

# User Manual

## Tangential electric honey extractor, fi600 for the disabled



**LYSON**

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**The manual applies to the machine of the product code:  
HEM600D230V\_ELC**

## **User Manual**

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# 1. General safety rules for the machine operation

Please carefully read the manual before working with the machine and follow the instructions included. The manufacturer is not liable for damages caused by using the machine contrary to its intended purpose or improper operation.



## 1.1. Usage principles

1. The honey extractor is intended for centrifuging honey out of the frames. It is adapted to be used by disabled people.
2. Before extraction the honey extractor should be thoroughly washed with warm water and a small amount of detergents approved for cleaning of the food equipment.



## 1.2. Electrical safety

1. The electrical installation system must be equipped with a residual current circuit breaker with a rated trip current of no more than 30mA. Check the operation of the RCD systematically.
2. If the power cord is damaged and needs to be replaced, this should be done at the guarantor's or a specialist repair shop, or by a qualified person to avoid a hazard.  
Do not use the honey extractor when the power cord or cord connection is damaged!
3. Before connecting the device to the network, make sure that the controller is turned off. The switch (11) on the control panel should be in position 0.
4. Make sure that the nominal voltage of honey extractor and power source match.
5. Be careful when connecting to the network. Your hands must be dry!  
The floor on which the honey extractor stands on should be dry!
6. The honey extractor lid must be closed during centrifuging! It is forbidden to open the honey extractor lid during operation.
7. Do not move the honey extractor while it is centrifuging.
8. In the case of a honey extractor with an electric controller, the motor and control must be protected against moisture (also during storage).
9. Do not pull on the power cord.  
Keep the power cord away from heat sources, sharp edges and maintain it in good condition..

## 1.3. Usage safety

1. This equipment is not intended for use by persons (including children) with reduced sensory or mental ability, or persons without experience, knowledge of equipment, unless this is done under the supervision or in accordance with the instructions for use of the equipment, provided by persons responsible for their safety.  
Pay attention to children so that they do not play with honey extractor.
2. If the honey extractor is damaged, only a specialist repair point or qualified person can carry out the repair in order to avoid a hazard.
3. Do not carry out any maintenance or troubleshooting while the appliance is working or when the honey extractor is connected to the power supply!
4. All covers must be firmly attached to the honey extractor during operation.
5. The honey extractor must not be operated with the drum tilted.
6. Tilting of the honey extractor is used to facilitate changing, rotating the frames or emptying the honey drum.
7. When replacing frames or rotating the basket, it must be locked with the latch (5) to avoid injury.
8. The machine must not be put into operation and stored at temperatures below 0°C. Before operating the honey extractor, if it has been moved from a lower temperature room to a room with a higher one, wait until it reaches the ambient temperature.



Do not repair the device in motion



Do not remove covers during operation

## 2. Instructions for use of the honey extractor

### 2.1 General rules for preparing of the honey extractor for work

1. Set the honey extractor in the designated place, kept in a proper cleanliness.
2. Keep available space around the honey extractor for better service.
3. Provide easy access to the voltage source.
4. If necessary, level the honey extractor to avoid problems during centrifugation.
5. Follow the rules for using the honey extractor.

### 2.2 Usage principles

1. The honey extractor is intended for centrifuging honey out of frames.
2. Before using for the first time and after completing the honey extractor, the honey extractor should be washed according to the instructions in the section "Maintenance and cleaning of the honey extractor".
3. Before starting the honey extractor operation:
  - insert the plug into the socket, and on the control box switch the on button (11) from "0" to "1"
  - using the UP-DOWN button (13), tilt the honey extractor to facilitate work
  - we lock the basket with the latch (5) (down) so that it does not twist when placing the frames (repeat the action four times)
  - we put the previously prepared frames in the honey extractor basket, paying special attention to their proper arrangement. Errors in the arrangement of the frames may cause damage that is not covered by the warranty.
  - using the UP-DOWN button (13) set the honey extractor drum to the vertical position
  - close the honey extractor cover (1), set the latch (5) to the unlocked position (up) and start spinning
4. The first centrifuging phase should be slow on both sides of the frame to prevent any possible breakage of the honeycombs. Particular attention should be paid to the so-called "young frames".
5. The speed control is set by the potentiometer (12).
6. The aim of the second phase is complete centrifugation of the frames.
7. The spinning basket should not be blocked by honey in the drum, and if this happens, stop the honey extractor to prevent damage. After honey has drained into the container, you can resume spinning.
8. Place a honey container under the drain valve.
9. When spinning, the drain valve should be open so that the centrifuged honey can flow out.



**Attention!!! Frames can be moved only when the honey basket is completely stopped!**

### 3. Description of the honey extractor

Tangential 4-frame honey extractor is dedicated to people with leg disabilities. It is used in small apiaries as well as by hobbyist beekeepers. It is distinguished by compact dimensions. Its design solutions allow for easy operation and use even when centrifuging the most dense honey. The cone-shaped bottom of the honey extractor allows free flow of honey down. The drum tilting system using an electric actuator allows you to easily pull out and rotate the frames. In order to immobilize the basket when inserting and rotating the frames, a blockade has been designed that prevents the basket from rotating freely and possible injury to the user.

#### 3.1. Honey extractor construction

- 1- cover
- 2- cover hinges
- 3- knobs fixing the beam
- 4- upper beam
- 5- basket lock
- 6- electric drive
- 7- basket with snap-in sockets
- 8- handle
- 9- drum
- 10- control
- 11- main switch
- 12- engine speed control potentiometer
- 13- UP-DOWN switch of the electric actuator
- 14- electric actuator
- 15- power cord
- 16- drain valve
- 17- rack
- 18- leveling feet
- 19- drum locking handle (**loose during operation, tightened for transport or after the end of the season**)

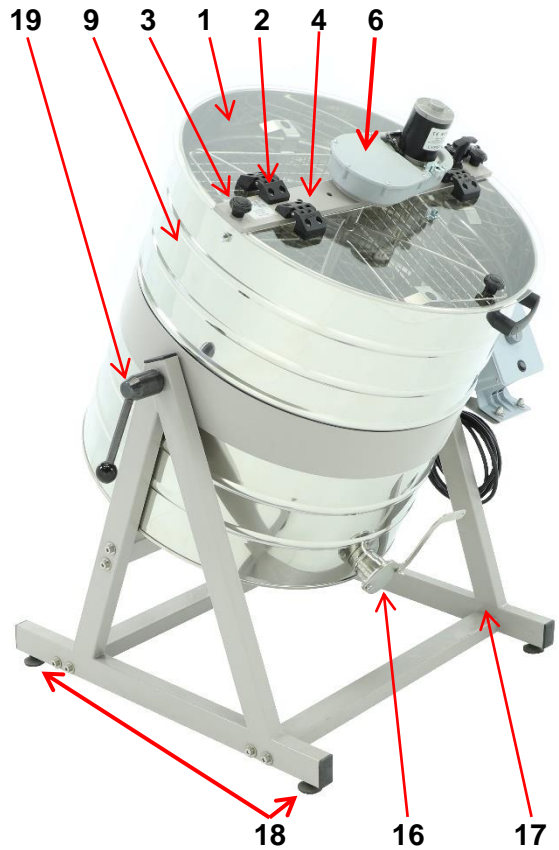
Photo 1



Photo 2



Photo 3



### 3.2. Honey extractor technical parameters

#### Honey extractor drum

It is made of acid-resistant stainless steel with a thickness of 0.6mm. Appropriate placement of the rim additionally strengthens the drum structure.

#### Basket construction

Universal tangential basket made of acid-resistant stainless steel bars arranged to protect the frames against breaking the honeycombs out during spinning. The basket is mounted in a slide-thrust sleeve. There are latch slots on the upper edge of the basket grids.

#### Electric drive

The honey extractor is powered by 230V / 200W mains voltage. An MDD controller was used with a potentiometer regulating the engine revs and a switch adjusting the drum inclination. The engine and gearbox are mounted on the upper beam.

#### Cover

Transparent, made of 3mm thick metaplex, protects the user against the danger of contact with the rotating basket and against dirt.

#### Drain valve

Stainless steel 6/4 "flap

#### Honey extractor rack

Powder coated rack with level control

## Honey extractor dimensions and weight:

- height - 1100mm
- width - 900mm
- length - 730mm
- weight - 45 kg

### 3.3. Honey extractor basket disassembly

- unscrew the upper beam (4) with the black knobs (3) together with the drive (5) and covers (1)
- pull out the basket (7)
- clean the honey extractor
- put the basket (7) back into the drum (9)
- mount the beam with drive and covers

## 4. Honey extractor storage

After completion of the honey harvesting, the machine should be thoroughly cleaned and dried.

Before operating the honey extractor, if it has been moved from a room with a lower temperature to a room with a higher temperature, wait until it reaches the ambient temperature. Store in dry rooms above 0° C. The honey extractor should not be turned on when the room temperature is lower than 5°C.

Before each season, an additional technical inspection should be carried out and in the event of a fault, please contact the repair service.

## 5. Maintenance and cleaning of the honey extractor



### **IMPORTANT !!!**

Wash the machine's covers with soap and water at 25°C.

### **ATTENTION!!!**

Do not use products containing ALCOHOL for cleaning (causes cracks and microcracks in plexiglass)

### **Pull the mains plug out before starting maintenance work!**

The honey extractor must be thoroughly washed before the first spin and after completion of honey harvesting. When washing, take special care to avoid getting the engine and the controller of the honey extractor wet (they can be covered with waterproof material during washing). After washing, the honey extractor should be rinsed thoroughly with clean water and dried. Before each season, an additional

technical inspection should be carried out and in the event of a fault, please contact the repair service.

## 6. Disposal

The used product is subject to the obligatory waste disposal in the local selective Electric and Electronic Waste Collection Points. The consumer has the right to return used equipment in the network of an electrical equipment distributor, directly and at least free of charge, provided that the returned device is of the correct type and performs the same function as the newly purchased device.

## 7. Warranty

Products purchased from "Lyson" are covered by the manufacturer's warranty.

The warranty period is 2 years.

A receipt or VAT invoice is issued for the purchased products.

**Warranty details available at: [www.lyson.com.pl](http://www.lyson.com.pl)**