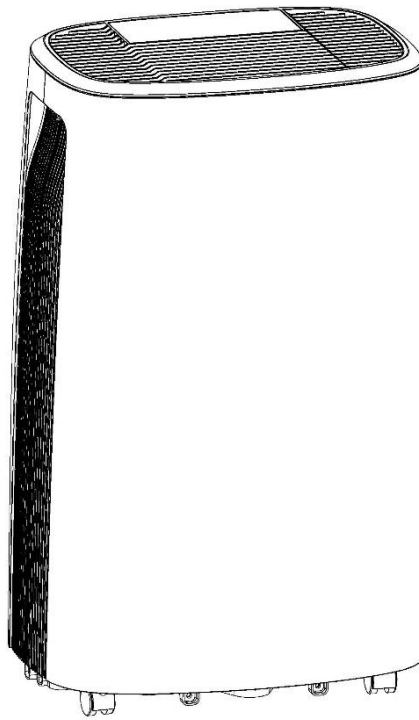


Domestic Dehumidifier



DF020

Owner's Manual

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

This owner's manual will provide you with valuable information necessary for the proper care and maintenance of your new dehumidifier. Please take a few moments to read the instructions thoroughly and familiarize yourself with all the operational aspects of this dehumidifier.

This unit removes unwanted moisture from the air to create a more comfortable environment in your home or office. It can be conveniently moved from room to room within your home.

FEATURES

Powerful Dehumidifying Capability

Taking advantage of refrigeration technology, the dehumidifier powerfully removes moisture from the air to decrease the humidity level of the room and keep the indoor air dry and comfortable.

Lightweight Portable Design

The dehumidifier is built to be compact and lightweight. The casters on the bottom of the unit make it easy to move from room to room.

Low Temperature Operation with Automatic Defrost

When the unit is running in a room temp. between 5°C and 12°C, it will be stopped to defrost for every 30 minutes

When the unit is running in a room temp between 12°C and 20°C, it will be stopped to defrost for every 45 minutes

Adjustable Humidistat

Adjust the desired humidity level by the humidistat.

Timer On / Off

Program the unit to turn on and off automatically.

Quiet Operation

The dehumidifier operates with a low noise level.

Energy Efficient

The power consumption of the unit is low.

SAFETY WARNINGS

When using the unit, please observe the following safety precautions:

1. Unplug the power supply cord before cleaning or storage.
2. The appliances can be used indoor but not in laundry rooms.
3. Do not set the unit close to heat-generating devices or near flammable and dangerous materials.
4. Never put your fingers or objects into the intake or discharge ducts.
5. Do not sit or stand on the unit.
6. Discard water that has collected in the tank as required
7. Do not operate the dehumidifier in a closed area such as inside a closet, as it may cause a fire
8. Do not sue the unit near edible items, objects of art, or scientific materials
9. Install drain piping at a downhill grade to make sure that condensed water can be drained continuously.
10. If the power supply cord is damaged, it must be replaced by the manufacture or a similarly qualified person in order to avoid a hazard.
11. The appliance must be positioned so that the plug is accessible.
12. Please keep a distance 20 cm around unit and the wall or other objects to ensure air circulation.
13. The appliance shall be installed in accordance with local national wire regulations.
14. The appliance cannot be used in public transportation.

15. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
16. Children should be supervised to ensure that they do not play with the appliance.
17. Appliances that are obviously damaged must not be operated.



Caution, risk of fire, R290

WARNING

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).

Do not pierce or burn.

Be aware that refrigerants may not contain an odour.

Appliance shall be installed, operated, and stored in a room with a floor area larger than 4 m².

The appliance shall be compliance with national gas regulations

Servicing shall be performed only as recommended by the manufacturer.

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

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.

Appliance is filled with flammable gas R290.

Any repairs you need, contact the nearest authorized Service Centre, and strictly follow manufacturer's instruction only.

Warning for disposal:

It is prohibited to dispose of this appliance in domestic household waste. For disposal there are several possibilities

1. Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
2. The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
3. The manufacturer will take back the old appliance for disposal at least free of charge to the user.
4. As old products contain valuable resources. They can be sold to scrap metal dealers.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Technical Data

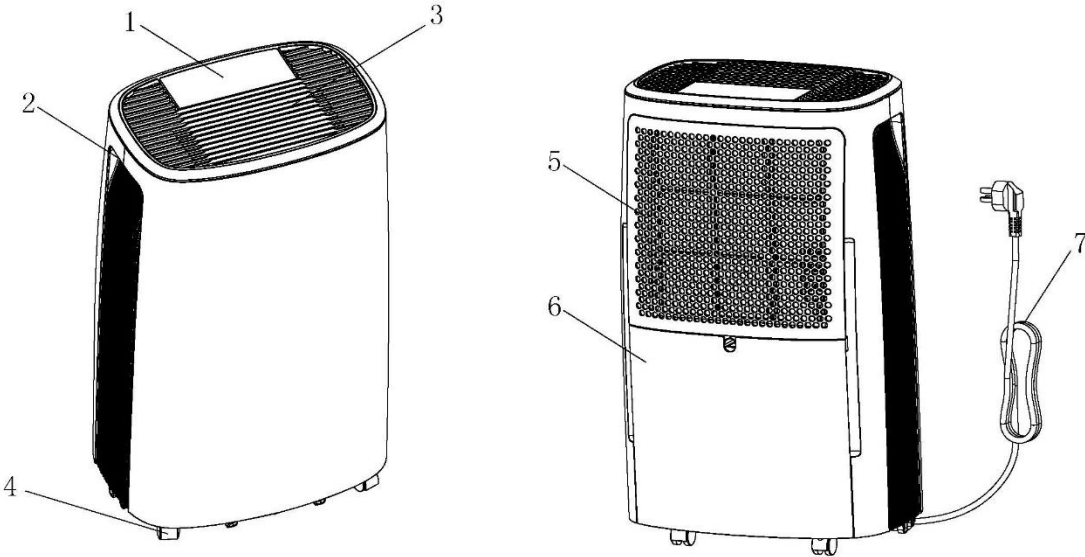
SPECIFICATIONS

Model	DF020
Power supply	220V-240V~50Hz
Rated power input	325 W
Refrigerant/ charge	R290 / 90g

The dehumidification capacity is rated at a room temperature of **30°C with a relative humidity of 80%**. The operational temperature is in the range of 7°C to 35°C and max relative humidity of 80%. If the room temperature is outside of this range, the unit will not operate normally. GWP value of R290 refrigerant is 3.

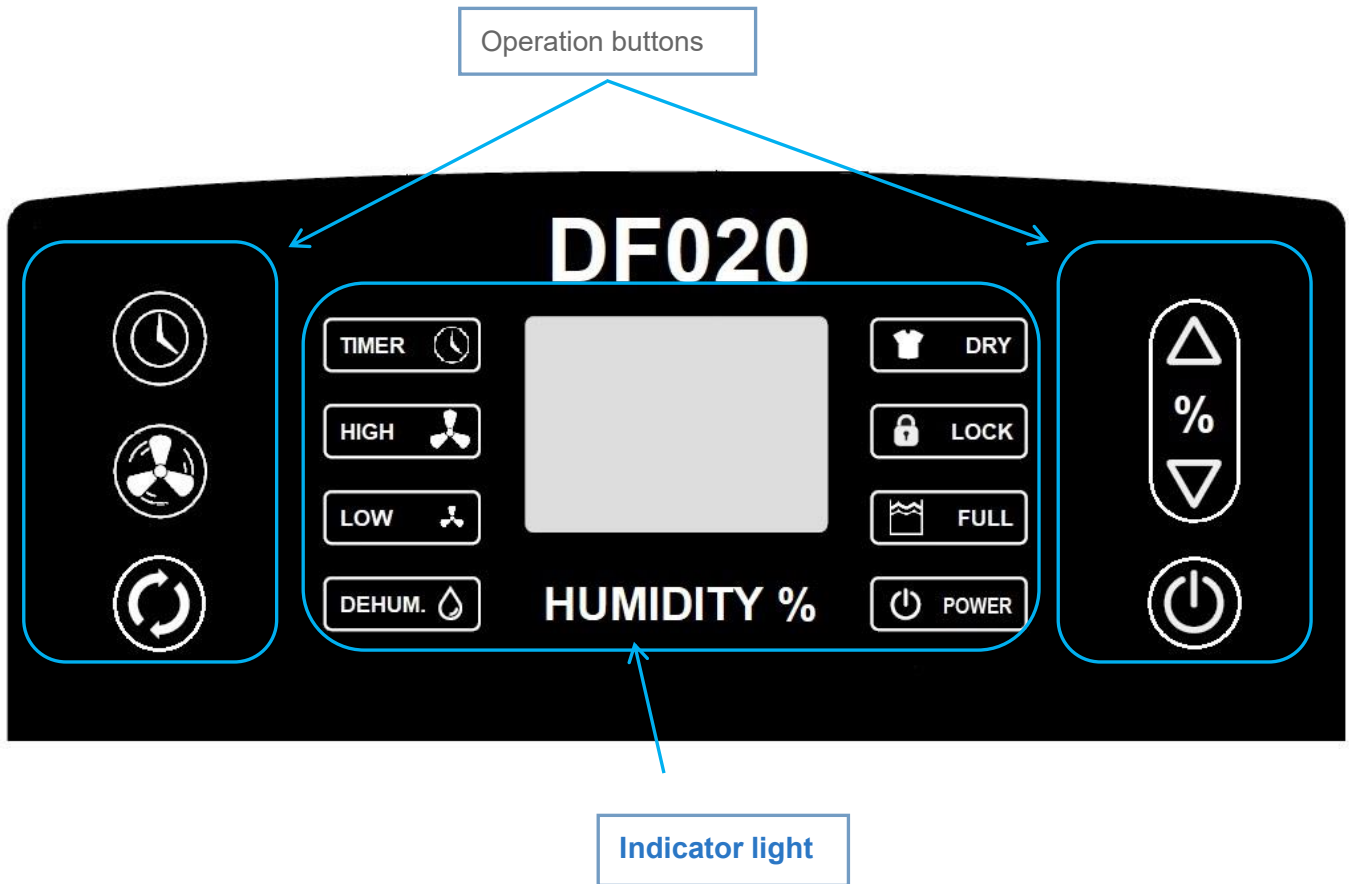
PRODUCT DIAGRAM

Parts



- 1. Control panel
- 2. Handle
- 3. Air outlet
- 4. Caster
- 5. Filter Box
- 6. Water Tank
- 7. Supply Cord

OPERATING INSTRUCTIONS







Humidity Level & Timer 2-digit display





The indicator features 3 functions: .

1. When the unit is plugged in, it will indicate the room humidity level.
2. When you set the humidity, it will indicate the humidity that you have selected
3. When you program the time for the unit to turn on and off, it will show the hours.
4. When the environment humidity is lower than 35%, it will show "35"
5. When the environment humidity is higher than 95%, it will show "95"


1. Turn on/off

When the machine is powered on, press  key to start normal operation of the machine, and then press  key to stop operation of the machine. When the machine is working, long press  button for 3 seconds, the child lock function will be activated, and the corresponding indicator light will be on. At this point, all key operations are invalid. Press  button for another 3 seconds, and the corresponding indicator light of the child lock function will be turned off.


2. Humidity setting

When the machine is in operation, adjust the humidity from 40% to 80% by  and , and adjust the humidity by 5% each time. The LED flashes when the machine is adjusted. Stop pressing for 5 seconds and return to normal display. The default value for humidity is 40%.




3. Fan-speed setting



Press  to set the fan speed to high or low, and the corresponding fan speed light will be lighted.

4. Work pattern setting

When you press the  key, you can switch between dehumidification mode and dry clothing mode, and the corresponding indicator light is on. In dehumidification mode, when the environment is the same as the set humidity, the machine stops dehumidification. In the dry clothing mode, the wind speed is automatic, and the wind speed is high when the ring humidity is higher than 55%. Ambient humidity below 50% is low wind. Humidity cannot be set, set 20% humidity to work dehumidification.

5. Time-setting

After the machine stops, press the  button to enter the startup time setting state, and the LED will display the startup time. Press  and  to adjust the automatic startup time from 1 hour to 24 hours.

When the machine is running, press the button to enter the setting state of shutdown time, and the LED will display the shutdown time. Press  and  to adjust the automatic shutdown time from 1 hour to 24 hours.

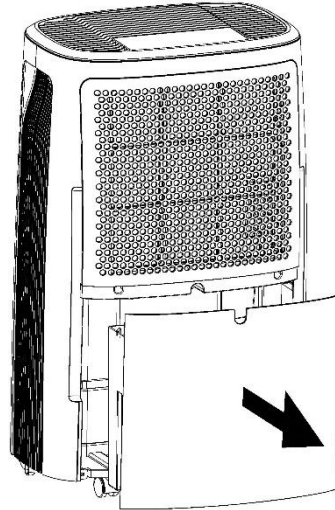
The switch will disable the timing function, but it will not disable the timing function when the water is full.

DRAINING THE COLLECTED WATER

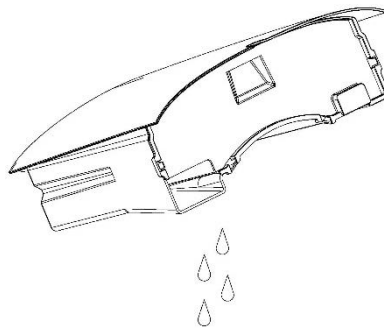
When the drainage tank is full, the tank full indicator light will turn on, the operation will stop automatically and the buzzer will beep 15 times to alert the user, that the water needs to be emptied from the drainage tank.

Emptying the Drainage Tank

1. Lightly press on the sides of the tank with both hands and pull the tank out gently.

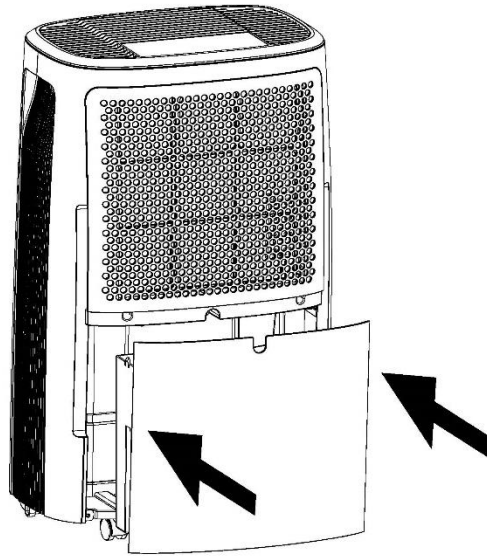


2. Discard the collected water



NOTE

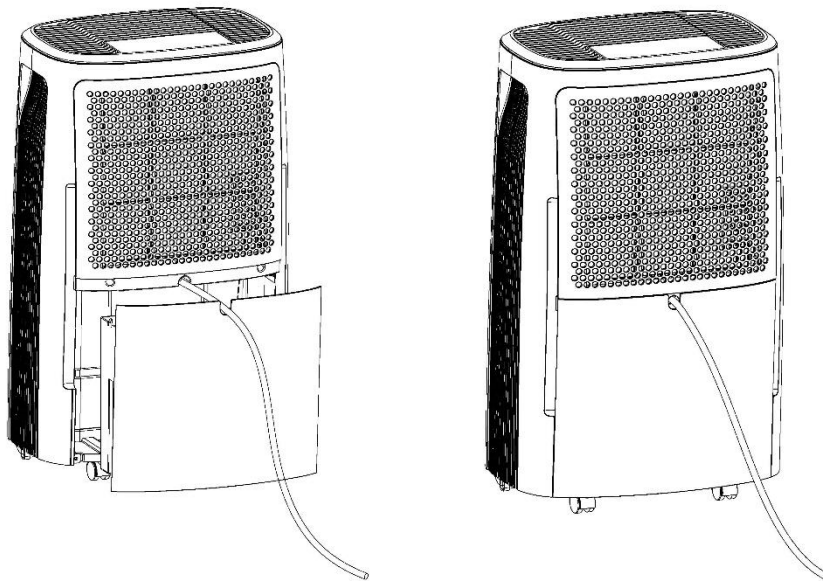
1. If the drainage tank is dirty, wash it with cold or lukewarm water. Do not use detergent, scouring pads, chemically treated dust cloths, gasoline, benzene, thinner, or other solvents, as these can scratch and damage the tank and cause water leakage
2. When replacing the drainage tank, press the tank firmly into place with both hands. If the tank is not positioned properly, the “TANK FULL” sensor will be activated, and the dehumidifier will not operate.



Continuous Water Drainage

The unit features a continuous drainage port. Using a plastic pipe (with an inner diameter of 10mm) inserts into drain hole (on intermediate plate), reach out from side of water tank, install it in place, and arrange the drainpipe.

The water in the drainage tank can be continuously drained out from the continuous port on the unit.



MAINTENANCE

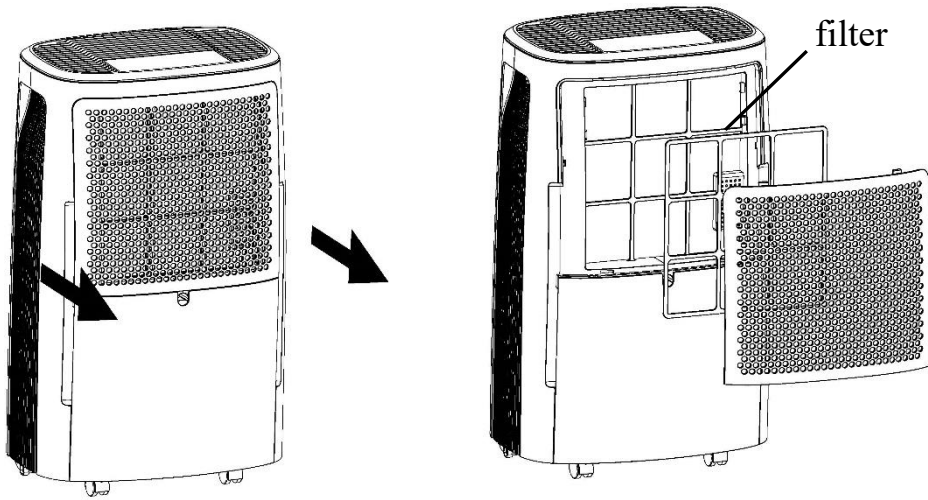
Cleaning the Dehumidifier

To clean the Body

Wipe it with a soft damp cloth.

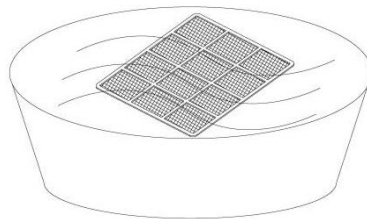
To Clean the Air Filter

1. Open the inlet grill firstly and remove the air filter



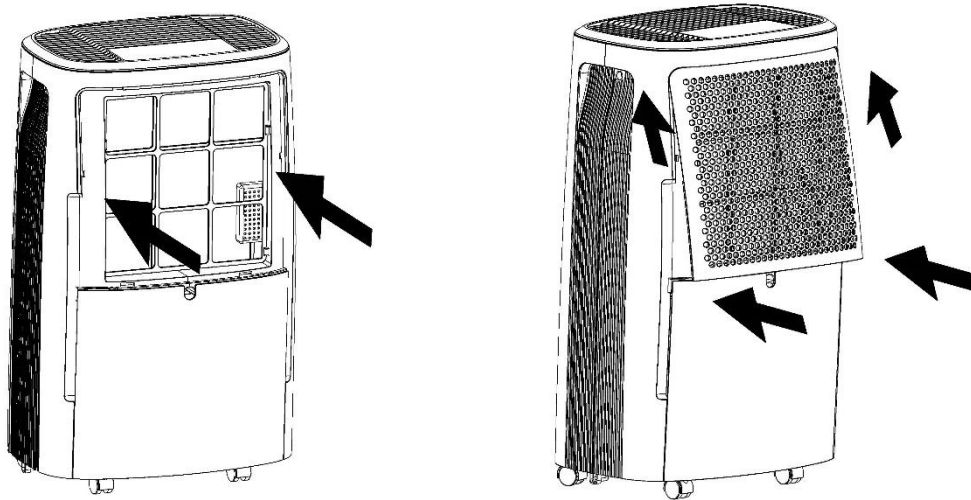
2. Clean the air filter

Run a vacuum cleaner lightly over the surface of the air filter to remove dirt. If the air filter is exceptionally dirty, wash it with warm water and a mild cleanser and dry thoroughly.



3. Attach the air filter

Insert the filter into the grill smoothly and place the inlet grill into right place.



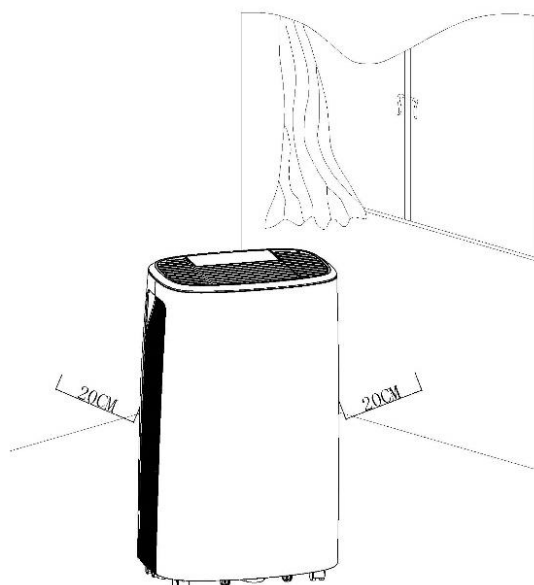
Storing the Dehumidifier

When the unit is not being used for a long period of time and you want to store it note the following steps:

1. Empty any water left in the drainage tank.
2. Fold up the power supply cord and put it in the water tank.
3. Clean the air filter
4. Discard in a cool and dry place.

Clearance

Maintain the minimum clearance around the dehumidifier when the unit is operating as shown in the left drawing.



TROUBLESHOOTING

If a condition listed below occurs, please check the following items before calling customer service.

Problem	Possible Cause	Solution
The unit doesn't operate	Has the power cord been disconnected?	Plug the power cord into the outlet.
	Is the tank full indication lamp blinking? (The tank is full or in a wrong position.)	Empty the water in the drainage tank and then reposition the tank.
	Is the temperature of the room above 35°C or below 5°C?	The protection device is activated and the unit cannot be started.
The dehumidifying function doesn't work	Is the air filter clogged?	Clean the air filter as instructed under "Cleaning the dehumidifier".
	Is the intake duct or discharge duct obstructed?	Remove the obstruction from the discharge duct or intake duct.
No air is discharged	Is the air filter clogged?	Clean the air filter as instructed under "Cleaning the dehumidifier".
Operation is noisy	Is the unit tilted or unsteady?	Move the unit to a stable, sturdy location.
	Is the air filter clogged?	Clean the air filter as instructed under "Cleaning the dehumidifier".

NOTE FOR MAINTENANCE WORK

1. 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 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.

2. 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.

3. 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 refrigerant, i.e. non-sparking, adequately sealed or intrinsically safe.

4. 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.

5. No ignition sources

No person carrying out work in relation to a refrigerant 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.

6. 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.

7. 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 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.

8. Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and components 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:

- those 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

9. Repairs to sealed components

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.

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.

10.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 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 manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

11.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 consider the effects of aging or continual vibration from sources such as compressors or fans.

12.Leakage detection for 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.

13.Leak detection methods

The following leak detection methods are acceptable for systems containing flammable refrigerant.

Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need recalibration (Detection equipment shall be calibrated in a refrigerant-free area.)

Ensure that detector is not a potential source of ignition and is suitable for the refrigerant used.

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 pipework.

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

If a leak of refrigerant is found which requires brazing, all of the refrigerants shall be recovered from the system. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

14.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. 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 pipework are to take place. Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

15.Refrigerant 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 commissioning. A follow up leak test shall be carried out prior to leaving the site.

16.Decommissioning

Before carrying out this procedure, it is essential that 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 reuse of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced. 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 repaired, 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.

17.Labeling

Equipment shall be labeled stating that it has been decommissioned 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.

18.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 are available. All cylinders to be used are designed 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 value and associated shut-off values 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 work 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.

19.Transport of equipment containing flammable refrigerants

Determined by local regulations.

20.Discarded appliances supplies flammable refrigerants

See National Regulations.

21.Storage package (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.