



THE BEST

DESKTOP VACUUM FORMER

WE CREATED AN IRREPLACEABLE MACHINE FOR A WIDE GROUP OF
USERS FOR OWNERS OF

3D PRINTER & CNC






STRONG BODY
DESKTOP AND COMPACT THERMOFORM WITH INDUSTRIAL FEATURES.

AUTOMATIC HEATING
AUTOMATICALLY HEATS UP AND PROMPTS YOU TO COMPLETE THE HEATING.

BUILT-IN POWERFUL VACUUM
BUILT-IN SUPER VACUUM PUMP.

PRECISE TEMPERATURE CONTROL
PRECISE TEMPERATURE CONTROL.
CELSIUS FAHRENHEIT CONVERSION.

EASY TO USE
OPEN CARTON BOX, PUT ON DESK, PLUG IN POWER, TURN ON. SO EASY.



USER MANUAL

Vacucu3d Vacuum former: A4 / A3

Thank you for choosing our product.

We hope you will enjoy using this elfin machine.

Vacucu3d former is designed for heat forming of plastic films.

FORMING OF PLASTIC FILMS
VACUCU3D VACUUM FORMER: A4/A3

[www.vacucu3d.com](#)

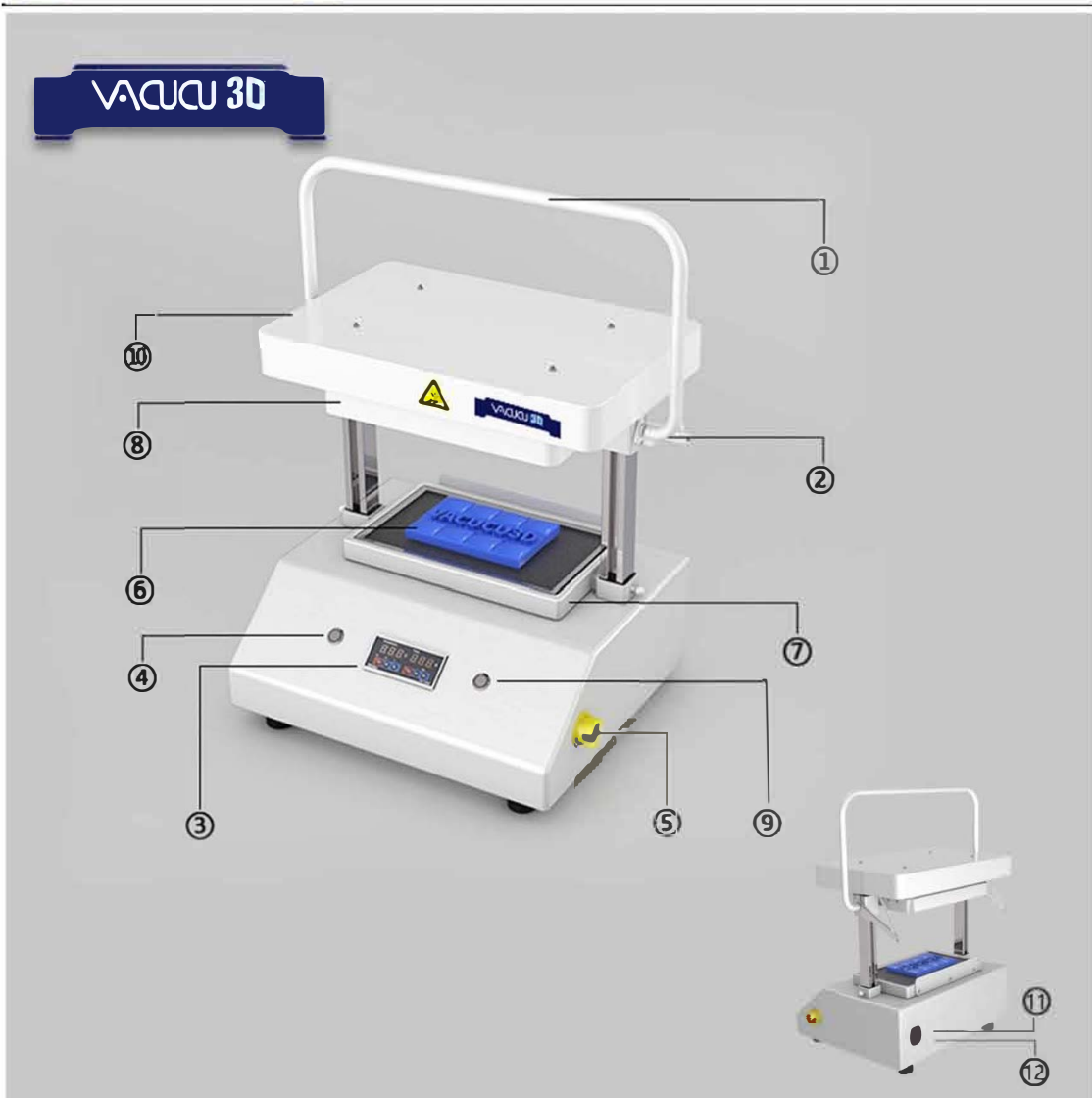
Forming of plastic films
vacucu3d

Vacucu3d Vacuum former: A4/A3

VACUJ 3D

REDACTED

VACUJ 3D



1, handle	2, locking handle
3, controller	4, heating button
5, scram button	6, mold bed
7, underside frame	8, upside frame
9, vacuum pump	10, heater
11, power cord	12, switch

Step 1

Open the package.

The carton box should contain the following:

- Vacucu3d machine
- user manual
- 0.5/0.75mm PEGT start-up films
- start-up model
- power cord

Step 2

Read the Vacucu3d Vacuum former user manual.

Step 3

Place Vacucu3d Vacuum former on a table or desk, Adjust the bottom 4 feet, Make sure the machine is placed on the table smoothly and stably.

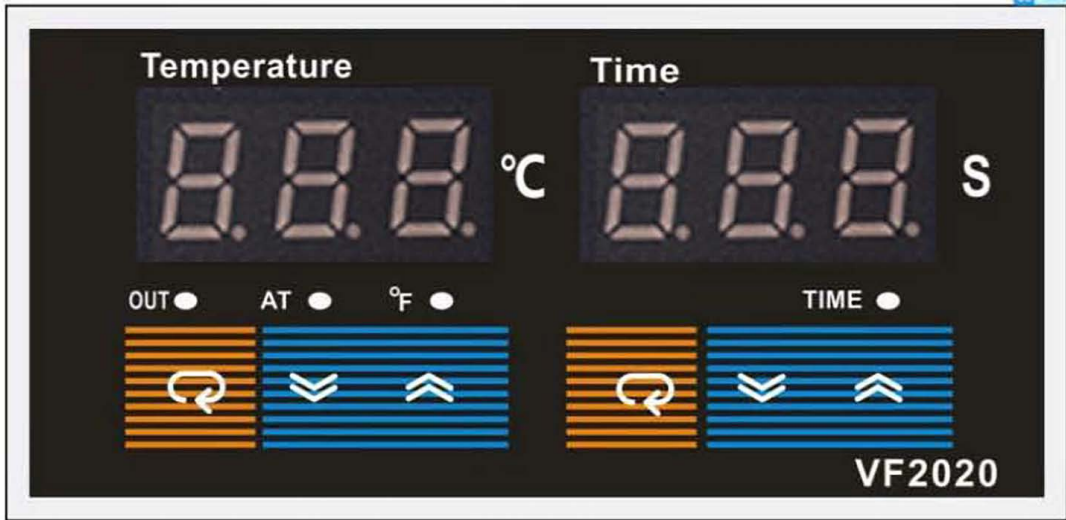
Step 4

Plug in the power cord.

Step 5

Place the switch in "I" position.

Vacucu3d's controller will light up.



Setting Temperature



Press the left part button (one time) on the display Digital display will flicker.



Press, set **temperature.**

Setting time



Press the right part button on the display, Digital display will Flicker.



Press, set **heating time.**



Press the heating button (left one), the button light will turn on. Controller will turn on, Keep heating until turn off. Button light will turn off too.

Step 6

Open the frame by turning both locking levers backward.

Step 7

Lift the frame up using the handle.

Step 8

After removing the protective film, place the 0.5/0.75mm PEGT start-up film on the bottom frame.

Step 9

Use the handle to lower the upper frame and place it on the film.

Step 10

Turn both locking levers forward. The frames will be locked.

Step 11

Lift the frame up using the handle, the clock will start a countdown to completion of the film heating process.

Step 12

Place the start-up model in the middle of the bed.

If the model be covered in spray-on mold separator, or slightly greased with petroleum jelly, it will help your work.

Step 13

The end of the heating process will be indicated by a sound signal. After hearing the signal, Press the right button, the vacuum pump start work. Use the handle to immediately lower the frame.

Make the film forming.

Step 14

Check the forming work finished, turn off the vacuum pump bottom.

Open the frame by turning both locking levers backward.

Lift the frame up using the handle.

Take away your forming work.

Allow the model and film to cool down. Allow the model and film to cool down

Remove the pressed film from the bed, together with the model.

Remove the mold from the pressed film.

Heating temperature 、 heating time 、 Vacuum time has a great relationship with the ambient temperature and material, please carefully observe the state of the material after heating to judge the production time

Precautions and safety measures related to the operation of Vacucu3d



There is a warning symbol on the product: **WARNING** – risk of burns.

In the upper housing of Vacucu3d, there are infrared radiators which emit significant amounts of heat during operation. Be careful. Do not place your hands under the IR radiators. Do not touch the upper housing.

1. When using Vacucu3d, always follow basic safety precautions and

read the user manual.

2. Never leave VACUCU3D on without supervision.
3. Vacucu3d should only be used for its intended purpose.
4. Vacucu3d should be connected to a grounded power source

consistent with the parameters indicated on the nameplate on the back of the housing.

5. Do not attempt any maintenance or repair work that is not described in this manual.

6. Vacucu3d may only be used in ventilated and dry rooms.
7. Do not operate the device with wet hands.
8. The device may only be operated by adults.
9. Be particularly careful when using Vacucu3d near children!
10. If you detect any damage or malfunction, contact your dealer, service

or Vacucu3d manufacturer.

Technical specifications

Type Vacucu3d Vacuum former A4

Power supply 230V/ 120V

Max. Output 2200W/1600W **Max. temperature** 150°C

Film size A4 **Max. Film thickness** 2 mm

Types of film: HIPS, ABS, PE, PETG

Max. Dimensions of a convex model:

- width 155 mm
- length 240 mm
- height 100 mm

Max. Dimensions of a concave model:

- width 170mm
- length 260mm
- height 100 mm

Type Vacucu3d Vacuum former A3

Power supply 230V/ 120V

Max. Output 3200W/1600W Max. temperature 150°C

Film size A3 Max. Film thickness 2 mm

Types of film: HIPS, ABS, PE, PETG

Max. Dimensions of a convex model:

- width 260 mm
- length 380 mm
- height 100 mm

Max. Dimensions of a concave model:

- width 240mm
- length 360mm
- height 100 mm

Internal vacuum turbine.

Digital controller.

Original Vacucu3d controller.

Industrial design structure.

Vacucu3d models

The manufacturer of Vacucu3d offers ready-made models of various pieces adapted for heat forming. The constantly expanded range of models is available on the websites of the manufacturer and distributors.

Models prepared on your own

Vacucu3d models can be prepared from various materials and using various techniques. Currently, the most popular method is ABS 3D printing. Another one is CNC machining. This is an advanced technology that allows you to produce models with high dimensional requirements and complex shapes. Materials suitable for CNC-machined models include polyurethane, aluminum and wood.

For people who want to experiment with shapes and prepare them manually, gypsum, soft wood and concrete will be excellent materials. Spatial molds can be glued together and various materials can be combined. It should

be remembered that the models have to withstand short-term temperatures of the film up to 150°C.

Models can be prepared in two variants:

1. Convex models



2. Concave models



Both have advantages and disadvantages. The decision on the type of mold is made individually and depends on many factors. In order to make good decisions, it is necessary to have some experience working on Vacucu3d as well as to learn about the heat forming technology and the capabilities of the device.

It should be remembered when creating a model not to have any so-called 'negative angles', in order to ensure that it will be possible to remove the pressed piece from the model. Ventilation holes are another very important element of the mold. It is best to drill the mold with a \varnothing 1-2 mm bit at the places where we expect that the extraction of air may be difficult. Usually, the molding of the first pressed piece will show us where the vent holes should be located.

With more complicated models, they can be made in the form of detachable blocks. Such models are complicated, but allow to make negative angles, which in many cases may be to the advantage of the molded shape.

Now watch as the film heats up. When the film has a sag of about 1-2 cm, this means that the film has been heated enough and you can lower the handle. Before you do this, note the temperature reached and how much film heating time has elapsed.

The noted parameters should be entered in the program for the given plastic and film thickness.

However, you must assess the resultant pressed piece.

If wrinkles appear, reduce the temperature. If the film does not reflect the details sufficiently, the temperature or heating time should be increased. In order to select the correct parameters, two or three adjustments must be made in the automatic settings. Describe the film that you have – note the manufacturer, heating time and temperature, so that next time you use this film you do not have to determine its heat forming parameters again.

The manufacturer of Vacucu3d offers the most basic HIPS films. Other films can be purchased at plastics wholesalers.

Each plastic has its own parameters and application. Some of them can be heat formed easily, others pose problems.

Most plastics (this does not apply to HIPS) should be dried for as long as a

few hours before heat forming. Drying removes the water contained in plastics, whose presence in the film cannot be evaluated without special gauges. It is important to know the parameters and requirements for the heat forming process before buying a given material.

Environmental protection

Vacucu3d is built from recyclable materials. Should it be necessary to decommission the device, those materials must be handed over to a collection point for electrical and electronic equipment.



All waste left after consumables used in Vacucu3d is also recyclable. It should be placed in the PLASTICS container.

Warranty

Vacucu3d is covered by a 1-year warranty period with the exception of purchases related to professional or business activity. In this case, Vacucu3d is covered by a 1-year warranty. The only document required for filing a

complaint is the receipt or invoice confirming the purchase of the device.

The warranty expires if the device is operated improperly.

Warranty and post-warranty service

If malfunctioning of Vacucu3d is observed, please contact the Rayming Smart manufacturer's service department, whose contact details are available on our website www.vacucu3d.com or contact the dealer.

Servicing is carried out in an on-line system and in cases requiring direct repair – in a door-to-door system, which involves sending the device to the service department by courier.

The courier is ordered only by the Service department.

Shipping is performed only if it has been agreed with the Service department. At the Customer's request, the device will also be accepted for repair by the dealer. In the case of unjustified complaints during the warranty period, any costs are covered by the Customer.

Vacucu3d maintenance

Vacucu3d is an electrical device. Before cleaning, it is essential to remove the plug from the outlet!

Vacucu3d can be cleaned with a damp cloth with a bit of dishwashing liquid. Do not pour liquid over the bed or any other Vacucu3d components, as this may result in electric shock.