

# MANUAL EXTRUDER FOR UNCAPPED HONEY



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# MANUAL

## EXTRUDER FOR UNCAPPED HONEY

The following manual includes the device with the following coding:

### **POWER SUPPLY 230V:**

W20970 , W20966 , W20965

### Manual

1. General safety operating principles
  - 1.1. Electrical safety
  - 1.2. Operational safety
2. Characteristics of the extruder
  - 2.1. Extruder for uncapped honey
  - 2.2. Extruder diagram
  - 2.3. Technical parameters of the device
3. Handling the extruder
4. Extruder controller
  - 4.1. Description of the buttons – controller functions
  - 4.2. Handling the controller
  - 4.3. Signalling errors
5. Storage of the extruder
6. Cleaning and maintenance
7. Recycling
8. Guarantee

# EXTRUDER FOR UNCAPPED HONEY POWER SUPPLY 230V

Prior to device usage initiation, refer to the following manual and act according the guidelines contained therein. The manufacturer shall not be held accountable for any damages caused by improper usage of the device or its improper handling

## 1. GENERAL SAFETY OPERATING PRINCIPLES FOR THE EXTRUDER FOR UNCAPPED HONEY 1.1. ELECTRICAL SAFETY



- The device must be connected to a socket with the earthing with the voltage specified on the nominal plate.
- Power supply electric installation must be equipped with RCD with nominal tripping current  $I_n$  below 30 mA. Functioning of overcurrent circuit breaker must be checked periodically.
- Check the power supply cable periodically. If the non-detachable power supply cable gets damaged and it must be replaced, this will be performed by a guarantor or a specialist service centre or a qualified person in order to avoid any danger. Do not use the device when the power supply cable is damaged .
- In case of any damage to the device, in order to avoid any danger, the repair must be performed by a qualified person or a specialist service centre only .
- It is forbidden to pull the power supply cable. The power supply cable must be kept away from any heat sources, sharp edges and its proper state must be secured.



## 1.2. OPERATIONAL SAFETY

- The following equipment is not intended to be used by persons with limited physical, sensory or mental capabilities (including children) or persons inexperienced or unfamiliar with that type of equipment unless the usage occurs under supervision or in line with the equipment operating manual provided by safety supervising persons.
- The floor on which the device is placed must be dry!
- Prior to starting work with the device, the button "EMERGENCY STOP" must not be pressed ( it must be switched until it has popped out).
- Pressing the "EMERGENCY STOP" button allows to stop the extruder immediately.
- The lattice protecting the hopper should be closed durian the extruder operations!
- Do not displace the extruder while in operation.
- Protect the motor and the controller against humidity (also during storage)
- Do not operate the device in the vicinity of flammable materials.
- It is forbidden to perform any maintenance works while the device is under operation.
- All shields must be fixed firmly while the device is under operation.

- In case of any danger, use the emergency stop button immediately. The device restarting may occur once the danger has been eliminated.
- The device may be activated indoors only. The device is not adjusted for outdoor operation.



It is forbidden to make repairs while the device is in operation.



## 2. CHARACTERISTICS OF THE EXTRUDER

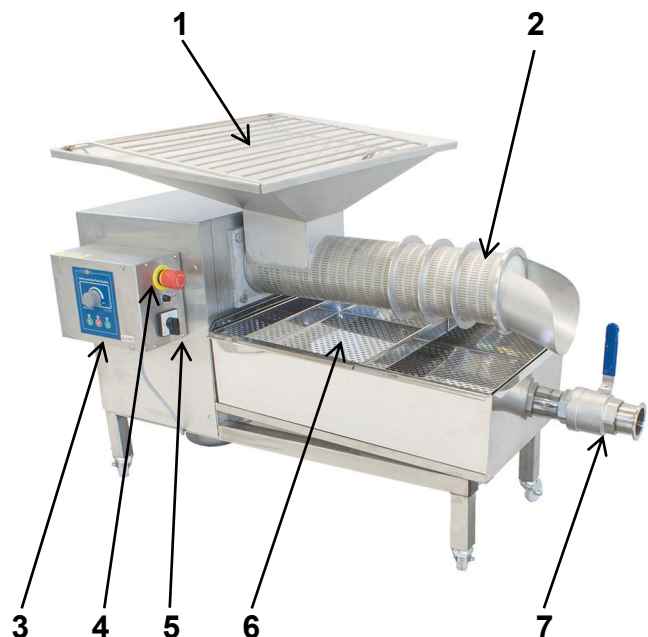
### 2.1. EXTRUDER FOR UNCAPPED HONEY

The device occurs in three efficiencies:

50, 100, 200 kg/h

The device is intended to separate the honey and press the uncapped honey in a mechanical manner. This process occurs inside a perforated cylinder, where a rotating separating and pressing module presses the honey which gets through the orifices between a separating shaft and perforated steel plate and drains on a sieve located underneath. The remaining wax is moved and pressed by a helix inside the extruder and moved outside. In this manner we receive dry wax in the form ready to be melted.

### 2.2. DIAGRAM FOR THE EXTRUDER



### DESCRIPTION

- Hopper for uncapped honey

2. Separating and pressing shaft
3. Controlling panel
4. EMERGENCY STOP button
5. Main switch 0-1
6. Drip pan with sieves for honey
7. Connector with a ball valve

### 2.3. TECHNICAL PARAMETERS OF THE DEVICE:

- Made of stainless acid-resistant steel
- Power supply – 230 V
- Ball valve 5/4"

- a) extruder 50kg:** - power 0,55kW  
 -max rotations 14 rpm.  
 - weight 45kg  
 -dimensions: h.68 x w.41x l.105cm
- b) extruder 100kg:** -power 0,55kW  
 - max rotations 9 rpm.  
 -weight 82kg  
 -dimensions: h.80x w.52x l.128cm
- c) extruder 200kg:** -power 2,2kW  
 -max rotations 5 rpm.  
 -weight 160kg  
 -dimensions: h.92 x w.75x l.135cm

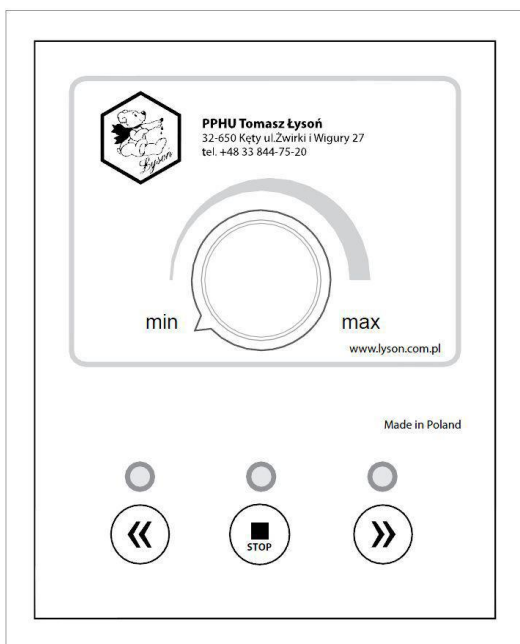
### 3. HANDLING THE EXTRUDER

Prior to connecting the device to the mains, make sure that the controller is switched off.

0/1 switch on the control panel should be in "0" position. After connecting to the mains, the 0/1 switch on the control panel must be switched from "0" position into "1" position. Start the extruder by pressing button 1 ( to the right) or 3 (to the left). Button 2 (STOP) serves to stop the extruder.

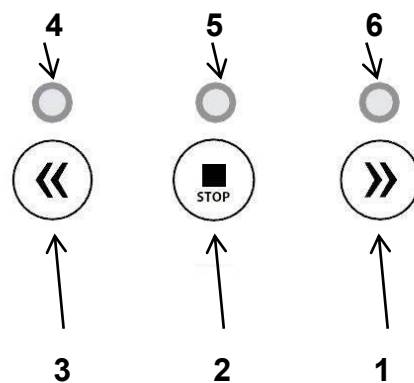
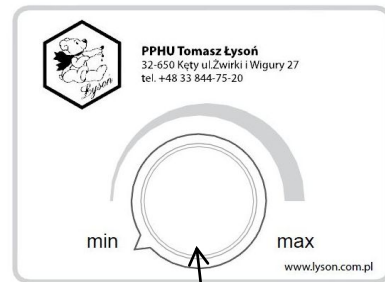
### **NOTE !!!**

While filling up the hopper with uncapped honey, pay attention to prevent hard elements from entering the device (stones, metal parts) as they may damage a perforated cylinder.



### 4. EXTRUDER'S CONTROLLER

Operation of the controller boils down to the activation of the extruder motor by means of button 1 to the right or 3 to the left with the rotations set up by a user by means of a knob number 7.



### 4.1. DESCRIPTION OF BUTTONS – CONTROLLER FUNCTIONS

Element	Function
1	Button <b>START TO THE RIGHT</b> . Pressing the button shall activate the extruder in a permanent operations mode. Stopping the cycle occurs by pressing the STOP button (2).
2	Operation stop button STOP. Pressing the button will move the controller in a stop mode.
3	Button <b>START TO THE LEFT</b> . Pressing the button will start the extruder in a permanent operation mode. Pressing the STOP button (2) will stop the cycle.
4	Diode to signal extruder's operation to the left
5	Diode to signal the device STOP state. When the diode flashes, it indicates that the safety loop has been triggered.
6	Diode to signal extruder's operation to the right
7	<b>Knob to regulate the rotational speed</b> (speed set-ups within the range 0 – max). Setting the speed at 0 level does not switch off the device

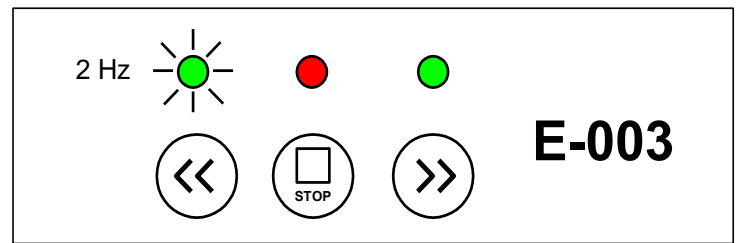
## 4.2. HANDLING THE CONTROLLER

Once the power supply been switched on, the controller goes through a start-up sequence – performing several basic diagnostic tests to confirm the correct operation of the device. Error detection is signalled by flashing diode number 4 and lighting a proper combination of diodes 5 and 6. If no errors have been detected, the device will move into stop status – waiting for the user's commands.

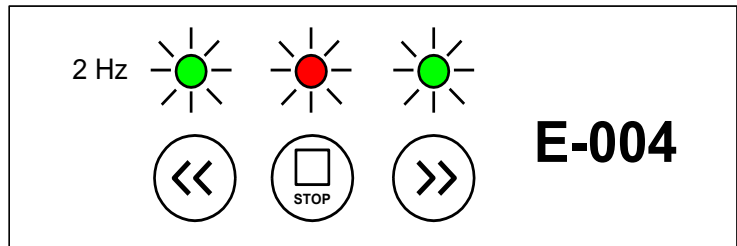
Controller handling boils down to starting the extruder by means of buttons 1 or 3. STOP button allows to stop the extruder and deactivation of the work in progress. The cycle gets restarted after pressing buttons 1 or 3.

When safety loop triggering has been detected (pressing the EMERGENCY STOP button), the motor rotations are switched off immediately and the extruder stops.

Releasing the protection (turning the STOP button to the right) shall return the device for ready to operation status.



**PRESSED / BLOCKED BUTTON – START TO THE RIGHT**



**ERROR OF ALARM LOOP – EMERGENCY BUTTON PRESSED**

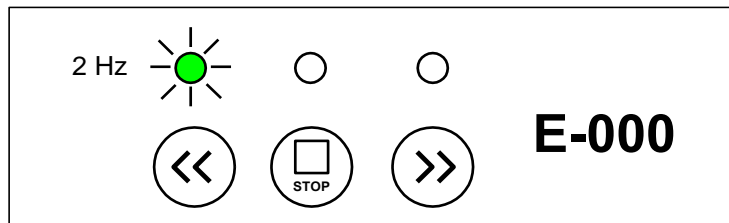
## 4.3. Signalling the errors

### Error codes

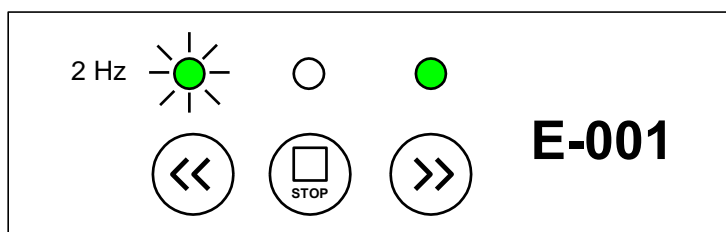
The controller has been equipped with diagnostic procedures – enhancing work safety and comfort.

### Error signalling

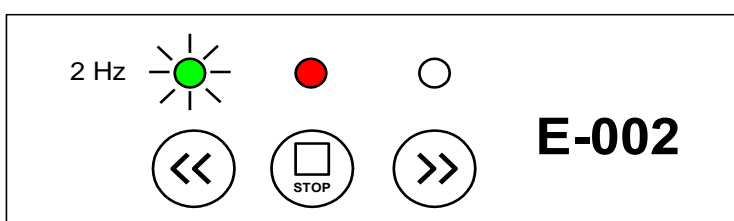
- errors are signalled by the relevant combination of diodes 4,5,6
- detecting an error stops the extruder immediately
- the controller restarts once: power supply has been cut off, fault has been removed and power supply has been switched on again.
- switching off the power supply deletes the errors from the memory.



**INTERNAL FAULT OF A MICROPROCESSOR CONTROLLER**



**PRESSED / BLOCKED BUTTON START – TO THE RIGHT**



**PRESSED / BLOCKED STOP BUTTON**

## 5. Storing the extruder

After each operation the device must be cleaned and dried thoroughly. Prior to device activation, in case when it has been transported from a room with a lower temperature to a room with a higher temperature, wait until the device has reached the ambient temperature.

Store in dry rooms with the temperatures above 0 degrees C.

**Before every season, an additional technical inspection must be performed and in case when any defects have been detected, a service centre must be contacted**

## 6. Cleaning and maintenance

### IMPORTANT!

**Prior to the maintenance, unplug from the mains!**

Prior to the first use, the device must be cleaned and dried thoroughly.

The device shall be washed with hot water containing the agents permitted to come into contact with the equipment used by food processing industry.

While washing the device with soft cloth, remember to protect the electrical elements.

After washing, rinse with pure water and dry.

The extruder is to be stored in a dry room.

None of the device components should be maintained with chemicals.

In order to clean the extruder after the season, perforation with a hopper should be dismantled. For this purpose, loosen four screws fixing the perforation flange to a stand.



## **7. Recycling**

Worn-out product must be removed as waste only within selective waste collection organised by the Network of Communal Electric and Electronic Waste Collecting Points. A customer is entitled to return the used equipment to the electrical equipment distributor network, at least free of charge and directly, if the device to be returned is of proper type and serves the same purpose as the newly purchased device

## **8. Guarantee**

Product purchased from "Lysoń" company are encompassed by the manufacturer's guarantee.

The guarantee duration equals 24 months .

A receipt or a VAT invoice is issued for each product purchased.

Details on the guarantee terms available on [www.lyson.com.pl](http://www.lyson.com.pl)