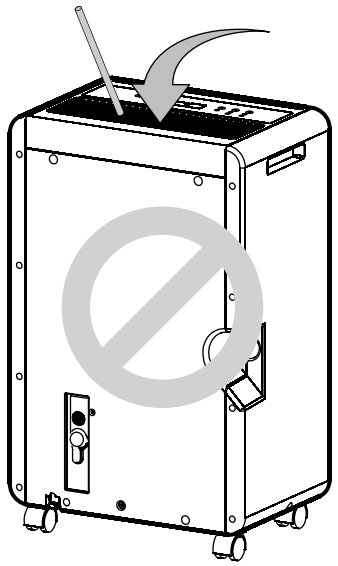
Figure 13



FRD016

Do not put any foreign objects into the unit, it is dangerous and will result in damage to the unit (See Figure 14).

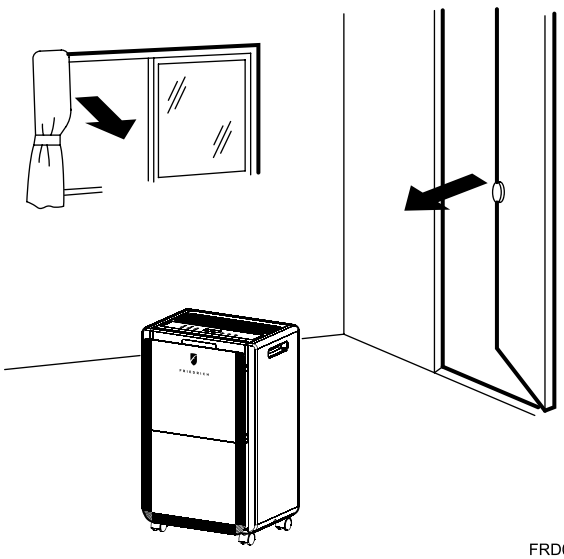
Figure 14



FRD017

Do close all open windows to reach the maximum possible efficiency of dehumidifier removing moisture (See Figure 15).

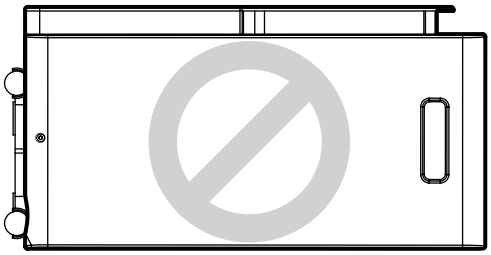
Figure 15



FRD018

When moving or putting unit in storage, do not place the unit on its side or upside down and avoid violent shaking (See Figure 16).

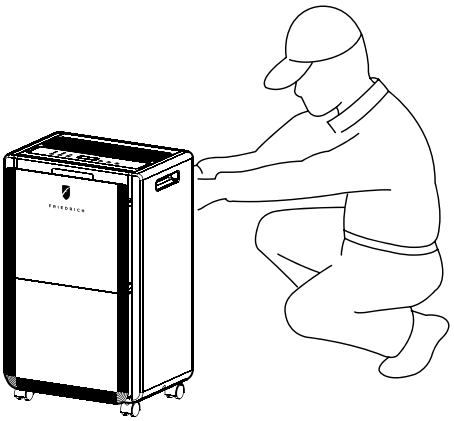
Figure 16



FRD020

Do ask professional service technicians to service the unit as required (See Figure 17).

Figure 17

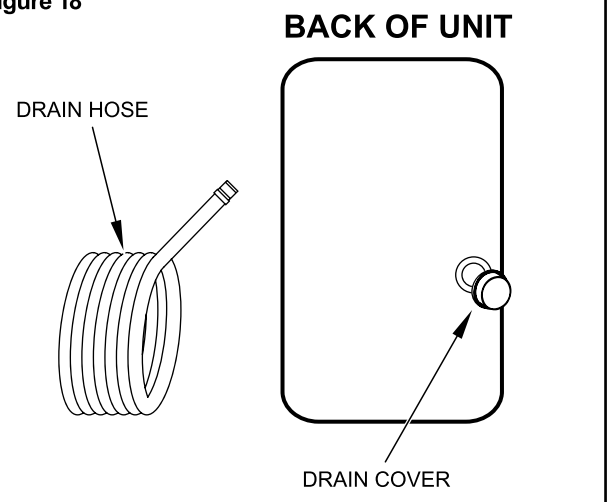


FRD012

CONTINUOUS DRAINAGE

To save having to periodically empty the drain bucket, this unit can be configured for continuous drainage. You can use the supplied drain hose to connect to the continuous drainage connector (See Figure 18).

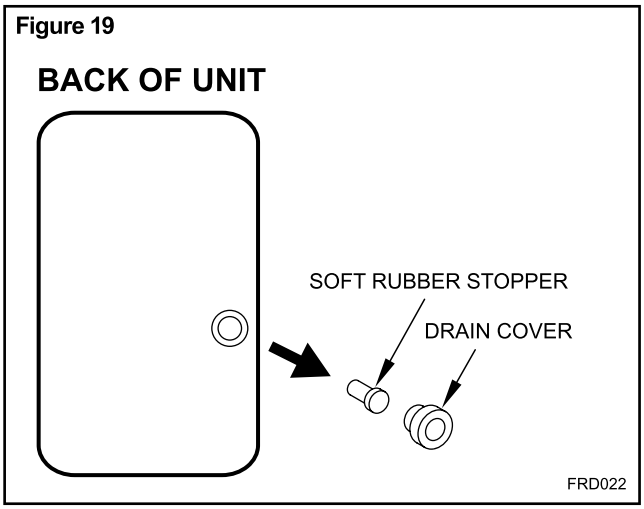
Figure 18



Unscrew and remove the drain cover at the rear of the unit (See Figure 19).

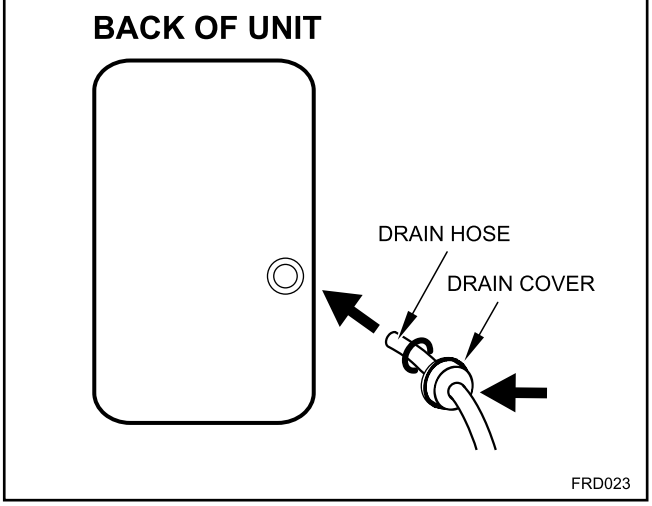
Remove the soft rubber stopper. Put it into the drain bucket for safe keeping (See Figure 19).

Figure 19



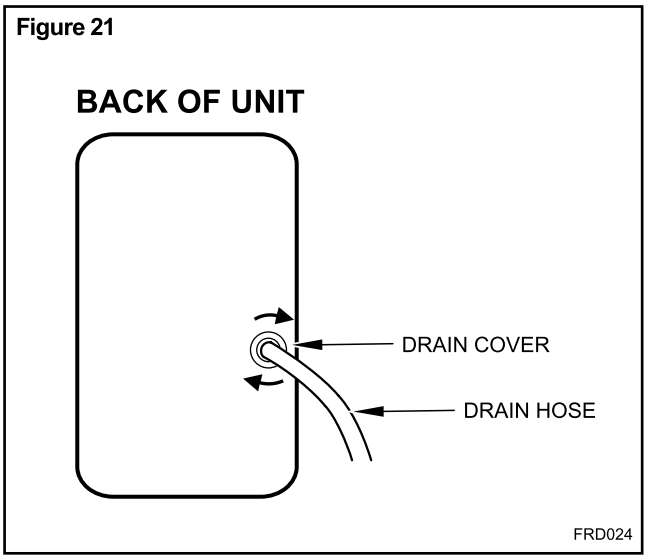
Insert the drain hose through the hole of the drain cover. Then connect the drain hose to the drain port (See Figure 20).

Figure 20



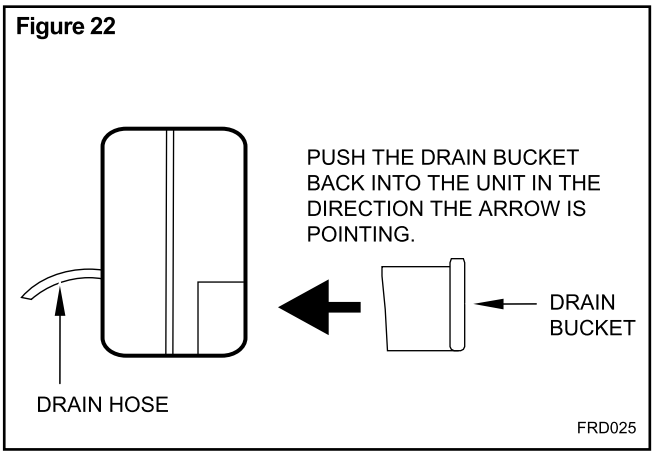
Tighten the drain cover in clockwise direction onto the rear of the unit (See Figure 21).

Figure 21



Place the bucket in its original location (See Figure 22).

Figure 22

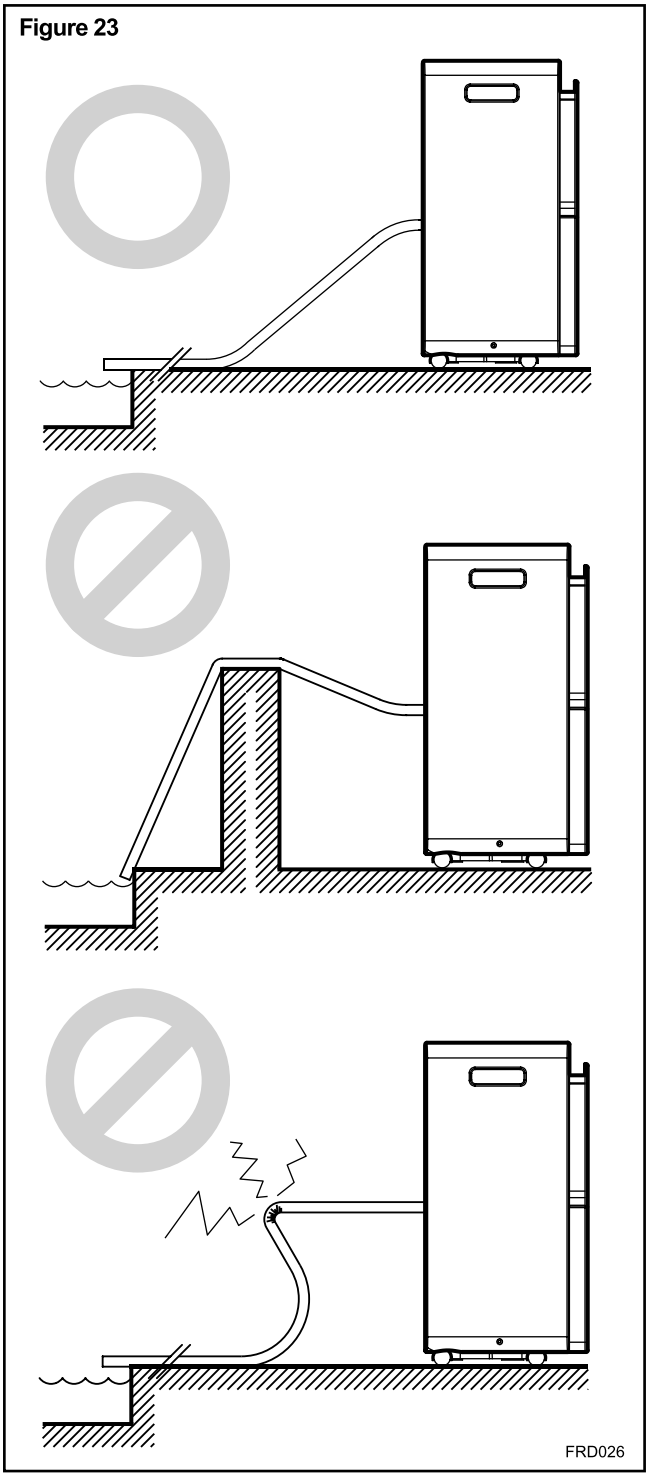


Continuous Drain Hose Routing

When using the function of continuous drainage, the drain hose must be placed horizontally below the drainage hole (See Figure 23).

You must avoid uneven ground and folding the hose (See Figure 23).

Figure 23



FRD026

Continuous Drainage using Built-In Pump

Installation:

STEP 1. Connect the supplied water hose to the drainage key.

STEP 2. Connect the drainage key and water hose (1) to the drain pump outlet (2) on the rear panel.

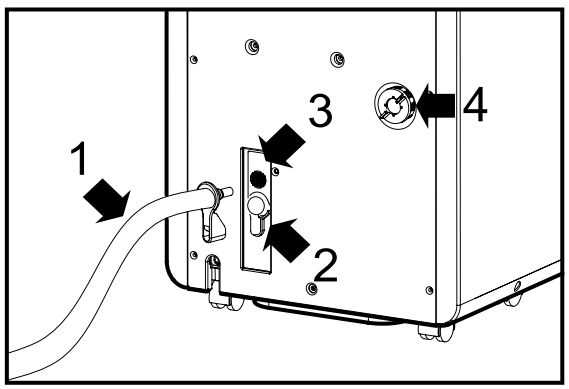
STEP 3. Lead the other end to a suitable location for drainage, like a drain or sink and insert the plug into the water drain.

The maximum distance and the rise may be 15 ft from the unit. Exceeding this distance may damage the unit or cause leaks. When the unit's drain bucket capacity reaches a certain water level, it will drain automatically (See Figure 24).

Dismantle:

Press the drain release button (3) on the unit rear panel. The automatic drainage key will pull out (See Figure 24).

Figure 24



FRD027

NOTICE

The rubber drain plug must be inserted in the continuous drainage outlet (4) for built-in pump feature to work.
Removing the rubber drain plug will cause the condensation to exit through the continuous drainage outlet instead of the drain pump outlet.

MAINTENANCE

⚠WARNING

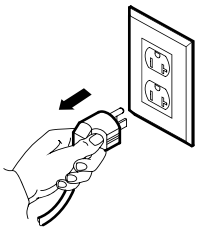
Electrical Shock Hazard

Make sure your electrical receptacle has the same configuration as your dehumidifier's plug. If different, consult a Licensed Electrician.

Do not use plug adapters.
Do not use an extension cord.
Do not remove ground prong.

Always plug into a grounded 3 prong oulet. Failure to follow these instructions can result in death, fire, or electrical shock.

For safety reasons, make sure the unit is unplugged before servicing or cleaning.

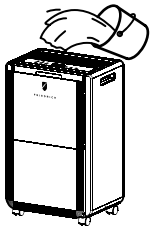


Cleaning the shell

STEP 1. Wipe the shell with a clean, soft cloth.

STEP 2. If the unit is very dirty, use mild detergent then wipe off the detergent with half dried cloth.

⚠WARNING



Water Hazard

Do not wash the unit with a hose or immerse it in water. This may cause leakage of electricity or a shock hazard.

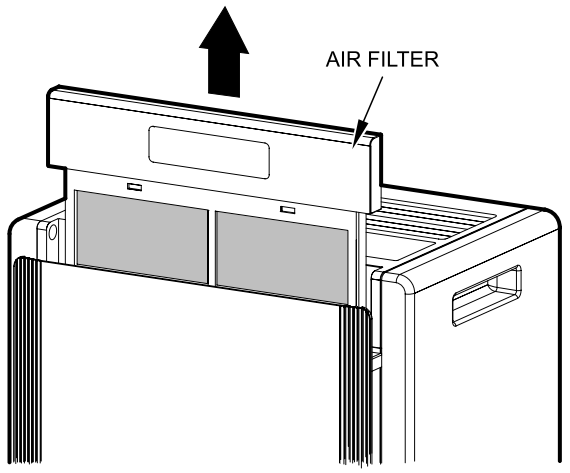
Cleaning the air filter

The purpose of the air filter is to filter dust and other materials from the air. If the filter is blocked by dust the electricity usage will be greater than normal. For optimal moisture removal and efficiency, clean the filter every two weeks.

Cleaning Steps

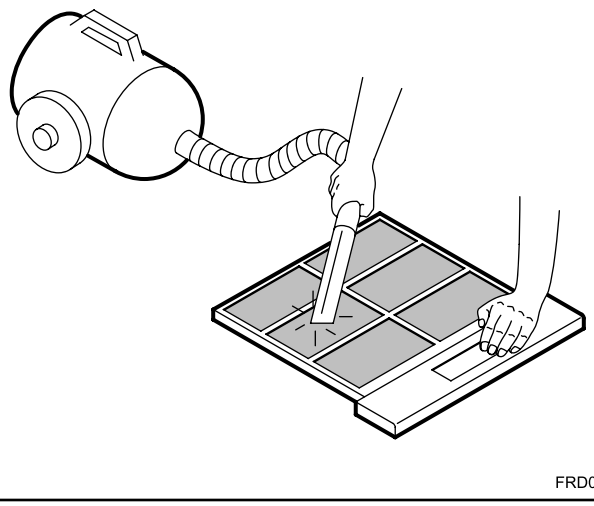
STEP 1. Pull the air filter out gently (See Figure 25).

Figure 25



STEP 2. Clean the air filter with a vacuum cleaner or wash it with clean water and dry with a dry cloth (See Figure 26).

Figure 26



STEP 3. Put the clean air filter back in place and continue to operate the dehumidifier.

IN CASE OF EMERGENCY

If a problem occurs, unplug the unit and contact a qualified servicing center immediately. Do not disassemble the unit yourself.

NOTICE

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.

NOTICE

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 person responsible for their safety.
Children should be supervised to ensure that they do not play with the appliance.

NOTICE

The appliance shall be installed in accordance with national wiring regulations.

NOTICE

Wiring diagram affixed inside the rear panel.

TECHNICAL SPECIFICATIONSO

Operating temperature / Relative humidity:
41°F - 89.6°F(5-32°C) / 30%-90%RH

WARNING (FOR USING R32 REFRIGERANT ONLY)

- READ THE MANUAL CAREFULLY BEFORE USING THE APPLIANCE.
- Stagnation of possible leaks of refrigerant gas in unventilated rooms could lead to fire or an explosion hazard should the refrigerant come in contact with electric heaters, stoves or other sources of ignition.
- Use care when storing the appliance to prevent mechanical faults.
- Only persons authorized by an accredited agency certifying their competence to handle refrigerants in compliance with sector legislation should work on refrigerant circuits.
- 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. The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- 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.
- A warning that the appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- 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.
- 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 or sen/ice the dehumidifier to avoid any damage or hazard. Flammable Refrigerant R32 is used within dehumidifier. When maintaining or disposing the dehumidifier, the refrigerant (R32) shall be properly recovered and not discharged into the air.
- No open fire or device which may generate spark/arcing shall be around dehumidifier to avoid causing ignition of the flammable refrigerant used. Please follow the instruction carefully to store or maintain the dehumidifier to prevent mechanical damage from occurring.
- Flammable refrigerant R32 is used in dehumidifier. Please follow the instruction carefully to avoid any hazard.

WARNING (FOR USING R32 REFRIGERANT ONLY)

1. Transport of equipment containing flammable refrigerants

   See transport regulations.

2. Marking of equipment using signs

   See local regulations.

3. Disposal of equipment using flammable refrigerants

   See national regulations.

4. Storage of equipment/appliances

   The storage of equipment should be in accordance with the manufacturer's instructions.

5. 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.

6. Information on servicing

   a) 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.

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

   c) 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.

   d) Checking for presence of refrigerant: The area shall be checked with an appropriate refrigerant 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.

   e) 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.

   f) No ignition sources: No person carrying out work in relation to a refrigeration 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.

   g) 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.

   h) Checks to the refrigeration equipment: Where electrical components are being

changed, they shall be fit for the purpose and to the correct specification. 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 charge size 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;
- Refrigeration 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.

i) 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 grounding.

7. Repairs to sealed components

a) During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

b) Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

⚠ **NOTE**: The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. intrinsically safe components do not have to be isolated prior to working on them.

8. Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only

types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

9. 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.

10. 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.

11. Leak detection methods

    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. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

12. Removal and evacuation

    When breaking into the refrigerant circuit to make repairs or for any other purpose conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration. Opening of the refrigeration systems shall not be done by brazing. The following procedure shall be adhered to:

    - Remove refrigerant;
    - Purge the circuit with inert gas;
    - Evacuate;
    - Purge again with inert gas;
    - Open the circuit by cutting or brazing.

    The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be flushed with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for this task.

    Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

    Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

13. 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 upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.
- Prior to recharging the system it shall be pressure tested with 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.

14. 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 's 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 manufacturer's 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.

15. Labelling

Equipment shall be labelled 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.

16. 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 labelled 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 flammable refrigerants.

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. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier 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 evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Friedrich Air Conditioning Company
10001 Reunion Place, Suite 500
San Antonio, TX 78216
800.541.6645
www.friedrich.com

DEHUMIDIFIERS LIMITED WARRANTY

FIRST YEAR

ANY PART: If any part supplied by FRIEDRICH fails because of a defect in workmanship or material within twelve months from date of original purchase, FRIEDRICH will repair the product at no charge, provided the product is transported to a Friedrich Authorized Service Center for repair. ALL transportation charges are the sole responsibility of the owner. This remedy is expressly agreed to be the exclusive remedy within twelve months from the date of the original purchase.

SECOND THROUGH FIFTH YEAR

SEALED REFRIGERANT SYSTEM: If the Sealed Refrigeration System (defined for this purpose as the compressor, condenser coil, dehumidifying coil, capillary, filter drier, and all interconnecting tubing) supplied by FRIEDRICH in your dehumidifier fails because of a defect in workmanship or material within sixty months from date of purchase, FRIEDRICH will pay a labor allowance and parts necessary to repair the Sealed Refrigeration System; **PROVIDED** FRIEDRICH will not pay the cost of diagnosis of the problem, removal, freight charges, and transportation of the dehumidifier to and from the Service Agency, and the reinstallation charges associated with repair of the Sealed Refrigeration System. All such cost will be the sole responsibility of the owner. This remedy is expressly agreed to be the exclusive remedy within sixty months from the date of the original purchase.

APPLICABILITY AND LIMITATIONS: This warranty is applicable only to units retained within the Fifty States of the U.S.A., District of Columbia, and Canada. This warranty is not applicable to:

1. Air filters or fuses.
2. Products on which the model and serial numbers have been removed.
3. Products which have defects or damage which results from improper installation, wiring, electrical current characteristics, or maintenance; or caused by accident, misuse or abuse, fire, flood, alterations and/or misapplication of the product and/or units installed in a corrosive atmosphere, default or delay in performance caused by war, government restrictions or restraints, strikes, material shortages beyond the control of FRIEDRICH, or acts of God.

OBTAINING WARRANTY PERFORMANCE: Service will be provided by the **FRIEDRICH Authorized Dealer or Service Organization** in your area. They are listed in the Yellow Pages. If assistance is required in obtaining warranty performance, write to Room Air Conditioner Service Manager (the Friedrich address is at the top of this warranty) or email tac@friedrich.com.

LIMITATIONS: THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES. Anything in the warranty notwithstanding, ANY IMPLIED WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE AND/OR MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THIS EXPRESS WARRANTY. MANUFACTURER EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY.

NOTE: Some states do not allow limitations on how long an implied warranty lasts, or do not allow the limitation or exclusion of consequential or incidental damages, so the foregoing exclusions and limitations may not apply to you.

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

PROOF OF PURCHASE: Owner must provide proof of purchase in order to receive any warranty related services.

All service calls for explaining the operation of this product will be the sole responsibility of the consumer.

All warranty service must be provided by an **Authorized FRIEDRICH Service Agency**, unless authorized by FRIEDRICH prior to repairs being made.

(9-12)

FRIEDRICH

Friedrich Air Conditioning Co.
10001 Reunion Place • Suite 500 • San Antonio, TX • 78216
(800) 541-6645
www.friedrich.com

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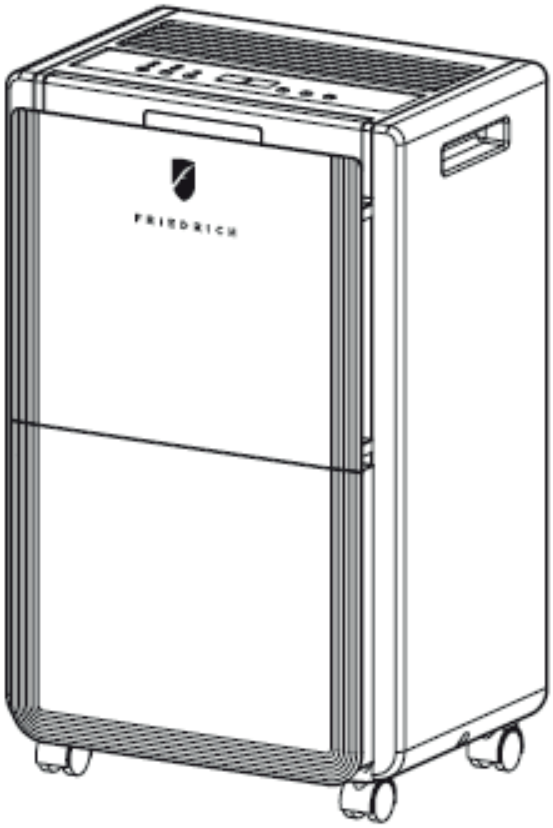
Manuel d'installation et d'utilisation

FRIEDRICH™

Déshumidificateur

D35B1B, D50B1B



Modèles

D35B1B Volts: 115/60Hz Capacité: 35 pintes (20 L) Déshumidification: 20 litres/jour

D50B1B Volts: 115/60Hz Capacité: 50 pintes (28 L) Déshumidification: 28 litres/jour

97991000_01

Felicitations!

Merci d'avoir choisi un déshumidificateur Friedrich. Veuillez lire attentivement ce manuel d'installation et d'utilisation.

Friedrich vous remercie d'avoir fait cet achat judicieux.

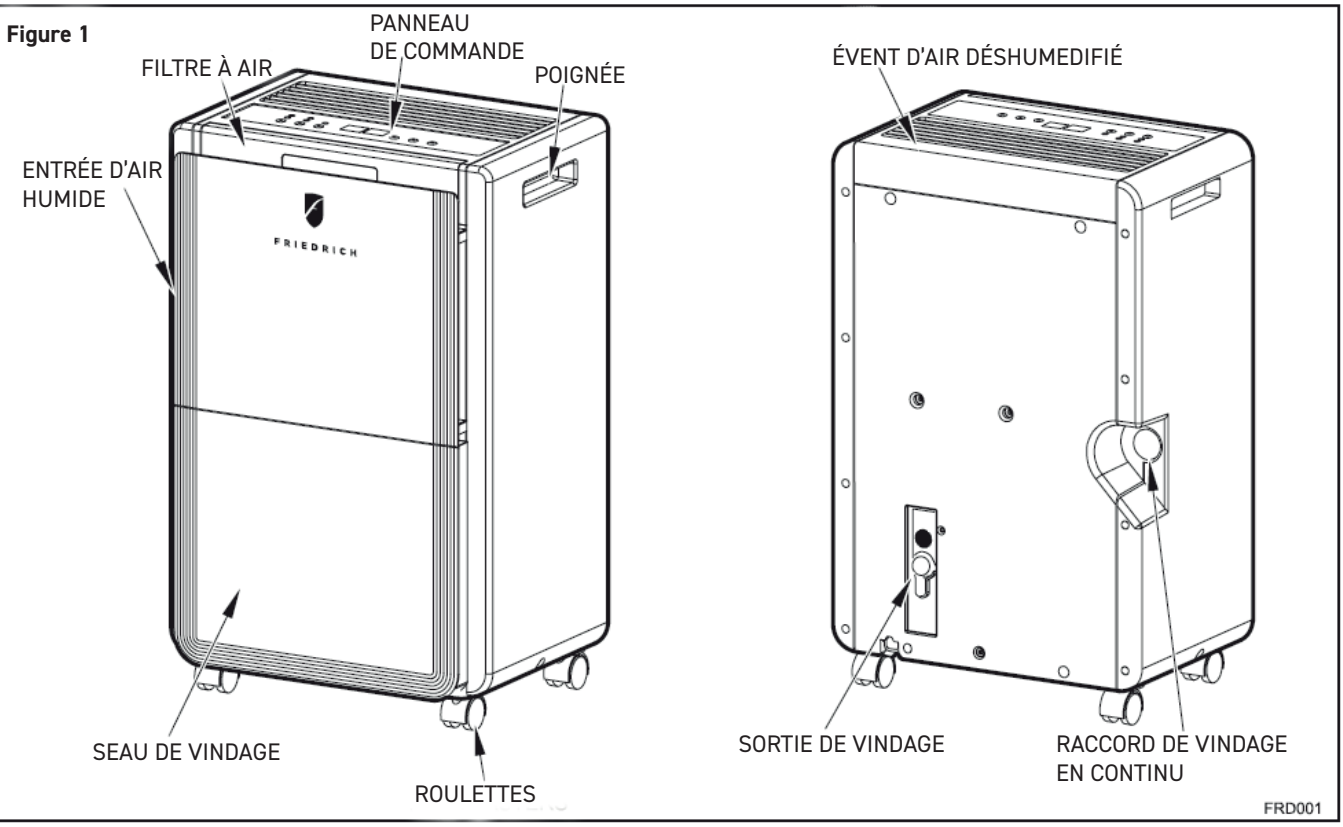
Table of Contents

	⚠ WARNING	⚠ AVERTISSEMENT	⚠ ADVERTENCIA
THINK SAFETY FIRST	Do not remove, disable or bypass this unit's safety devices. Doing so may cause, fire, injuries or death.	Ne pas supprimer, désactiver ou contourner cette l'unité des dispositifs de sécurité faire vous risqueriez de provoquer le feu, les blessures ou la mort.	No eliminar, desactivar o pasar por alto los dispositivos de seguridad de la unidad. Si lo hace podría producirse fuego, lesiones o la muerte.

61952220

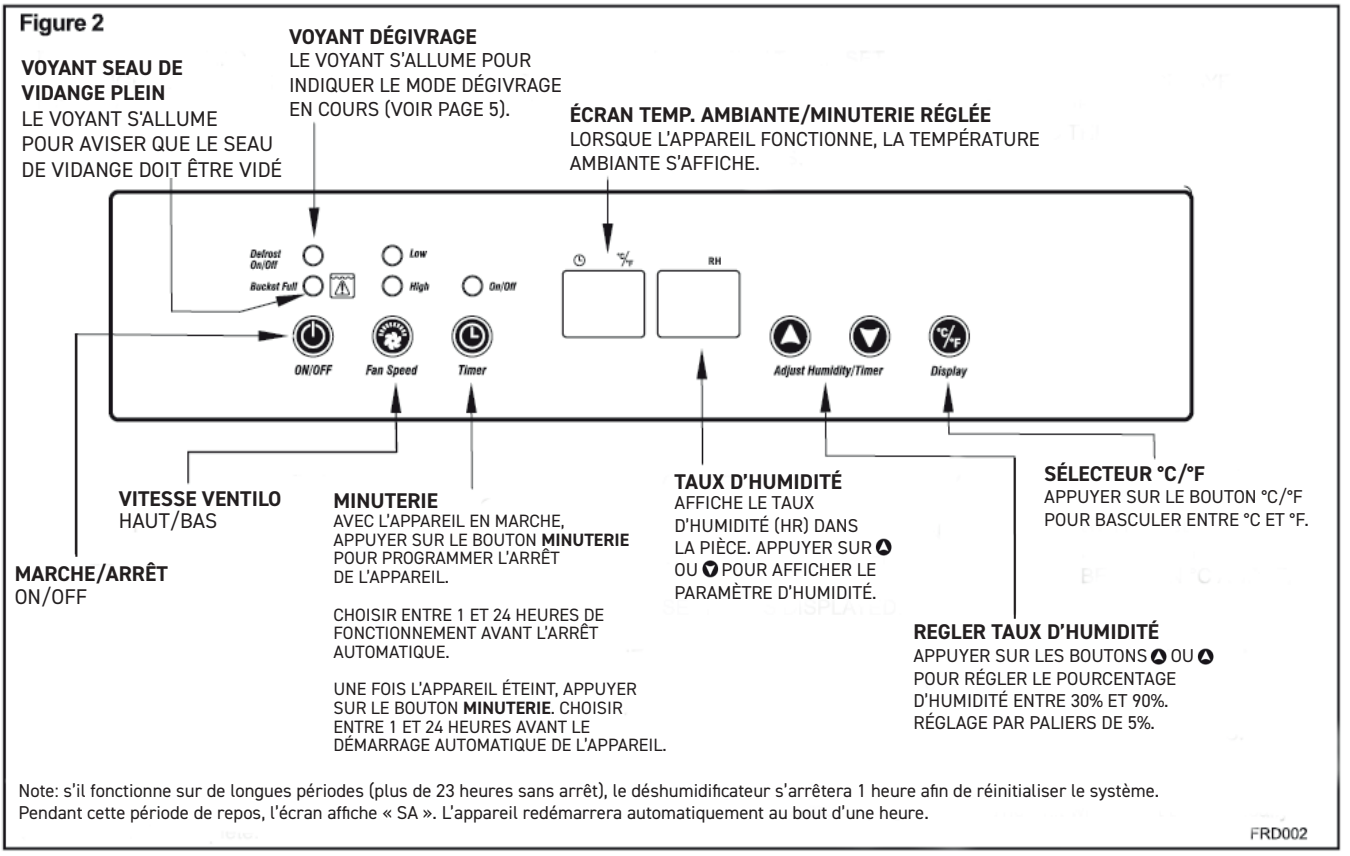
DESCRIPTION DES COMPOSANTS

Figure 1



EXPLICATION DES FONCTIONS

Figure 2



Note: s'il fonctionne sur de longues périodes (plus de 23 heures sans arrêt), le déshumidificateur s'arrêtera 1 heure afin de réinitialiser le système. Pendant cette période de repos, l'écran affiche « SA ». L'appareil redémarrera automatiquement au bout d'une heure.

INSTRUCTIONS D'INSTALLATION

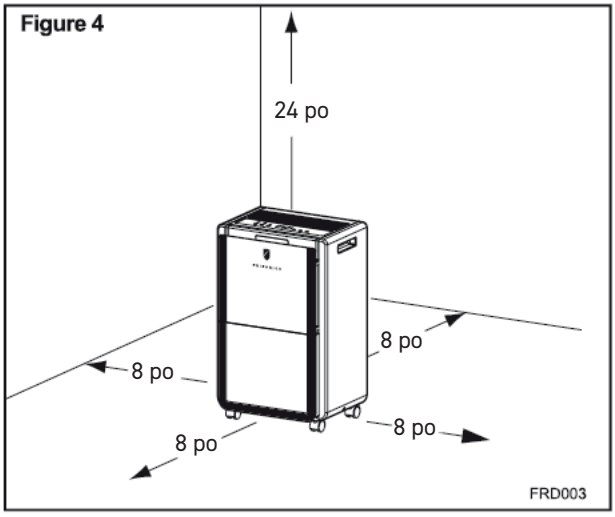
Suivez ces étapes pour déballer et installer votre déshumidificateur.

ÉTAPE 1. Sortir l'appareil de la boîte et l'inspecter.

ÉTAPE 2. Retirer les accessoires placés dans le seau de vindange.

ÉTAPE 3. Pour installer le déshumidificateur, il suffit de le placer de façon à ménager l'espace adéquat tout autour.

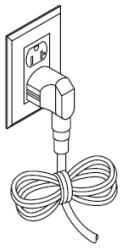
Prévoir au moins 8 pouces d'espace libre autour de l'appareil et au moins 24 pouces au-dessus.



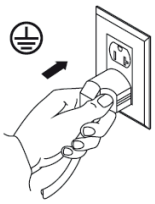
INSTRUCTIONS D'UTILISATION

⚠ AVERTISSEMENT

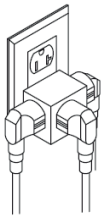
Risque d'électrocution



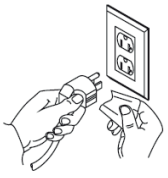
Ne jamais enrouler le cordon d'alimentation.



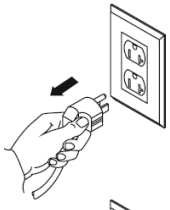
Assurez-vous que la fiche est bien insérée dans la prise.



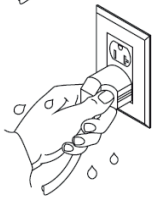
Ne jamais brancher avec un adaptateur ou une rallonge.



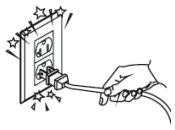
Assurez-vous que la fiche est propre.



Éteindre l'appareil avant de le débrancher.



Ne pas avoir les mains mouillées pour brancher l'appareil.



Ne jamais tirer sur le cordon d'alimentation pour débrancher la fiche. Risque d'électrocution.

Mise en Marche

ÉTAPE 1. Placer l'appareil en position verticale sur une surface plane, stable et résistante à la chaleur. Ne pas laisser d'objets inflammables ou sensibles à la chaleur à moins de 39 po/1 m. Cet appareil s'utilise en position verticale uniquement, toute autre installation pose un danger.

AVERTISSEMENT

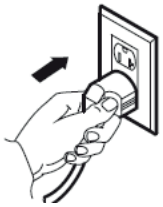
Risque d'électrocution

S'assurer que la prise de courant est du même type (Type B, à broche de MALT) que la fiche de branchement du climatiseur. S'ils sont de types différents, veuillez contacter un maître électricien.

Ne pas utiliser d'adaptateur de fiche d'alimentation.
Ne PAS brancher le climatiseur avec une rallonge électrique.
Ne pas couper la broche de MALT.

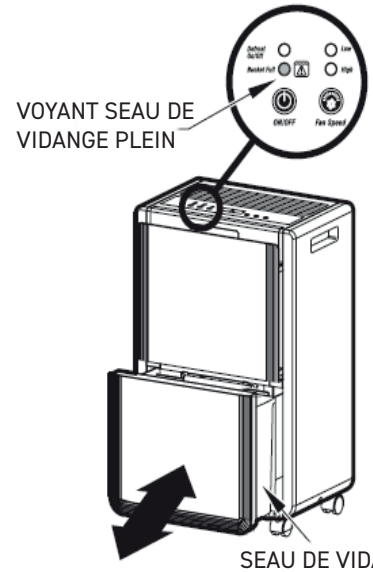
Toujours brancher la fiche d'alimentation à une prise de courant à 3 broches. Le non-respect des présentes directives risque de causer un incendie, un choc électrique ou la mort.

ÉTAPE 2. Brancher la fiche dans une prise murale appropriée. Le déshumidificateur fonctionne avec une source d'électricité de même tension que celle indiquée sur son étiquette de puissance nominale.



ÉTAPE 3. Vous assurer que le seau de vidange est placé dans la bonne position (figure 5). (En allumant l'appareil pour la première fois, si le voyant indique que le seau de vidange est plein, il suffit de retirer le seau pour éteindre le voyant. Vérifier que le levier du flotteur bouge librement, puis remettre le seau dans la bonne position).

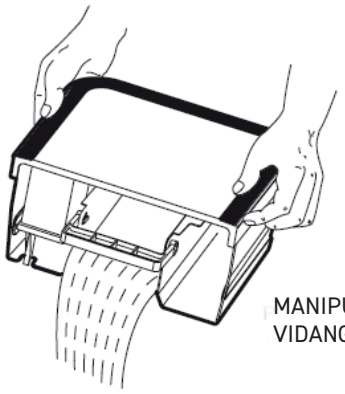
Figure 5



Lorsque le voyant de seau plein s'allume

Lorsque le seau de vidange est plein, le voyant s'allume et l'appareil cesse de fonctionner. Retirer le seau de vidange délicatement (figure 6) et le vider. Replacer ensuite le seau vide dans la bonne position (figure 7), l'appareil se remettra en marche automatiquement.

Figure 6

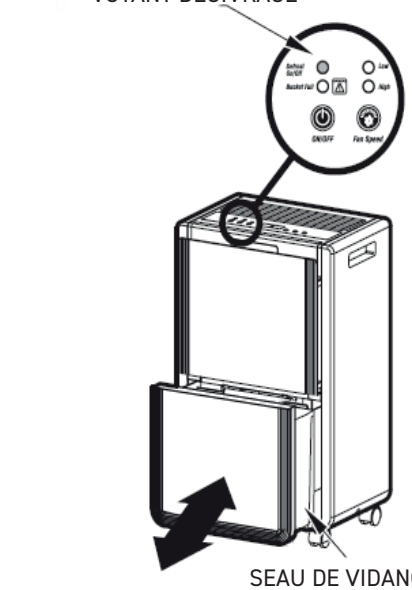


Dégivrage

Lorsque le déshumidificateur fonctionne à basse température (moins de 54°F/12°C), il s'accumule une couche de givre sur l'évaporateur qui réduit l'efficacité de l'appareil. Dans ce cas, l'appareil passe en mode de dégivrage périodique et le voyant de dégivrage s'allume sur le panneau de commande pour l'indiquer (figure 7).

Le déshumidificateur fonctionne jusqu'à une température de 41°F/5°C. Le temps de dégivrage est variable. Si l'appareil congèle complètement, il faut l'éteindre au niveau du bloc d'alimentation et le laisser décongeler quelques heures avant de le redémarrer. Si la température ambiante reste inférieure à 41°F/5°C, ne pas utiliser l'appareil. Il n'est pas recommandé d'utiliser le déshumidificateur à une température inférieure à 41°F/5°C.

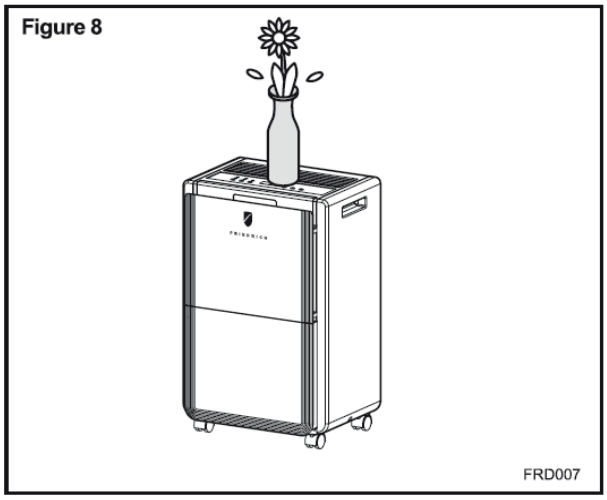
Figure 7



RECOMMANDATIONS

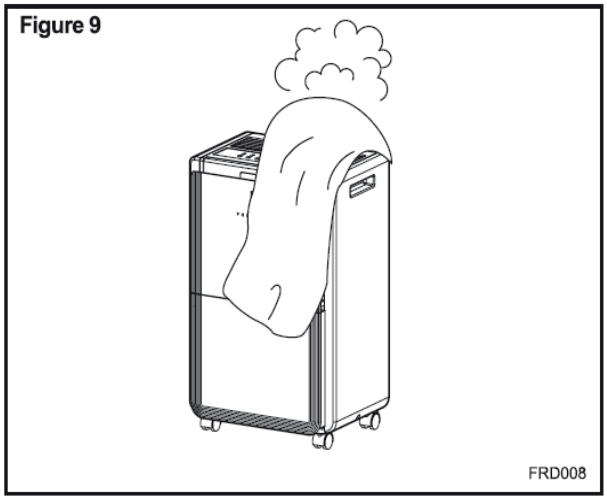
Ne rien déposer sur l'appareil ou son panneau de commande (figure 8).

Figure 8



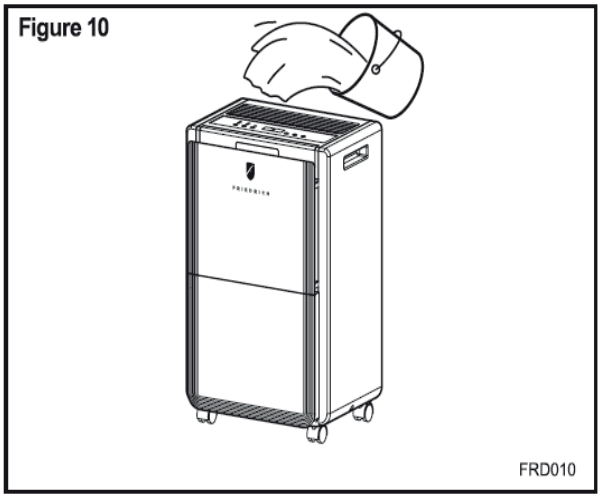
Ne rien déposer sur les entrées et sorties d'air (figure 9).

Figure 9



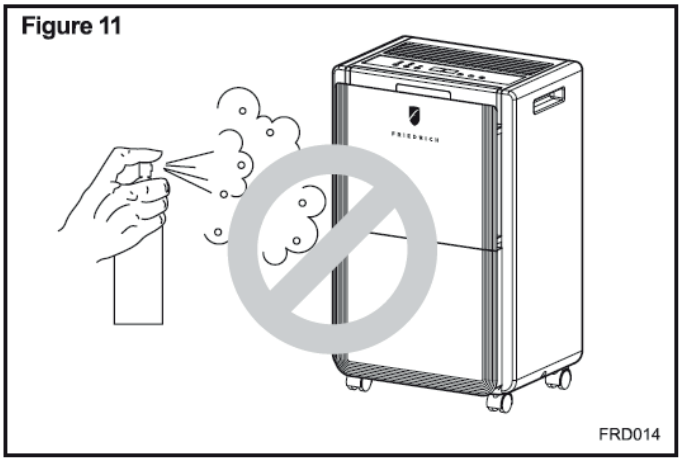
Ne pas mouiller l'appareil ou son panneau de commande (figure 10).

Figure 10



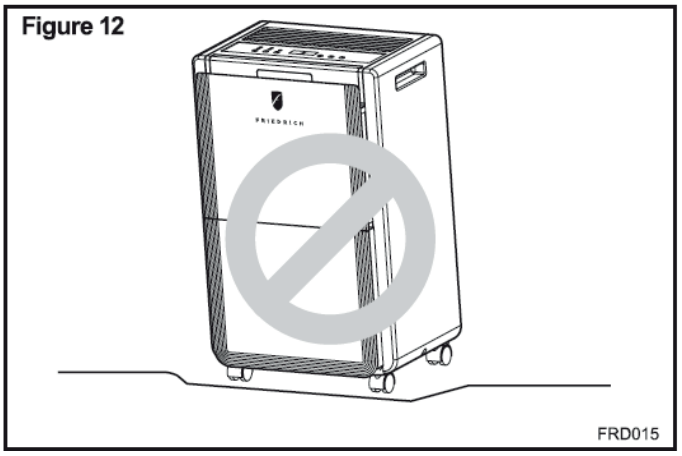
Ne pas appliquer d'insecticide, d'huile ou de peinture en aérosol à proximité de l'appareil (figure 11), cela risque d'endommager les pièces de plastique ou de déclencher un incendie.

Figure 11



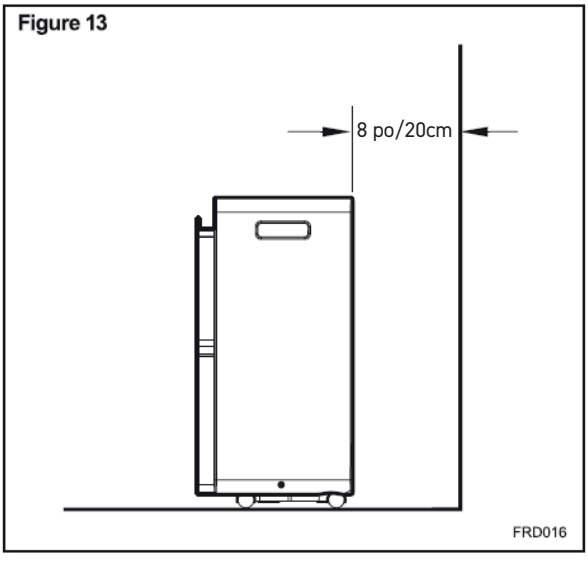
Afin d'éviter les vibrations, le bruit ou les fuites d'eau, ne pas placer l'appareil sur une surface inégale (figure 12).

Figure 12



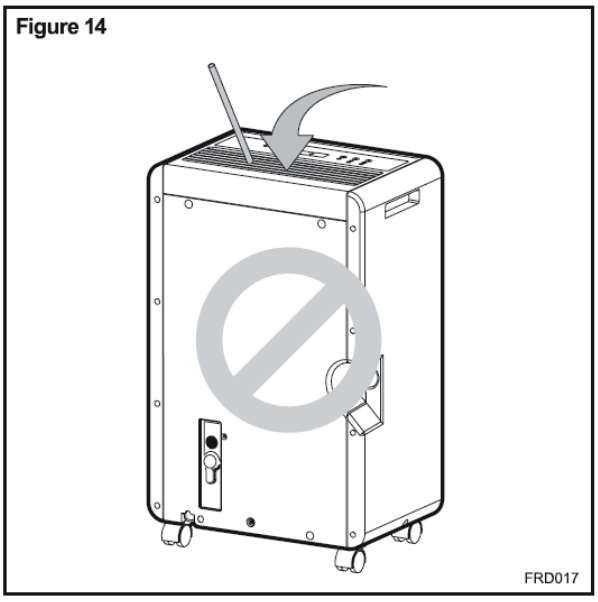
Pour une dissipation adéquate de la chaleur, maintenir l'appareil à une distance de 8 po/20 cm du mur (figure 13).

Figure 13



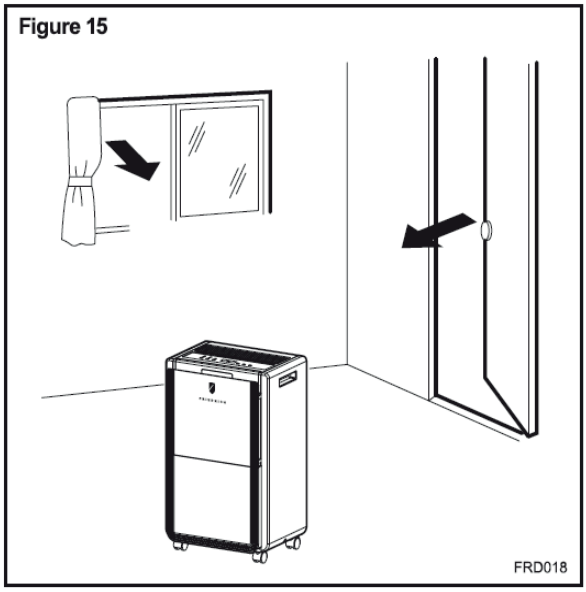
Ne pas introduire d'objets dans l'appareil, cela est dangereux et risque de l'endommager (figure 14).

Figure 14



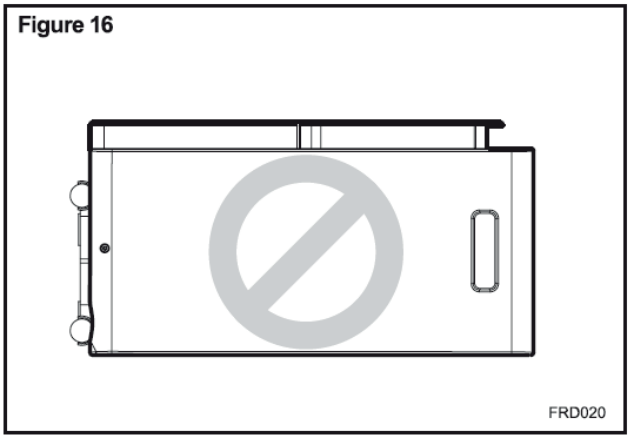
Pour un fonctionnement optimal du déshumidificateur, fermer les fenêtres/portes de la pièce (figure 15).

Figure 15



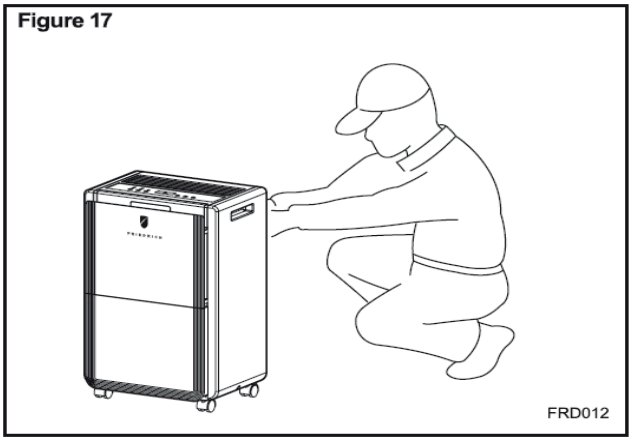
Pour le déplacer ou l'entreposer, éviter les secousses et ne pas placer l'appareil sur le côté ou à l'envers (figure 16).

Figure 16



Confier l'entretien régulier de l'appareil à un technicien qualifié (figure 17).

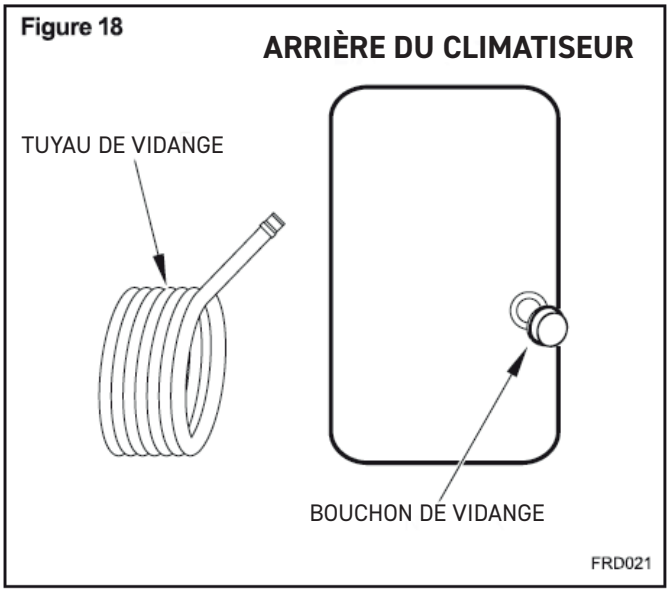
Figure 17



DRAINAGE EN CONTINU

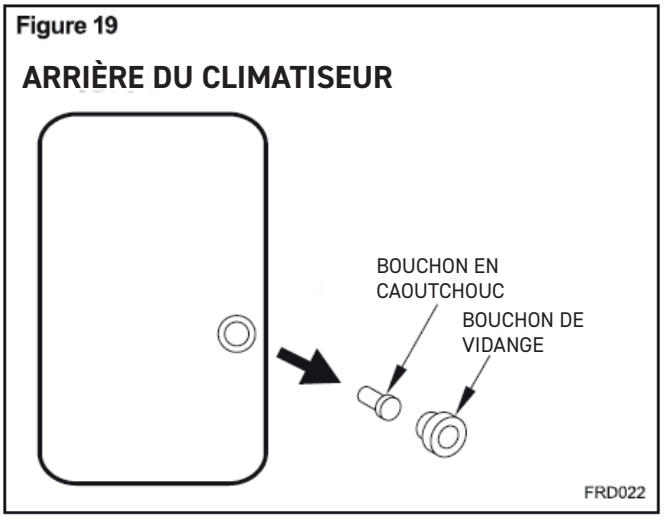
L'appareil peut être configuré pour un drainage continu plutôt que dans le seau de vidange. Utiliser le tuyau de vidange fourni et le poser sur le raccord de drainage continu (figure 18).

Figure 18



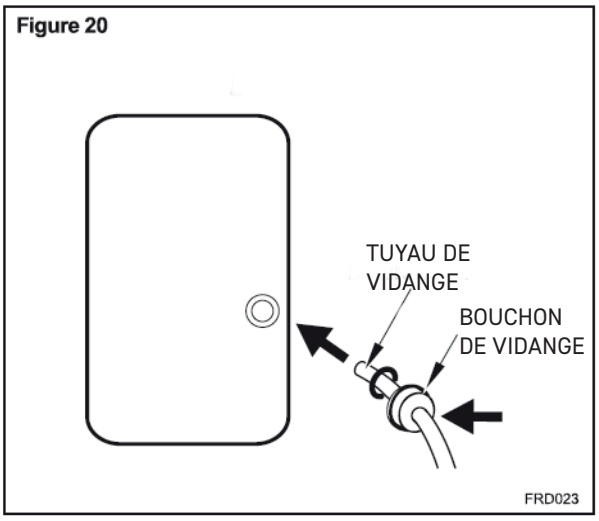
Dévisser et retirer le bouchon de vidange à l'arrière de l'appareil (figure 19), puis retirer le bouchon en caoutchouc. Le ranger dans le seau de vidange (figure 19).

Figure 19



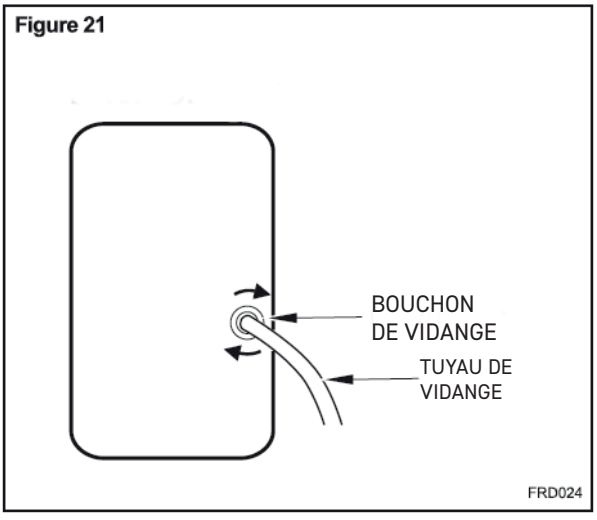
Faire passer le tuyau de vidange dans le trou du couvercle de vidange. Raccorder le tuyau de vidange à l'orifice de vidange (figure 20).

Figure 20



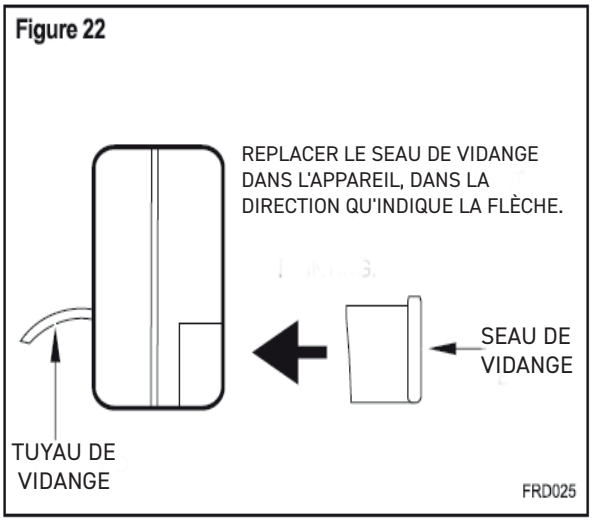
Serrer le couvercle de vidange (figure 21).

Figure 21



Replacer le seau de vidange dans son logement (figure 22).

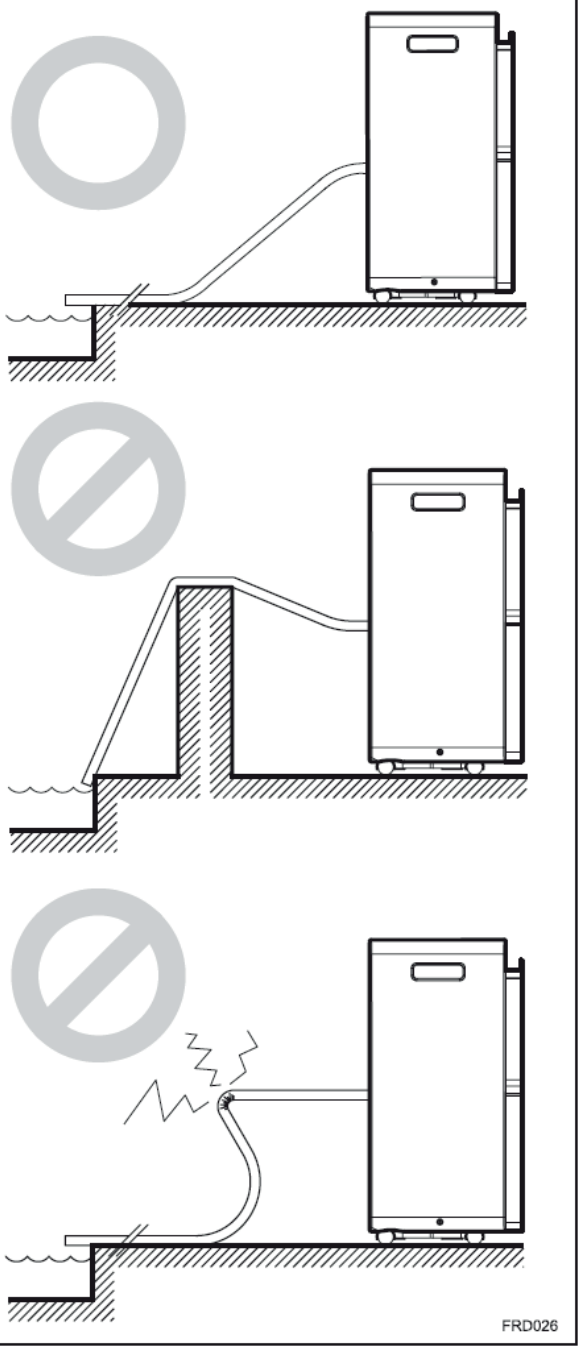
Figure 22



Trajet du tuyau de vidange

Avec la fonction de drainage continu, le trajet du tuyau de vidange doit être horizontal et descendre vers le bas (figure 23).

Figure 23



Pompe de drainage continu Installation:

ÉTAPE 1. Raccorder le tuyau fourni à la fixation de drainage.

ÉTAPE 2. Raccorder la fixation de drainage et le tuyau d'eau (1) à la sortie de la pompe de vidange (2) à l'arrière.

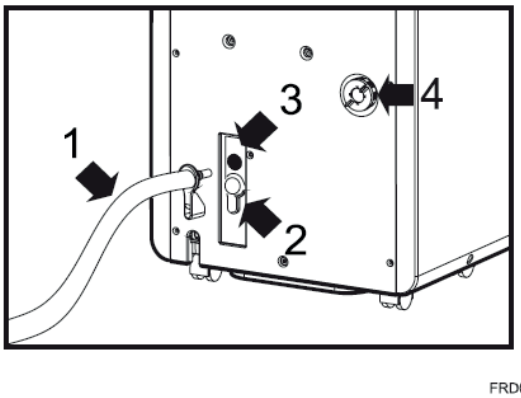
ÉTAPE 3. Placer l'autre extrémité dans un endroit approprié pour le drainage, comme un drain ou un évier. Prévoir au moins 8 pouces d'espace libre autour de l'appareil et au moins 24 pouces au-dessus.

La distance et la montée peuvent aller jusqu'à 15 pieds/4,5 m de distance de l'unité. Excéder cette distance risque d'endommager l'appareil ou de causer une fuite. Lorsque le seau de vidange est plein, l'eau s'écoule automatiquement (figure 24).

Démontage

Appuyer sur le bouton d'ouverture (3) à l'arrière de l'appareil. La fixation de vidange automatique se détachera (figure 24).

Figure 24



AVIS
Pour que la pompe fonctionne adéquatement, replacer le bouchon de vidange en caoutchouc dans le raccord de vidange en continu (4). En l'absence de ce bouchon, la condensation sortira par le raccord de vidange en continu au lieu du raccord de la pompe de vidange.

ENTRETIEN

AVERTISSEMENT

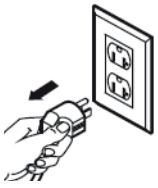
Risque d'électrocution

S'assurer que la prise de courant est du même type (Type B, à broche de MALT) que la fiche de branchement du climatiseur. S'ils sont de types différents, veuillez contacter un maître électricien.

Ne pas utiliser d'adaptateur de fiche d'alimentation.
Ne PAS brancher le climatiseur avec une rallonge électrique.
Ne pas couper la broche de MALT.

Toujours brancher la fiche d'alimentation à une prise de courant à 3 broches. Le non-respect des présentes directives risque de causer un incendie, un choc électrique ou la mort.

Pour des raisons de sécurité, débrancher l'appareil avant d'en faire l'entretien ou le nettoyage.



Nettoyage du boîtier

ÉTAPE 1. Nettoyer le boîtier avec un chiffon propre et doux.

ÉTAPE 2. Si l'appareil est très sale, utiliser un détergent doux pour laver, puis rincer/sécher avec un chiffon humide.

AVERTISSEMENT

Danger d'électrocution

Ne pas asperger l'appareil d'eau ni l'immerger, cela risque d'entraîner une dispersion électrique, ce qui pose un risque d'électrocution.

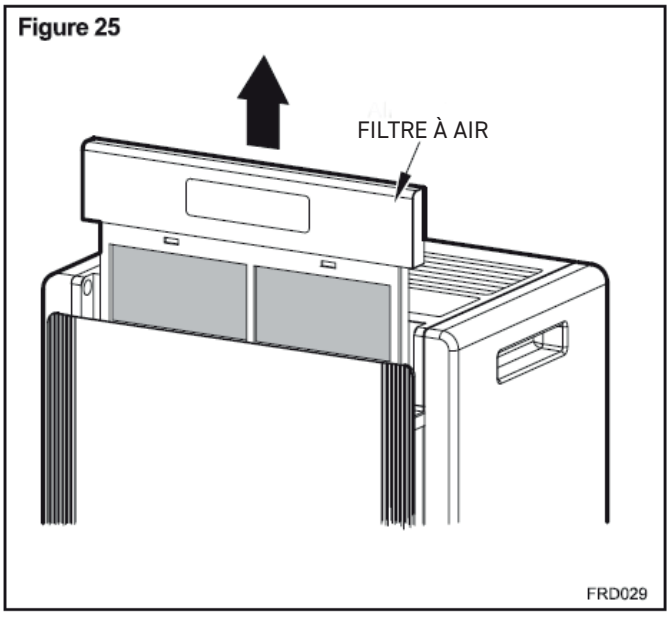
Nettoyage du filtre à air

Le filtre à air filtre la poussière et autres matières en suspension. Un filtre rempli de poussière augmente la consommation d'énergie. Pour une déshumidification et une efficacité optimales, nettoyer le filtre aux deux semaines.

Étapes de nettoyage

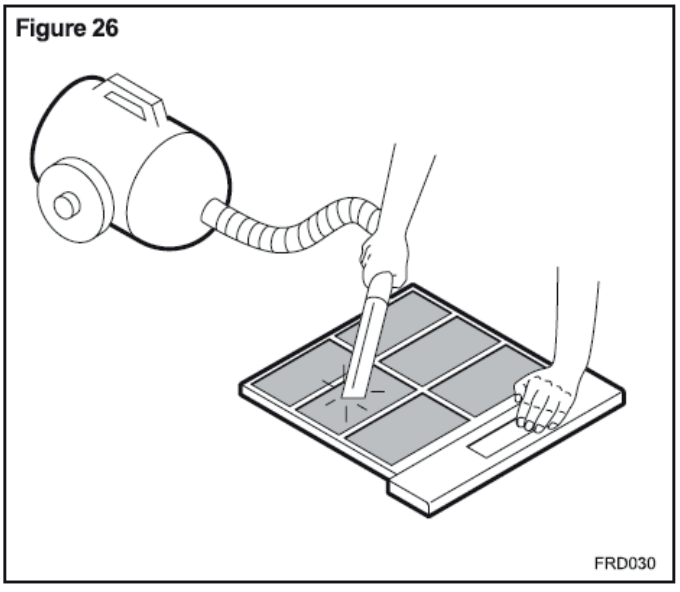
ÉTAPE 1. Retirer délicatement le filtre à air (figure 25)

Figure 25



ÉTAPE 2. Nettoyer le filtre avec un aspirateur ou le laver à l'eau claire, puis le sécher avec un chiffon sec (figure 26).

Figure 26



ÉTAPE 3. Remettre le filtre sec en place et rallumer le déshumidificateur.

EN CAS D'URGENCE

En cas de problème, débrancher l'appareil et communiquer avec un centre d'entretien qualifié. Ne pas ouvrir ou démonter l'appareil.

SPÉCIFICATIONS

Température de fonctionnement/Humidité relative:
41°F-89,6°F - 5°C-32°C /30% - 90% HR

AVIS
Si le cordon d'alimentation est endommagé, le faire remplacer par un technicien qualifié ou un représentant autorisé afin d'éviter tout risque d'accident.

AVIS
Cet appareil n'est pas conçu pour être utilisé sans supervision par des enfants ou des personnes aux capacités physiques, sensorielles ou mentales diminuées. Ne jamais laisser les enfants jouer avec l'appareil.

AVIS
Le climatiseur doit être installé conformément aux exigences de l'édition en vigueur du Code canadien de l'électricité, première partie, CSA C22.1.

AVIS
Le schéma de câblage est collé à l'intérieur du panneau arrière.

Friedrich Air Conditioning Company
10001 Reunion Place, Suite 500
San Antonio, TX 78216
800.541.6645
www.friedrich.com

DÉSHUMIDIFICATEURS
GARANTIE LIMITÉE

PREMIÈRE ANNÉE

PIÈCES: si une pièce FRIEDRICH tombe en panne dans les douze mois suivant la date d'achat initiale en raison d'un défaut de fabrication ou de matériau, FRIEDRICH réparera le produit sans frais, à condition de faire le transporter dans un centre de service autorisé Friedrich. Le transport est aux frais du propriétaire. Il s'agit du seul recours possible dans les douze mois suivant la date d'achat initial.

ANNÉES 2 à 5

SYSTÈME DE RÉFRIGÉRATION À BOUCLE FERMÉE: en cas de défaillance du système de réfrigération à boucle fermée (c'est-à-dire compresseur, serpentin de condensation, serpentin de déshumidification, capillaire, filtre déshydrateur et tubulure de raccordement) d'origine (installé dans un déshumidificateur FRIEDRICH neuf) en raison d'un défaut de fabrication ou de matériau dans les soixante mois suivant la date d'achat, FRIEDRICH paiera une indemnité équivalant à la somme des coûts de main-d'œuvre et des pièces nécessaires pour réparer le déshumidificateur; À L'EXCLUSION des coûts de diagnostic et de démontage, ainsi que des frais d'expédition et de transport du déshumidificateur à destination et en provenance de notre Centre de service, ainsi que des coûts de réinstallation. Ce recours est le seul proposé dans les soixante mois suivant la date d'achat initiale.

CONDITIONS D'UTILISATION: cette garantie couvre uniquement les appareils se trouvant dans l'un des cinquante États des États-Unis, le District de Columbia et au Canada.

1. Filtres à air ou fusibles.
2. Produits dont le numéro de modèle ou de série a été retiré.
3. Produits présentant un défaut ou des dommages résultant d'un entretien ou d'une installation inadéquats, du câblage ou de l'alimentation électrique; causés par un accident, une utilisation inadéquate ou excessive, par un incendie, une inondation, une modification, par l'utilisation du produit à des fins non prévues ou son exposition à des particules corrosives, un défaut ou un retard de paiement causé par une guerre, des mesures d'austérité ou des restrictions gouvernementales, une grève, une pénurie de matériaux indépendante de la volonté de FRIEDRICH ou toute perte pour cause de force majeure.

POUR SE PRÉVALOIR DE LA GARANTIE: le service est assuré par le détaillant autorisé FRIEDRICH ou le réparateur de votre région, dont vous trouverez les coordonnées dans les Pages Jaunes. Si vous avez besoin d'aide pour vous prévaloir de la garantie, veuillez écrire au directeur du service technique (l'adresse Friedrich figure en haut de cette garantie) ou envoyer un courriel à tac@friedrich.com.

LIMITATIONS: CETTE GARANTIE REMPLACE TOUTES LES AUTRES GARANTIES. Nonobstant les dispositions de la garantie, TOUTE GARANTIE IMPLICITE D'ADAPTATION À UN USAGE PARTICULIER OU DE QUALITÉ MARCHANDE EST LIMITÉE À LA DURÉE DE LA PRÉSENTE GARANTIE. LE FABRICANT DÉCLINE EXPRESSÉMENT TOUTE RESPONSABILITÉ POUR LES DOMMAGES CONSÉCUTIFS OU ACCESSOIRES EN CAS DE VIOLATION DE LA GARANTIE EXPRESSE OU IMPLICITE.

NOTE: dans certains territoires, il est interdit de limiter la durée d'une garantie implicite, ou de limiter ou d'exclure les dommages secondaires ou indirects; il se pourrait que ces limites et exclusions s'appliquent dans certains cas.

AUTRE: cette garantie vous confère certains droits, mais il se pourrait que vous puissiez en faire valoir d'autres dont la nature varie d'un territoire à l'autre.

PREUVE D'ACHAT: afin de se prévaloir d'un service au titre de la garantie, le propriétaire doit fournir une preuve d'achat.

Toute demande d'assistance qui revient à expliquer le fonctionnement de l'appareil sera facturée au propriétaire.

Toute prestation de service au titre de la garantie doit être assurée par le **fournisseur de service local autorisé de FRIEDRICH**, à moins d'obtenir une autorisation de FRIEDRICH.

FRIEDRICH

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