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**INSTRUCTIONS MANUAL
RADIAL AND CASSETTE
HONEY EXTRACTORS,
720-900MM WITH 230V
CONTROL HE-01V-
BASIC**

The manual covers following devices (codes):

Radial extractors: W217_B, W218_B, W219_B,

4 cassette extractors: W20130KN_B, W2013000KN_B, W2013KN_B, 201300KN_B,

6 cassette extractors: W2013KBN_B, W2013KAN_B, W210KN_B.

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Dear Customer,

Congratulations!

By choosing this product, you have opted for a proven and robust device from our assortment. You have decided to integrate our device into your equipment fleet: this will significantly simplify your work and increase your productivity.

Since 1995, we have been involved primarily in the production of beekeeping equipment. On the European market, we are one of the largest companies in this field. We are gradually widening offer and adapting to individual orders.

Thanks to our long-term experience, we have grown to become a pioneer in the manufacturing of beekeeping equipment such as: honey extractors, creaming and uncapping equipment, honey dispensing and many more.

When working for you, we are driven by the values we have embraced as key, i.e. responsibility, commitment, close relationships, honesty and innovation.

All that you need for your apiary can be sourced in one place and collected even within a few hours. We provide a professional service regardless of whether the customers are hobby beekeepers or professionals running a commercial apiary.

On our website **lyson.com.pl** you will find all relevant information about the products and upgrade options.

Thank you for your trust!

Team Łyson

1 Remarks on this manual

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.

Please be aware that the images in this manual are illustrative as our devices are constantly being improved, images and details may differ from the model of your device.

Definition of terms and symbols

Numerical value change - the value of change after pressing the [plus] or [minus] button once.

Operating modes: dosing, creaming/pumping, extracting, drying, cleaning, etc.

Status: start (machine running) or stop (machine standstill).

The following symbols are used in this manual:

	Important information and useful tips for use
	Warning of situations that may present a risk to health and/or the product
	Warning on the risk of electric shock
	Warning on the risk of injury
	Warning on the risk of burns
	Warning on the risk of injury

2 General safety instructions

The safety instructions generally apply to all Lyson products.

	<p><u>Risk of electric shock</u> Protect the electronic connections of the power supply from moisture. Ensure that all cables/wires are arranged in such a way that they are not damaged, squeezed or have damaged insulation. Never open the drive module, power supply and plugs.</p>
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Risk of injury

Take care not to get your hands (also: hair, clothes, etc.) near moving parts while the appliance is operating.



Risk of burns

Beware not to get Your hands (also: hair, clothes etc.) near hot components while appliance is operating.



Risk of injury

Be careful when operating the unit as it has sharp edges

When dismantling or cleaning, it is strongly recommended to switch off the device and remove the plug from the socket.

Electrical safety:

- a) Connect the device to a grounded socket with voltage specified on the rating plate of the product.
- b) The electrical supply system must be fitted with a residual-current circuit breaker with rated tripping current not higher than 30 mA. Performance of the circuit breaker should be checked periodically.
- c) 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 pull the power cord.
- d) In the event of damage to the device, to avoid any health and safety risks, repairs should be carried out only by qualified personnel.
- e) Keep the power cord away from heat sources and sharp edges to ensure its good condition.
- f) Make sure that the main switch is in „0” position before plugging the unit in. Carefully connect the plug into the mains socket. Make sure your hands and the floor surface in the room are dry!
- g) Do not move the device during operation.

Damaged parts must be replaced immediately.

Operation safety

- a) 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.
This device is not a toy and shouldn't be used as one. Children should not play with it.
- b) Protect the controller and motors from moisture.
- c) Do not use the device near flammable materials.
- d) Never carry out any maintenance or repairs during operation or if the device is plugged in!
- e) For indoor use only. The device is not suitable for outdoor use.
- f) Do not use or store the device at the ambient temperature below freezing.
- g) 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.
- h) All covers must be firmly attached during operation or whenever the power cord is plugged in.
- i) In the event of damage to the appliance, only a specialised repair shop or a qualified person may carry out repairs to avoid danger.
- j) In the event of any danger, the safety switch must be used immediately. The appliance may only be restarted after the danger has been eliminated.
- k) The device must be levelled before use.



l) Do not remove covers during operation!



m) Never carry out any repairs during operation!



n) The tank should be filled with the liquid before it is connected to the mains!

o) Risk of contamination of fluids by defective operating parts:

After each usage (or at least once a day), it is essential to conduct a cleaning and visual inspection of the following components:

- gears / sprockets / pump head tubes,
- dispensing nozzles,
- seals,
- connectors,
- hoses.
- etc.

3 Device overview and installation instructions

It is recommended to check immediately after unpacking the device that the delivery is complete in accordance with the table below.



Fig. 3.1. Parts of the honey extractor



Fig. 3.2. Assembled extractor



Fig. 3.3. Power supply unit

Pos.	Name
1.	Motor 12 V / 150 W
2.	Legs
3.	Controller HE-01V
4.	Drum
5.	Stainless drain valve 6/4"
6.	Bar with hinges and covers
7.	Power supply unit 230 V

Missing parts or damage must be reported to "Lyson" immediately in writing - no later than two working days after delivery. After this period, we do not grant you the right to exchange/further delivery of parts at our expense.



Consumable parts are excluded from the guarantee without exception. All wearing parts should be checked regularly for damage and signs of wear and replaced if necessary. Porous, leaking or worn parts must be replaced immediately. Working with damaged parts can have a detrimental effect on the longevity, electronics, mechanics and functionality of the machine, as well as on the quality of the bottled fluid.

4 Assembly instructions

Devices come with a basket attached, top bar with covers, opening lock and a crossbar under the drum installed.

1. Remove the device and the boxes with the assembly components from the packaging.

The package includes:

-extractor,

-assembly components:

-controller and power supply,

-legs 3 pcs. and mounting screws,

-motor with mounting bracket, mounting screws and cables,

-instructions and warranty.

2. Lay the extractor on its side on a soft surface to avoid scratches or dints.

3. Remove the motor and screw it to the cross bar (marked 1. in Fig. 4.3) using 3 screws. Ensure that the drive carrier (marked 2. in Fig. 4.4) fits snugly over the basket axle. The wires connecting the control unit to the motor must then be connected by means of couplings (the couplings are located under the unit, couplings open on one side - the wires on the control unit side can be inserted - see Fig. 4.1., couplings closed - the wires are immobilised - see Fig. 4.2.). The couplings is opened by lifting the orange tab to the vertical position (see photos 4.1. and 4.2.). First open the couplings on one side (see Fig. 4.1.) and insert the wires. Then close the couplings (see Fig. 4.2.).



Fig. 4.1. Couplings open on one side



Fig. 4.2. Couplings closed

4. Then remove the legs (marked 3. in Fig. 4.5) and fasten them to the extractor with 4 screws each.

5. Then put the extractor upright on its legs.

6. Remove the controller (marked 4. on Fig. 4.7.) and the power supply (marked 7. on Fig. 4.3.). Screw the controller to the top bar with 2 screws. The power supply cable (marked 5. in Fig. 4.7.), the motor cables (marked 6. in Fig. 4.7.) and the cover-opening lock cable (marked 7. in Fig. 4.7.) are connected to the controller using the corresponding plugs.



Fig. 4.3. Cross bar



Fig. 4.4. Drive carrier

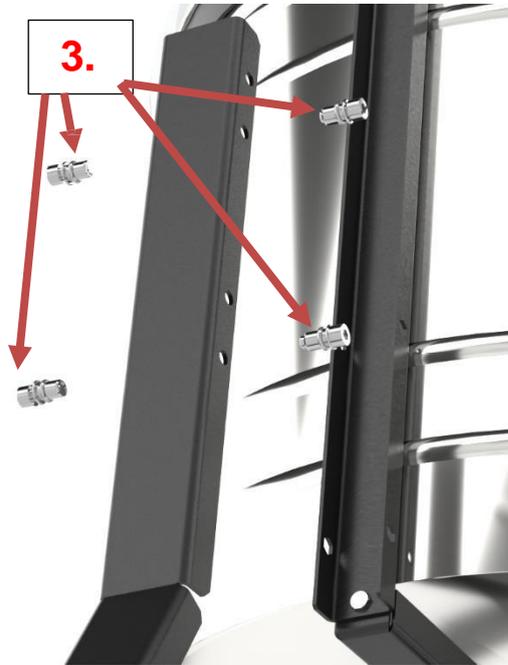


Fig. 4.5. Leg screws



4.6. Controller

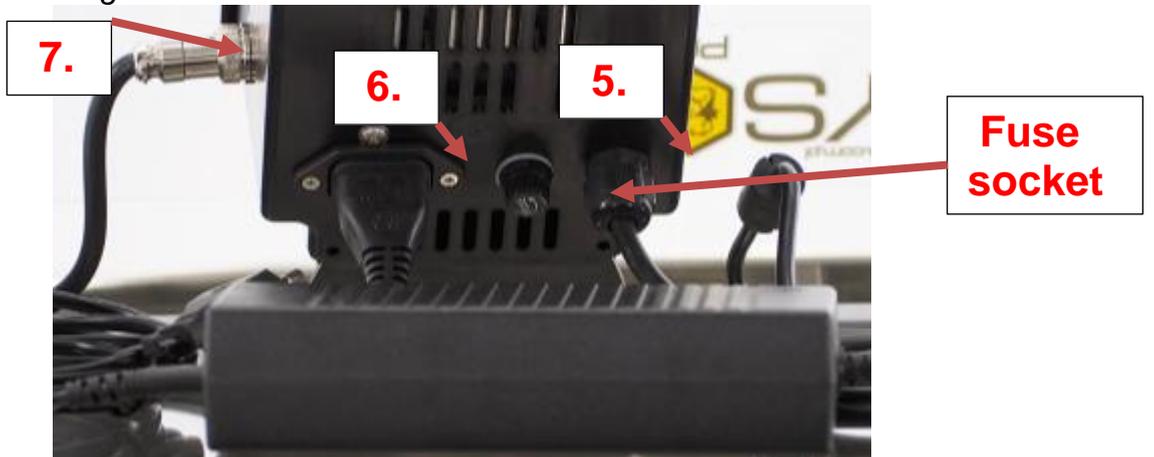


Fig. 4.7 Sockets of the controller

5 Technical specifications

5.1 Intended use

This product is designed to extract honey from the frames. Wash thoroughly with hot water using a small amount of detergent approved for cleaning devices intended for food contact or with a pressure washer. Take extra care to protect electrical components and bearings from getting wet!!!



Important!!!

Wash the device covers with soapy water at 25°C.

Note!!!

Do not use products containing ALCOHOL for cleaning (causes cracks and microcracks in the surface).

5.2 Technical characteristics

Both manual and automatic modes are available for these honey extractors.

Technical parameters:

- drum made of stainless steel 0H18N9, reinforced and stiffened,
 - drum and bottom made of 0.6 mm thick sheet,
 - one stainless steel drain valve 6/4',
 - basket made of stainless steel bars $\varnothing 8$, $\varnothing 10$,
 - top bar, band, legs, crossbar are made of black powder-coated steel sheet,
 - 4 mm thick cover is made of metaplex,
 - HE-01V control unit,
 - 12 V / 150 W motor with a belt and gear drive is located under the drum,
 - power supply 230 V,
 - the basket is supported in two upper and lower bearing holders,
 - a safety lock is fitted in the top bar,
 - the machines have a bottom drive with belt transmission,
 - cassettes are connected with each other by special guide rails which prevent the cassettes from jamming and by springs which allow the cassettes to return to their initial position (applies to cassette honey extractors),
- A device for self-assembly.

6 HE-01V controller



Fig. 6.1. HE-01V controller

The controller is equipped with a red 'EMERGENCY STOP' button used to immediately stop the work of the honey extractor, a power supply input - on the right hand side secured with a blue cap and a fuse located on the left hand side of the casing (10A fuse). The control panel is equipped with 'PLUS', 'MINUS' navigation buttons and an 'ON/OFF' button.

6.1 Controller functions and programming

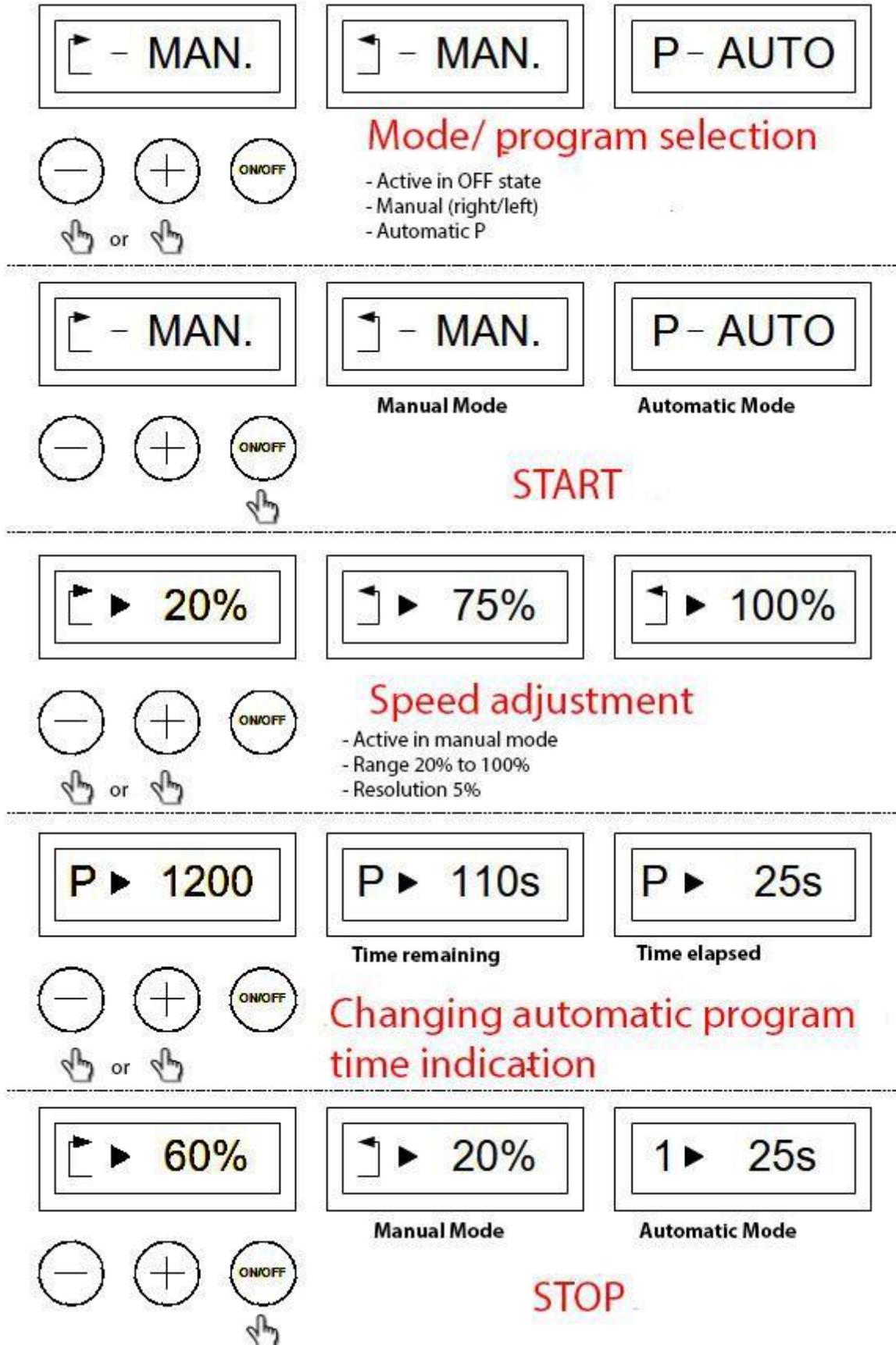


Fig. 6.1.1. Controller functions and programming

6.2 Automatic stop, power-off, emergency stop and display contrast adjustment.

Automatic stop

The HE-01V controller features an automatic stop function - stopping the rotation of the honey extractor basket. Automatic stopping means saving electricity when the honey extractor is left switched on unattended. The automatic stop function mentioned above operates on the principle of a clock - counting the time which has elapsed from the moment of switching on spinning or the last button pressed plus or minus. The function will activate when the motor is turned on and more than 20 minutes have passed since the rotation was initiated or the last button plus or minus was pressed.

Automatic power off (sleep mode)

The HE-01V controller features an automatic power-off function. Automatic switching off the power supply saves electricity. The mentioned function of automatic shutting off the power supply of the controller operates on the principle of a clock - counting the time which has elapsed from the moment when the operation of the honey extractor was stopped (stopping the cycle or rotation of the motor) or from the moment of the last pressing of the plus or minus button in the case when the honey extractor was stopped. The time required to activate the function is 15 minutes. After this time, the controller's display will indicate OFF! and after an additional time of 5 minutes the illumination of the display itself will be switched off. Waking up the controller from sleep mode will take place after pressing any button or EMG action (pressed mushroom button or open lid).

Emergency shutdown, opening of the cover

Detection of an open cover or EMG STOP button pressed condition will cause stopping of the basket rotation. The controller display will show C-STOP (lid opening) or E-STOP (EMG STOP button pressed) respectively.

Controller display contrast adjustment

- set program 6
- open the cover
- press ON/OFF button and keep it pressed for 10 seconds
- adjust the contrast using the PLUS and MINUS buttons
- after the contrast has been adjusted, release the ON/OFF button.

6.3 Controller programming

The HE-01v controller offers the possibility of setting up a customised "P-AUTO" process cycle. For a cassette honey extractor, the cycle introduced consists of four steps which are identical in terms of duration. Steps 1 and 2, as well as steps 3 and 4, have identical centrifugation speeds.

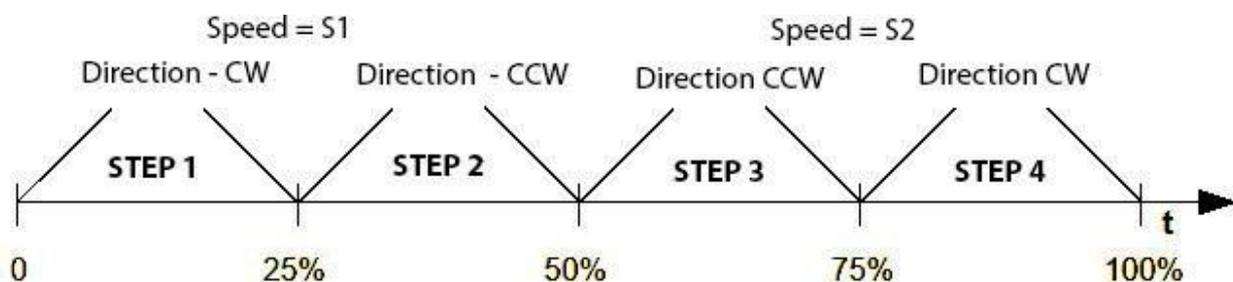


Fig. 6.3.1. HE-01V controller spinning cycle - cassette configuration

For the **radial** honey extractor, the cycle introduced consists of four steps that are identical in terms of duration. Steps 1, 2, 3 and 4 have a **one** direction spinning, the spinning speed for each step can be altered.

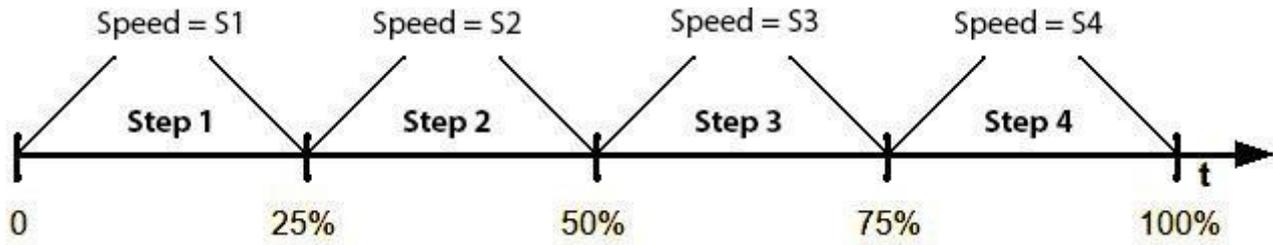


Fig. 6.3.2. HE-01V controller spinning cycle - radial configuration

The programming of your own cycles is done via the programming menu. To define your own cycle, enter the code entry mode and then, after entering code 1, start the programming mode.

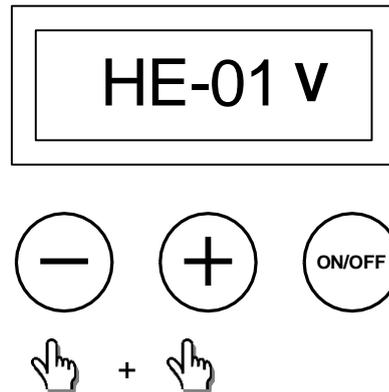


Fig. 6.3.3. Entering code input screen.

The procedure for accessing the code entry screen is illustrated in the figure above. While the controller is booting, i.e. displaying the manufacturer and type of device, press and hold the **plus** and **minus** buttons simultaneously.

There are two ways to force the controller boot sequence - by applying power to the controller or by lifting and closing the cover.

Release the **plus** and **minus** buttons when the word 'CODE' appears. Then, using the plus and minus buttons, set the appropriate code and confirm the selection with the **ON/OFF** button.



Programming the spinning cycle: CODE = 0001

Programming of the cycle is done according to the illustrations below. Parameter settings are confirmed by pressing **ON/OFF** button briefly. The 'OK' message signals the end of programming - followed by a restart of the controller.

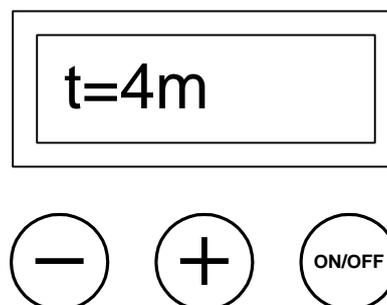


Fig. 6.3.4. Programming - setting the total cycle time (setting 3 - 15 minutes). The duration of each of the four steps is the total cycle time divided by four - for a setting of 4 minutes, each step takes one minute.



The programmed total cycle time does not account for the extra time of decelerating and accelerating the extractor's basket. This extra time is added automatically. The actual cycle time is therefore longer than defined by the parameter $t = \dots m$

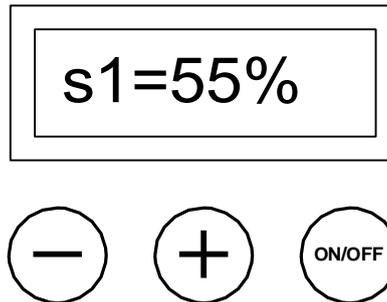


Fig. 6.3.5. Programming - defining the speed for steps 1 and 2 of cassette honey extractors and speed for step 1 of radial honey extractors (setting 20% - 100%)

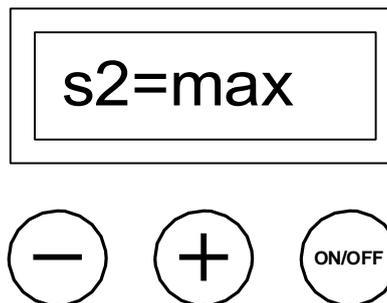


Fig. 6.3.6. Programming - defining the speed for steps 3 and 4 of cassette honey extractors and the speed of step 2 of radial honey extractors (setting 20% - 100%). The setting of 100% is displayed as max.

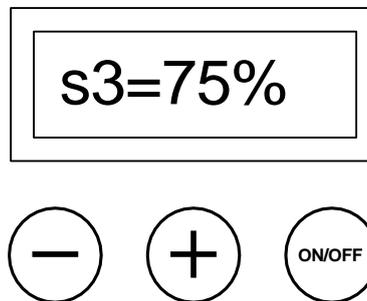


Fig. 6.3.7. Programming - defining the speed of step 3 of radial honey extractors (setting 20% - 100%). The setting is not available for cassette honey extractors.

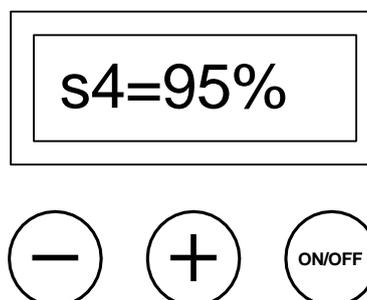


Fig. 6.3.8. Programming - defining the speed of step 4 of radial honey extractors (setting 20% - 100%). The setting is not available for cassette honey extractors.

6.4 Controller setup menu

The controller's setup menu allows fine-tuning of the drive system operation to suit the workload.

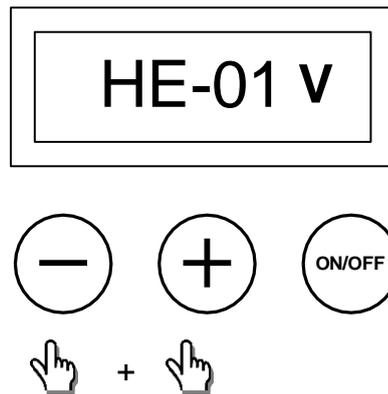


Fig. 6.4.1. Entering code input screen.

The procedure for accessing the code entry screen is illustrated in the figure above. While the controller is booting, i.e. displaying the manufacturer and type of device, press and hold the **plus** and **minus** buttons simultaneously.

There are two ways to force the controller boot sequence - by applying power to the controller or by lifting and closing the cover.

Release the **plus** and **minus** buttons when the word 'CODE' appears. Then, using the plus and minus buttons, set the appropriate code and confirm the selection with the **ON/OFF** button.



Setting parameters for the honey extractor drive system: CODE = 9876

Customization of the honey extractor drive settings is done in the same way as programming the controller (see section 5.3. 'Controller programming'). Parameter settings are confirmed by pressing ON/OFF button briefly. The 'OK' message signals the completion of the configuration - after which the controller is restarted.

Parameter b1 (setting 10s - 90s, default 50s)	The first braking time of the cycle, the time needed to perform the reversal by braking from speed S1 (the lower speed defined for steps 1 and 2).
Parameter b2 (setting 10s - 90s, default 50s)	The second braking time of the cycle, the time it takes to perform a reversal by braking from speed S2 (the higher speed defined for steps 3 and 4) or S4, and to stop the basket after completing step 4.
Parameter bm (setting 1-10, default 8)	Scaling of the braking time, adjustment of the time required to stop the basket during an interruption in automatic or manual mode.
Parameter ms (setting 15 - 25, default 25)	Restriction of the maximum rotational speed of the motor (reduction of the spin speed reached).
Parameter d (setting 10 - 50, default 25)	Configuration of motor dynamics (acceleration rate).
Parameter mc (setting 100 - 240, default 200)	Motor launch current limitation, the higher the value the higher the motor launch current.

6.5 Error codes

A DIGIT 1 IN A SPECIFIC POSITION DENOTES THE PRESENCE OF AN ERROR	
E:1000	Controller internal fault
E:0100	Minus button pressed / stuck
E:0010	Plus button pressed / stuck
E:0001	ON/OFF button pressed / stuck

6.6 Technical specifications of the controller

TECHNICAL SPECIFICATIONS OF THE CONTROLLER	
Manual speed control mode	Yes, both directions
Automatic spin mode	yes, programmable time and spin speed
Supply voltage	12V DC \pm 10%
Max. continuous load capacity of the output	12V / 10A
Max. peak load of the output	12V / 25A
Automatic motor shutdown	Yes, after approx 20 minutes
Protection against incorrect polarity of the supply voltage	yes
Emergency braking circuit	yes, protected electrically
Ambient temperature for operating controller	0°C...40°C
Storage temperature	0°C...50°C

7 Honey extractor instructions for use

General instructions – preparation for use

1. Set the device up in a designated place
2. Fix the extractor to the surface it is standing on.

Operation instructions

1. This product is designed to extract honey from the frames.
2. The device has to be cleaned before the first use and after finishing work according to the instructions in the "**8 Cleaning, maintenance and basket removal**" section.
3. While cleaning ensure the safety of all electrical components like motors and controller panels (for the time of washing cover them with waterproof fabric or plastic film).

4. Rinse and dry after washing
5. Frame configuration:
 - The honey extractor should be correctly matched to the type of frames.
 - In a cassette honey extractor, pay close attention to the correct positioning of the frames, which should fit into the cassette. The frame should be inserted into the cassette with the top bar towards the axis of the basket. (Fig. 7.1.)

Place the Warsaw Regular and Widened frames with the top bar down.



Errors in the positioning of the frames can cause damage to new frames in particular; the honey extractor manufacturer does not accept liability for such damage.

Note!!!

The frames may only be repositioned when the basket is completely stopped!



*Fig. 7.1. Correct positioning of frames in a cassette honey extractor (WL, OS, D, LN, AP)
Designations: WL-Wielkopolska, OS-Ostrowska, D-Dadant, LN - Langstroth, AP - Apipol*

6. Before starting
 - make sure that the frames are placed correctly in the basket (1 cassette equals 1 frame) to eliminate the risk of damage and to ensure efficient spinning.
 - check if the safety button is not pressed.
 - next connect the honey extractor to the power supply, to the 230V socket and proceed to switch on the honey extractor in accordance with the instructions.
7. The first phase of spinning should be done slowly to prevent possible breakage of the combs. Special attention should be paid to the so-called 'young frames'.
8. The rotating basket should not be blocked by honey in the drum; if this happens, the honey extractor should be stopped to prevent damage.

9. Once the honey has drained into the containers, centrifugation may be resumed. Place containers intended for honey under the drain valves.
10. During spinning, the drain valves should be kept open so that the extracted honey can drain freely.



Warning!!!

Spinning with the valve closed poses the risk of overflowing through the bushing of the basket shaft and consequently damaging the motor.

The work area should be well lit and kept appropriately clean.

8 Cleaning, maintenance and basket removal



IMPORTANT!

UNPLUG THE DEVICE BEFORE MAINTENANCE.



IMPORTANT!

During the period of the statutory warranty, the drive modules may only be opened by the manufacturer alone or by specialised personnel authorised or delegated by the manufacturer. Unauthorised opening of the drive modules (damaging the warranty seal results in the immediate voiding of the statutory warranty).



IMPORTANT!

The use of high-pressure cleaners is not permitted due to the risk of flooding of controller housings and cables. Damage caused by not following these instructions is not subject to warranty.



IMPORTANT!

Wash lids/covers made of metaplex with soap and water at 25°C.

ATTENTION!

Do not use agents containing ALCOHOL for washing (causes cracks and microcracks in metaplex).

The device should be thoroughly washed before the first start-up and after operation. When washing, protect the motor and controller against water (they can be covered with a waterproof material for the time of washing).

The appliance should be washed with hot water and food-grade detergent. The device should be cleaned, taking care to protect the electrical components. After washing, rinse thoroughly with clean water and dry. Do not chemically preserve any parts of the appliance.

After prolonged downtime, a thorough cleaning and visual inspection of functional parts should also be performed before reuse. An additional technical inspection should be carried out before each season, and service or distributor should be contacted if any defects are found.

Basket demounting instructions 4-6 cassette extractors:

- a) Disconnect the wires connecting the controller and the motor from the connectors (the connectors are located under the device, closed connectors - the wires are fixed - see Fig. 8.1 and open connectors on one side - the wires on the controller side can be pulled out - see Fig. 8.2). The connector is opened by lifting the orange tab 90 degrees (see Fig. 8.1. and 8.2.). The connectors on one side are opened (see Fig. 8.2.) and the wires can be pulled out.
- b) cut or break the zip ties securing the wires mentioned in the above paragraph (these wires are located in one of the legs of the honey extractor, see Fig. 8.3.),
- c) unscrew and remove the top bar with the covers,
- d) remove the basket.



Fig. 8.1. Connectors closed



Fig. 8.2. Connectors open – on one end



Fig. 8.3. Zip tie fixing the wire

9 Transport and storage

Storage

Store the device in a dry room at a temperature above freezing. If the device will not be used for a long period of time, it is recommended to clean, box and store it to protect it from damage and contamination.

Transport

In order to prepare the device and its components for transport, they should be disassembled as at delivery. In order to protect them from damage, all parts should be thoroughly cleaned, any residue from work should be removed, and they should be properly protected from damage and falling.



It is recommended to keep the original packaging for storage and potential return. The manufacturer disclaims any legal warranty for damage caused by improper transportation or storage of the device.

10 Support

If the malfunctions cannot be solved with this manual, contact our service center / dealer.



In order to repair the device efficiently. Please contact the service department or your dealer before sending it to us.

This will enable us to quickly verify the device once it reaches us.

If you would like our assistance in arranging transportation of your device to us.

Please contact us:

- customers in POLAND: contact service,
- customers outside of POLAND: contact your dealer.

REMINDER:

Also, the device to be delivered for repair must be clean.

11 Disposal

The old product is subject to disposal as waste only in the selective waste collection organized by the Network of Municipal Electrical and Electronic Waste Collection Points. The consumer has the right to return used equipment to the equipment dealer's network, at least free of charge and directly, as long as the returned equipment is of the correct type and has the same function as the newly purchased equipment.

12 Warranty

The product purchased from the Lyson Company is covered by a manufacturer's warranty. Guarantees as per table:

Equipment line	Basic	Minima	Optima	Classic	Premium
Steel	2			5	7
Controller				2	3
Motor				2	3
Other components				2	3

All purchased products come with receipts or VAT invoices.

Warranty terms and conditions:

The claim will be processed under provision of the following:

- proof of purchase (invoice/receipt)
- payment card statement

The reclamation process begins after the submission of all required documents.

In order to shorten the complaint processing time as much as possible, please provide the following data:

- device model
- product code/serial number
- year of production
- detailed description of the problem (photos and video recordings will be helpful)

Complaints can be submitted in writing to the distributor or directly to LYSON at <https://lysonserwis.pl/>.

In case of a manufacturing defect the buyer must return the claimed product to the place of purchase. LYSON will replace defective parts at no cost.

If the buyer agrees to receive the replacement parts and perform the service themselves, the LYSON company will send the replacement parts directly to the customer or to the relevant distributor.

Defects caused by: using the product contrary to its intended use or in accordance with the manufacturer's guidelines, dismantling electrical devices without consulting the manufacturer, improper operation, mechanical damage are not considered to be manufacturing defects.

Operation of the appliance:

Use the appliance in accordance with the enclosed operating instructions.

Storage of the appliance:

The appliance should not be stored in a room with excessive humidity.

Avoid contact with atmospheric agents (frost, rain, snow, extreme temperatures).

Read the operating instructions carefully before operating the unit!

Warranty details available in the terms and conditions at: www.lyson.com.pl

In order for the verification of the device when filing a claim to take place smoothly, it is necessary to prepare the data from the nameplate.

If the device has failed outside the warranty period. We encourage you to use our company service. Contact the manufacturer or dealer for details.

13 Service, technical information and warranty claims

Equipment Service for Customers in POLAND: Telephone numbers available on the website.

Customers outside the Republic of Poland: contact the seller.

Claim form: lysonserwis.pl

Equipment service is open from Monday to Friday:

Months	Office	Phone duty
January - March	6:00 – 14:00	Not available
April - August	6:00 – 14:00	14:00 – 18:00 (+ Saturday: 8:00 – 16:00)
September - December	6:00 – 14:00	Not available

Complaints of beehives:

Telephone numbers available on the website.

Technical support is open from Monday to Friday 8:00 – 16:00:

Telephone numbers available on the website.

To purchase spare parts, it is necessary to contact the customer service. In order to carry out the verification efficiently, please prepare the model of the device.

14 Certificate

The certificate is available under the "Knowledge" tab and the "PZH Approvals" sub-tab at: www.lyson.com.pl.

WARRANTY CARD	
NAME	
TYPE OF DEVICE	
MOTOR	
TECHNICAL DATA	
POWER SUPPLY	
GENERAL COMENTS	
DATE OF PRODUCTION	
DATE OF SALE	
CHECKED ON	
THE SIGNATURE OF PERSON AUTHORIZED TO ISSUE THE WARRANTY	
COMPANY STAMP AND SIGNATURE	

Service card

Date	
Fault description	
Signature	
Date	
Fault description	
Signature	
Date	
Fault description	
Signature	