



by WHYNTER

PROTECH Commercial Freestanding/Built-in Beverage Merchandiser Display Refrigerator with Self-Closing Lockable Door and Mobility Wheels

MODELS: CDM-600BW (6.0 cu. ft.)
CDM-710BW (7.1 cu. ft.)
CDM-850BW (8.5 cu. ft.)



CDM-600BW



CDM-710BW



CDM-850BW

Congratulations on your new PROTECH product. To ensure proper operation, please read this User Manual carefully before using this product. Keep this manual in a safe place for future reference.

IMPORTANT NOTE:
Before using your refrigerator, please read this manual carefully and keep it for future reference.



DISPOSAL INFORMATION

Thank you for choosing PROTECH. Please follow the instructions provided in this user manual to obtain the very best performance from your refrigerator. We trust that your PROTECH refrigerator will provide the performance and reliability that we stand for.

Please keep this user manual in a safe place for future reference.



This symbol on the product or its packaging indicates that this refrigerator cannot be treated as normal domestic trash, but must be handed in at a collection point for recycling electric and electronic refrigerators. Your contribution to the correct disposal of this product protects the environment.

Further information about the recycling of this product can be obtained from your local municipal authority.

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SAFETY PRECAUTIONS

To prevent death or injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause death, harm or damage.

- Read all instructions before using the refrigerator.
- Never clean refrigerator parts with flammable fluids. The fumes can create a fire hazard. Do not use an excessively wet cloth, industrial solvents, and oil-based products to clean this refrigerator.
- Do not store or use gasoline or any other flammable vapors and liquids in the vicinity of this or any other refrigerator. The fumes can create a fire hazard.
- Do not abuse, sit on, or stand on the refrigerator.
- This refrigerator 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 refrigerator by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the refrigerator.
- If the power cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- Use the refrigerator only for its intended function. Any other use will void the warranty.
- To avoid the risk of shock, the product should never be used in bathrooms, shower rooms, or in any other steamy or wet areas.
- During installation, the power supply must not be excessively or dangerously bent or flattened.
- Do not tamper with controls.
- Make sure the power plug is placed fully and firmly into the wall socket. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install an outlet that is appropriate to local electrical codes and requirements.
- Do not use multiple sockets or an extension cord as it may overheat and become a risk of fire.
- Make sure the power plug is clean before usage.
- After turning the refrigerator off, please take the power plug out of the socket.
- Make sure hands are dry when connecting the power plug. The refrigerator is equipped with a three-prong grounded power plug on the power cord for your protection. Never modify, remove, or attempt to repair the power plug yourself.
- Do not repair, disassemble, and/or modify the refrigerator by yourself.
- Transport the refrigerator in an upright position only, or leave it in an upright position for at least 4 hours before first use.
- When positioning or moving the refrigerator, ensure that it is not turned upside down or greater than 45° or more off level.
- This refrigerator must be installed in an area protected from the elements, such as wind, rain, water spray, or drips.
- When using this refrigerator in confined spaces, such as a pantry, be sure to allow proper ventilation to prevent overheating and fire. Allow at least 5" of air space on all sides of the refrigerator for good air circulation.
- Always place the refrigerator on a hard, level, and even surface that can support the unit when it is full.
- Ensure objects are not obstructing the air vent.
- Never insert your fingers or other objects into the air outlets.
- This refrigerator must be earthed.
 - The wires in the mains lead are colored in accordance with the following code:
 - Green or Green with a yellow strip: Grounding
 - White: Neutral
 - Black: Live

CAUTION – RISK OF FIRE OR EXPLOSION

- Flammable refrigerant used. Consult repair manual/owner's guide before attempting to install or service this product. All safety precautions must be followed.
- Dispose of property in accordance with federal or local regulations: Flammable refrigerant used.
- Due to puncture of refrigerant tubing; follow handling instructions carefully: Flammable refrigerant used.
- The refrigerator should be installed in accordance with the safety standard for refrigeration systems, ASHRAE15. The refrigerator shall not be installed in corridors or hallways of public buildings.
- If the unit is with problem and needs maintenance, it should be replaced with like components, and servicing shall be done by factory authorized service personnel to minimize the risk of possible ignition due to incorrect parts or improper service.

INSTALLATION

To reduce the risk of fire, electrical shock, or injury when using your refrigerator, follow these basic precautions:

GENERAL SAFETY PRECAUTIONS

- Read all instructions before using the refrigerator.
- Never allow children to operate, play with, or crawl inside the refrigerator.

FIRE HAZARD PRECAUTIONS

- **DANGER:** An empty refrigerator can be hazardous for children or small pets. If disposing of the refrigerator, remove gasket seals, latches, lids, or the entire door from your unused refrigerator, or take other action to ensure the refrigerator is harmless.
- Never clean refrigerator parts with flammable fluids or harsh chemicals. The fumes can create a fire hazard or explosion.
- Do not store or use gasoline or any other flammable vapors and liquids in the vicinity of this or any other refrigerator. The fumes can create a fire hazard or explosion.

PRE-INSTALLATION PREPARATION

- Remove the exterior and interior packing.
- Before connecting the refrigerator to the power source, let it stand upright for approximately 4 hours. This will reduce the possibility of a malfunction in the cooling system from handling during transportation.
- Clean the interior surface with lukewarm water using a soft cloth.

INSTALLATION LOCATION AND SETUP

- The refrigerator is designed for freestanding installation.
- **WARNING:** Do not store or install the refrigerator outdoors.
- **CAUTION:** This refrigerator is designed for storing and cooling beverages. Do not store perishable food, medicine, or other medical products.
- Place your refrigerator on a hard and level floor that is strong enough to support it when it is fully loaded.
- To level your refrigerator, adjust the leveling legs at the bottom of the refrigerator if needed.
- Allowance of at least 5 inches (127mm) of space between the back and sides of the refrigerator is suggested, which allows proper air circulation to cool the compressor and condenser.
- We do not recommend installing the refrigerator on carpet.
- Avoid installing the refrigerator near an oven or other heating source, as direct sunlight and heat sources may affect performance.

FREESTANDING INSTALLATION GUIDELINES

- A freestanding installation will allow you to install the refrigerator in any place you desire provided that the required clearance space around the refrigerator is respected.
- In every setting, there must be adequate ventilation and access for service. Never install or operate the unit in an enclosed area, such as a closed cabinet.

ELECTRICAL CONNECTION

WARNING: Improper use of the grounded plug can result in the risk of electrical shock. If the power cord is damaged, have it replaced by a qualified electrician or contact PROTECH Service Department.

Outlet Requirements

- This refrigerator requires a standard 115/120 Volt AC ~/60Hz electrical ground outlet with a three-prong plug.
- Ensure that the wall outlet and circuit are properly grounded by a qualified electrician.
- Secure the cord behind the refrigerator to prevent accidental injury.

Usage Guidelines

- Always plug the refrigerator into its own individual electrical outlet matching the voltage rating on the refrigerator label to prevent overloading circuits.
- Avoid pulling the power cord to unplug the refrigerator; grip the plug firmly and pull straight out from the receptacle.
- Immediately repair or replace frayed or damaged power cords to prevent electrical hazards.

INSTALLATION

EXTENSION CORD

Due to potential safety hazards, it is strongly recommended not to use an extension cord with this refrigerator. However, if necessary:

- Use only a UL/CUL-Listed, 3-wire grounding type refrigerator extension cord with a grounding type plug and outlet.
- Ensure that the electrical rating of the extension cord is 115 volts and at least 10 amperes.

POWER FAILURE

In the event of a power failure:

- Most power failures are resolved within a few hours and should not significantly affect the temperature of your refrigerator if you minimize opening the refrigerator cover.
- If the power outage is expected to last longer, take the necessary steps to disconnect your refrigerator to prevent potential hazards.
- Failure to unplug the refrigerator during an extended power outage could result in electrical shock or personal injury.

SPECIFICATIONS

Model	CDM-600BW	CDM-710BW	CDM-850BW
Color	Black	Black	Black
Installation Type	Built-in Freestanding	Built-in Freestanding	Built-in Freestanding
Storage Capacity	161 standard 12 oz. can	191 standard 12 oz. can	245 standard 12 oz. can
Cabinet Storage Capacity	6.0 cu. ft. (170 L)	7.1 cu. ft. (200 L)	8.5 cu. ft. (240 L)
Temperature Range	32°F - 50°F	32°F - 50°F	32°F - 50°F
Shelves	4 adjustable wire shelves	6 adjustable wire shelves	7 adjustable wire shelves
Noise Level	<53 dB	<54 dB	<54 dB
Compressor	CHC-free	CHC-free	CHC-free
Refrigerant	R600a	R600a	R600a
Power Consumption	160W	185W	200W
Amps	2.1A	2.2A	2.4A
Power Supply	115V/60Hz	115V/60Hz	115V/60Hz
Net Weight	97 lbs	108 lbs	121 lbs
Unit Dimensions	21.3" W x 20.8" D x 50" H	21.3" W x 20.8" D x 56.3" H	21.1" W x 20.8" D x 65.0" H
UPC	850014459659	850014459666	850014459673

IDENTIFICATION OF PARTS



Part	Description
1	Internal Fan
2	Door Lock
3	Door Handle
4	Exhaust Vents
5	Interior Cabinet Light
6	Temperature Control Knob
7	Internal Light Switch
8	Glass Door
9	Slide-Out Wire Shelves
10	Leveling Legs (4)

OPERATION

It is recommended to install the refrigerator in an area where the ambient temperature ranges between 60°F (16°C) and below 90°F (32°C). If the ambient temperature exceeds or falls below these recommended ranges, it may affect the performance of the refrigerator. For instance, placing the refrigerator in extremely cold or hot conditions can lead to fluctuations in interior temperatures.

TEMPERATURE CONTROL

To achieve optimal results with your refrigerator, it is important to operate it correctly. The temperature in the refrigerator is regulated by the thermostat control knob, which is located inside the refrigerator cabinet. To adjust the temperature, simply turn the thermostat control knob clockwise or counterclockwise. The markings "1 – 7" and "OFF" on the control knob indicate the different temperature settings, with "1" representing cold and "7" the coldest (32°F-50°F). It's important to note that even when set to "1", the temperature will not exceed freezing.

Setting	Description
1	
2	Use when a colder temperature is not required.
3	
4	Normal setting suitable for daily use.
5	
6	Use when a colder temperature is desired.
7	Use when the refrigerator needs to operate at its coldest temperature.



LEVELING THE REFRIGERATOR

Ensuring that the refrigerator is properly leveled is essential for its optimal operation. You can adjust the level by rotating each of the legs located at the bottom of the machine. If you notice that the surface is not level, continue adjusting the legs until the refrigerator becomes level. It may require several adjustments to achieve the desired level.

To ensure proper leveling, follow these steps:

1. Place a carpenter's level on top of the product to check if the refrigerator is level from front to back and side to side.
2. Turn the leveling legs to the right to lower that side of the refrigerator, and turn them to the left to raise that side of the refrigerator.



OPERATION

DEFROSTING

Under typical ambient conditions, the refrigerator usually doesn't require defrosting. However, in colder ambient temperatures and/or high humidity, some frost may accumulate. To defrost the refrigerator, simply set the thermostat dial to "OFF", and defrosting should occur within a few hours. Once defrosting is complete, return the thermostat control knob to the desired setting. For faster defrosting, you can remove all items from inside the cabinet, unplug the refrigerator, and leave the door open. It's important to never use a knife or any other metal instrument to scrape ice or frost.

PLACEMENT OF YOUR REFRIGERATOR

- Position the refrigerator in a dry and well-ventilated place, away from direct sunlight, heaters, and corrosive gases or chemicals.
- Clean the interior surface with lukewarm water using a soft cloth.
- Place the refrigerator on a hard and level floor that is strong enough to support it when it is fully loaded. Installing on carpet is not recommended.
- If the refrigerator needs to be lifted, two or more people should move the refrigerator. Failure to do so can result in back or other injury.

NORMAL SOUNDS

Your new refrigerator may produce sounds that are unfamiliar to you. Hard surfaces, like the floor and walls, can amplify these sounds. Here are common sounds you may hear and their possible causes:

Rattling Noises

These noises may originate from the flow of refrigerant or the water line. Items stored on top of the refrigerator can also contribute to rattling sounds.

Compressor Sounds

The high-efficiency compressor may emit pulsating or high-pitched sounds during operation.

Water Flow

Water running from the evaporator to the water reservoir may result in a splashing sound.

Refrigerant Circulation

At the end of each cycle, you may hear a gurgling sound caused by refrigerant flowing in the refrigerator.

Condenser Fan

You may notice the sound of air being forced over the condenser by the condenser fan.

Please note that an individual's perception of noise is directly influenced by the environment in which the refrigerator is situated. Our refrigerators adhere to international standards for such equipment and incorporate the latest technical advancements. It's important to understand that some level of noise from the compressor and coolant circulating in the system is inevitable.

POWER INTERRUPTION

If the refrigerator is unplugged, encounter power interruption, or turned off, you must wait 3 -5 minutes before restarting the refrigerator. If attempted to restart before this time delay, the refrigerator may not start.

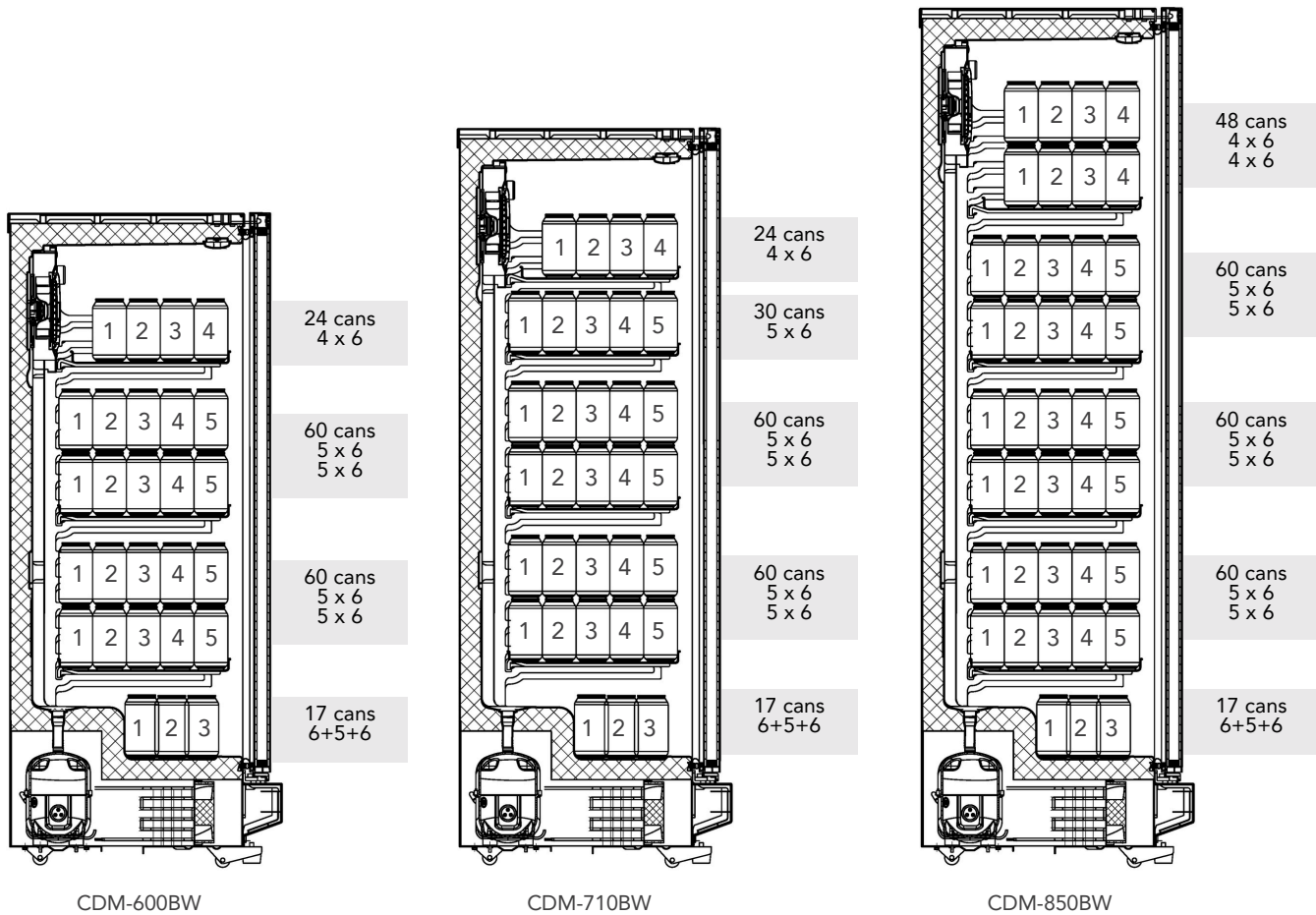
LOADING PLAN

STORAGE

Beverage cans may vary in size and dimensions, affecting the actual number that can be stored. The beverage can capacity is an approximate maximum when storing traditional 12 oz. cans. Other items may have different storage requirements.

When loading the cabinet, you can arrange the items in a single row or stack them. However, it's advisable to distribute the load throughout the refrigerator if you don't have enough items to fill it completely, to avoid imbalanced loads.

- Remove or relocate the adjustable shelves to accommodate larger cans, bottles, or other products.
- Maintain small gaps between the walls and the items stored and avoid overloading the cabinet to facilitate air circulation.
- Ensure the internal cabinet fan (located on the back wall panel) is not obstructed by items stored inside.
- Do not attempt to slide the shelves outwards beyond their fixed positions to prevent items from falling.
- Do not pull out more than one loaded shelf at a time, as this may cause the refrigerator to tilt forward if not properly installed.



CARE AND MAINTENANCE

PREPARING FOR STORAGE

If the refrigerator will not be used for an extended period or is to be moved to another location, it's necessary to defrost the unit and dry the interior.

1. Disconnect the refrigerator from the power supply by unplugging the power plug from the wall socket.
WARNING: Do not touch the power plug with wet hands. Never unplug the unit by pulling the cord.
2. Leave the door open to facilitate air circulation and prevent mold, mildew, and unpleasant odors.

CAUTION: Store the unit out of reach of children.

CLEANING YOUR REFRIGERATOR

- Turn off the power, unplug the refrigerator, and remove all items including shelves.
- Wipe the interior with a warm water and baking soda solution. The solution should consist of about 2 tablespoons of baking soda to one quart of water.
- Clean the shelves with a mild detergent solution.
- Wipe the exterior cabinet with warm water and mild liquid detergent.
- Avoid using steel wool or steel brushes on the stainless steel surface, as these may cause erosion and rusting.

VACATION TIME

- For short vacations lasting less than two days, leave the refrigerator operating.
- For longer vacations, if the refrigerator will not be used for an extended period, remove all items, turn off the refrigerator, and thoroughly clean and dry the interior.

MOVING YOUR REFRIGERATOR

- Remove all items from inside the refrigerator.
- Securely tape down (we recommend using painter's tape) all loose items (such as shelves) inside your refrigerator.
- Turn the adjustable legs up to the base to avoid damage.
- Tape (we recommend using painter's tape) the door shut.
- Ensure the refrigerator remains secure in the upright position during transportation and protect the exterior with a blanket or similar item.

ENERGY SAVING TIPS

- Position the refrigerator in the coolest area of the room above 60°F (16°C) and below 90°F (32°C), away from heat-producing refrigerators and direct sunlight.
- Ensure adequate ventilation around the refrigerator. Never block the air vents.
- Keep the door tightly closed and avoid frequent or prolonged opening.
- Organize the contents inside the refrigerator.
- Avoid overfilling the refrigerator to allow for proper air circulation.

TROUBLESHOOTING

Many common refrigerator problems are easily resolved. Try the troubleshooting suggestions below to see if the problems can be resolved before having to contact the service department.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The refrigerator does not operate	<ul style="list-style-type: none"> • There is a power failure • The refrigerator is not plugged in • A house fuse has blown or the circuit breaker is tripped 	<ul style="list-style-type: none"> • Ensure the refrigerator is plugged in and the power outlet has power • Replace the broken fuse or reset the breaker
The refrigerator is not cold enough	<ul style="list-style-type: none"> • The refrigerator is placed too close to a heat source • The door is opened too often • The door is not closed completely • The door gasket does not seal properly • The room temperature is outside of the normal operating range • Items are blocking the internal fan(s) 	<ul style="list-style-type: none"> • Adjust the temperature • Keep the refrigerator away from sunshine or other heat sources • Close the door tightly and do not open the door too frequently or for a long period of time • Ensure the door gasket is not loose. • Ensure the item is in an area with temperatures above 60°F (16°C) and below 90°F (32°C) • Ensure no items are placed against the back internal cabinet wall
The refrigerator turns itself on and off frequently	<ul style="list-style-type: none"> • The ambient (room) temperature is too low or high • A large amount of contents has been added to the refrigerator • The door is opened too often • The door is not closed completely • The fan is circulating the air in the cabinet • The door gasket does not seal properly 	<ul style="list-style-type: none"> • Decrease or increase the ambient (room) temperature • To minimize internal temperature fluctuation, do not add large amount of contents at once • Close the door tightly and do not open the door too frequently or for a long period of time • Ensure the door gasket is not loose • It is normal for the fan come on and off to circulate the air inside of the unit for even temperature distribution and to save energy

TROUBLESHOOTING

Many common refrigerator problems are easily resolved. Try the troubleshooting suggestions below to see if the problems can be resolved before having to contact the service department.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The refrigerator makes too much noise	<ul style="list-style-type: none"> • The noise may come from the flow of the refrigerant and expansion of the inside walls may cause popping and crackling noises • Contraction and expansion of the inside walls may cause popping and crackling noises • The refrigerator is not level 	<ul style="list-style-type: none"> • It is normal that as each cooling cycle ends, you may hear rattling or gurgling sounds caused by the flow of refrigerant in the refrigerator • The high efficiency compressor may make a pulsating or high pitched sound • Some popping or cracking noises are normal as are caused by expansion and contraction of the inside walls due to temperature changes • Make sure the unit is on a hard and level surface • Do not place the refrigerator on carpet • See Normal Sounds
The door does not close properly	<ul style="list-style-type: none"> • The refrigerator is not level • The shelves are out of position 	<ul style="list-style-type: none"> • Make sure the refrigerator is on a hard and level surface • Avoid placing the refrigerator on a carpeted or soft surface • Correctly install the shelves
Condensation builds up on the glass door	<ul style="list-style-type: none"> • Ambient temperature or humidity is high. • The door gasket is not sealing. 	<ul style="list-style-type: none"> • Lower the room humidity by a dehumidifier or air conditioner. • Ensure the door gasket is not loose or damaged.
The unit is frosting often	<ul style="list-style-type: none"> • The door was not closed completely • The door gasket is not sealing • Use a screw driver to loosen the screws to re-position the door/hinge and tighten the screws • Ambient temperature or humidity is high. 	<ul style="list-style-type: none"> • Close the door tightly and do not open the door too frequently or for a long period of time • The door may need to be re-positioned • Ensure the door gasket is not loose • Lower the room humidity with a dehumidifier or air conditioner

ONE YEAR LIMITED WARRANTY

This PROTECH product is warranted to the original owner, purchased from an authorized PROTECH dealer within the 48 U.S. continental states, for one year from the original purchase date against defects in material and workmanship under normal commercial usage. Should your PROTECH product prove defective within one year from the date of purchase, contact PROTECH's Customer Support Team with the serial number and proof of purchase to make a warranty claim. A Return Authorization Number must be issued before returning any parts or products. Parts or products received without a PROTECH issued Return Authorization Number will be refused. Under this warranty, PROTECH will repair or replace any parts found defective with new or remanufactured parts or exchange the defective product with a new, refurbished, or remanufactured product at our discretion. All defective products and parts covered by this warranty will be repaired or replaced on a mail-in basis to PROTECH's Service Center. This warranty is not transferable. After the expiration of the warranty, the cost of labor and parts will be the responsibility of the original owner. Return freight is prepaid by PROTECH within two months of purchase. After two months to one year, the customer will be responsible for the return freight cost to PROTECH's Service Center. Please package the product carefully in its original packaging to avoid damage in transit. PROTECH is not responsible for damage resulting from shipper mishandling or improper packaging. Please retain the original box and packaging materials.

THIS WARRANTY DOES NOT COVER:

- Acts of God, such as fire, flood, hurricanes, earthquakes and tornadoes.
- Improper power supply such as power surge, low voltage, defective household wiring or inadequate fuses.
- Damage, accidental or otherwise, to the product while in the possession of a consumer not caused by a defect in material or workmanship.
- Damage caused by consumer misuse, tampering, lack of maintenance or failure to follow the care and special handling provisions in the instructions.
- Damage to the finish of the case, or other appearance parts caused by wear.
- Damage caused by repairs or alterations to the product by anyone other than authorized by the manufacturer.
- Removal, Replacement Packaging, Freight and Insurance cost for the warranty service.
- Products sold AS IS or from an unauthorized reseller.
- Products that have had their serial numbers removed or defaced.

DISCLAIMER OF IMPLIED WARRANTIES; LIMITATION OF REMEDIES CUSTOMER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR OR REPLACEMENT AS PROVIDED HEREIN. CLAIMS BASED ON IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR OR THE SHORTEST PERIOD ALLOWED BY LAW, BUT NOT LESS THAN ONE YEAR. PROTECH SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES SUCH AS PROPERTY DAMAGE AND INCIDENTAL EXPENSES RESULTING FROM ANY BREACH OF THIS WRITTEN LIMITED WARRANTY OR ANY IMPLIED WARRANTY. SOME STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES, SO THESE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WRITTEN WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

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