



USER MANUAL

Honey clarification container 230L user manual

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Version 1.



These operating instructions are in English, the original is in Estonian





CONTENTS

1 Safety instructions and warnings.....	3
1.1 Technical safety.....	4
1.2 Notes	4
2 Introduction	5
2.1 Concept and purpose of the manual	7
2.2 Overview of the work process.....	7
3 First deployment and work process	8
4 Operating instructions for the temperature controller ESM-3711 HN	9
5 Technical specifications	12
6 Transporting the device	13
7 Maintenance and cleaning of the device	14
8 Safety precautions	14
8.1 Safety symbols.....	15
9. WARRANTY	16
9.1 DURATION AND START OF THE WARRANTY	16
9.2 WARRANTY INCLUDES.....	16
9.3 CARRYING OUT WARRANTY WORK.....	17
9.4 LIABILITY AND LIMITATIONS OF THE WARRANTY	17
9.5 WARRANTY DOES NOT COVER DEFECTS CAUSED BY:.....	18
9.6 MINOR FAULTS, ADJUSTMENTS, OPERATING INSTRUCTIONS AND EQUIPMENT ACCESSORIES.....	19
9.7 ACTION TO BE TAKEN IN THE EVENT OF AN ERROR.....	20
9.8 DATA PROTECTION	20

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1 Safety instructions and warnings

Read the instruction manual carefully before using honey clarification container.

It contains important information on the use, safety, cleaning and maintenance of the honey clarification container.

This protects the device and ensures your safety.

Keep this manual for future reference.

Electrical safety is only ensured if honey clarification container is connected to a grounded mains supply in accordance with the instructions and fitted with a fault current circuit breaker.

The mains to which the honey clarification container is connected must be installed by competent persons and comply with all legal requirements and regulations.

The manufacturer and the distributor shall not be liable for any damage caused by incorrect connection and/or installation of the appliance or by the use of incorrect fuses.

The honey clarification container meets the specified safety requirements.

Improper use may damage the honey clarification container and endanger the user.

In the event of a fault or malfunction, stop operation, disconnect the appliance from the mains and only then determine the cause of the fault.

In the event of a serious product defect, please contact the manufacturer.

It is forbidden to use the device without reading the instruction manual first.

Only persons authorised by Asten Honey Production & Technology may carry out repairs and maintenance on the equipment.





1.1 Technical safety

Before installation, make sure there is no visible damage to the honey clarification container.

Do not install and put into service the damaged honey clarification container.

Do not install in a room where there is a risk of freezing.

Temperature fluctuations can have a negative impact on electronics.

Possible accessories and equipment may only be used with the machine if approved in writing by the manufacturer.

If non-authorised parts are fitted to and/or on the machine, the warranty will be invalidated.

Use only the spare parts provided or recommended by the manufacturer to avoid damage to the honey clarification container and the associated risks.

Welding work on the honey clarification container is only permitted after disconnection of the mains supply. The controller must be disconnected from the honey clarification container.

The honey clarification container must NOT be lifted from the tap!

1.2 Notes

Asteni Mesindus OÜ has the right to modify the constructions and the firmware of honey clarification container 230l.

This manual is the translated version of the original manual for honey clarification container 230l.





2 Introduction

Thank you for purchasing honey clarification container 230L.

To make the best use of the honey clarification container, please first read the user manual carefully. Keep this manual for future reference.

The clarification container is fully automatic and heated.

The instructions for use state:

- Brief description of the device and its components
- Instructions for starting work with the equipment
- Safety precautions

Dimensions of the device:

- Height of container 1000mm
- Width of container 630mm
- Heights of elevation frame 400 or 600mm





USER MANUAL





2.1 Concept and purpose of the manual

The clarification container 230L is made for the beekeeper to melt the honey before packing and to clarify the honey after spinning. The product is not intended for any other purpose. The clarification container is with the thermal controller ESM-3711-HN, which can be controlled from the panel on top of the clarification container.

The aim of the user manual is to make the user of the product aware of the functionalities and capabilities of the HE48 honey extractor.

The product comes with: clarification container 230L, user and safety manual, ESM-3711-HN thermal controller manual in English.

2.2 Overview of the work process

Please be sure to read the product's instruction manual before using the product. Tidy up the work area, make sure it is safe to start work and that the appliance is not used by someone who has not read the operating instructions.





3 First deployment and work process

The device must be properly installed and connected before using the honey clarification container. The clarification container must be arranged in such a way that there is free space around the device for working.

The premises where the honey clarification container is installed must comply with the applicable safety rules and requirements.

It is also recommended to wash the inside of the product with warm water or, if necessary, with detergents approved by the food industry.

Plug in the power supply to start work (**230V**)

Depending on the size, the capacity of a honey clarification container is either: **120 litres** or **230 litres**.

When clarifying the honey after spinning, we pump or pour the honey from the extractor (contains wax crumbs) into the clarifying container and adjust the temperature **+30C`**.

The next day, we skim off the wax and filter the honey through the bottom tap into preserving containers.

In the process of melting the honey, we thaw the honey in the preserving containers to a level that allows us to pump/pour the honey into the honey mixer. We adjust the temperature to **40-45C**. Depending on the nature and state of the honey, we achieve a uniform melting level in approx. **24H**. We then adjust the temperature below (normal temperature approx. **28C**).

Temperature regulation is done by means of a temperature sensor and a regulator. The temperature sensor is located in the lower third of the barrel.

If there is 1/3 or less of honey in the honey clarification dish, there is a risk of overheating the honey as the temperature sensor does not fix the exact temperature.





4 Operating instructions for the temperature controller ESM-3711 HN

Definitions of buttons:

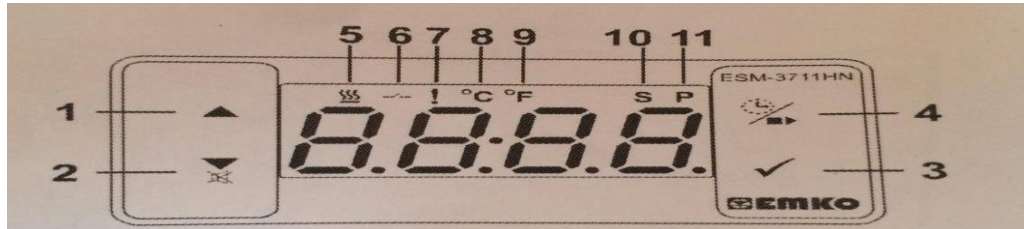


Figure 2. Illustrative photo of temperature controller buttons

- 1 Increase value button. This button is used to increase the value of the preset value.
 - 2 Decrease value button. This button is used to decrease the value.
 - 3 Change value button. Pressing this button will display the parameter change mode. Once the parameters have been changed, it will be necessary to press this button again to save the set parameters. Press and hold this button for 5 seconds to enter programming mode. Attention! In programming mode, there is a very high risk of confusing the settings and therefore disturbing the regular operation of the temperature controller. Use the programming mode only if you have fully understood the operation of the temperature controller and are able to change the settings!
 - 4 Heating button.
- LED definitions:
- 5 Heating LED. Indicates that heating mode is on.
 - 6 Output LED.
 - 7 Alarm LED
 - 8 Celcius LED. Indicates that the device is operating in C mode.
 - 9 Fahrenheit LED. Indicates that the device is operating in F mode.
 - 10 Change mode. Indicates that the device is in parameter change mode.
 - 11 Program LED. Flashes when the device is in programming mode.



When the temperature controller is not on, no lights are on or flashing:



Figure 3. Temperature controller switched off

When the controller is switched on, numbers appear on the screen showing the currently reached temperature:



Figure 4. Temperature controller switched on

From the picture we can see that the current temperature is 27 degrees, and to see what our set temperature is for the controller to reach, or if we want to change the existing parameters, we click on the tick in the bottom right corner. The set parameters will then appear on the screen (usually set by the manufacturer to 40C` in the factory settings), and next to the C symbol on the top bar of the screen will appear the letter S, which stands for the word "Set", indicating that the unit is in parameter change mode:



Figure 5.

Parameter change mode, also indicated by the "S" on the top bar.

From the figure, we can conclude that the currently set temperature/parameter is 40C`.

To increase the parameters, press the upper arrow (top left corner of the Temp.

Controller) and to decrease the parameters, press the lower arrow (bottom left corner).

Press the tick again to confirm the changes.

Once you have set the parameters and clicked the tick again, the current temperature will reappear on the screen. If you want to make sure that the parameters you have set are still correct, press the tick again and the display will return to the parameter change mode.

If you have any questions or problems, please contact the manufacturer – Asteni Mesindus OÜ / +372 525 1236 / info@asten.ee





5 Technical specifications

- Power supply 230V*
- Power cable length 3m
- 1 ¼" stainless steel ball valve
- Heating up to 55C`
- Heater power 520W
- Total unit power 520W
- Dish made of stainless steel AISI304 thickness 0.8mm
- Dish insulated
- Dish height 1000mm
- Diameter 630mm
- Dish height on frame 1400 or 1600mm depending on support frame height
- Height of the ball valve above ground 400mm / 600mm
- Weight 35kg
- Temp. Controller: ESM-3711 HN
- Temp. probe PT100





6 Transporting the device

Do not transport hot, working device. Allow the device to cool down beforehand.

Disconnect the power cord from the mains. Do not transport an appliance filled with honey, first empty the appliance of honey.

If the device is to be transported over long distances, it must be secured by safety straps. Avoid contact of the straps with electrical shields, as this may cause damage to electrical systems.

The device must not be transported in a sideways position. The device must stand on the bottom. The support legs must be removed to ensure the stability of the appliance.

DO NOT lift the appliance from the tap!





7 Maintenance and cleaning of the device

Be sure to disconnect the device from the mains power supply before servicing!

It is also advisable to wash the inside of the product with warm water or, if necessary, with detergents approved for use in the food industry before use, as dust or other dirt may be present in the appliance container. Care should be taken to ensure that moisture does not get into the electrical components – control panel on the side of the clarification container.

General washing of the appliance can be carried out as required.

8 Safety precautions

Before using the product, carefully read the safety precautions below to ensure correct and safe use of the product and to prevent damage and injury to you or others.

It is the responsibility of the person in charge of the equipment to ensure that all users understand and comply with this manual.

To ensure that users of the product can consult the instructions quickly, keep the instructions close to the product.

Use the product only in the place where it is intended. Indoors, at a stable temperature and level surface.

Place the device in a safe place where there is no risk of tipping over and safe access to the device.

Use clarification containers only for storing and heating honey.

Only honey or warm water for washing the product may be added to the clarification container.

In the event of a fault or malfunction, stop operation, disconnect the appliance from the mains and only then determine the cause of the fault.

In the event of a serious product defect, please contact the manufacturer.

It is forbidden to use the product without first reading the instruction manual.

Producer responsibility:

It is the responsibility of Asteni Mesindus OÜ to ensure that the honey clarification container 230L is completely safe when used correctly and that it is accompanied by instructions for use and safety.



8.1 Safety symbols



Electrical risk / electrical components

Electrical risk / electrical components – sign refers to the control panel and the engine which contains a considerable amount of electronics. Any dismantling/assembly of the control unit/motor while the unit is connected to the mains is strictly prohibited!

The guide plate is not waterproof, so pay strict attention that the plate is not exposed to moisture or direct water!



9. WARRANTY

Asteni Mesindus OÜ warrants the equipment it manufactures and sells against possible defects in construction, workmanship and mechanical defects. After the expiry of the warranty period, no reference to a defect during the warranty period shall be valid unless made in writing.

9.1 DURATION AND START OF THE WARRANTY

The guarantee is given for the following period;

Electronics inside the control panel (frequency converters, contactors, temperature controllers) - 2 years (24 months)

Motors and reducers on the device – 2 years (24 months)

Device construction details and welds - 5 years (60 months)

The guarantee starts from the moment the goods are handed over to the customer and the instrument of delivery and receipt is signed.

Warranty applies to the first buyer/user of the equipment sold.

The customer ordering the warranty repair must prove the validity of the warranty period of the appliance (by means of an acceptance report or the serial number on the CE marking)

9.2 WARRANTY INCLUDES

The warranty covers the costs incurred during the warranty period for the repair of structural, manufacturing and mechanical defects in the equipment identified by Asteni Mesindus OÜ.

The aforementioned faults will be corrected by a person authorised by Asteni Mesindus OÜ or by an authorised maintenance company by putting the equipment back into working order.

Parts and components replaced under warranty are the property of Asteni Mesindus OÜ and are subject to return.





9.3 CARRYING OUT WARRANTY WORK

The fixed equipment is repaired at the customer's premises on working days at. 8.00 - 16.30. If the customer requests the warranty repair to be carried out outside normal working hours, the customer shall reimburse the additional costs incurred.

In the case of equipment expertise, easily transportable and easily disconnectable equipment must be delivered by the Buyer at his own expense to the Asteni Mesindus OÜ factory (e.g. containers and wheeled equipment).

In the case of larger and more technically complex equipment, the transport and disconnection of the equipment must be agreed in writing in advance with Asteni Mesindus OÜ (e.g. line parts and sealing machines).

When the technician arrives on site, free access to the equipment must be prepared for the technician.

Repaired equipment is collected by the customer or returned to the customer at the customer's expense.

9.4 LIABILITY AND LIMITATIONS OF THE WARRANTY

This warranty is valid provided that the equipment has been used under normal conditions and that the instructions for use have been carefully followed. If the above conditions are fulfilled, Asteni Mesindus OÜ is responsible.

The warranty does not cover losses that may be caused by a defect in the equipment, including damage to property, personal injury, damage to other objects, loss of profit, damaged output and other consequential losses.

Warranty repair does not include routine maintenance of the equipment and does not reimburse the costs arising from non-compliance with the instructions for use and maintenance of the equipment.





9.5 WARRANTY DOES NOT COVER DEFECTS CAUSED BY:

Incorrect transportation, improper lifting or moving of the equipment and failure to comply with the installation instructions for the equipment (unless carried out by persons authorised by Asteni Mesindus OÜ).

Due to the user's negligence or non-compliance with the instructions or handling conditions.

Overloading of the equipment.

Use of the equipment for purposes other than those for which it is intended.

Insertion of unsuitable frames into the equipment.

Conditions independent of Asteni Mesindus OÜ:

- $\pm 5\%$ of voltage fluctuations, at 230V
- Lightning strikes
- Fire
- Flooding
- Vandalism
- Incorrect connections between the appliance and the power cable
- Defective fuses
- Excessively long and inadequate extension leads
- High water hardness
- Damage caused by repairs, maintenance or structural modifications to the equipment carried out by unauthorised maintenance companies.
- Improper installation or placement of the equipment at the place of use, not in accordance with the instructions for installation and use or otherwise incorrect.
- Improper storage conditions of equipment by the user (excessive humidity and negative temperature in the storage room)





9.6 MINOR FAULTS, ADJUSTMENTS, OPERATING INSTRUCTIONS AND EQUIPMENT ACCESSORIES

Warranty does not cover:

Repairing surface scratches that are insignificant to the operation of the device,

Adjustments mentioned in the normal instructions for use of the equipment, on-site instruction, cleaning and maintenance measures.

Work resulting from the non-observance of, or failure to explain, precautionary or installation rules at the place of installation.

Parts that are likely to break as a result of use or normal wear and tear are not covered by the normal warranty:

- warning lights
- switches
- moving plastic parts
- heating elements
- seals
- clamps
- springs
- hose fittings
- bearings
- bearing supports
- hoses
- plastic lids





9.7 ACTION TO BE TAKEN IN THE EVENT OF AN ERROR

In the event of a defect occurring during the warranty period, the customer must immediately notify Asteni Mesindus OÜ IN WRITING.

When reporting a fault, you must specify the type of equipment (make, model). Proof of the validity of the guarantee (acceptance of delivery, model code on the CE marking) must be provided.

Describe, as precisely as possible, the nature of the error and the conditions in which and/or under which it occurs.

For its part, Asteni Mesindus OÜ will clarify whether the device and the described defect are covered by the warranty and will provide the customer with feedback on the repair method and time within 2 (two) working days.

9.8 DATA PROTECTION

Personal data will be used only for the purposes of contractual procedures and possible warranty operations in accordance with the requirements of the Data Protection Act of the Republic of Estonia.

