# MANUAL FOR THE HONEY CREAMING AND DEHYDRATING MACHINE 150kg., 300kg.



# Przedsiębiorstwo Pszczelarskie Łysoń

Spółka z o.o. 34-124 Klecza Górna, st.Pszczela 2, Poland www.lyson.eu, e-mail; lyson@lyson.com.pl Tel. +48 33/875-99-40, +48 33/870-64-02

# The manual includes devices with code:

W4020, W4021

User manual

- 1. General rules for the safety of using the device for cremating and drying honey
- 1.1. Electrical safety
- 1.2. Safty usage
  - 1. Characteristics of the device for creaming and drying honey
  - 2. 2.1. Device components
- 2.2. Technical parameters of the device
- 2.3. Preparing the device for operation
  - 3. Controller's functions controller's description
  - 4. Creaming functions
  - 5. Error raport
  - 6. Soring the honey creaming and dehydrating machine
  - 7. Cleaning and maintenance of the device
  - 8. Recycling
  - 9. Guarantee



### 1. Ogólne zasady bezpieczeństwa użytkowania

Before using the device, please read the instructions for use and follow the instructions inside.

The manufacturer is not liable for damage caused by wrong usage of the device.



### 1.1. 1.1. Electric safety

1. Power supply electric installation must be equipped with RCD with nominal tripping current In below 30 mA. Functioning of overcurrent circuit breaker must be checked periodically.

2. If non-detachable power supply cable gets damaged and must be replaced, it must be performed at a guarantor's or by a specialised repair centre or by a qualified person in order to avoid any threat.

3. Do not operate the device when the power supply cable or connecting cable are damaged.

4. Prior to plugging in the device to the mains, check whether controller is switched off. 0/1 switch on the controlling panel should be in "0" position.

5. Check the honey dehydrator and the power source for nominal voltage compliance.

6. Be careful while connecting the device to the mains. Hands must be dry! The floor on which the dehydrator has been placed must be dry!

7. While operating, the lid of the honey dehydrator must be closed ! it is strictly forbidden to open the lid during dehydration.

8. The dehydrator must not be dislocated during extraction.

9. The engine and controller must be protected against humidity (also during storage)

10. It is forbidden to pull the supply cable. The supply cable must be kept away from heat sources, sharp edges and it god technical state must be taken care of.



## 1.2. Operating safety

1. 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. One must make sure that children do not play with the honey extractor.

2. In case of any damage to the honey extractor, in order to avoid the danger, the repairs may be performed solely by a specialist servicing centre or a qualified person.

3. It is forbidden to perform any maintenance works or repairs when the device is in operation.

4. All shields must be permanently attached to the device while operating it.

5. In case of any danger, emergency switch must be used at once. The device can be activated once the threat has been eliminated.

6. Devices are not intended to be used outdoors and may be operated indoors only.

7. The device cannot be activated and stored with the ambient temperature below 0° C. The device cannot be activated when the ambient temperature drops below 5° C. When the device has been moved from a room with a lower temperature to a room with a higher temperature, prior to its activation one must wait until the device has achieved the ambient temperature.



It is forbidden to repair devices under operation



It is forbidden to remove the shields when the device is under operation

#### **Place of work**

It should be properly lit and kept in order.

# 2. Characteristics for the honey creaming and dehydrating machine

Honey dehydration is to be performed under circumstances when water content in the honey exceeds 18-20%.bacause it has been harvested too early or its quality is poor. High water content in honey reduces its shelf-life, contributes to its stratification and fermentation even whit honey is stored in low temperature.

The device is intended to remove water surplus from the honey by evaporation. Heated air is supplied inside the device and it maintains dry microclimate there, which facilitates water evaporation from the honey. The drying process is ameliorated by the devices installed inside, rotating plates.

Controller's handling is easy and intuitive.

The device is powered by 230V current. Liquid or semi-liquid honey is to be poured into the device until the level marked inside the dehydrator.

When the drying process has terminated, honey is to be drained from the device.

#### 2.1. Device components :

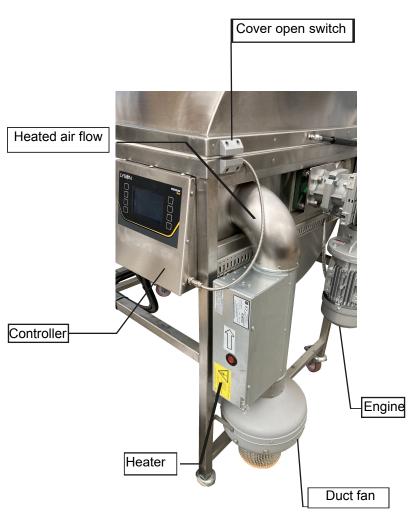
- Dehydrator tank with a lid stainless steel
- Dehydrator frame stainless profile
- Engine+transmission
- Controller
- Connecting box
- Heater 1200W
- Duct fan 250m³/godz.
- Air filter
- Heater elbow tube- stainless steel
- Stainless steel flap valve 6/4
- Servomotor 2pcs
- Hinge to close the lid 2szt

- Lid handle
- Drying plates fixed permanently to the shaft-stainless steel, between the plates, there are spacers made of tarnamide.
- Wheels 4pcs

## 2.2. Technical parameters

Technical data	Device 150 kg	Device 300 kg
Heating power	1200W/230V	1200W/230V
Engine	370W	750W
Plate diameter	62 cm	62cm
The numer of plate	19	31
Total width of the device	102 cm	102 cm
Total* hight of the device	170 cm (open lid) 122 cm (closed lid)	175 cm (open lid) 125 cm (closed lid)
Total* lenght of the device	130 cm	180 cm
Total* width of the device	103 cm	103 cm

 $^{\ast}$  total – including the devices protruding outside the device(controller, elbow pipe, connecting box)



# 2.3. Preparing the device for operation

While activating the device, emergency STOP button should be released (it must be turned until it has popped out) pressing emergency STOP button allows to stop the device operation immediately.



A) emergency switch

- B) switch "0/1"
- C) Plugs with cables

# Activating the device

- plug the device into the power supply
- emergency switch is unblocked
- (gently turn the red valve head acc. to the arrows) act the 0/4 to "4" position
- set the "0/1" to "1" position
- check whether the emergency switch on the control panel is released

- once above actions are completed, control panel gets activated **Photo 1.** 

	line	
	+ 3 25% × SELECT	
	- ŁYS®Ń 00:00:25 00:00:00	
	+ m 100% START	
	- 24°C 55×M .	
tel.: +48 33 844-75-20 www.lyson.com.pl		POLAND

Photo.1 Control panel after device activation

# 3. Controller functions - controller description

# Controller support

Pressing the start button will start the automatic start sequence (starting of the device is possible after closing the cover):

- Activation of the airflow fan
- Activation of present drum rotation
- Activation of the air dehumidifier Activation of the heater with present power

The unit is equipped with a lid opening safety device. After opening, the device stops rotating plates. Resuming work is possible after closing the cover and pressing START button.



The next step is to set up the speed of rotating plates in %. Setting range from 0% to 100%.

Each time you press the S + / S- buttons, the speed changes by 10%. The entered value is saved in the controller's memory. In the reading field, the current percentage value of the rotational speed of the plates is indicated.



**Photo.2** Setting up the speeds of rotating plates in %. (bottom "PLUS" and "MINUS")

Next, we proceed to set the heating power inside the device.

The setting range is from 0% to 100%.

Each time the P + / P- buttons are pressed, the temperature change by 5%.

The entered value is saved in the controller's memory. In the reading field, the currently set heating power and the measured temperature inside the device are displayed. In the case when the temperature will be bigger than set temperature Tmax, the controller will start the automatic reduction of the heating power (5% for every 2 seconds).



**Photo.3** Setting up the heating power and the information on the current temperature inside the device

The select button is not available for this device. Field for activating / deactivating the air dryer.

+ 🧼 25% 🔀 🗸 🖌	
- LYSON 00:00 US	
+ 100% STOP	

Photo.4 Switching on the condenser (not available)

Providence and a statistic	00:00:00 00:00:00 STOP	START STOP	
Surveyord Surveyord Surveyord	- ŁYS⊛Ń + M 100% - ↓ 24°C	+ M 100% STOP	+ 100% STOP



Setting up the device operating time (TIMER) is very important.

Pressing the button activates the timer mode and sets the time after which the honey dehydrator will be switched off. The readable area indicates the time that has passed since the dehumidifier was activated and the time after which the dehumidifier will get switched off automatically. When the timer function has not been activated, the readable area will show the setting value 00:00:00.

Lack of TIMER setting will cause continuous operation of the device.

#### NOTE

The TIMER time will be reset if the cover is lifted during operation. Return to operation is possible after closing the cover and pressing the START button again. The zeroed TIMER should be set again to the appropriate operating time.



Photo.6 Setting up the device operating time (TIMER)

Pressing the stop button will trigger the stopping sequence:

- 1. Heater deactivtion
- 2. Deactivation of the air dehumidifier circuit
- 3. Deactivation of the drum rotations
- 4. Deactivation of the airflow fan

The readable area shows the current operating state: start or stop.



Photo.7 Deactivating the device by the STOP button



Photo.8 One of the two Emergency Stop buttons pressed

## 4. Creaming function

The device also has the honey creaming function which is activated by switching off the heating on the controller. Subsequently, we set up the maximum rotations for the time of 15 minutes. Once the set time has expired, the device is to be deactivated for 1-1.5 h by pressing the STOP button. The process is repeated until the creamy texture of the honey is achieved.

The controller does not have a programmed automatic creaming cycle. The creaming cycle must be set up manually.

## 5. Error report

The HD-01 controller has been equipped with advanced error detection mechanisms. Detection of any error triggers an emergency stop action and invokes the error report screen. The error report screen is displayed continuously. It is therefore necessary to turn off the power, remove the source of the error and re-enable the controller.

ERROR	DESCRIPTION	
(E.0) CPU	Damage to the main processor	
STATUS		
(E.1) PB1	Damage / depression of button No. 1 (left	
STATUS	side, top side).	
(E.2) PB2	Damage / pressing the button No. 2 (left	
STATUS	side).	
(E.3) PB3	Damage / depression of button No. 3 (left	
STATUS	side).	
(E.4) PB4	Damage / depression of button No. 4 (left	
STATUS	side, bottom side).	
(E.5) PB5	Damage / depression of button No. 5 (right,	
STATUS	top side).	
(E.6) PB6	Damage / depression of button No. 6 (right	
STATUS	side).	
(E.7) PB7	Damage / depression of the button No. 7	
STATUS	(right side).	
(E.8) PB8	Damage / depression of button No. 8 (right	
STATUS	side, bottom side).	
(E.9) T1 SENSOR	Damage or disturbance in the operation of	
(E.10) T > Tmax	temperature sensor T1.	
	Too high temperature measured with the T1	
	sensor. Too low temperature measured by the T1	
(E.11) T < Tmin	sensor.	
(E.12) ALARM	Reporting an alarm from input D4.	
ST1		
(E.13) ALARM ST2	Reporting an alarm from input D5.	

# 6. Storing the honey creaming and dehydrating machine

When the device operation has terminated, the device must be cleaned and dried thoroughly. Prior to starting the device, in case when it has been moved from the room with lower temperature to a room with a higher temperature, one must wait until the device has reached the ambient temperature. The device is to be stored indoors in temperatures above 0° C **Prior to every season, a detailed technical inspection must be performed and in case when a defect has been detected, a service point must be contacted** 

#### 7. Device cleaning and maintenance



# Prior to starting the maintenance, the plug must be taken out.

# Make sure that no honey is left inside the device after operation.

While washing, take special precautions to avoid dampness in the engine, controlling unit and the main cabinet of the device (while washing they can be covered with a water-resistant material). Take adequate measures to prevent water from entering the airflow duct as the fan and the heater may get damaged.

# 8. 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.

### 9. Guarantee

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

The guarantee duration equals 24 months.

A receipt or an invoice are issued for the products purchased. .

Details on the guarantee terms, see: www.lyson.com.pl