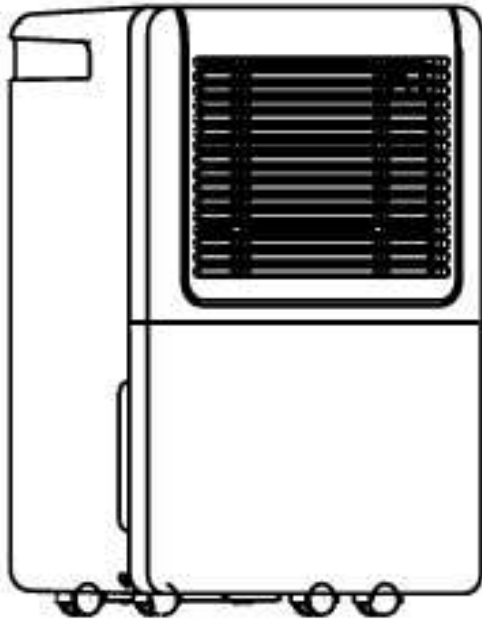




# ***DEHUMIDIFIER with BUILT-IN PUMP***

MODELS: SD-52PE / SD-72PE



## ***INSTRUCTION MANUAL***

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Please read these instructions thoroughly and  
keep it in a safe place for future reference.

## **CONTENTS**

SAFETY PRECAUTIONS.....	2
ELECTRICAL INFORMATION .....	3
CONTROL PANEL .....	4
FEATURES.....	5
IDENTIFICATION OF PARTS .....	6
OPERATING THE UNIT.....	7
WATER DRAINAGE .....	8
CARE AND MAINTENANCE .....	10
TECHNICAL SPECIFICATIONS .....	11
TROUBLE SHOOTING .....	11

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### **SOCIABLE REMARK**

**DISPOSAL:** Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste.

For disposal, there are several possibilities:

- A) The municipality has established collection systems, where electronic waste can be disposed of at free of charge to the user.
- B) The manufacturer will take back the old appliance for disposal at free of charge to the user.
- C) As old products contain valuable resources, they may be sold to scrap metal dealers.

Wild disposal of waste in forest and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.





BEFORE YOU USE YOUR **DEHUMIDIFIER**, PLEASE READ THIS INSTRUCTION MANUAL CAREFULLY.

### **SAFETY PRECAUTIONS**

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

The seriousness is classified by the following indications:

 **WARNING:** This symbol indicates the possibility of death or serious injury.

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

-----  **WARNING** -----

1. Do not exceed the rating of the power outlet or connection device.
2. Do not operate or stop the unit by means of the power plug.
3. Do not use unit with damaged cord or connect unit to damaged electrical socket.
4. Do not modify power cord length or share outlets with other appliances.
5. Do not insert or remove plug with wet hands.
6. Do not use in the following locations:
  - Next to or near a heat source (radiator, heater, dryer, etc.)
  - Area where oil or water is likely to splash.
  - Under direct sunlight.
  - Near a bath, shower or swimming pool.
  - In a greenhouse.
  - Near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.
  - Where chemicals are handled.
7. Disconnect power if strange sound, smell or smoke emits from the unit.
8. Never try to take apart or repair the unit by yourself. There are no user serviceable parts.
9. Always power off and unplug the unit before cleaning and maintenance.
10. Do not drink or use the water drained from the unit
11. Do not remove water bucket during operation.



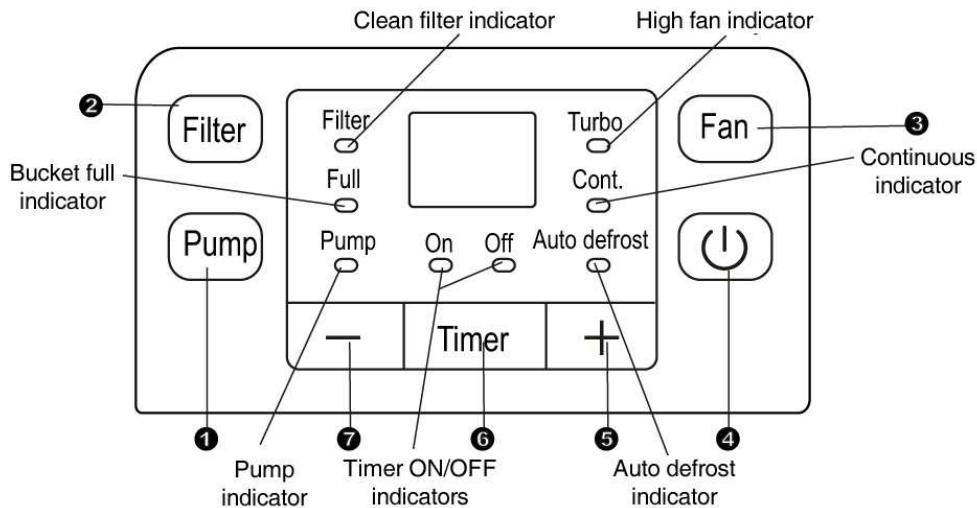
----- **CAUTION** -----

1. Do not use the unit in small spaces for lack of air ventilation.
2. Place the unit on a level, sturdy ground.
3. Do not cover the units and its air inlets/outlets.
4. Care should be taken when using the unit in a room with the following: infants, children, elderly people, and people not sensitive to humidity.
5. Never insert your finger or other foreign objects into grills or openings. Take special care to warn children of these dangers.
6. Do not place heavy objects on the power cord and be sure cord is not compressed.
7. Do not climb on or sit on the unit.
8. Always operate with filters properly installed. Notes: Clean filter once every two weeks.
9. If water enters the unit, turn unit off immediately and contact Sunpentown.
10. Do not place flower vases or other water container on top of the unit.

***Electrical Information***

- The manufacture's rating label is located on the back panel of the unit and contains electrical and other technical data specific to this unit.
- Be sure the unit is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock. Never remove the grounding prong.
- Your unit must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Ensure the receptacle is accessible after the unit installation.
- ***Do not use extension cords or an adapter plugs with this unit.*** However, if it is necessary to use an extension cord, use an approved Dehumidifier extension cord only (available at most local hardware stores).
- To avoid the possibility of personal injury, always disconnect the power supply to the unit, before installing and/or servicing.

## CONTROL PANEL



Control Buttons: whenever a button is pressed, the unit will make a beep sound to indicate that it is changing modes.

- ❶ **PUMP:** Press to activate pump operation.  
NOTE: Make sure the pump drain hose is installed and the continuous drain hose is removed before activating the pump operation. When the bucket is full, the pump will begin to work. Refer to the following pages for removal of collected water. Do not use this operation when outdoor temperature is 32°F or lower .
- ❷ **FILTER:** The check filter feature is a reminder to clean the air filter for more efficient operation. The Filter indicator will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Filter button to turn off indicator light.
- ❸ **FAN:** Controls the fan speed. Press to select Turbo (high) or Normal fan speed. Set the fan to Turbo for maximum moisture removal. When the humidity has reduced or when quiet operation is preferred, set the fan speed to Normal.
- ❹ **POWER:** Press to turn the dehumidifier on and off.
- ❺/❻ **UP(+)/DOWN(-):**
  - Set humidity level: Press to increase or decrease set humidity level. Range of adjustment is from 35% to 85% RH, in 5% increments.
  - Set timer: Used to set timer, from 0 to 24 hours.
  - Continuous operation: To run the unit in continuous mode, press the Down (-) button until the display reads “CO” for continuous. To stop continuous operation, press the Up (+) button and set unit to desired RH%.
- ❽ **TIMER:** Press to initiate auto-start and auto-stop feature, works with + and - buttons.

## **DISPLAY PANEL**

- Displays the set humidity level (from 35% to 85%) or auto-start/stop time (0-24) while setting, then returns to display actual room humidity level ( $\pm 5\%$  accuracy), in a range of 30% RH to 90%RH (relative humidity).
- Displays error codes and protection codes:
  - **AS** – Humidity sensor error. Unplug and plug back in. If error repeats, call for service.
  - **ES** – Temperature sensor error. Unplug and plug back in. If error repeats, call for service.
  - **P2** – Bucket is full. Empty bucket and replace.
  - **EC** – Unit malfunction. Please make sure the environment temperature is suitable for operation.
  - **E3** – Unit malfunction. Unplug the unit and plug back in. If error repeats, call for service.
  - **Eb** – Bucket is removed or not properly seated. Replace and properly seat the bucket.

## **Other Features**

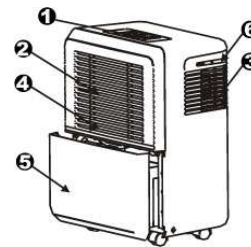
- **Bucket Full Light:** Illuminates when the bucket is full and needs to be emptied.
- **Auto Shut Off:** The unit shuts off when the bucket is full, or when the bucket is removed or not properly seated. Unit also shuts off when the set humidity has been reached. (The fan will continue to run for additional 3 minutes then stop, unit will resume when ambient humidity rises 5% above set humidity.)
- **Auto Defrost:** When frost builds up on the evaporator coils, the compressor will cycle off and the fan will continue to run until the frost disappears.
- **3 Minute Delay:** After the unit has stopped (or powered off), there will be a 3-minute delay before it will resume operation again. This is to protect the compressor. Operation will automatically start after 3 minutes.
- **Check Filter Feature:** The system begins calculating the time once fan motor begins operation. The check filter feature will be activated when operation time achieves 250 hours or more - the clean filter indicator light will begin to flash. After filter has been cleaned and replaced, press the Filter button to reset and the clean filter indicator will go off.
- **Auto-Restart:** If the unit breaks off unexpectedly due to power cut, unit will resume at previous setting when power returns.
- **Timer On and Timer Off:** Unit can be set to auto-start/stop, up to 24 hours:
  - When unit is on: press of the Timer button and the Timer-Off indicator will illuminate (indicating auto-stop is initiated). Press Timer button again and the Timer-On indicator will illuminate (indicating auto-start is initiated).

- When the unit is off: press of the Timer button and the Timer-On indicator will illuminate (indicating auto-start is initiated). Press Timer button again and the Timer-Off indicator will illuminate (indicating auto-stop is initiated).
- Press or hold the +/- buttons to change the set time in 0.5-hour increments, up to 10 hours; then in 1-hour increments, up to 24 hours.
- The selected time will register after 5 seconds and the panel will revert back to displaying ambient humidity.
- When both auto-start and auto-stop times are set, both Timer On and Off indicator lights are illuminated, identifying both On and Off timers are now programmed.
- Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel any timer programs.
- Timer program is also cancelled when LED displays P2 error code.

## IDENTIFICATION OF PARTS

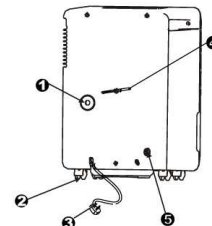
### FRONT

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



### REAR

1. Continuous drain hose outlet
2. Caster
3. Power cord and plug
4. Band (for use when storing the unit)
5. Pump drain hose outlet

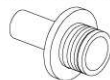


### ACCESSORIES

pump drain hose(1pc)



drain hose subassembly(1pc)



screw(2pcs)



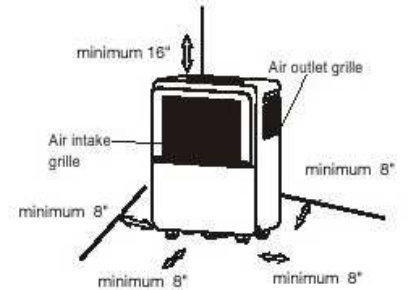
Note: all pictures in this manual are for explanation purposes only. The actual product may differ slightly, but the operations and functions are the same.

## **OPERATING THE UNIT**

### **Positioning the unit**

A dehumidifier will have little or no effect in drying an adjacent enclosed area, such as a closet, unless there is adequate circulation of air in and out of the area.

- Do not use outdoors.
- This dehumidifier is intended for indoor residential applications only. This dehumidifier should not be used for commercial or industrial applications.
- Place the dehumidifier on a smooth, level floor strong enough to support the unit with a full bucket of water.
- Allow at least 8 inches of space around the unit and 16 inches above the unit.
- Place the unit in an area where temperature will not fall below 5°C/41°F or the coils may become covered with frost, which may reduce performance.
- Place the unit away from clothes dryer, heater or radiator.
- Use the unit to prevent moisture damage where books or valuables are stored.
- Use the unit in a basement to help prevent moisture damage.
- The dehumidifier must operate in an enclosed area to be most effective.
- Close all doors, windows and other outside openings to the room.



### **Casters**

- Allow unit to move freely.
- Do not force casters to move over carpet.
- Do not move unit with water in the bucket as unit may tip over and spill water.

### **Before using the unit**

- When running the unit for the first time, operate the unit continuously for 24 hours.
- This unit is designed to operate within ambient temperature of 5°C/41°F to 35°C/95°F.
- If the unit has been switched off and needs to be switched on again, please allow 3 minutes protection time delay.
- Do not connect the dehumidifier to a multiple socket that is shared with other appliances.
- Select a suitable location, making sure you have easy access to an electrical outlet.
- Plug the unit into an electrical outlet with ground connection.
- Make sure water bucket is properly seated or the unit will not operate.

Note: When the water in the bucket reaches a certain level and unit needs to be moved, please do so carefully to prevent water from spilling.



**Removing collected water** - There are three ways to remove collected water.

**1. Use the bucket**

- If the unit is off and bucket is full, the Full indicator will illuminate.
- If the unit is on and bucket becomes full, the compressor and fan will turn off. Full indicator illuminates and digital display shows P2.
- Hold the left and right handles securely and slowly pull bucket straight outwards. (Fig.1) Do not put down the bucket - the bottom is uneven and will tip over, causing water to spill.
- Dump out water and replace the bucket. The bucket must be replaced properly for the unit to operate. (Fig.2)
- The dehumidifier will re-start when the bucket is restored in its correct position.

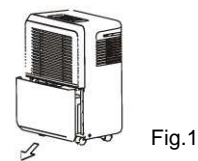


Fig.1

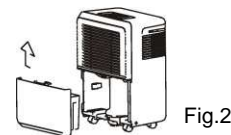


Fig.2

**NOTES:**

- When removing the bucket, do not touch any parts inside the unit.
- Gently push the bucket all the way in. Banging the bucket against anything or failing to push it in securely may cause the unit to malfunction.
- When the bucket is removed and you notice water in the unit, you must dry up the water.
- If the pump drops when you remove the bucket, please reinstall the pump properly before replacing bucket. (Fig.3)
- When the unit is operating and bucket is removed, the compressor and fan will stop, unit will beep 8 times and display will show Eb.
- When the unit is off and bucket is removed, unit will beep 8 times and display shows Eb.

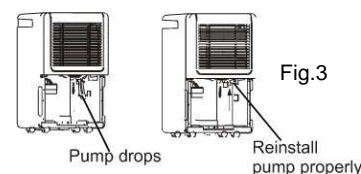


Fig.3

**2. Continuous drainage**

Water can be automatically emptied into a floor drain by attaching the unit with a water hose (ID≥Ø5/16", not included) with a female threaded end (ID:M=1", not included).

- Install drain hose to adaptor A. (Fig.4)
- Remove the plastic cover for the drain outlet, located on the back of unit. Remove bucket and insert the drain hose through the outlet and securely press it onto the connector. (Fig.5 & 6)
- Tighten the connection between Adaptor A and the unit by using the two provided screws.
- Install the female threaded end of the water hose to Adaptor A (Fig.7). Then lead the water hose to the floor drain or suitable drainage facility.

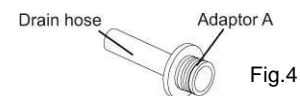


Fig.4

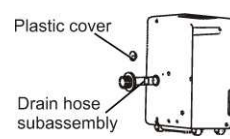


Fig.5

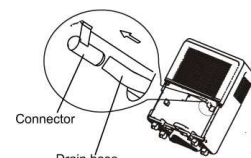


Fig.6

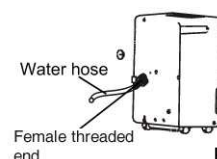


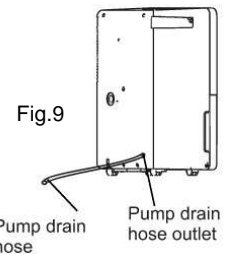
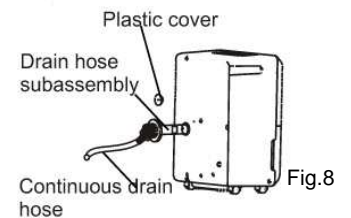
Fig.7

- Make sure the connections are secure so there will be no leaks.
- Direct the hose towards the drain, be sure there are no kinks that will stop the water flow.
- Continuous drain is gravity-pulled, be sure the hose is level or going downwards to allow water to flow smoothly.
- Place the bucket back in place and make sure it is seated properly.
- When continuous drain is not being used, remove the drain hose assembly.

### 3. Pump drainage

Water can be automatically emptied into a drain or a suitable drainage facility by attaching the pump drain hose to the pump drain out ( $\varnothing$  OD = 1/4", supplied).

- If continuous drainage is installed: remove the continuous drain hose and the drain hose subassembly from the unit. Replace the plastic cover to the continuous drain hose outlet with the two screws. (Fig.8)
- Connect the pump drain hose to the drain hose outlet. Connection should have a depth of at least 0.6 inches (Fig.9)
- Lead the water hose to the floor drain or suitable drainage facility.
- Press the "PUMP" button to activate pump. Pump will begin to operate when the water in the bucket reaches a pre-determined level.

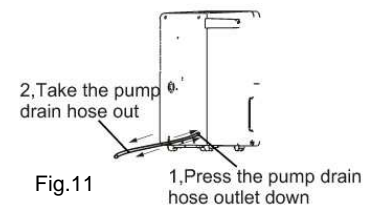
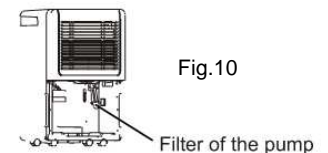


Note: The pump may make some noise during initial operation (3 to 5 minutes). This is normal.

- Make sure the hose connection is secure so there will be no leaks.
- Make sure the hose has no kinks or sharp bends.

Note: If the Pump Indicator light blinks, this indicates a pump operational failure. Please turn off the unit and unplug, then check the following:

- Clean the filter of the pump - Remove bucket from the unit. Remove the pump and clean filter. (Fig.10)
- Check and make sure the drain hose is not kinked or blocked.
- Empty the water in the bucket.
- Reinstall the pump and bucket properly. Turn unit back on. If problem persists, call for service.



Note: Do not use Pump operation when outdoor temperature is 32°F or below. Water may become iced and block the drainage, leading to unit failure.

- When pump drain feature is not being used, remove the pump drain hose. Press down on the pump drain outlet to remove hose (Fig 11). Be cautious as water inside the hose may drip.

## **CARE AND MAINTENANCE**

Always turn the dehumidifier off and unplug from power source before cleaning.

### ***Clean the Grille and Housing***

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

### ***Clean the Water Bucket***

- Every few weeks, clean the bucket to prevent mold growth, mildew and bacteria.
- Partially fill the bucket with clean water and add a little mild detergent. Swish it around, empty and rinse.

Note: Do not place bucket in the dishwasher. After cleaning, make sure outside of bucket is dried off before replacing to its seat.

### ***Clean the Air Filter***

- Filter should be cleaned once every two weeks, based on normal operating conditions.
- First remove the bucket and pull filter downwards to remove. (Fig.12)
- Wash the filter with clean water and allow to air dry completely.
- Re-install the filter and replace bucket.

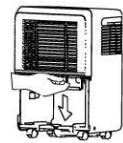


Fig.12

Caution: DO NOT operate the dehumidifier without a filter as dirt and lint will clog the compressor and reduce performance.

### ***Storage***

- After powering off and unplugging the unit, wait one day before emptying the bucket.
- Clean the unit, water bucket and air filter thoroughly.
- Allow to dry completely and replace filter and bucket.
- Wrap the cord and bundle with the band. (Fig.13)
- Cover the unit with a plastic bag.
- Store the unit upright in a dry, well-ventilated place.

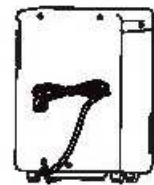


Fig.13

## TECHNICAL SPECIFICATIONS

MODEL	SD-52PE	SD-72PE
Moisture Removal **	50 pints per day	70 pints per day
Application Area	350 sq. ft.	550 sq. ft.
Power Supply	1Ph, 115V / 60Hz	
Current	4.7A	6.9A
Power Consumption	520W	720W
Energy Factor (EEV)	1.85 L/kWh	
Starting Current	22A	33A
Working Environment	41 ~ 95°F	
	35% to 85% RH	
Water Tank Capacity	7L	
Air Flow (High/Low)	320/280 m3/h	
Noise Level (High)	58.5 dB(A)	
Dimension	15.39(W) x 10.98(D) x 23.23(H) in.	
Packaging	16.61 x 12.68 x 24.21 in.	
Net/Gross Weight	36.38/38.58 lbs	39.68/41.89 lbs

\*\* Capacity will vary according to actual room ambient temperature and humidity conditions.

## TROUBLE SHOOTING

BEFORE CONTACTING THE MANUFACTURER, PLEASE CHECK THE FOLLOWING POSSIBILITIES.

PROBLEM	CHECK
Unit fails to start	<ul style="list-style-type: none"> <li>Power is OFF or power cord is unplugged/not securely fitted.</li> <li>Set humidity has been reached; water bucket is not placed properly or full</li> <li>Check power to the outlet, fuse/circuit breaker box</li> </ul>
Performance decreased	<ul style="list-style-type: none"> <li>Blocked air filter or air inlet/outlet are blocked</li> <li>Room windows and doors are open</li> <li>Not enough time allowed to remove the moisture</li> <li>Humidity setting may be set too high</li> <li>Ambient temperature is too cold, below 41°F</li> </ul>
Unit is noisy	<ul style="list-style-type: none"> <li>Unstable setting of unit or floor surface is not level</li> <li>Blocked filter</li> </ul>
Frost appears on coils	<ul style="list-style-type: none"> <li>This is normal. The dehumidifier has Auto-Defrost feature</li> </ul>
Water on floor	<ul style="list-style-type: none"> <li>Hose connection for continuous drainage or pump drainage is loose</li> <li>Intend to use the bucket for water collection, but the drain plug is removed.</li> </ul>
ES, AS, P2, EC, EB and E3 appears in display	<ul style="list-style-type: none"> <li>Refer to error codes on page 5.</li> </ul>
Unit is not collecting as much water during the winter months	<ul style="list-style-type: none"> <li>When temperature is low, absolute humidity level will drop as well, even when relative humidity is at the same percentage. There is less water vapor in the air when temperature is low</li> </ul>
Difficulty inserting the continuous drain tube	<ul style="list-style-type: none"> <li>Soak the plastic white connector in hot water for a few minutes will soften the plastic and make it easier to connect.</li> </ul>
The Pump indicator light blinks	<ul style="list-style-type: none"> <li>Clean the pump filter</li> <li>Check the pump hose is not kinked or blocked</li> <li>Empty the water in the bucket</li> </ul>

If you still cannot solve the problem after trying the above, unplug unit and contact Sunpentown Int'l Inc.



### ***Your Guarantee***

If this product is found to be faulty as a result of faulty materials or workmanship within one year from date of purchase, it will be repaired free of charge.

This guarantee is subject to the following terms:

- Sunpentown must be notified of the fault.
- Proof of purchase must be presented to Sunpentown's nominated representative.
- The warranty will be void if the product is modified, misused or repaired by an unauthorized person.
- The warranty after repair will not be extended beyond the original one-year period.
- All replacement parts will be new or reconditioned.
- Parts, which are replaced, become the property of Sunpentown.
- The warranty applies for the use of the product in the USA only.

What is NOT COVERED:

- Warranty does not include freight charges.
- Incidental or consequential damage caused by possible defects with this product.
- Damage to product caused by improper power supply voltage, accident, fire, floods or acts of nature.
- Failure of product resulting from unauthorized modifications to the product.
- Improper installation or failure to perform the necessary maintenance.

This GUARANTEE is in addition to your Statutory Rights

**SUNPENTOWN INTERNATIONAL INC.**  
**14625 Clark Ave, City of Industry, CA 91745**  
**Tel: 1-800-330-0388**  
***service@sunpentown.com***  
**[www.sunpentown.com](http://www.sunpentown.com)**