

# Instructions manual

HE-02N controller for radial, cassette and tangential honey extractors



**Przedsiębiorstwo Pszczelarskie Tomasz Łysoń**

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# 1. General safety instructions

Before first use read the manual carefully and follow the instructions contained therein. The manufacturer is not liable for damage caused by equipment used inappropriately or by incorrect handling.

## 1.1. Electrical safety



1. The electrical supply system must be fitted with a residual-current circuit breaker with rated tripping current not higher than 30mA. Performance of the circuit breaker should be checked periodically.
2. Periodically check the condition of the power cord. Replace the power cord if damaged. Replacing the power cord can only be performed by the manufacturer or by qualified personnel.  
Do not use the device if the power cord is damaged!
3. Make sure that the main switch is in „0” position before plugging the unit in.
4. Connect the device only to a socket with voltage specified on the rating plate of the product.
5. Carefully connect the plug into the mains socket. Make sure your hands and the floor on which the device is placed should be dry!
6. Do not pull the power cord.  
Keep the power cord away from heat sources and sharp edges to ensure its good technical condition.



## 1.2. Operation safety

1. The device is not intended for use by persons (including children) with limited physical, sensory or mental abilities, or by inexperienced users, unless under supervision or with instructions given by an accountable party.
2. In the event of damage to the device, to avoid any health and safety risks, repairs should be carried out only by qualified personnel.
3. Never carry out any maintenance or repairs during operation
4. Do not use the device near flammable materials.
5. For indoor use only. The device is not suitable for outdoor use.
6. If the device has been moved from a cold room to a room with a higher temperature, before switching on wait until it reaches room temperature.

gives you the possibility to choose from two manual programs (right-left), and ten automatic programs preset for different diameters of extractors, but with the possibility of modifying them according to the user’s needs. The controller is equipped with the work time counter, which is displayed while turning on the power. Additionally, it is equipped with an alarm in case of an open cover or an activated safety button. In both cases the device will not start until the issues have been resolved.



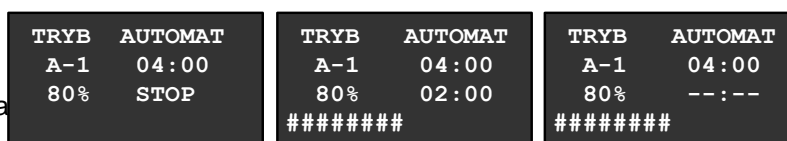
Use the up/down buttons to select the desired work mode and confirm your selection with the start button. The start button is also used to enable adjustment of the selected parameter. The stop button stops the operation and exits the adjustment mode of the controller settings. You can choose between manual mode - clockwise spinning direction, manual mode - counter-clockwise spinning direction, 10 automatic modes and configuration/settings mode.

When manual mode is activated, the up/down buttons change the rotation speed of the basket. The stop button stops the rotation.



The bar at the bottom of the display additionally indicates the value of the set speed (16 characters lit indicates 100% of the speed setting).

When automatic mode is activated, the up/down buttons change the speed of the basket. The stop button stops the extraction program. The start button pressed during the cycle pauses counting the elapsed program time, press it again to resume counting and go ahead with the program.



**PAUSE**

The bar at the bottom of the display additionally indicates the progress of the selected program (8 characters lit indicates 50% of the progress).

## 2. HE-02N functions and programming

The HE-02N automatic controller for honey extractors

The setting / configuration mode allows to program the extraction cycles, to set the controller's interface language and to adjust the brightness and contrast of the display.

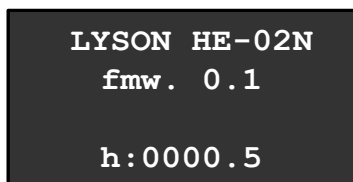


Automatic program customisation:

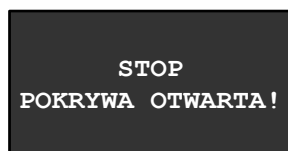
- select the automatic mode number (A-1 to A-10)
- set the total time of the cycle
- set the max rotation speed of the last step
- select the rotation direction (clockwise or clockwise/counter-clockwise)

The controller will automatically divide the cycle into the appropriate number of steps (4 or 6) and assign to each step the appropriate time and speed of basket rotation.

Total work time counter (displayed while starting the controller)



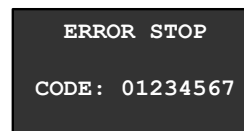
Messages displayed when the safety button is pressed or the extractor's cover is open.



### 3. Error codes

Detection of a fault / error preventing further operation of the controller is indicated by displaying the message "ERROR STOP" along with the error code.

The controller can only be restarted after: switching the power supply off, removing the fault and restarting the system.



- 0 – internal controller fault 0
- 1 – internal controller fault 1
- 2 – pressed / stuck button “down”
- 3 – pressed / stuck button “up”
- 4 – pressed / stuck button “start”
- 5 – pressed / stuck button “stop”
- 6 – inverter communication error
- 7 – inverter fault

### 4. Technical specifications

Number of manual modes: 2

Number of automatic modes: 10

Minimum duration of automatic program: 240s (4 minutes for extractors Ø720÷900)

Maximum duration of automatic program: 1800s (30 minutes)

Manual mode speed adjustment range: 10% - 100%

Automatic mode speed adjustment range: 60% - 100%

### 5. Waste disposal and environmental protection

The used product must be disposed in accordance with the local regulations. Return the device to a collection point from where it can be submitted for environmentally compatible recycling.

The consumer has the right to return used equipment directly to the manufacturer's distribution network, free of charge, while replacing it with a new unit as long as the used device is of the same kind and same application as the newly purchased device.

### 6. Warranty

The product purchased from the Lyson Company is covered by a manufacturer's warranty. The warranty period is 24 months from the date of purchase.

All purchased products come with receipts or VAT invoices.

Warranty details at:

[www.lyson.com.pl](http://www.lyson.com.pl)