Cleveland Equipment

AVC-AVCG

Chamber Vacuum Sealers

Operation Manual

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Contents

Preface 3

Important Safeguards, Tips, & Caution Labels 4

Specifications 5

What is in The Package 6

Machine Diagram 7

Setting Up Your Chamber Vacuum Sealer 10

Getting Connected 11

Setting the Seal Part of Your Chamber Vacuum Sealer 13

Operating your Chamber Vacuum Sealer 15

Setting the Seal Part of Your Vacuum Sealer using the Digital Temperature Control* 16

Operating your Vacuum Sealer using the Digital Temperature Control* 18

Optimizing your Vacuum Time 18

Using the Gas Flush Feature* 20

Vacuum Selector Switch* 21

Service & Maintenance 22

- **Steps before servicing** 22
- **The Heating Element & Teflon Set (Part No. E- and T-)** 22
- **The Pressure Bar Pad (Part No. PBK-)** 26
- **Blown Fuse** 27
- **Vacuum Bags** 28

Problems and Solutions 29

**if equipped*

Preface

The following pages of this manual offer full and complete instructions for all the functions and features of your new Vacuum Sealer. Inside these pages, you will find information on and instructions for connecting, operating, and maintaining your chamber vacuum sealer. Please always read all safety instructions and complete directions carefully for safe usage. Proper usage, care, and maintenance will ensure trouble-free operation and the long life of this unit.

2-Year Limited Warranty

All AVC-AVCG Vacuum Sealers are warranted for two (2) full years from date of delivery against electrical and mechanical defects, excluding normal wear items such as Heating Elements, Element Posts, Teflon, Pressure Bar Pads, Gray/Black Rubbers and Seal Gaskets.

The warranty is voided if the machine is damaged due to improper or negligent use and/or unauthorized repairs. Further, this limited warranty does not cover any Acts of God such as fire, hurricanes, flood, and tornadoes. Any defective machine under warranty that is returned freight prepaid will, at our option, be repaired or replaced by the manufacturer, at no charge.

Warning

Do not attempt to repair or adjust any electrical or mechanical functions on this product. Doing so will void this warranty.

Important Safeguards, Tips, & Caution Labels

For your own safety, read and understand the operator's manual and all other safety instructions before using this equipment.

1. The Chamber Sealer needs constant air pressure, even during the vacuum cycle, set to between 100 to 110 psi (6.9-7.6 BAR) with an unrestricted air flow of 18 CFM (510 LPM) to work properly.

2. When choosing a portable Air Compressor, choose one with a 50-gallon (190 LTS) tank or bigger. Some compressors are very loud, choose one that will give you best value considering that the bigger the tank, the longer the air supply will last before the motor turns on.

3. Please use clean dry air only to keep your sealer's internal components working for years to come and to keep your warranty valid. Air filters and dryers appropriate for climate are necessary to maintain your factory warranty.

4. A good air filter is highly recommended.

5. To avoid any injury, turn off the Main On/Off (I/0) switch, disconnect the electrical power and air supply, and allow time for any hot surface to cool down to the touch before doing any servicing.

6. To avoid overheating and to extend the life of the Heating Element(s), set Heat Timer to the lowest setting that will result in a strong seal.

Specifications

Chamber Size:	22 x 22 x 4 inches (56x56x10 cm)
Seal Length:	20" (50.8 cm)
Seal Width:	1/4" (6.35 mm)
Vacuum Flow:	18 CFM (510 LPM)
Max. Vacuum Pressure at sea level:	28.5 inHg
Air Requirements:	18 CFM @ 110PSI (510 LPM @7.6 BAR)
Amps @ 120 Volts A.C.:	7
Amps @ 220 Volts A.C.:	4
Unit Size (in):	28L x 24W x 9.5h (71x61x24 cm)
Approx. Weight:	123 lbs. (56 Kg)
Approx. Ship Weight:	137 lbs. (62 Kg)
**Amperage may vary, check the serial number tag on the back of the machine for the amperage.	

What is in The Package

In the package, you will find:

- This Operation Manual.
- Chamber Vacuum Sealer.
- A bag vacuum packaged by this very same vacuum sealer which includes:
    - (1) Power cord.
    - For AVC models, one 3/8” OD Air tubing with one 3/8” OD to ¼” NPT male thread fitting.
    - For AVCG models, two 3/8” OD Air tubing with two 3/8” OD to ¼” NPT male thread fittings.

If your unit is standard, you will find:

- (1) E- 20 Heating Elements
- (1) T- 20 Teflon Set, in a roll, placed next to this manual.

If your unit is equipped with an additional Seal Bar*, you will find:

- (2) E-20 Heating Elements
- (2) T- 20 Teflon Sets, in a roll, placed next to this manual.

Machine Diagram

Unpack your new Chamber Vacuum Sealer and place it on its new home with the logo towards you.

A. Cool Timer.
B. Heat Timer.
C. Vacuum Gauge.
D. Chamber Sink.
E. Chamber Lid.
F. Red Emergency Stop Mushroom Switch.
G. Green Start Push Button Switch.
H. Vacuum Adjusting Screw (towards the back).
I. White Gas On/Off Switch*. (For AVCG only)
J. Vacuum Selector Switch*. (Optional)

On the top-right side of the unit, you will find from front to back:

- **Green Start Push Button Switch.** This will be lighted when power is on.

- **Red Emergency Stop Mushroom Switch**. Press this switch to do the following:

    - To Abort.
    - Pull to Reset.
    - On/Off Switch.

- **Vacuum Gauge.** The Vacuum Gauge will measure the vacuum level inside the chamber.

- **Heat Timer**. First part of the seal cycle, used to heat the bag so it can melt together. Timer should never be set or used for more than 10 seconds per bag, or it will cause damage to the bag and vacuum sealer.

- **If your unit is equipped with a Cool Timer*.** Second part of the seal cycle, used to keep the bag under pressure while the heating element and bag cool down. It should be set 50% higher than the Heat Timer setting.

- **If your unit is equipped with a Digital Temperature Control*.** Used for precise temperature and time control on the seal process. For more details, see section **Setting the Seal Part of Your Vacuum Sealer using the Digital Temperature Control*.**

- **White Gas On/Off Switch*.** This will be lighted when the gas purge function is on.

- **Vacuum Selector Switch*.** For quick switching within different vacuum pressures when packaging different size products. Use this switch to select a pre-defined vacuum pressure that you set for each position.

Looking at the right side of the unit, near the rear bottom corner you will find the vacuum adjusting screw for the first vacuum cycle.

- Operational during gas purge only. This is the Adjustable Vacuum Switch for the first vacuum limit before going to the gas cycle. Factory preset at 25 inHg. We recommend you do not adjust (on AVCG only).

- Vacuum adjusting screw for the gas vacuum purge. Operational during gas purge only. This is the Adjustable Vacuum Switch for the lower vacuum level which will be reached by filling the chamber with gas, before continuing to the final vacuum cycle before sealing. Factory preset at 0 inHg. We recommend you do not adjust (on AVCG only).

- Vacuum adjusting screw for the final vacuum cycle. This is the Adjustable Vacuum Switch for the vacuum setting before sealing. Factory preset at 25 inHg. Adjust as needed.

On the back of the unit, you will find:

- Electrical power receptacle.
- Compressed air supply connector.
- Gas supply connector* (on AVCG only).
- Serial number tag.

Setting Up Your Chamber Vacuum Sealer

To run this unit, you will need the following:

- Standard 120 Volt A.C. outlet or 220-240 Volt A.C. outlet if your unit is made for this higher voltage.

- See serial number tag next to the Power Receptacle of your Sealer to confirm voltage.

- Clean dry air set to between 100 and 110 psi (6.9 – 7.6 BAR) with an unrestricted air flow of 18 CFM @ 110 psi (510 LPM @ 7.6 BAR).

- Please use clean dry air only to keep your sealer's internal components working for years to come and to keep your warranty valid. Air filters and dryers appropriate for your climate are necessary to maintain your factory warranty

What Air Compressor Should I Buy?

When choosing a portable Air Compressor, choose one with a 50-gallon tank (190 LTS) or bigger. Some compressors are very loud, choose one that will give you best value, considering that the bigger the tank, the longer the air supply will last before the motor turns on. The bigger the compressor, the faster it fills the tank.

The Chamber Sealer needs constant air pressure, even during the vacuum cycle, set to between 100 to 110 psi (6.9-7.6 BAR) with an unrestricted air flow of 18 CFM (510 LPM) to work properly.

Getting Connected

1) **Power:**

a) **Make sure the Red Emergency Stop Mushroom Switch is pressed in the Off Position.** The Green Start Push Button Switch should NOT be lit up.

b) Connect your Power Cord to the Power Receptacle on the back of the Vacuum Sealer and to a 120 Volt A.C. outlet or 220-240 Volt A.C. if your unit is made for this higher voltage. See serial number tag next to the power receptacle of your sealer to confirm voltage.

2) **Air:**

a) Connect the supplied push fitting 1/4" Thread adaptor to your compressed air source. Then use the supplied 3/8" tubing to connect between the fitting on your Vacuum Sealer and to the compressed air source.

b) To connect the tubing into the push fittings, simply insert the tubing into the fitting and push in with a little force, it will automatically lock into place.

c) To remove the tubing, make sure there is no air pressure, then push on the colored plastic ring with one hand (unlocking the hose) and using the other hand, pull the tubing from the fitting at the same time. See figure 1.

Important

Please be careful when adding air pressure to the Vacuum Sealer as the lid will quickly rise if the machine is not in the "off" position.

Please use clean dry air only to keep your sealer's internal components working for many years to come. A good air filter is highly recommended.

3) **Gas* (for AVCG Models):**

a) Connect the supplied push fitting 1/4” Thread adaptor to your Compressed Gas source. Then use the supplied 3/8” tubing to connect between the fitting on your Vacuum Sealer (labeled “GAS”) and to the gas source. Set the gas pressure between 40 and 100 psi (2.75-6.9 BAR). The higher the gas pressure, the faster it will be inserted into your bag.

b) To connect the tubing into the push fittings, simply insert the tubing into the fitting and push in with a little force, it will automatically lock into place.

c) To remove the tubing, make sure there is no gas pressure, then push on the colored plastic ring with one hand (unlocking the hose) and using the other hand, pull the tubing from the fitting at the same time. See figure 1.

Figure 1

Setting the Seal Part of Your Chamber Vacuum Sealer

If your unit is equipped with a digital temperature control, see section **Setting the Seal Part of Your Vacuum Sealer using the Digital Temperature Control*.**

1. Turn on your Vacuum Sealer by pulling the Red Emergency Stop Mushroom Switch. **Be careful as the lid will quickly rise.** The Green Start Button will light up. Make sure the White Gas Purge Switch is off.

2. Set Heat Timer to four (4) seconds and Cool Timer to six (6).

3. Take one bag and fold it in half or take two bags and place one on top of each other. Place your folded bag or the bags over one the sealing bars on the inside.

4. Make sure there are no hands in or around the chamber and lid.

5. After making sure there are no hands in or around the chamber and lid, start the vacuum cycle by pressing and holding the green start switch until the lid completely closes and the vacuum cycle starts.

6. Chamber Vacuum Sealer will start to evacuate the air inside the chamber until it reaches the preset vacuum level (factory preset at 25 inches of Mercury). The seal cycle (heat and cool) will then commence followed by an automatic vacuum elimination inside the chamber, then the lid will open promptly.

Important Tip

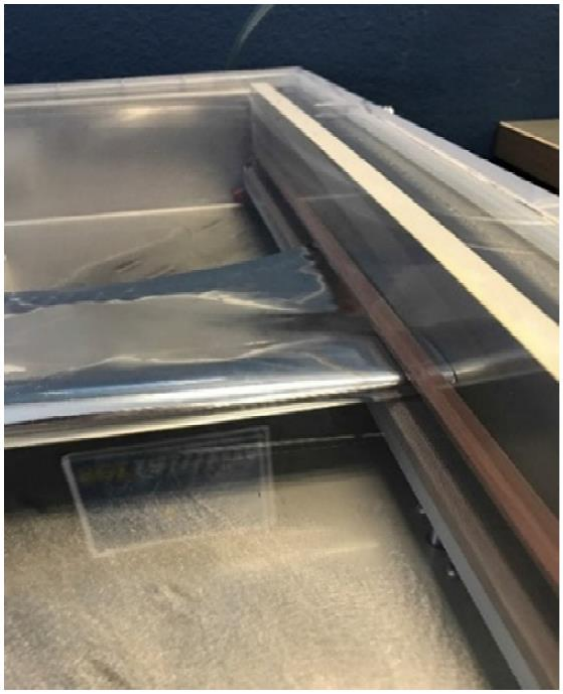
To avoid overheating and to extend the life of the Heating Elements**,** set the Heat Timer to the lowest possible setting that will result in a strong seal.

7. Remove the bag(s) and inspect the heat seal. The heat source is from the bottom, so the heat will go upward on your bag(s). The lower two (2) layers of the bag will be sealed, but **you want to make sure that the upper two (2) layers are also sealed.** This will ensure that if you seal a wrinkle in your bag, which is four (4) layers of bag material, it will be airtight.

8. Raise Heat Timer setting one half (1/2) second if the seal is weak or lower by one half (1/2) second if the seal is good.

9. Test again by repeating from step #3 onward. Adjust Cool Timer so material has time to set before lid opens, usually about 50% higher than the Heat Timer.

Folded Bag, closed top



Folded Bag, Open top

Figure 2

Operating your Chamber Vacuum Sealer

If your unit is equipped with a digital temperature control, see section Operating your Vacuum Sealer using the Digital Temperature control*

Before continuing, please read and understand the following steps before doing them, as the process will be fast. Now that your seal parameters are set, let us start vacuum sealing:

1. Place your bag with product inside the chamber so the open end of the bag is flat against the seal bar inside. If the bag with product is too thin, raise it by putting a solid object underneath the bag. E.g., a magazine or book.

2. Make sure there are no hands in or around the chamber and lid before continuing.

3. After making sure there are no hands in or around the chamber and lid, start the vacuum cycle by pressing and holding the Green Start Switch until the Lid has completely closed and vacuum cycle has started.

4. The Chamber Vacuum Sealer will start to evacuate the air inside the chamber until it reaches the preset vacuum level. Factory preset at 25 inches of Mercury. The seal cycle (heat and cool) will then commence followed by an automatic vacuum elimination inside the chamber, then the lid will open promptly.

Setting the Seal Part of Your Vacuum Sealer using the Digital Temperature Control*

1. Turn on your Vacuum Sealer by pulling the Red Emergency Stop Mushroom Switch. The Green Start Button should be lit up. Make sure the White Gas Purge Switch is off.

2. The Heat Timer has been set to four (4) seconds and the Digital Temperature Control to seal at 350°F and open the jaws when the temperature lowers to 200°F.

    a. If necessary, change the settings on your Digital Temperature Control,

    b. Press the “ALARM” button once, this will display the seal temperature,

    c. Choose the digit to change by pressing on the “right arrow” button, and then

    d. Change the digit by pressing the “up arrow” button.

    e. Press the “ALARM” button again to change the temperature at which the jaws will open and use the right and up arrow to change digits as explained above.

    f. Press the “ALARM” again to return to operation mode. The Digital Temperature Control will display “RESET” briefly.

3. Take one bag and fold it in half or grab 2 bags and place one on top of each other. Place your folded bag or the bags over the sealing bar on the inside.

4. After making sure there are no hands in or around the chamber and lid, start the vacuum cycle by pressing and holding the green start switch until the lid completely closes and the vacuum cycle starts.

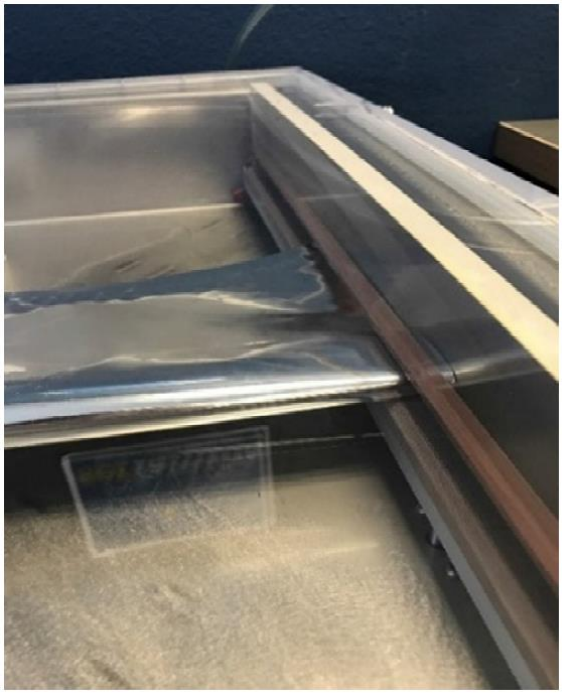
5. The Chamber Vacuum Sealer will start to evacuate the air inside the chamber until it reaches the preset vacuum level (factory preset at 25 inches of Mercury). The seal cycle (heat and cool) will then commence followed by an automatic vacuum elimination inside the chamber, then the lid may open promptly.

6. Remove the bag and inspect the heat seal. The heat source is from the bottom, so the heat will go upward on your bag. The lower two (2) layers of the bag will be sealed, but you want to make sure that the upper two (2) layers are also sealed. This will ensure that if you do seal a wrinkle in your bag (which is four (4) layers of bag material) it will be airtight.

7. Raise Heat Timer setting one (1) second if the seal is weak or lower by one (1) second if the seal is good.

8. Test again by repeating from step #4 onward.

Folded Bag, closed top



Folded Bag, Open top

Figure 3

Operating your Vacuum Sealer using the Digital Temperature control

Before continuing, please read and understand the following steps before doing them, as the process will be fast.

Now that your seal parameters are set, let us start vacuum sealing:

1. Place your bag with product inside the chamber so the open end of the bag is flat against the seal bar inside. If the bag with product is too thin, raise it by putting a solid object underneath the bag. E.g., a magazine or book.

2. Make sure there are no hands in or around the chamber and lid before continuing.

3. After making sure there are no hands in or around the chamber and lid, start the vacuum cycle by pressing and holding the Green Start Switch until the Lid has completely closed and vacuum cycle has started.

4. The Chamber Vacuum Sealer will start to evacuate the air inside the chamber until it reaches the preset vacuum level (factory preset at 25 inches of Mercury). The seal cycle (heat and cool) will then commence followed by an automatic vacuum elimination inside the chamber, then the lid may open promptly.

Optimizing your Vacuum Time

The vacuum pump included in your Chamber Vacuum Sealer evacuates the air out of the entire chamber. Fill in as much as possible any volume inside the chamber that will not be occupied by your package. Use plastic, wood or any solid object that does not hold air. This will take up space inside the chamber therefore having less air to evacuate, making the vacuum cycle faster.

Vacuum Adjustment

The vacuum pressure switch adjusting screw will be located on the bottom right of the right-side panel. The vacuum pressure switch been factory set at 25 inHg (inches of mercury). Adjust the vacuum switch according to your vacuum needs.

To adjust:

1. Using a thin flat head screwdriver, move the vacuum switch one half turn clockwise to lower the vacuum pressure or half turn counter-clockwise to raise the vacuum pressure. Turn half turn at a time and test. Then make smaller turns for finer adjustments.

a. The greatest vacuum pressure setting is 28 inHg at sea level. Do not turn counterclockwise too much as you may remove the vacuum switch adjuster, **turn half turn at a time and then test.**

To test the newly set vacuum pressure:

- Set the Heat Timer to 0 and Cool Timer to 5, and start the cycle
- Observe vacuum gauge to determine at what vacuum pressure setting the heat timer starts, you will hear a click when this happens.
- Go back to the adjustment procedure until desired vacuum level is reached.

Using the Gas Flush Feature*

If you wish to use the gas purge feature, simply:

1. Turn on the gas purge by pushing on the White Push Button Switch.

2. Place your bag with product inside the camber so the open end of the bag is flat against the seal bar inside. If the bag with product is too thin, raise it by putting a solid object underneath the bag. E.g., a magazine or book.

3. Make sure there are no hands in or around the chamber and lid before continuing.

4. After making sure there are no hands in or around the chamber and lid, start the vacuum cycle by pressing and holding the Green Start Switch until the Lid has completely closed and vacuum cycle has started.

5. The Chamber Vacuum Sealer will start to evacuate the air inside the chamber until it reaches the preset vacuum level. Factory preset at 25 inches of Mercury.

6. The chamber will automatically fill with the gas that you are supplying until the vacuum is eliminated, then a second vacuum will start to evacuate the air inside the chamber until it reaches the preset vacuum level on your final vacuum adjusting screw. Factory preset at 25 inches of Mercury.

7. The seal cycle (heat and cool) will then commence followed by an automatic vacuum elimination inside the chamber, then the lid will open promptly.

Vacuum Selector Switch*

If your unit was fitted with a Vacuum Selector Switch*, it would be located on the top right panel towards the back. This provides you with the ability to select from different final vacuum levels before sealing. The Vacuum Selector Switch chooses which of the adjustable Vacuum Switches on the bottom rear of the right panel will be used.

For models AVC:
The Vacuum Switch on the far left will be related to position #1 on the Selector Switch, followed by #2 to its right (position #2 clockwise from #1 on the Selector Switch) and so on, depending on how many positions the selector switch has (2, 3 or 4). Adjust each Vacuum Switch accordingly to your desired vacuum levels as indicated on the “Vacuum Adjustment” section of your manual.

For models AVCG:
The Vacuum Switch on the far left corresponds to the initial vacuum cycle. The 2nd Vacuum Switch to its right corresponds to the gas cycle. **PLEASE DO NOT ADJUST THESE 2 VACUUM SWITCHES ON THE FAR LEFT.**

The 3rd Vacuum Switch from the left corresponds to position #1 on the Selector Switch, followed by #2 to its right (position #2 clockwise from #1 on the Selector Switch) and so on, depending on how many positions the selector switch has (2, 3 or 4). Adjust each Vacuum Switch accordingly to your desired vacuum levels as indicated on the “Vacuum Adjustment” section of your manual.

Service & Maintenance

Steps before servicing

1) Disconnect the power and air from the machine.

2) Make sure the Red Emergency Stop Mushroom Switch is pressed in the “Off” Position.

3) We recommend having a second person assist by holding the lid while servicing the chamber sealer.

The Heating Element & Teflon Set (Part No. E- and T-)

Your Chamber Vacuum Sealer was built to give you years of trouble-free service. Depending on the heat timer setting and the use frequency, the heating element will break. To replace it, simply follow these steps:

1) Disconnect the yellow and the red cable connected to the chamber sink. To disconnect these, remove the gold thumb nuts with your fingers. Do not use tools. See Figure 4.

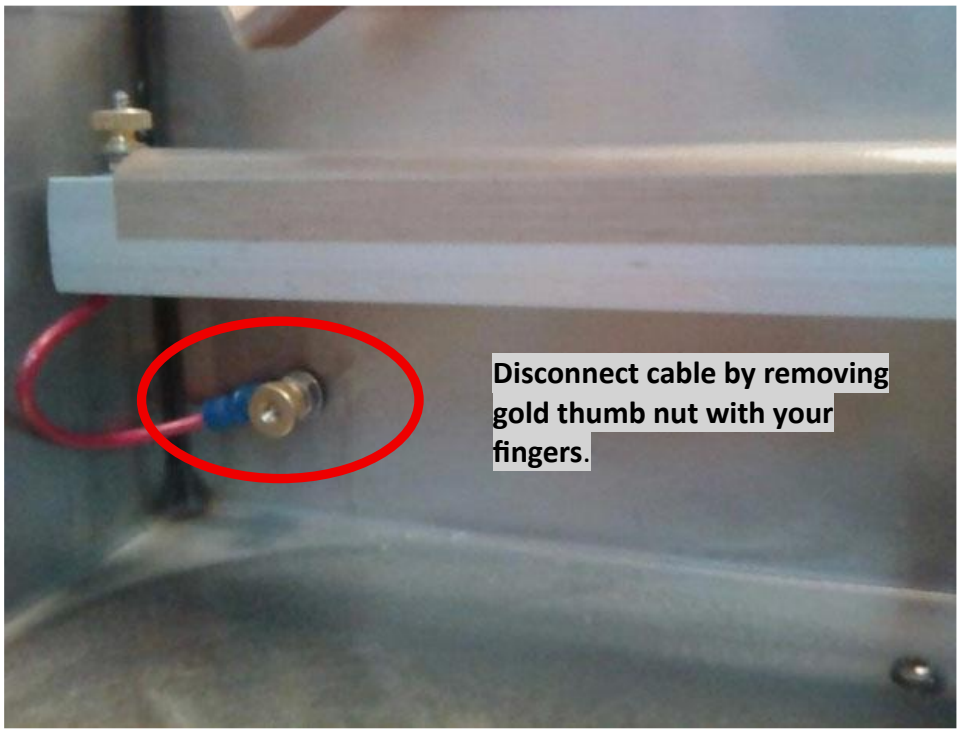


Figure 4

2) Using your fingers, unscrew the heating element bar from the cylinders and lift-up to remove the heating element bar from the chamber sink. Do not use tools.

3) Place the heating element bar in a flat surface.

Step 1. Remove the broken/burned Heating Element and Teflon.

1) Remove 1½" Teflon that covers the old Heating Element.

2) Remove thumb nuts and washers from the element posts on both sides.

3) Remove the old heating element by starting from the Fixed-Element-Post Assembly, the side where the red (fixed side) cable is connected. To remove it, press the spring element post assembly inward (yellow cable side) using a large flat screwdriver.

4) Remove the washers below the heating element, there is one on each post.

5) Remove ½" Teflon located underneath the heating element.

Step 2. Installing the New Element and Teflon Set.

When installing the new heating element, make sure there is no space between the thumb nuts, washers, and the heating element. Otherwise, the heating element will start to overheat from the ends and eventually break. Use figure 5 for guidance.

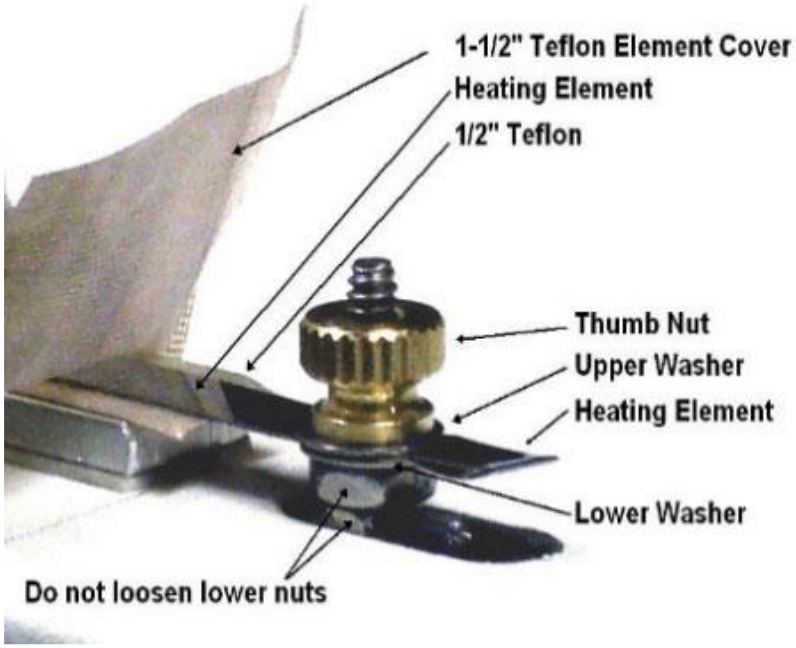


Figure 5

1) Remove backing on new ½" Teflon. Center over the ½" wide aluminum flat bar and press to adhere.

2) Leave an extra ½" of Teflon tape extending past each end of the aluminum flat bar to avoid electrical grounding with the Heating Element.

3) Place one washer on each post.
   a. Thumb nuts should be placed above the top washers.
   b. Washers should be placed at the top and bottom of the heating element, on each post.
   c. **There should not be any space between the thumb nuts, washers, and the heating element**

4) Place the new Heating Element over the Spring-Element-Post Assembly, where the yellow cable is connected. The folded side of the heating element goes **downward but make sure the folded side rests on top of the ½" Teflon tape.**

5) Still on the Spring-Element-Post Assembly, add a washer on top of the heating element and firmly hand-tighten the Spring-Element-Post Assembly with a thumb nut. Do not use tools. **Double check there is no space between the washers, heating element, and thumb nut before continuing to the next step.**

6) Install the other end of the Heating Element over the Fixed-Element post (red cable side) by compressing the Spring element post assembly (yellow cable side) with a large flat screwdriver. The folded side of the heating element goes downward but make sure the folded side rests on top of the ½" Teflon tape. Keep in a compressed position for the following steps. Add a washer above the heating element, and firmly hand-tighten with a thumb nut. Do not use tools. Double check there is no space between the washers, heating element, and thumb nut before continuing to the next step.

7) Remove the compressing of the spring.

8) Remove both backings from 1½" Teflon Cover.

9) Center Teflon so that the non-adhesive middle part covers the Heating Element.

10) Smooth out on each side so adhesive sets on the bar.

Step 3. Re-installing the Heating Element Bar.

1) Using your fingers, screw the heating element bar on the cylinders inside the chamber sink.

2) Connect the yellow and the red cable to the chamber sink and tighten with gold thumb nuts using your fingers.

The Pressure Bar Pad (Part No. PBK-)

1) From the pressure bar, remove the old Teflon cover, red rubber strip, and any adhesive left on the sides of the Bar. Take precaution not to loosen or remove the acrylic pressure bar from the lid.

2) Remove backing from the new red rubber and press lightly onto the Pressure Bar **without stretching**. Once in place, press firmly on the red rubber so that the adhesive sticks to the acrylic pressure bar.

3) Remove backing from the new 1½" Teflon cover. Center Teflon on top of the red rubber, press the Teflon on the red rubber smoothing out to each edge, and then fold over each side. See Figure 6.

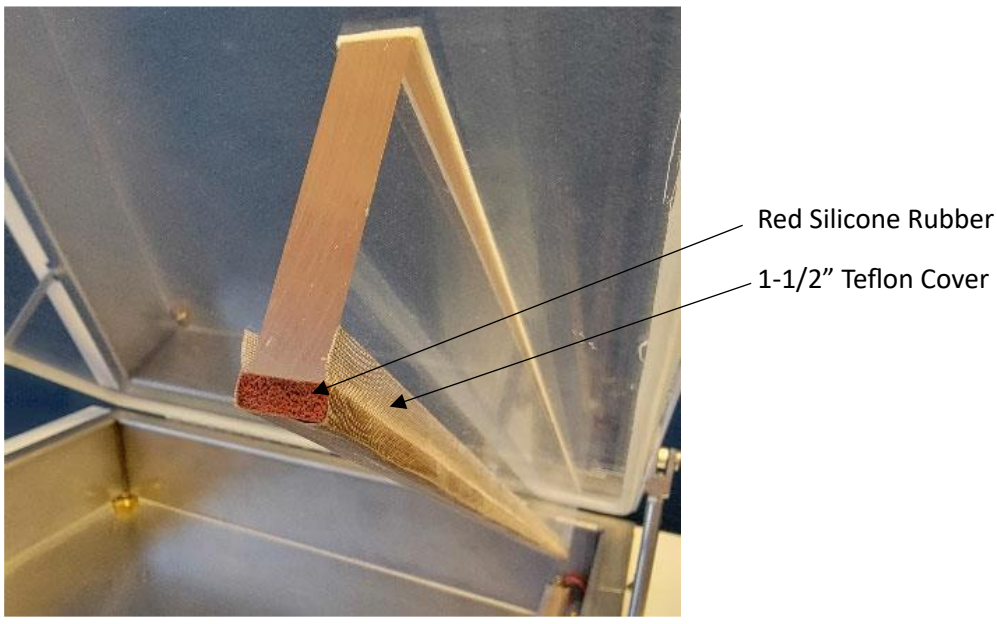


Figure 6

Blown Fuse

A spare fuse is found on the power receptacle.

1) Pry open fuse drawer with small flat screwdriver.
2) Fuse drawer has the spare included. See figure 7.

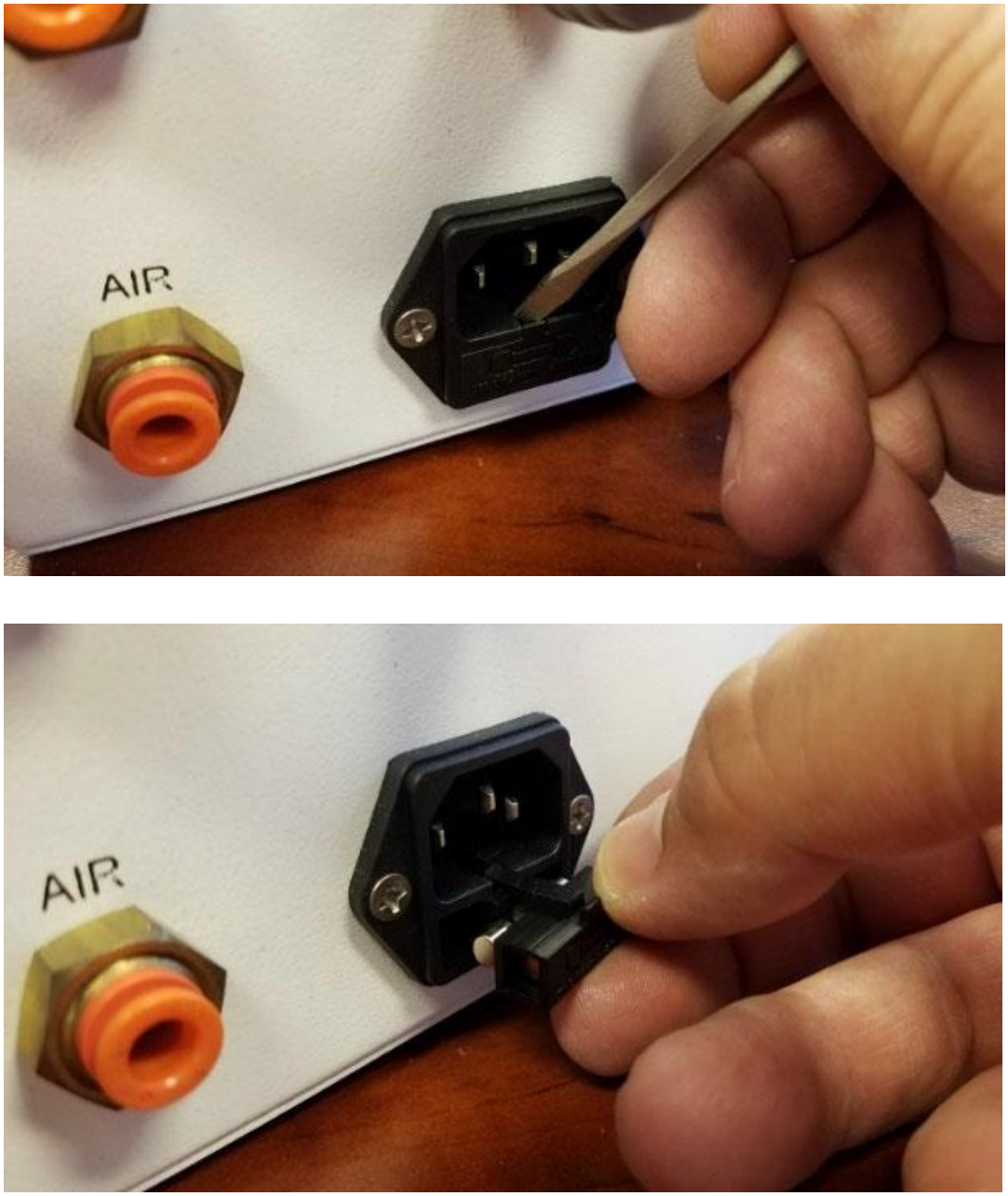


Figure 7

Vacuum Bags

A variety of vacuum bags including stand up pouches with zipper (optional) are available for your vacuum sealer. For additional information on our bags or to place an order please contact your sales representative.

Prices subject to change without notice.
$350 min order to one destination.
FOB factory.

3-mil Vacuum Bags, Clear								
Size	Case Qty	Price / Case	Size	Case Qty	Price / Case	Size	Case Qty	Price / Case
5x7	2000	$52	10x13	1000	$85	14x16	500	$73
6x8	1000	$34	10x15	1000	$93	14x20	500	$92
6x10	1000	$43	10x18	500	$53	14x24	500	$100
6x12	1000	$51	10x22	500	$59	16x20	500	$105
6x15	1000	$64	10x30	500	$80	16x24	500	$126
7x9	1000	$45	12x12	1000	$92	16x26	250	$66
7x11	1000	$54	12x14	1000	$110	16x28	250	$68
8x10	1000	$56	12x15	500	$60	18x22	250	$70
8x12	1000	$67	12x16	500	$63	18x28	250	$80
8x15	1000	$79	12x18	500	$71	20x28	250	$79
10x10	1000	$69	12x20	500	$91	22x34	250	$118
10x12	1000	$80	12x24	500	$104	24x36	250	$145

4-mil Vacuum Bags, Clear								
Size	Case Qty	Price/ Case	Size	Case Qty	Price/ Case	Size	Case Qty	Price/ Case
6x8	1000	$ 45	8x15	1000	$ 111	14x20	500	$ 130
6x12	1000	$ 67	10x15	1000	$ 139	16x20	250	$ 74
7x11	1000	$ 72	12x14	500	$ 78	20x28	200	$ 104
8x10	1000	$ 74	12x16	500	$ 89	24x36	200	$ 160
8x12	1000	$ 89	12x18	500	$ 100			

Problems and Solutions

In the unlikely event that you experience a problem with your machine, please take a couple of minutes to check these probable causes prior to contacting customer service.

Bag is not sealed evenly	Red Rubber might be indented	Replace Red Rubber and Teflon (Pressure Bar Kit).
Bag is not being Vacuumed	Low air pressure	Make sure air pressure is set to 100 to 110 psi, free air flow of 18 CFM is needed.
Bag loses its vacuum after time	Bag material might be porous	Use a bag made for vacuum. Do not use channel bags.
	Sharp corner might have punctured the bag	Use thicker bag or lower vacuum level. See Vacuum Adjustment in this manual.
Element sparks or breaks on the left side	The post is not holding the element tightly Between and by the washers	In the Table of Contents, look for “The Heating Element” under “Service and Maintenance.”
Machine does not turn on	Blown fuse	In the Table of Contents, look for “Blown Fuse” under “Service and Maintenance.”