PREMIUM DENTAL PRODUCTS

CAVEX VACUFORMER SYSTEM

CAVEX

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TECHNICAL INFORMATION

Technical specifications

Current:	AC230V/50Hz
Classification:	Class 1
Model:	DV-1
Fuse:	250V/8A
Vacuum current:	1000W
Heating current:	500W
Dimensions:	250 × 180 × 330mm
Nett weight:	6,8 kg

Explanation of symbols

 Hot

 Caution!

 Earth

 CE marking

INTRODUCTION

Dear user,

Thank you very much for purchasing the Cavex VacuFormer. We do hope you will enjoy working with this device!

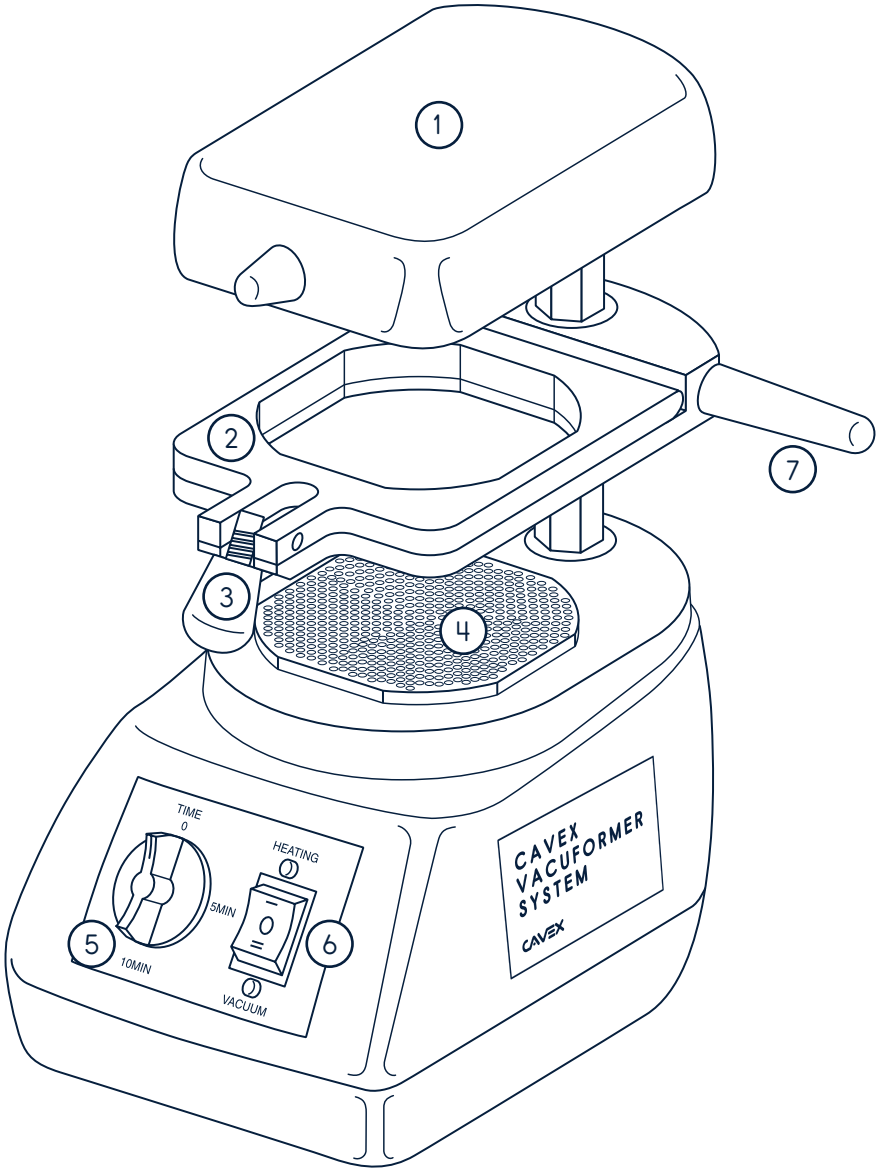
Although the operation of the Cavex VacuFormer is fairly straightforward, we strongly advise that you read these Instructions carefully before using the machine.

In order to familiarise yourself with the different vacuum forming variants (mouth protector, bleaching tray, splint) we recommend that you follow the protocols provided in this document.

Caution! Make sure the Cavex VacuFormer is positioned on a solid surface with sufficient room around it for the heating element to move freely and such that its heat cannot affect other potentially sensitive objects or areas.

COMPONENTS

1. Heating element
2. Frame for vacuum forming plate
3. Rotary button to open/close the frame
4. Vacuum plate with vacuum pump beneath
5. Timer rotary button
6. Selection switch for heater and vacuum pump*
7. Control frame handles (up/down)



(*) The position 'Heating' (–) is always combined with the timer; this switches on the heating element.
The position 'Vacuum' (=) engages the vacuum pump; this switches off the heating element.

INSTRUCTIONS FOR USE

1. Rotate the heating element to the rear (Fig. 1).

2. Slide the frame upwards (Fig. 2).

3. Open the frame, position the appropriate vacuum-forming plate and carefully close the frame (Fig. 3).

4. Place the dental arch model* on the vacuum plate (Fig. 4).

5. Rotate the heating element to the front and switch it on by setting the timer for approx. 5 minutes** (Fig. 5).

6. Heat until the plate sags by 1.5 to 2 centimetres (Fig. 6).

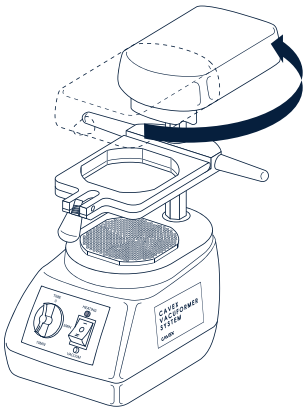


Fig. 1

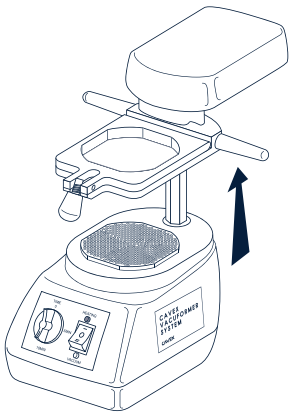


Fig. 2

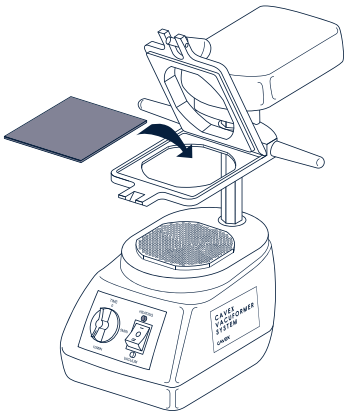


Fig. 3

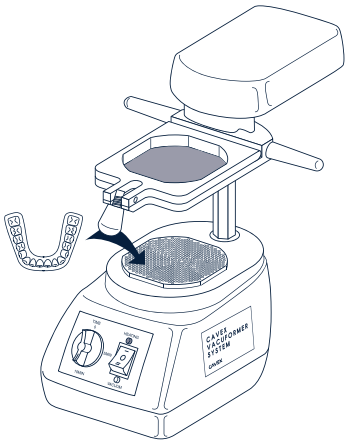


Fig. 4

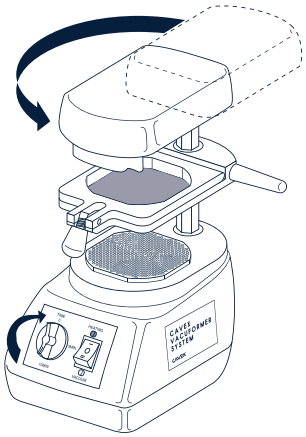


Fig. 5

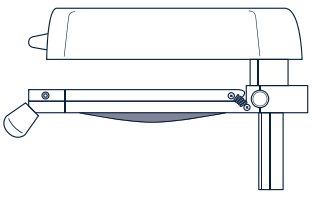


Fig. 6

* Caution! Make sure that only the dental arch is cast, i.e. without a foot/pedestal. If the model is too tall, the resulting piece may be too thin from an incisal aspect, which may result in the risk of fracture.

** Caution! The heating element only switches on when the timer has been set!

7. Switch on the vacuum pump (via 0 to =). Using both hands, gently move the frame downwards so that the plate will drape over the model. Turn the heating element to the rear (fig. 7). Let the vacuum pump run for 1 minute. Wait until the plate has cooled completely before removing it from the device.

8. Open the frame and take out the vacuum-formed plate, together with the model (fig. 8). Using large scissors, cut the plate from around the gypsum model. Gently detach the plate from the gypsum model, taking care not to distort it.

9. Trim the edges to the required shape and, if necessary, smooth them using a small finishing disc in the micro motor at a low rpm.

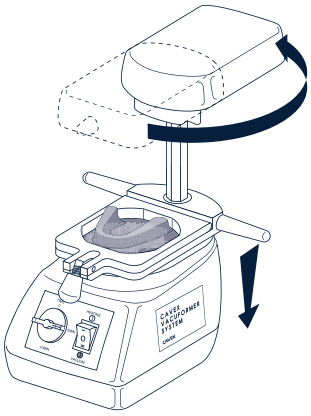


Fig. 7

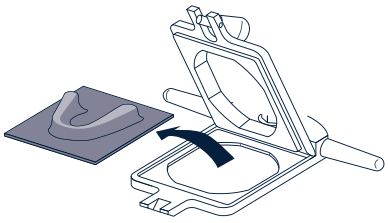


Fig. 8

Caution!
- Use only earthed electrical sockets.
- Only use the device indoors.
- The Cavex VacuFormer includes a ‘maximum safety’ feature. This will engage and switch the heater off automatically if it has been in operation for too long. Once the device has cooled down (approx. 15 to 30 min.) the safety function will disengage and the Cavex VacuFormer can be operated once more.
- Do not leave the heating element above the handles; this will prevent them from becoming too hot to touch.

ADDITIONAL INSTRUCTIONS FOR USE

Splint & Bruxism
Splint+ (1.0 mm), Splint X-Heavy (1.5 mm) and Bruxism (2.0 mm)
One side of the plates is covered with a blue film containing a moisture-repellent layer. A small amount of paraffin oil has also been added to the plate to make it less susceptible to moisture. In the event of intense heating, this paraffin oil may start to smoke slightly. This is not harmful.

Mouth Protector
For the manufacture of transparent mouth protectors for various sports.

Mouth Protector Clear. Thickness 3.8 mm, built up from 2 layers
Suitable for younger children and less robust sports.

Mouth Protector X-Pro Clear. Thickness 5.0 mm, built up from 3 layers
Suitable for teenagers/adults and more robust sports.

Bleach trays
Intended for use as bleach-tray plates for the whitening of teeth with a home whitening system. There is choice of soft plates with a thickness of 1.0 or 1.5mm. The 1.5mm plate is somewhat sturdier and can be used for longer.

FREQUENTLY ASKED QUESTIONS / ISSUES

1. Tearing and/or overstretching of the vacuum forming plate

Cause
This may happen if the plate has become too hot, causing excessive sagging. The plate is intended to sag by a maximum of 1.5 to 2 centimetres during heating.

Solution
Ensure proper and uniform heating of the plate, and ensure that the heating element is rotated to the rear in time.

2. The plate becomes quite thin at the incisal edges

Cause
This can happen as a result of the gypsum model being too tall. It may also occur when a gypsum model is not positioned centrally.

Solution
Trim the gypsum model down to a height of 2.5 centimetres as a maximum.
Make sure that the anterior part is oriented more towards the centre.
If necessary, place a rubber ring (included in the delivery) on the perforated plate and position the model right in the centre.

3. Insufficient rendering of detail

Cause
This is often the result of insufficient heating or too short a vacuum time.

Solution
Allow for sufficient vacuum time (approx. 30 to 60 seconds).

4. The plate is stuck in the vacuum holes

Cause
The plate has become so soft due to extended heating that it has been sucked into the holes during the vacuum process.

Solution
Avoid overly-long heating.
Carefully try to prise the plate from the holes.

MAINTENANCE AND PROBLEM SOLVING

Caution! NEVER clean the Cavex VacuFormer with organic solvents.

AFTER SALES SERVICE

The Cavex VacuFormer is covered by a warranty for one year from the time of purchase. This does not cover any damage caused as a result of use by non-qualified persons.

PROBLEM SOLVING

In the event that the Cavex VacuFormer ceases to function, or no longer functions appropriately, you can take one of the actions specified below. If these fail to solve the problem, please contact your dealer.

Problem	Cause	Solution
No power when the device is switched on.	Power cord not fitted properly at socket.	Inspect the power supply.
	Broken fuse.	Check the fuse.
Heating element does not function after the main switch has been engaged.	Timer not switched on.	Start the timer by turning the knob.
	Maximum safety feature has been engaged due to overly long use of the VacuFormer.	Wait until the heating element has cooled down and try again.
	Faulty power supply.	Dispatch device for repair.
DVacuum motor fails to function after the switch has been engaged.	Maximum safety overheating protection has been engaged.	Wait until the heating element has cooled down and try again.
	Faulty vacuum motor.	Dispatch device for repair.
The frame will not move up and down freely.	The frame may have become either too tight or too loose due to frequent use.	Using the Allen key (supplied with the device), loosen or tighten the frame as appropriate at the rear.
	The vertical shaft requires lubrication.	Clean the vertical shaft and apply a lubricant, such as Vaseline.

YOUR IMPRESSION IS OUR SPECIALTY

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