



TABLE TOP VACUUM PACKING MACHINE
STAND ALONE VACUUM PACKING MACHINE
DOUBLE CHAMBER VACUUM PACKING MACHINE
VERTICAL TYPE VACUUM PACKING MACHINE

DJVac®



VACUUM PACKAGING MACHINE

INSTRUCTION & OPERATION MANUAL



USER GUIDE

INDEX

Summarization	02
Models and Specifications	03
Preparation Before Use	05
Control Panel	06
Operation Instructions	08
Spare Parts	09
Exploded View	10
Sealing Tape and Heating Wire Replacement Sketch	16
FAQ	20
Breakdown Analysis	21
Gas Circuit Schematic Diagram	23
Electric Circuit Schematic Diagram	24

Summarization

Usage:

Our company manufactured whole range of vacuum packaging machinery. We have our own R&D team to ensure our products are capable of: Easy operation, Easy maintenance, User friendly and also to cope with wide range application. Especially suitable for soft packing material such as complex film, aluminum-foil complex film etc.

It can also pack products in vacuum form or inserting gas after vacuum form to solid, powder and even liquid, paste, seed, fragrant article, medicine, chemical, electronic, precision instrument, meter and rare expensive metal etc.

The articles packed in vacuum condition ensure to the quality and freshness for a longer period as it can prevent oxidation, mildew, moth, rotten and damp, vacuum machine have different working environment.

Characteristics:

This machine is user friendly. From the flow chart: Close the machine cover, air exhaustion(vacuum), gas filling, heating, sealing, label printing, cooling, return-air, to the re-opening of cover, the whole processing in done automatically.

The sealing temperature and sealing time can be set flexibly with a wide adjustable range so as to suit various packing bags with different materials and specifications.

This machine is equipped with safe grounding protection and E-Stop Button protection to deal with sudden accident. The E-Stop Button can be pressed to stop packing procedure immediately if there is any emergency arisen during processing.

Models and Specifications

Models	Chamber Size(mm)	Sealing Size(mm)	Pump(m ³ /h)
DJVac 26	385 × 280 × 50(90)	260 × 8	10
DJVac 26G	385 × 280 × 50(90)	260 × 8	10
DJVac 30	370 × 320 × 135(185)	300 × 8	10
DJVac 30G	370 × 320 × 135(185)	300 × 8	10
DJVac 35	450 × 370 × 170(220)	350 × 8	20
DJVac 35G	450 × 370 × 170(220)	350 × 8	20
DJVac 39	500 × 410 × 110(170)	390 × 8	20
DJVac 39G	500 × 410 × 110(170)	390 × 8	20
DJVac 40F	440 × 420 × 75(125)	400 × 8	20
DJVac 40FG	440 × 420 × 75(125)	400 × 8	20
DJVac 40	440 × 420 × 75(125)	420 × 8 × 2	20
DJVac 40G	440 × 420 × 75(125)	420 × 8 × 2	20
DJVac 43	450 × 370 × 50(100)	430 × 8 × 2	20
DJVac 43G	450 × 370 × 50(100)	430 × 8 × 2	20
DJVac 45	460 × 450 × 170(220)	450 × 8	20
DJVac 45G	460 × 450 × 170(220)	450 × 8	20
DJVac 50T	540 × 520 × 150(210)	500 × 8	20
DJVac 50TG	540 × 520 × 150(210)	500 × 8	20
DJVac 40 2E	440 × 420 × 75(125)	420 × 8 × 2	20
DJVac 40 2EG	440 × 420 × 75(125)	420 × 8 × 2	20
DJVac 40GL	440 × 420 × 150(210)	400 × 8	20
DJVac 40GLG	440 × 420 × 150(210)	400 × 8	20
DJVac 50B	600 × 500 × 90(170)	500 × 8	20
DJVac 50BG	600 × 500 × 90(170)	500 × 8	20
DJVac 46 2	720 × 480 × 150(220)	460 × 8 × 2	20
DJVac 46 2G	720 × 480 × 150(220)	460 × 8 × 2	20
DJVac 50 2	540 × 520 × 150(230)	520 × 8 × 2	20 × 2
DJVac 50 2G	540 × 520 × 150(230)	520 × 8 × 2	20 × 2
DJVac 60 2	700 × 620 × 180(245)	600 × 8 × 2	20 × 2

Models	Chamber Size(mm)	Sealing Size(mm)	Pump(m ³ /h)
DJVac 60 2G	700 × 620 × 180(245)	600 × 8 × 2	20 × 2
DJVac 70 2E	710 × 610 × 155(225)	700 × 8 × 2	20 × 2
DJVac 70 2EG	710 × 610 × 155(225)	700 × 8 × 2	20 × 2
DJVac 80	940 × 620 × 200	800 × 8/480 × 8	100
DJVac 80G	940 × 620 × 200	800 × 8/480 × 8	100
DJVac 90	1040 × 680 × 200	900 × 8/540 × 8	100
DJVac 90G	1040 × 680 × 200	900 × 8/540 × 8	100
DJVac 100	1140 × 740 × 200	1000 × 8/600 × 8	100
DJVac 100G	1140 × 740 × 200	1000 × 8/600 × 8	100
DJVac 40–2S	460 × 430 × 90(140)	430 × 8 × 2	20
DJVac 40–2SG	460 × 430 × 90(140)	430 × 8 × 2	20
DJVac 50–2S	650 × 590 × 160	500 × 8 × 2	20 × 2
DJVac 50–2SG	650 × 590 × 160	500 × 8 × 2	20 × 2
DJVac 60–2S	760 × 590 × 160	600 × 8 × 2	100
DJVac 60–2SG	760 × 590 × 160	600 × 8 × 2	100
DJVac 70–2S	850 × 660 × 210	700 × 8 × 2	100
DJVac 70–2SG	850 × 660 × 210	700 × 8 × 2	100
DJVac 80–2S	960 × 930 × 280	800 × 8 × 2	200
DJVac 80–2SG	960 × 930 × 280	800 × 8 × 2	200

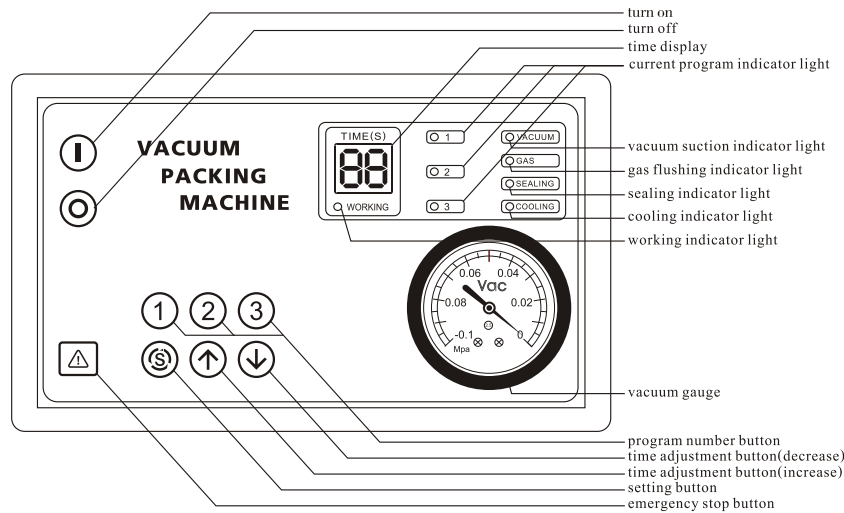
Please contact us for assistance if the model you bought is not stated in the above list.

Chamber size 380x280x(50)100 means length 380mm, width 280mm, height 100mm(50mm means net height of chamber without lid). Sealing size 600x8x2 means length 600mm, width 8mm, 2 sealers.

Preparation Before Use

1. Before operation, please read through the user guide about each operation rules and the safety precaution.
 2. You must fill the vacuum pump with pump oil before use (When the machine is placed at a horizontal position, the oil should keep at 1/3–1/2 of oil window.) When running, the oil level should not be lower than 1/3 height of oil window. Do not fill with too much oil to avoid over flow.
 3. The machine should be placed horizontally in good ventilation and light without corrosive gas and heavy dust.
 4. The power connection position maybe located at different side, so be sure to do grounding protection before use.
 5. Always ensure top cover is open before turning the power on. Start the machine by pressing the top cover and the process start automatically. For 3-phase vacuum machine, please be sure the vacuum pump is running in correct direction. If the direction is wrong, simply switch the phase of the power.
 6. Preheat of vacuum pump must be done in low temperature working area. Turn off the heater selection switch at the control panel to off position. This is to prevent heating process and cut down wear and tear losses.
 7. Remarks & Tips: Ways to fast process of vacuum a small item or product using a bigger chamber is to place a solid block into the chamber as to occupy the chamber space so as to allow less vacuum time needed due to compact space. You can buy the PP board as solid block from us.
- Note: Do not block the air hole in the chamber.**

Control Panel



Start Operation:

Connected the machine to power supply, open the power switch, press the button of “ON” , the time screen will displace “- -”, it shows that the machine had been ready for start operation, it could be used to setting the parameter or operation, but it couldn’t done at the same time.

Setting the parameter:

1. When time screen showed with “- -” or “Ed”, press the button of “setting” , firstly, the vacuum indicator will be lighted and could start to set the vacuum time, it could press the button of “increase” or “decrease” to increase or decrease the vacuum time which with range of 0-99 seconds.
2. Press the setting button, the gas flushing indicator will be lighted and could start to set the gas flushing time, it could press the button of “increase” or “decrease” to increase or decrease the gas flushing time which with range of 0-9.9 seconds. (If the machine didn’t have function of gas flushing, press this button will enter next step)
3. Press the setting button, the sealing indicator will be lighted and could start to set the sealing time, it could press the button of “increase” or “decrease” to increase or decrease the Sealing time which with range of 0-9.9 seconds.
4. Press the setting button, the cooling indicator will be lighted and could start to set the cooling time, it could press the button of “increase” or “decrease” to increase or decrease the Cooling time which with range of 0-9.9 seconds.

Notes: The cooling time should be set 0.6 seconds more than sealing time, in order to avoid Heating tape fusing.

5. After setting the cooling time, press again the button of setting, which indicate that the parameters had been ready for setting. The time screen will showed with “Ed” , which indicate the machine could be started for operation.

Memory Group Setting:

The memory group have been included one set of completed packing parameter. It could be set different memory according to the different packing requirements, which could be realized to change the setting parameters fast and improve the packing efficiency. For the “ three groups memory” control panel, when the machine under the standby time, press the button of “memory group number” , it could be set the parameters, and at the same time the actual program indicator is lighted, the machine will be under the standby time.

The usage of “Emergency Stop Button” :

The default factory setting for the “Emergency Stop Button” are as following: When the machine need to be emergency stopped during the operation, press the “Emergency Stop Button” to stop all the operation steps and open the lid.

We could also set the “Emergency Stop Button” with function of “Emergency Stop Sealing” which according to customer’s requirements. Pressing the “Emergency Stop Button” , machine will stop working, and enter the sealing step immediately, when accomplished the sealing, the lid will be opened.

Operation Instructions

1. Turn on the power supply and select a suitable vacuum packing bag for the product.
2. Set the processing parameter and select the sealing temperature. For the details, please refer to above.
3. Place the vacuum bag at the chamber with the opening end on top of the sealing bar. Clamp it with pressing stick.
4. Close the acrylic cover and the machine will complete the processing procedure automatically.
5. During processing, the vacuum chamber will form a vacuum self-lock state, the whole heating and sealing procedure are completed in a vacuum environment, and the LED display on panel shows the flow process.
6. When the vacuum indicator on panel lights, the equipment is under vacuum state, the LED display shows the timing of vacuum time, and it will enter into the next work state automatically after the timing is finished.
7. When the gas flushing indicator on panel lights, the equipment is under gas flushing state, the LED display shows the timing of gas flushing, and it will enter into the next work state automatically after the timing is finished.
8. When the sealing indicator on panel lights, the equipment is under sealing state, the LED display shows the timing of sealing, and it will enter into the next work state automatically after the timing is finished.
9. According to time setting, the machine doesn't act when cooling, the panel show "□□" till the timing is finished, air is returned, the cover opens automatically, and the whole processing is finished. Then prepare the next cycle.
10. Press the E-Stop button for a sudden condition under processing state, the machine will go to return-air action automatically, the cover opens automatically after return-air action, so the processing ends.

Note:

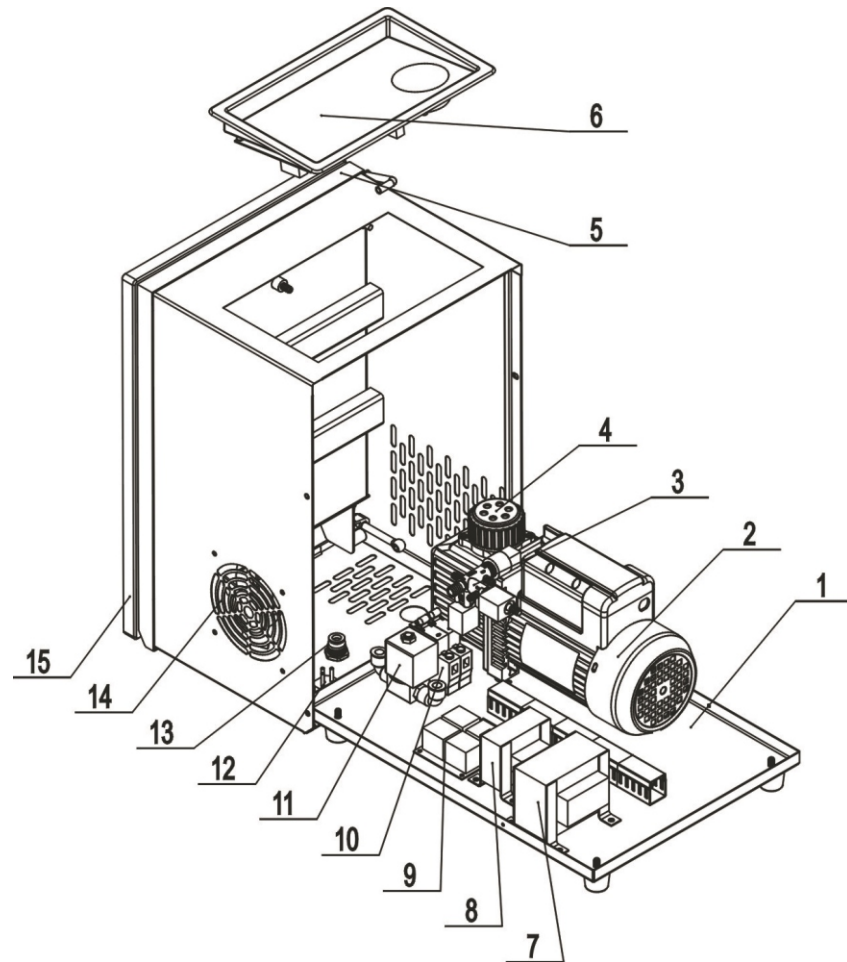
1. Silicon rubber strip come with one side nerving and the other for letter and number inserting. It will have embossed effect on sealing surface.
2. Please do not run the machine without any vacuum bag attach, otherwise the heating element will have higher wear and tear.
3. Cut off the power supply and pull out external plug when no use.
4. The vacuum gauge reading may be different due to different area. At high altitudes, the data in vacuum gauge goes down.
5. Please adopt suitable cooling measure when processing is done in a high temperature occasion.
6. Please use the vacuum bag whose material does not bring any poisonous gas in the sealing.
7. The machine should be placed horizontally in the transportation, the inversion is not allowed. The transportation must be followed strictly according to the instructing marks on the shipping case.
8. The machine should be stored in dry, ventilated, normal temperature place.
9. Mind your head when lid open, avoid the lid striking your head.
10. Please ask the professional to solve the problem, do not do some repair works by yourself.
11. The spare parts should match our machine in the replacement.

Spare Parts

Sealing Tape, Heating Wire, Vacuum Oil, Gasket, Special Tool and Allen Key

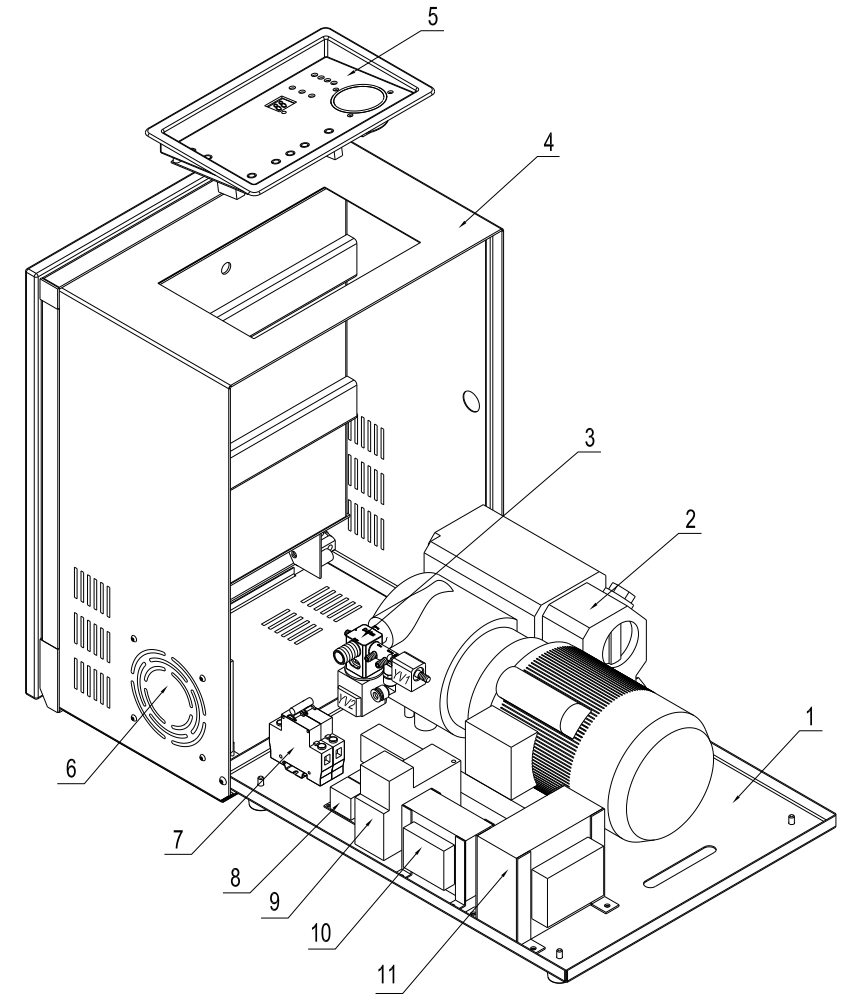
Exploded View

Table Top Vacuum Packaging Machine (010 pump):



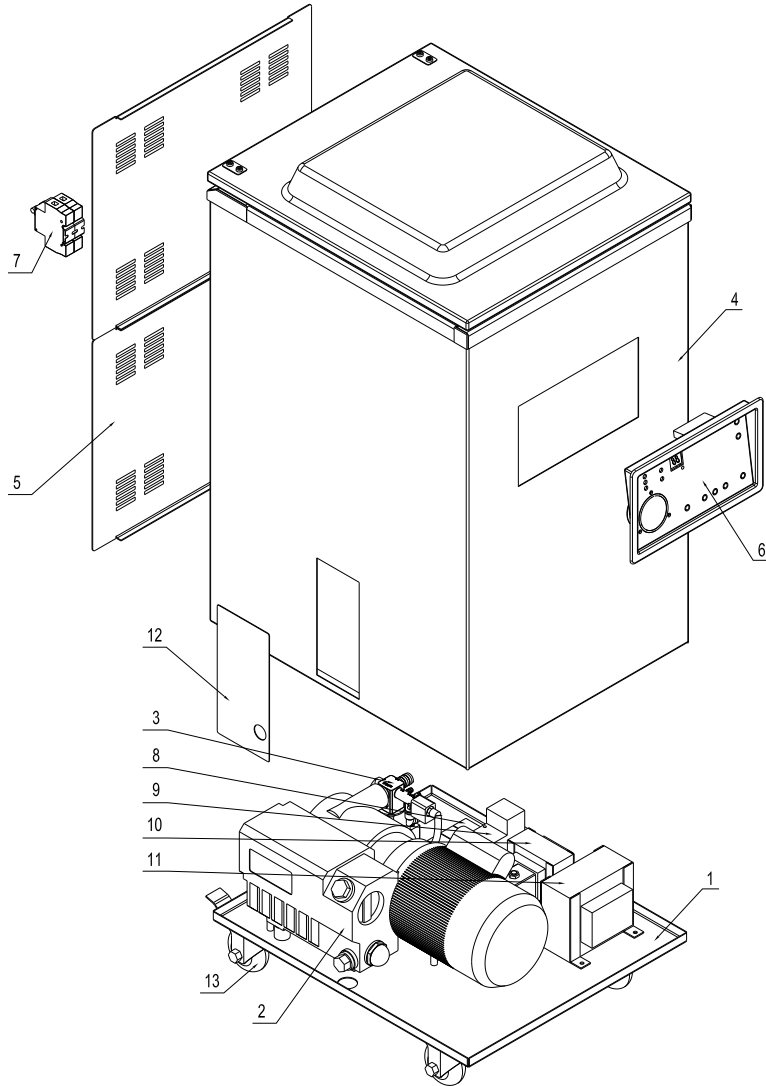
- 1.Stainless steel bottom board 2.Vacuum pump 3.Valve(YV1, YV2)
 4.Filter 5.Outer case 6.Control panel(including plastic frame) 7. Fan
 8.Breaker 9.Relay 10.Working transformer 11. Sealing transformer

Table Top Vacuum Packaging Machine (020 pump):



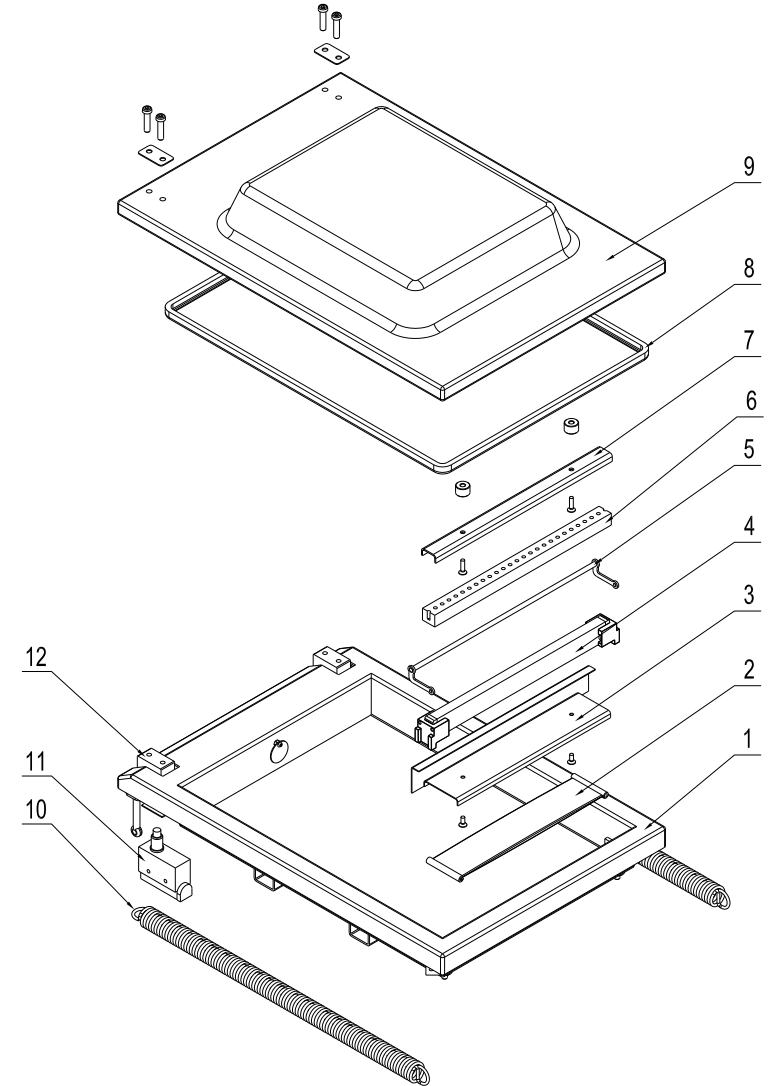
- 1.Stainless steel bottom board 2.Vacuum pump 3.Valve(YV1, YV2)
 4.Outer case 5.Control panel(including plastic frame) 6. Fan 7.Breaker
 8.Relay 9.Contactor 10.Working transformer 11. Sealing transformer

Floor Type Vacuum Packaging Machine:



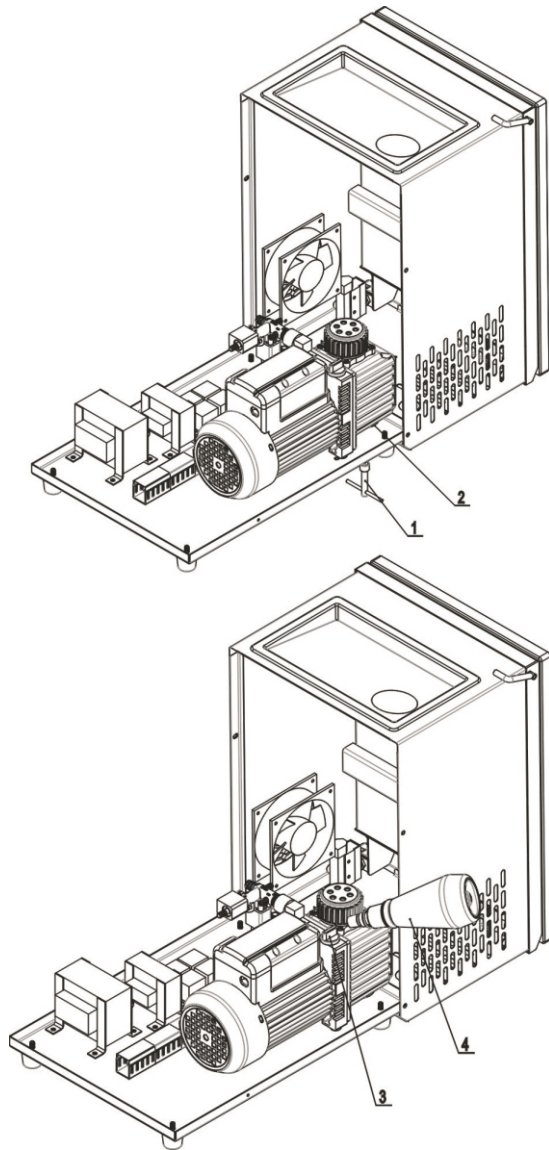
- | | | |
|--------------------------------|-------------------------|--|
| 1.Stainless steel bottom board | 2.Vacuum pump | 3.Valve(YV1, YV2) |
| 4.Outer case | 5.Rear board | 6.Control panel(including plastic frame) |
| 7.Breaker | 8.Relay | 9.Contactor |
| 10.Working transformer | 11. Sealing transformer | 12.Cover board |
| | | 13.Wheels |

Components and Parts Exploded View:



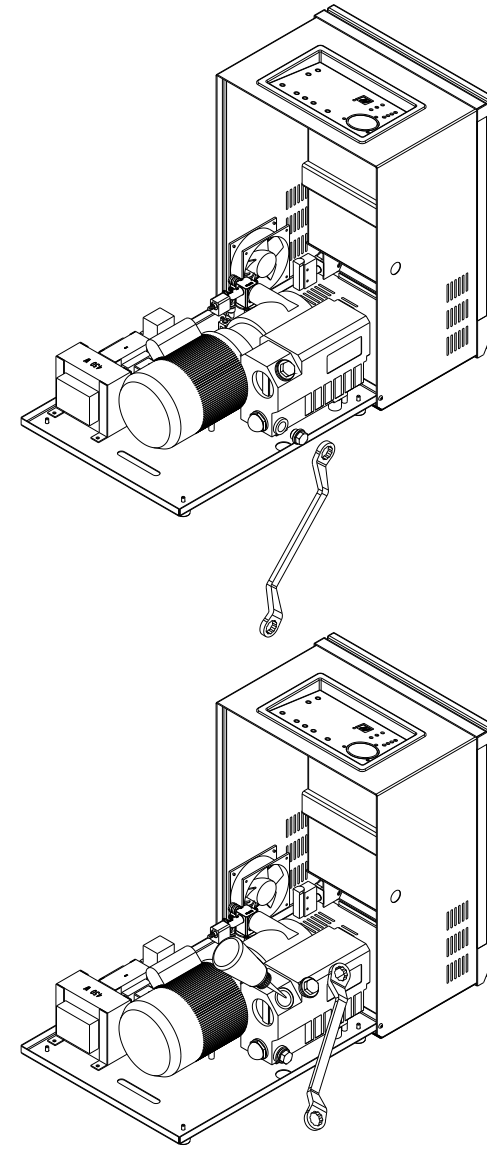
- | | | | |
|------------------|--------------------|--------------------|----------------|
| 1.Vacuum chamber | 2. Gas bag | 3.Gas bag base | 4. Sealing bar |
| 5.Pressing stick | 6.Silicon bar | 7.Silicon bar base | 8.Gasket |
| 9.Acrylic lid | 10. Tension spring | 11.Lid switch | 12. Hinge |

010 Vacuum Pump Oil Filling Sketch:



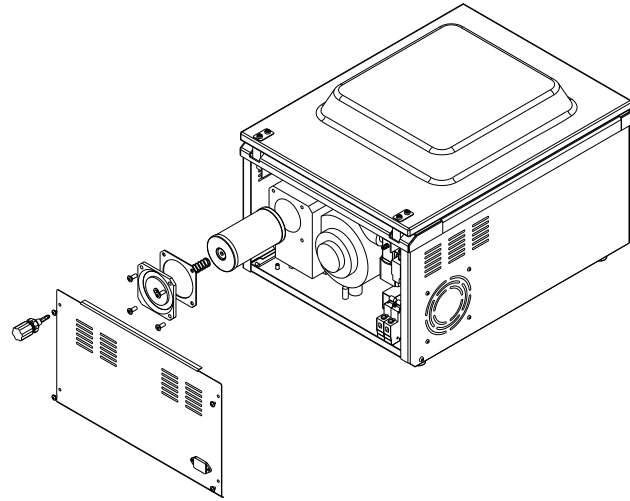
Unpack the rear board, remove the screw under the bottom board and drain the old oil (screw it again after oil drain), remove the screw for oil filling, then fill the oil by oil bottle(screw it again after oil filling).

020 Vacuum Pump Oil Filling Sketch:

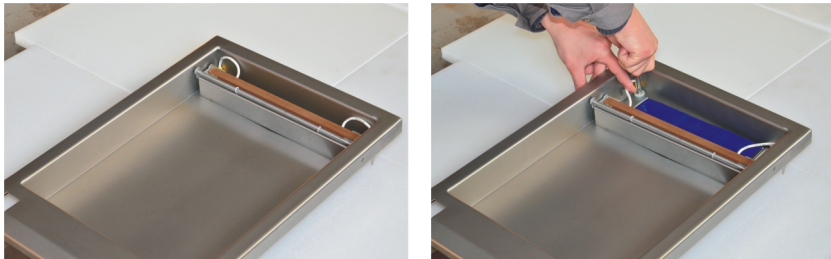


Remove the oil drain screw and drain the old oil (screw it again after oil drain), remove the screw for oil filling, then fill the oil by oil bottle(screw it again after oil filling).

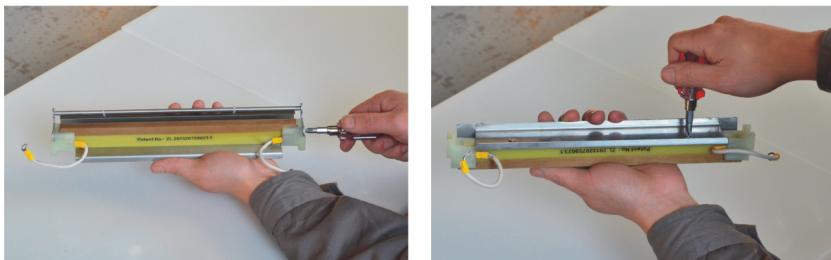
020 Vacuum Pump Filter Replacement Sketch:



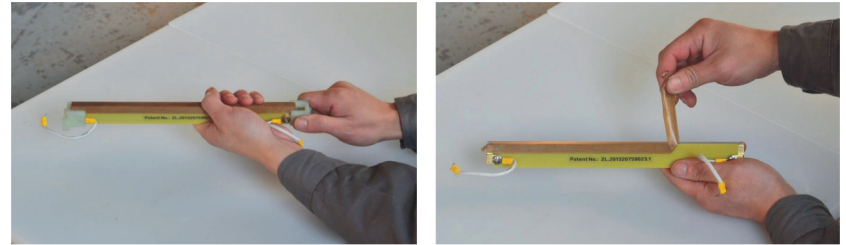
Sealing Tape and Heating Wire Replacement Sketch



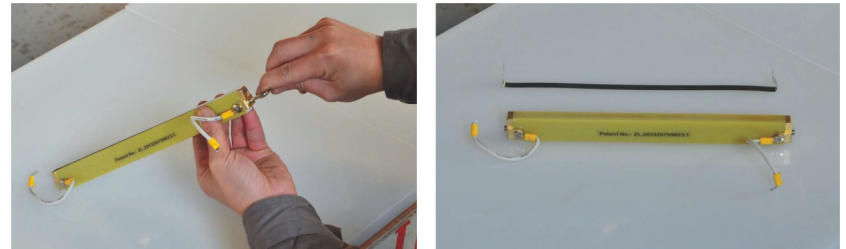
1. Disconnect the cable from the pin, then pick the complete sealing bar up from the vacuum chamber.



2. Remove the pressing stick from the complete sealing bar by cross screwdriver, then remove the stainless steel base(gas bag base).

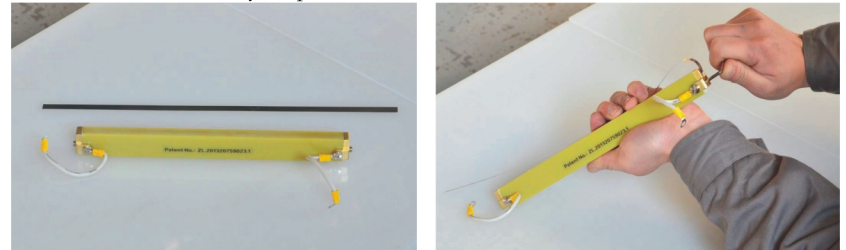


3. Pull the plastic parts out from the two sides of sealing bar by hand, then tear off the sealing tape (high temperature resistant tape coated with Teflon material).

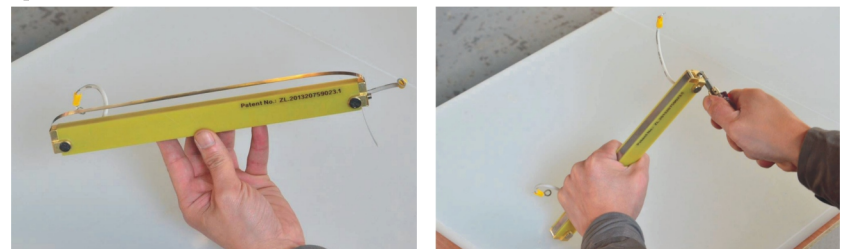


4. Remove the forcing screws from the two sides of sealing bar by Allen key, then take out the heating wire.

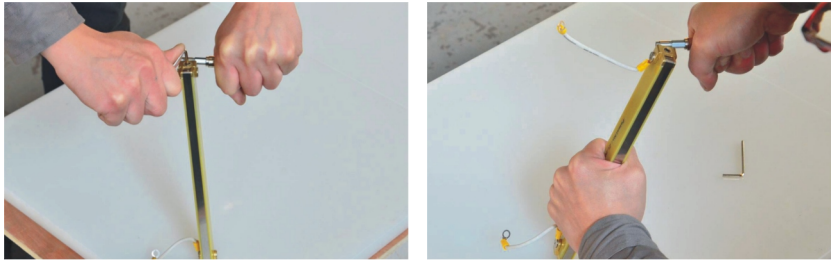
The above disassembly steps are finished, introduce the installation as below.



5. Put one side of a new heating wire into the fastener groove and tighten it by spanner.



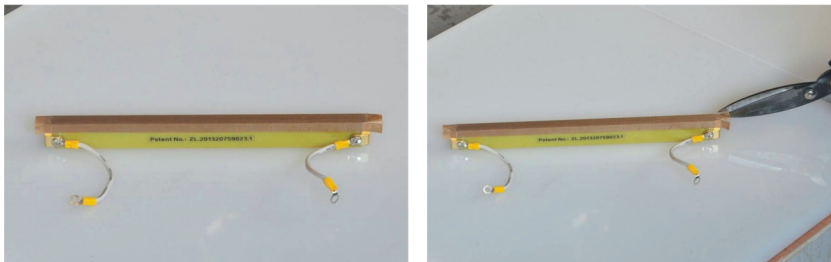
6. Put the other side of heating wire into another side fastener groove, then screw the remaining heating wire by the special tool.



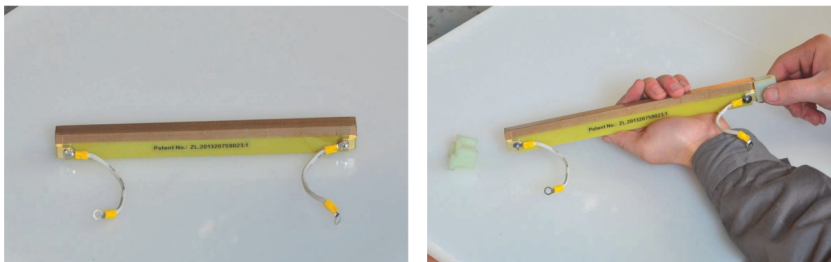
7. Fasten the heating wire by Allen key, then cut the remaining heating wire by the special tool.



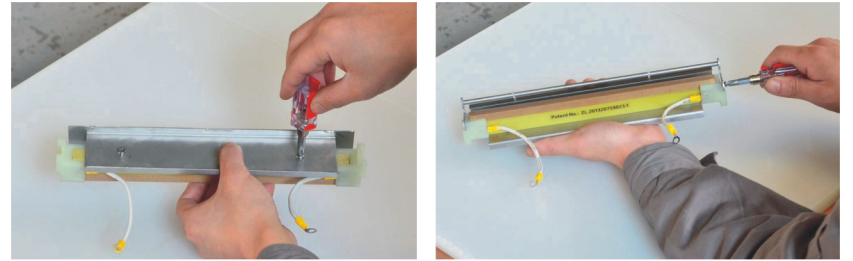
8. Take a sealing tape at proper length and sticker it on the heating wire.



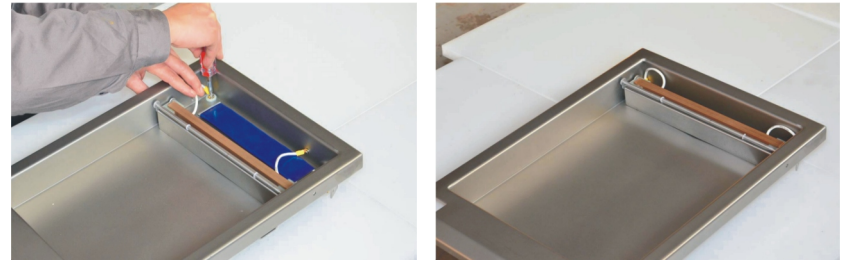
9. Cut the remaining sealing tape on the two sides enable to fold it.



10. Put plastic parts on the two sides of sealing bar.



11. Install the stainless steel base and pressing stick.



12. Connect the cable of complete sealing bar to the pin, then put the sealing bar back to vacuum chamber to finish the installation.

The new heating wire fastener is a patent product was developed by our company, do not copy.

FAQ

- 1.Can this machine seal foil or laminated bags?
Yes, it can.
- 2.How much longer will my product last?
Generally shelf life may be extended three to five times. Results will vary depending on the nature of the product, cleanliness, handling, temperature and among others.
- 3.What type of bag do I need to use?
You need bags capable of offering a full gas barrier. Generally the composition for bag material is PP and Pet. We can supply various sizes of bags, please contact us if you need to buy.
- 4.What are the advantages of vacuum packing my products?
Extend shelf–life.No freezer burn.No loss of volume or product weight due to evaporation.Avoid action by aerobic bacteria.Ease keeping control of inventory.Reduce storage space.Excellent product appearance.Improved product quality perception from clients and consumers.
- 5.How do these machines work?
Turn on the power of machine; set working parameter as vacuum time, sealing time, cooling time, temperature; put the packaging bag into the vacuum chamber, lay the bag mouth on the sealer; close the cover, machine start to work by itself; after a while, the cover open automatically when the working ends; take the bag out, it is ok.
- 6.Can I vacuum pack liquid?
Yes, you can.
- 7.Do you recommend any parts we should keep in stock?
You should keep a few of heating wire and sealing tape, as these parts have a limited life span. The machine come with some consumable parts, you can buy more from us if you need.
- 8.If I vacuum packing my food products, will I still need to refrigerate them?
Yes you need, as vacuum packaging is not a substitute to refrigeration.
- 9.I need something faster than what you are offering here?
We are a specialized manufacturer, can supply various kinds of vacuum packaging machines as well as customized machines. You can visit our website or contact our sale department for more information.

Breakdown Analysis

Vacuum pump and vacuum system:

- 1.Vacuum pump does not act, the possible reasons are as follows:
A:Limit switch is not pressed on, close the machine cover and adjust the limit switch.
B:Limit switch is broken, please replace it.
C:Contactor is broken, please replace it.
D:Pump motor is broken, please replace it.
- 2.Vacuum chamber cannot reach the vacuum degree, the possible reasons are as follows:
A:The vacuum pump is worn or damaged.
B:Loose air pipe joint, broken pip, damaged sealing ring of vacuum chamber or damaged valve causes the entry of air into vacuum chamber.
C:Insufficient oil in vacuum pump.
D:Vacuum time is not enough.
- 3.Cover cannot be opened, the possible reasons are as follows:
A:Air release valve is not turned on.
- 4.Air remains in bag after processing is finished, the possible reasons are as follows:
A:Wrong position resting on sealing bar.
B:Pressing stick press the bag opening side causes the air cannot be sucked.
- 5.Abnormal sound or tripping when running, black smoke or oil drop.
A:Abnormal sound of fan of pump motor, it should be repaired.
B:Blockage may be seen in air intake and/or pip.
C:Insufficient oil of vacuum pump or the use of non–standard oil.
D:Long time running of pump or overheat running under high temperature.
E:Faulty vacuum pump motor or valve of vacuum pump or wear and tear due to usage.

Gas Circuit Schematic Diagram

Breakdown of sealing:

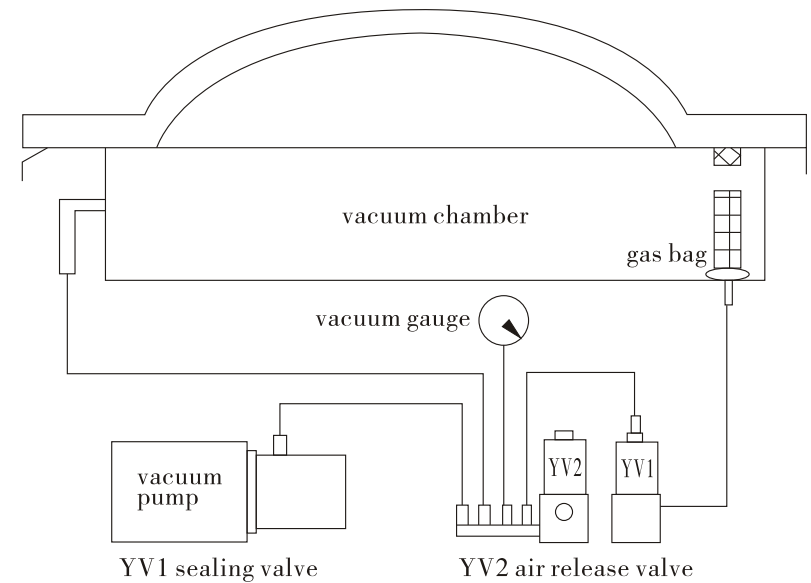
1. Incapable sealing, the possible reasons are as follows:

- A. The temperature is not selected.
- B. The heating wire is damaged or connecting wire is cut off.
- C. The sealing time is at 0?
- D. The relay is damaged.
- E. The sealing valve does not act, gas bag does not inflate.

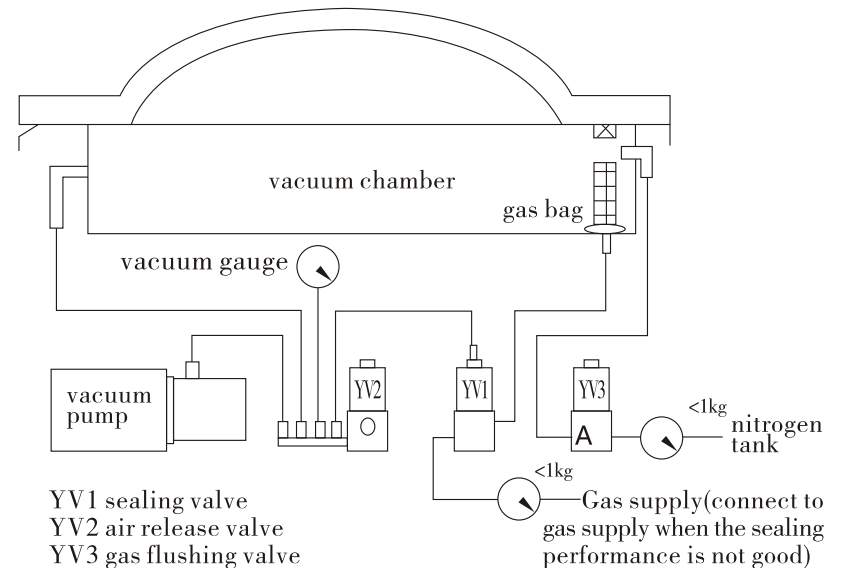
2. Uneven sealing veins, air bubble or not firm sealing, the possible reasons are as follows:

- A. Silicon sealer is unclean.
- B. Sealing time is too short or temperature is too low.
- C. Gas bag inflation is too weak, cannot press bag tightly.
- D. Air bubble shrinks caused by insufficient cooling time.
- E. Sealing tape is damaged and the surface is not flat.

Note: The above breakdown analysis is only for reference. It is different for special model configuration, and here no additional instructions.



Gas Flushing Machine



Electric Circuit Schematic Diagram

There are six electric circuit schematic diagram in this instruction manual, if they don't fit your machine, please contact us.

Picture #1: 010 Vacuum Pump Electric Circuit Schematic Diagram (single phase)

Picture #2: 010 Vacuum Pump (gas flushing) Electric Circuit Schematic Diagram (single phase)

Picture #3: 020 Vacuum Pump Electric Circuit Schematic Diagram (single phase)

Picture #4: 020 Vacuum Pump (gas flushing) Electric Circuit Schematic Diagram (single phase)

Picture #5: Big Vacuum Pump (no smaller than 040) Electric Circuit Schematic Diagram (three phase)

Picture #6: Big Vacuum Pump (no smaller than 040) (gas flushing) Electric Circuit Schematic Diagram (three phase)

Explanation of codes for Electric Circuit Schematic Diagram

QF Power Switch M1 Radiator Fan M2 Pump Motor

YV1 Sealing Valve Yv2 Air Release Valve YV3 Gas Flushing Valve

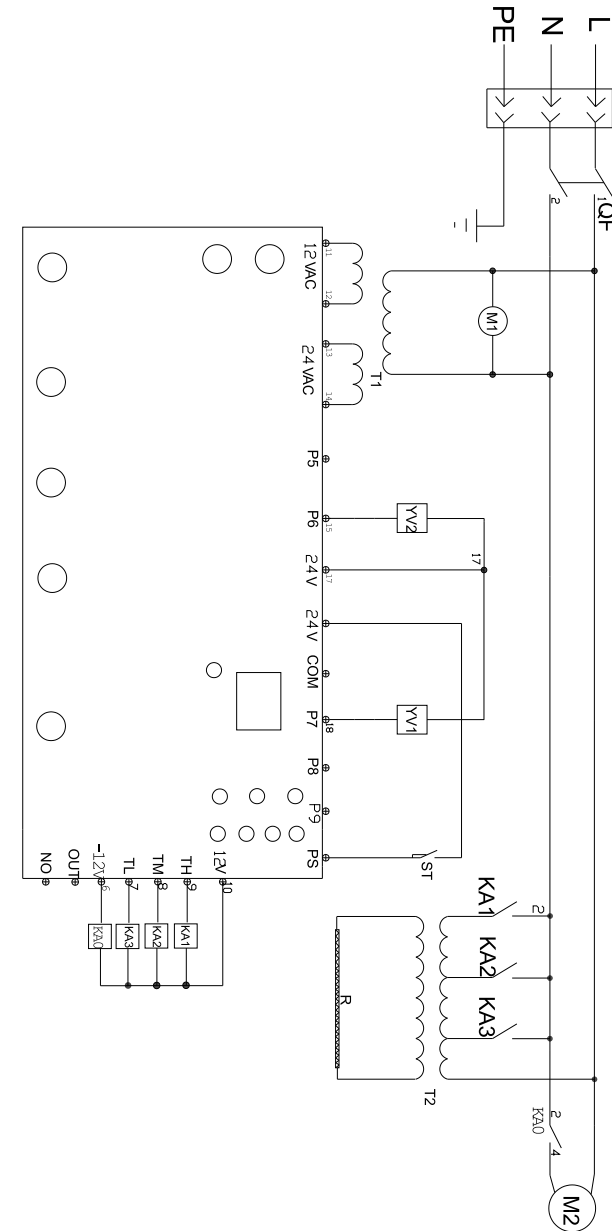
KA0~3 Four-In-One Relay (KA1~3 Three-In-One Relay)

TI Working Transformer T2 Sealing Transformer

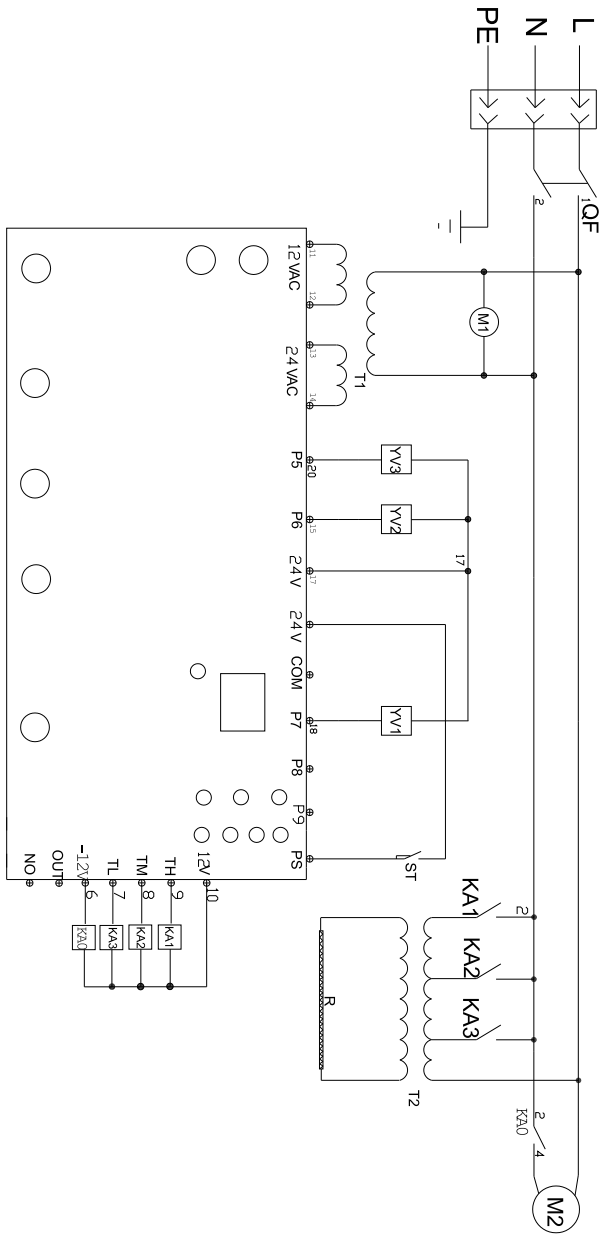
R Heating Wire (R1-2) ST Lid Switch (Travel Switch)

3M Three Phase Pump Motor KM (KM1) Contactor

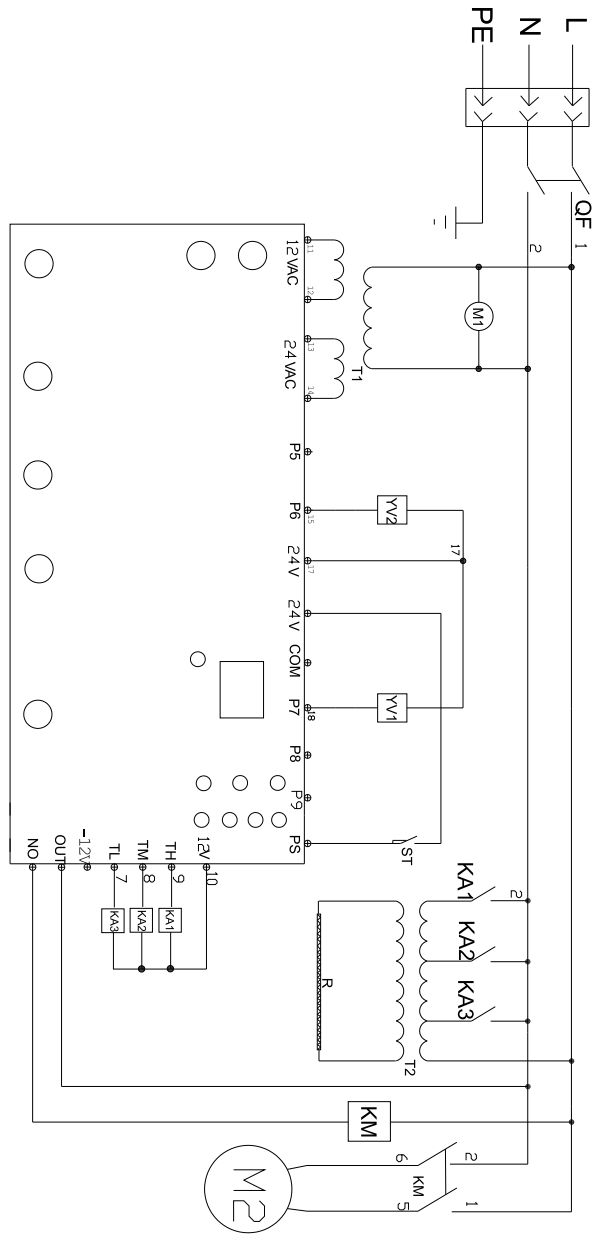
Picture #1:



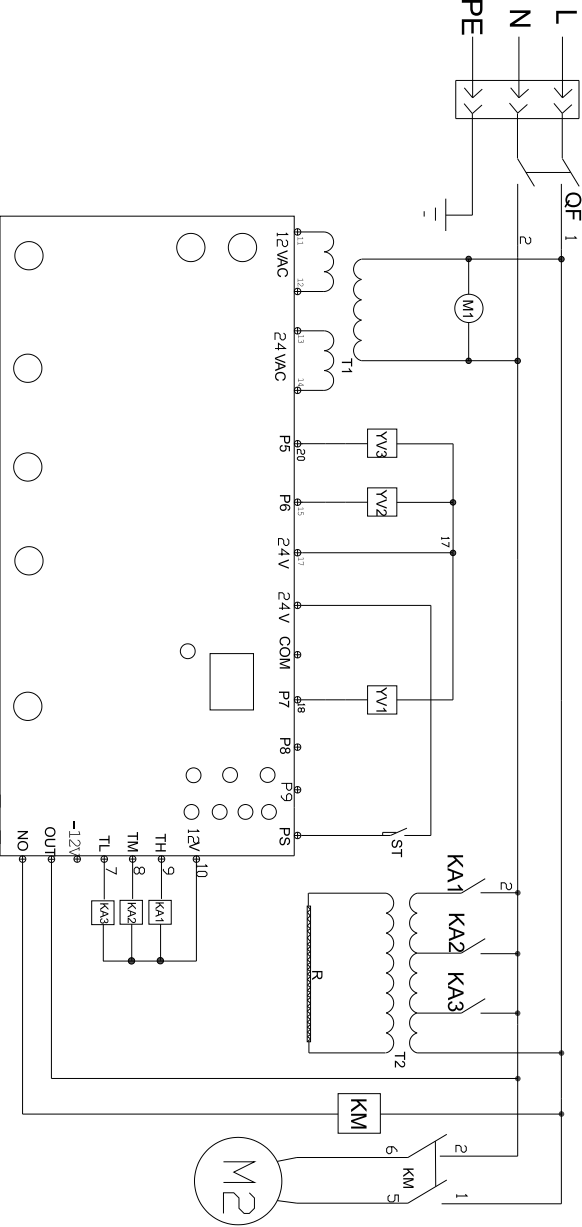
Picture #2:



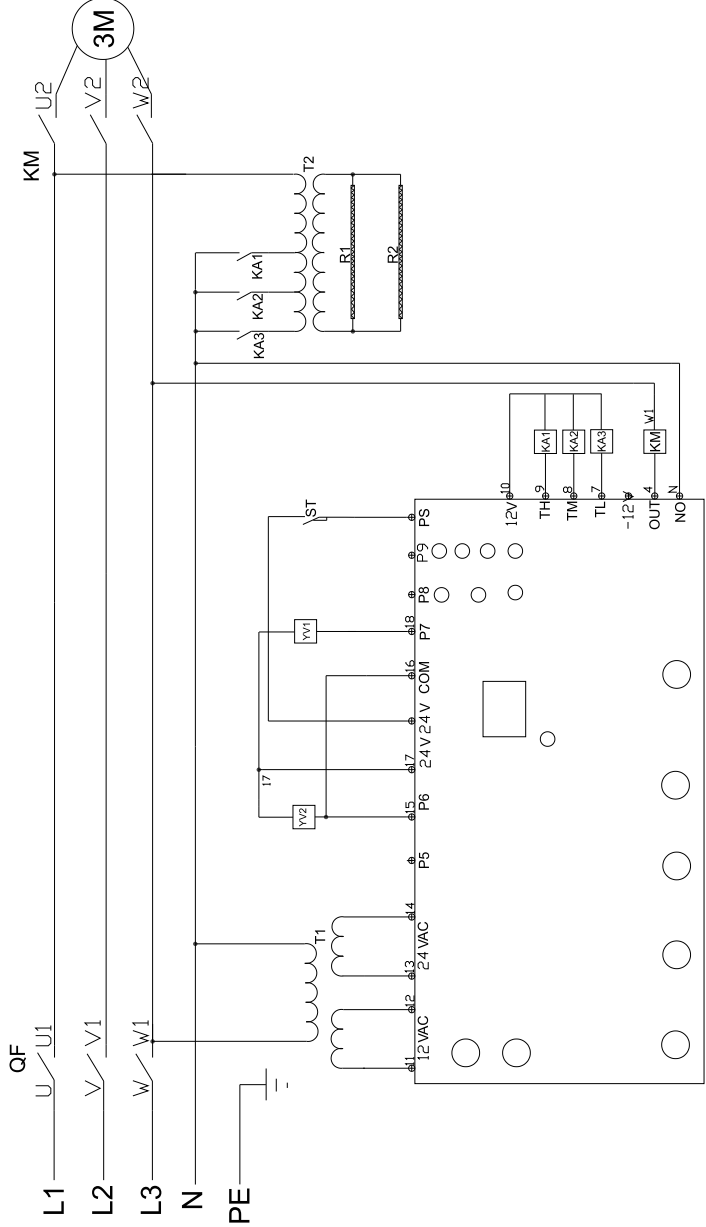
Picture #3:



Picture #4:



Picture #5:



Picture #6:

