



Vac110

owner's manual EN V2.1

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Dear user, please read this manual carefully before operating the equipment, proper use is very important to prevent damage to the machine and personal injury. The potential dangers during operation and maintenance of the equipment are described through symbols in this manual. The following symbols are used in the text for your reference.



Safety warning: *This symbol indicates a safety precaution to be taken to eliminate equipment malfunction and protect your personal safety.*



Notes: *This symbol represents the basic information of the equipment and methods or techniques used by the user.*

The manufacturer has reviewed the contents of this manual and it can't be guaranteed that the contents are exactly the same as the actual situation due to human error. Reviews will be made periodically to make necessary corrections and update accordingly. If you have any concerns about the performance or operation of the equipment after referring to this manual, please contact your distributor prior to use.





We are not responsible for any equipment malfunction or accident caused by installation and use of failure to follow the contents of this manual. All the copyrights of this manual are owned by the company and are strictly prohibited from spreading, copying and other infringing actions. In case of any infringement, the company will retain the right to sue.





Precautions should be taken to prevent damage to equipment when removing packaging. Please check whether the delivered equipment matches what you ordered, if the delivery is incomplete or damaged, please notify the distributor immediately.


PACKAGE CONTENTS


- 


BOTTLE OF OIL
CHECK OIL LEVEL BEFORE OPERATING
- 

FUNNEL
USE FOR OIL
- 

IEC POWER CABLE
USE TO POWER MACHINE
- 

REPLACEMENT HEAT STRIP
REPLACE HEAT STRIP IN BAR AT END OF LIFE
- 

REPLACEMENT SEAL BAR TAPE
REPLACE THE SEAL BAR TAPE AT END OF LIFE
- 

REPLACEMENT LID CHAMBER GASKET
REPLACE WHEN LID GASKET IS AT END OF LIFE
- 

FILLER PLATES (QTY - 2)
USE TO REDUCE EXCESS SPACE IN CHAMBER

uses and features of the Vac110



The Vac110 machine is a chamber style vacuum packaging machine. Superior to non-chamber, suction type machines, the Vac110 delivers a higher level of vacuum and more reliable seals. Equipped with an oil lubricated, rotary vane vacuum pump, this unit will last under many years of heavy usage.

With the added benefit of sealing liquid items, this chamber vacuum sealer will surpass all expectations.

Many products benefit from being vacuum packaged, food can be kept fresher longer and shelf life prolonged, for some items, it can effectively reduce the size making them easier to transport and store. It can be widely used in food, medicine, electronics, chemicals and other fields, one of the best choices for factories, shops, homes, restaurants, and more. The Vac110 is controlled by a low voltage digital control board, it is safe, reliable, simple to operate and easy to maintain. Constructed of corrosion resistant stainless steel and built to last. Adjustable vacuum, sealing, and cooling times to accommodate different packaging materials and requirements.

INSTALLATION



When the equipment is installed, you should select a location that is not accessible to children or any person who is not operating the equipment.

- *This equipment should only be used indoors.*
- *Do NOT spray or hose down this equipment.*
- *The presence of flammable gases or flammable vapors is prohibited around the equipment.*
- *The equipment must be used on a stable and level surface.*
- *The power cord must be unplugged before the equipment is transported, cleaned or moved.*
- *Equipment must remain upright when transported to avoid leakage and potential damage to the vacuum pump.*
- *Please note the safety symbols or notes pasted on the equipment.*

RISKS



To avoid serious injury, unplug the machine prior to performing any service!

- *When the equipment is connected to the power, it must be compatible with the rated power, frequency and voltage listed on the ID tag located on the back cover.*
- *Equipment must be plugged into a grounded receptacle.*
- *Do not use an extension cord when plugging in this equipment.*

EQUIPMENT

- *Check oil level in vacuum pump prior to first use and on a weekly basis.*
- *If any damage or oil leakage is found please contact your distributor prior to running.*
- *Never leave the machine unattended while operating! Disconnect power when the equipment is not in use.*
- *Using a damp cloth, wipe off the seal bar tape on the seal bar after each use.*
- *Reduce vacuum time when sealing liquids to prevent boil over and contamination to the vacuum chamber.*
- *Products being packaged must fit comfortably inside vacuum chamber. Under no circumstance should the lid be forced down in order to accommodate an oversized product with the rated power, frequency and voltage listed on the ID tag located on the back cover.*

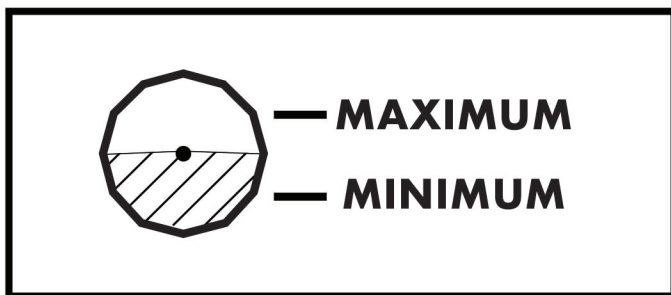
START-UP PREPARATION



The following actions must be taken before running!

- The machine must be placed on a stable and level surface. The environment should be clean and dry with a room temperature of 50°F – 85°F.
- The unit needs to be plugged directly into a 110V, 3-prong, grounded receptacle. Extension cords should not be used.
- Before operating, vacuum pump oil level should be $\frac{3}{4}$ full when viewed through the sight glass. If the oil level is less than $\frac{1}{2}$, then fill to the $\frac{3}{4}$ level. If oil level is too high or too low it will affect the pump performance and reliability.
- Set the heating time and temperature according to the thickness of the material. If you are not sure about the time and temperature settings then please consult with your distributor.

OIL LEVEL EXAMINATION

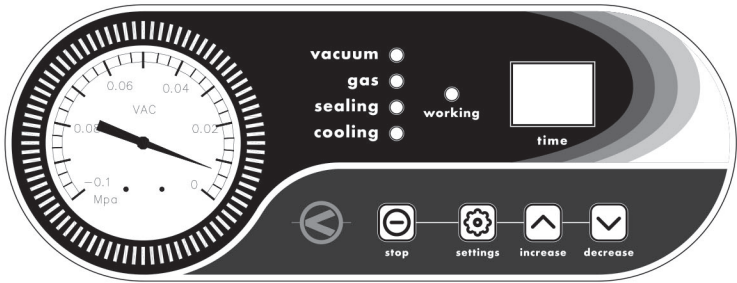


- Checking the oil level of vacuum pump. The sight glass may be viewed through the viewing window on the back panel.
- If the oil level is low, add the appropriate vacuum oil (REFERENCE PART# 100-08 in the "REPLACEMENT PARTS" section) must be non-detergent, the use of motor oil is strictly prohibited. Contact your distributor if you have any questions.

CONTROLS



The incorrect setting methods may affect the performance of the machine or the package integrity.



CONTROL PANEL



stop button

immediately stops the cycle and vents the chamber.



settings button

for making adjustments to the vacuum, seal, and cool times.



increase button

used for making setting adjustments



decrease button

used for making setting adjustments.



disconnect switch (power on/off)

The disconnect switch can be found on the left panel.







SETTING ADJUSTMENTS




• Every Vac110 is quality tested prior to shipping. Settings are preset to provide a good vacuum and seal on most items packaged in a 3mil vacuum pouch. If more or less vacuum is desired, then an adjustment must be made to the VACUUM TIME. When sealing thicker vacuum pouches, increasing the SEALING TIME may be required.


● Turn on the power using the **DISCONNECT SWITCH** (), the digital panel should display “—”, machine is currently in standby mode.

● Press the **SETTINGS** button (), VACUUM LED light turns on, press the **INCREASE** button () and the **DECREASE** button () to adjust the vacuum time.
NOTE: Recommended setting of 20-35 seconds.

● Press the **SETTINGS** button (), GAS LED light turns on. NOTE: The Vac110 does not come equipped with a gas flush option and therefore this setting should be set to 0 seconds.

● Press the **SETTINGS** button (), SEALING LED light turns on, press the **INCREASE** button () and the **DECREASE** button () to adjust the sealing time.
NOTE: Recommended setting for 3mil vacuum bags is 1.5 seconds.




● Press the **SETTINGS** button (), COOLING LED light turns on, press the **INCREASE** button () and the **DECREASE** button () to adjust the cooling time.
NOTE: Recommended setting for most applications is 3.0 seconds.

● Press the **SETTINGS** button () to save settings and return to standby.

OPERATION



Incorrect or improper methods of operation will negatively affect the machines performance.

- Turn on the **DISCONNECT** switch (), and confirm settings. See pg. 5.
- Select chamber vacuum pouches with the appropriate size and material. Load the product into the bag and wipe off any contamination around the area of the bag being sealed.
- Carefully lay the loaded bag into the vacuum chamber with the open end laid flat across the seal bar. It is recommended that the pouch be long enough to fully insert into the black hold-down clips. The use of these clips is not required but, in all cases, the pouch must be long enough to lay flat across the seal bar. The most common cause for packages to lose vacuum over time are due to creases and wrinkles in the seal area of the vacuum pouch. *NOTE: the open end of the bag must be inside the chamber when the lid is closed, if it hangs out of the chamber it will not be able to extract air from the package.*
- Close the lid firmly to start the cycle. After a couple seconds, the vacuum inside the chamber will suck the lid shut, at this time you may remove your hands from lid. If at any time the machine needs to be stopped immediately then the **STOP** button () may be used.
- Upon completion of cycle the chamber will vent and the lid will release and spring open. **CAUTION:** Keep head and hands clear until the lid springs open automatically.
- **CAUTION:** The heat seal bar may be hot shortly after the lid springs open. Please take caution when removing the vacuum sealed item from the chamber.
- When machine is not in use, turn off the **DISCONNECT** switch ().

OIL CHANGE

The quality of the oil will directly affect the performance and service life of the vacuum pump. It is recommended that the first oil change occur at 150 hours or 3 months of usage. Every future change should occur at 500 hours or every 6 months, whichever comes first.

NOTE: If the machine is used in a humid environment or if the products being packaged contain a high moisture content then more frequent oil changes are recommended.

● Run 99 sec. vacuum, 0 sec. seal, 0 sec. cool cycle to lower oil viscosity.

● Unplug machine from wall outlet.

● Remove the IEC power cable from the back of machine. Remove two screws from the bottom of the back panel.

● Grab body of the chamber and lift until the hinge locks into place. (SEE LABEL ON BACK PANEL)

● Using a suitable container to collect the oil, remove the oil drain screw **3**

CAUTION: OIL WILL BE HOT!

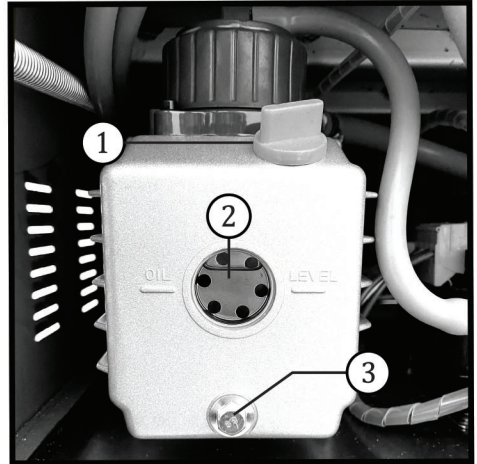
● After the oil has drained, reinstall the oil drain screw. **3**

● To refill, twist off the fill cap. **1**

● Add oil and fill to the appropriate level on sight glass. **2**

● Re-install the fill plug. **1**

● Run a cycle and check oil level. Top off if necessary.



MAINTENANCE

• Regularly check the vacuum pump oil level and fill if less than ½ full. Refer to pg. 7.

• First oil change should be performed after 150 hours of operation, after that every 500 working hours please change the oil. Exhaust filter should be replaced once every year.

• Regularly check the machine fasteners and tighten if necessary. Check the lid hinge mechanism and grease pivot points.

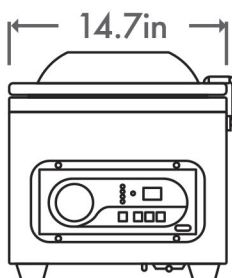
• Inspect the heating element and seal bar tape. If the wire is broken then replace immediately. Replace the tape if burnt or when the bags begin to stick to the seal bar.

PRODUCT SPECIFICATIONS

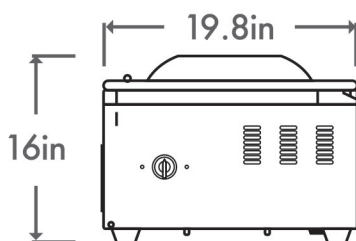
Model	Vac110
Voltage	110V/60HZ
Amps	6 Amps
Gas extraction rate	8m ³ /h \geq 0.09Mpa
Vacuum oil type	ISOVG 22
Oil Capacity	0.219 Quarts
Machine weight	77 lbs
Vacuum chamber size	11.3" x 15.2" x 5.2"
Sealing bar length	11"
Distance from seal bar to back of chamber	13.3"
Overall dimension (W,D,H)	14.7" x 19.8" x 16"

PRODUCT DIMENSIONS

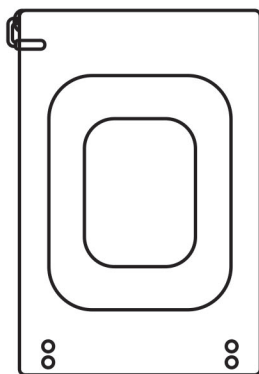
FRONT VIEW



SIDE VIEW



AERIAL VIEW



COMMON FAILURES AND TROUBLESHOOTING METHODS

FAULT	REASONS	CORRECTIVE ACTION
Machine won't turn on	No power supplied to machine	Check the connection of IEC power cable
	Disconnect switch is turned off	Check the disconnect switch on side of machine
	None of the above	Contact your distributor
Poor vacuum, packages are loose	Vacuum time set too low	Increase vacuum time (refer to pg. 5)
	Rubber lid chamber gasket is damaged	Replace lid changer gasket
	Vacuum pump oil is low	Add vacuum pump oil to pump (refer to pg. 7)
	None of the above	Contact your distributor
Poor heat seal on packages	Seal time is set too low or too high	Adjust seal time (refer to pg. 5)
	The upper seal cushion is damaged	Replace seal cushion
	The heat strip is damaged or broken	Replace heat strip and seal bar tape
	Seal bar is not lifting	Seal cylinders may need replacement, contact your distributor to confirm
	None of the above	Contact your distributor
Cycle won't start when lid is closed	Cycle start switch is damaged or defective	Start switch may need replacement, contact your distributor to confirm
Seal contamination when sealing liquids	Vacuum time set too high resulting in boil over	Reduce vacuum time setting (refer to pg. 5)
	None of the above	Contact your distributor

WARRANTY

The warranty on this machine is active for 12 months after the date of purchase. If you experience any issues please contact your distributor to determine the correct course of action.

*** REFER TO THE INCLUDED LIMITED WARRANTY PAGE ***

PACKING LIST






NAME	PART #	QTY
<i>filler plate</i>	<i>110-09</i>	2
<i>IEC power cable</i>	<i>100-75</i>	1
<i>owner's manual</i>	<i>N/A</i>	1 copy

SPARE PARTS

NAME	PART #	QTY
<i>vacuum pump oil</i>	<i>starter bottle</i>	1
<i>lid chamber gasket</i>	<i>110-10</i>	1
<i>heat strip</i>	<i>110-17</i>	1
<i>seal bar tape</i>	<i>110-16</i>	1

5.4 DISTRIBUTOR CONTACT INFO:

REPLACEMENT PARTS

IMG	NAME	PART #
	<i>Seal Bar Assembly</i>	<i>110-15</i>
	<i>Retort Bar Assembly</i>	<i>110-15R</i>
	<i>Heat Strip</i>	<i>110-17</i>
	<i>Seal Bar Tape (11")</i>	<i>110-16</i>
	<i>Seal Cushion Strip</i>	<i>110-19</i>
	<i>Seal Bar Lift Piston (Left & Right)</i>	<i>110-25</i>
	<i>Small Control Transformer</i>	<i>110-61</i>
	<i>Large Seal Transformer</i>	<i>110-62</i>
	<i>Vacuum Pump VISV-008P</i>	<i>110-30</i>
	<i>Valve Assembly</i>	<i>110-38</i>
	<i>Pump Exhaust Filter</i>	<i>110-32</i>
	<i>Controls</i>	<i>110-50</i>
	<i>Lid Chamber Gasket</i>	<i>110-10</i>
	<i>VacOil - 1 Qt (Vacuum Pump Oil)</i>	<i>100-08</i>

FREQUENTLY ASKED QUESTIONS

Q: How often should I change the oil?

A: The initial oil change should occur after 3 months, or 150 hours of usage. Every subsequent oil change should occur every 6 months or 500 hours of usage. NOTE: if operating in a humid environment or when packaging high moisture products on a regular basis, then more frequent oil changes are recommended.

Q: When should I replace the vacuum pump exhaust filter?

A: Once a year. (Annually)

Q: Why do my soups, marinades, and sauces boil when vacuum sealed?

A: Most people know that water boils at 212° F at sea level but did you know that water boils at 203° F in Denver due to their elevation and thus lower atmospheric pressure? When air is removed from the Vac110 chamber, pressure is decreased, and therefore the boiling temperature will also decrease. The more air that's removed the lower the boiling temperature will be.

PRO TIP: Pre-chill your soups, marinades, and sauces, this will allow for more air to be removed before boiling occurs.

Q: What is the secondary filter after the pump exhaust filter? How often should I replace it?

A: This is an exhaust silencer, exclusive to the Vac110. It's only necessary to replace it when damaged or visibly polluted.

FREQUENTLY ASKED QUESTIONS

Q: My unit makes a loud “BAM” or “THUMP” sound during operation. Is this normal?

A: Yes, this is normal. What you are hearing are the seal bar lift pistons engaging the seal bar assembly against the seal cushion strip. This provides the pressure needed to apply a high-quality heat seal to the vacuum pouches.

Q: Do I need to use oxygen absorbers in pair with the Vac110?

A: The Vac110 is capable of removing 99.8% of the air inside the chamber, this eliminates the need for oxygen absorbers.

PRO TIP: Set the vacuum time to 50 seconds or more to remove the maximum amount of air.

Q: What is the largest chamber vacuum pouch I can use in the Vac110?

A: 11" x 16"