

MANUAL

HONEY DECRYSTALLIZATION COIL WITH TEMPERATURE REGULATOR



Przedsiębiorstwo Pszczelarskie Łyson

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 following manual covers the devices bearing the following codes

W3207_OL, W3208_OL, W3210_OL

MANUAL

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MANUAL FOR DECRYSTALLIZATION COIL WITH A TEMPERATURE REGULATOR

1. General coil safety operational principles

Prior to operating the device please refer to the manual and act according to the guidelines contained therein. The manufacturer cannot be held accountable for the damages cause by misusing the device or its improper handling.



1.1. Electrical safety

1. 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.
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. Do not operate the device when the power supply cable is damaged!
3. Check the nominal voltage of the coil and the source of power supply for compliance.
4. Be careful while connecting to the mains. Hands must be dry!
5. Prior to installing the thermostat, make sure the device is disconnected from the mains. Assembly must be completed by an authorized person.
6. Make sure that electric parameters of the device correspond to the parameters of the thermostat contacts (maximum supply voltage and the rated current).
7. 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

1. The device is intended to be used for honey decrystallization.
2. The floor on which the device is to be placed

must be dry!!

3. Prior to the coil activation, submerge the device in the honey.

4. 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.

5. Pay attention to the children, so as they do not play with the device nor touch it. The coil gets heated, which can cause burns.

6. In case when the coils gets damaged, in order to avoid the threat, the repair must be performed by a specialist service Centre or a qualified person only.

7. Do not perform any maintenance works or repairs when the coil is under operation or connected to the mains!

8. Do not activate the decrystallization device when there is no honey in the tank

9. The devices are not intended to be used outside, they may be exploited inside only.

10. The coil must not be switched on and stored when the temperature drops below 0°C . Do not switch on when the ambient temperature drops below 5°C . Prior to the coil activation, when it has been moved from a room with the lower temperature to a room with a higher temperature, wait until the device has reached the ambient temperature.

11. Do not use the coil in plastic containers!

2. Honey decrystallization:

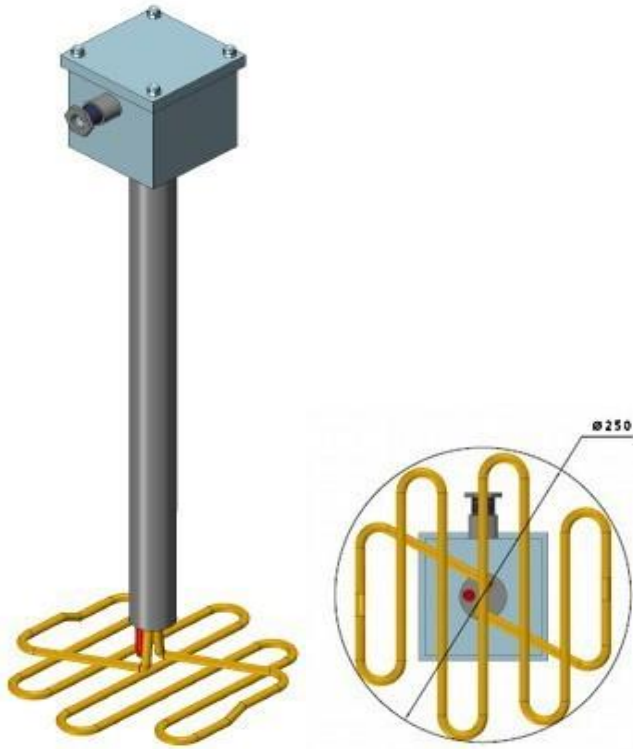
Honey decrystallization shall occur at the maximum temperature of 35 to 40 degrees C.

(it is important not to overheat the honey as, on a par with the pollen, it loses its properties with the temperatures exceeding 40 degrees C.)

Fresh honey remains dense and transparent. With time, it is subject to natural crystallization.

Heating the honey until the temperature of 40 degrees C and maintaining the temperature for several days shall make the honey switch from crystallized state (set honey) to liquid state (strained honey).

2.1. Decrystallization coil - diagram



2.2. Coil technical parameters:

- Pipe heaters, stainless steel AISI 316L (may be replaced by 321)

- Discharge pipe, stainless steel AISI 304
- Protecting box, stainless steel AISI 304
- range 0-90°C hysteresis 4+/-1C

3. Characteristics of a temperature regulator



Single-phase thermostats, universal ones. They possess an SPDT (single pole double throw) changeover contact, owing to which they can operate in a heating and cooling modes. Temperature setting by means of a scaled knob. Knob + frame to build in – as a set. Available with different regulation ranges.

■ Dane techniczne

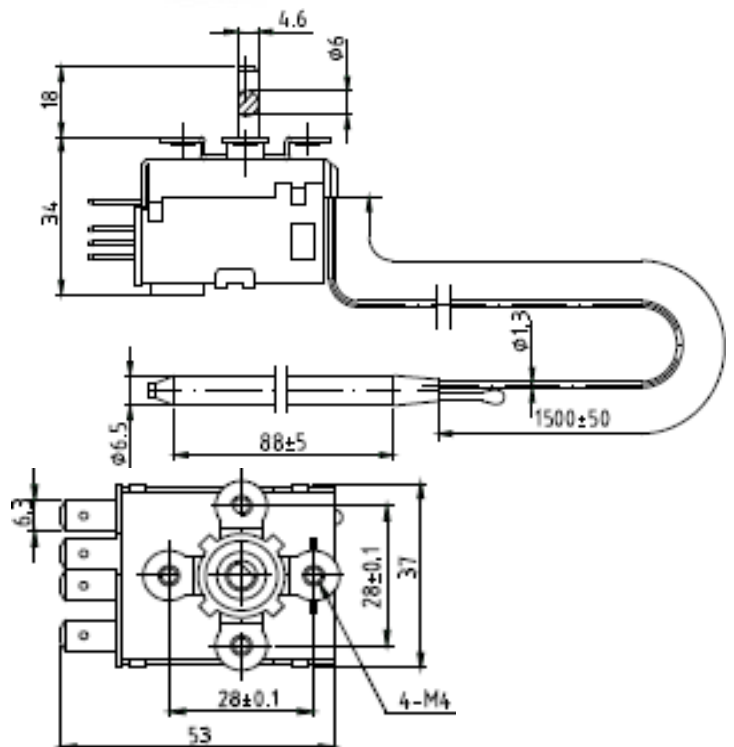
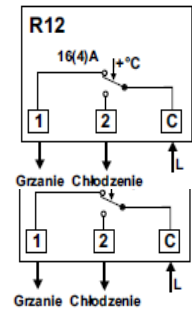
Model:	R12-1	R12-2	R12-3	R12-4	R12-5
Zakres regulacji:	-35...+35°C	0...+90°C	0...+120°C	0...+210°C	0...300°C
Histeresa:	1,5±1°C	4±1°C	4±1°C	9±2°C	10±2°C
Maks. temp. głowicy:	65°C	130°C	150°C	260°C	330°C
Wymiary głowicy:	φ6,5 L=90	φ6,5 L=90	φ6,5 L=90	φ5 L=90	φ3,5 L=100
Materiał kapilary:	mosiądz				
Długość kapilary:	1500mm				
Tryb pracy:	grzanie/chłodzenie				
Obciążalność styków:	16(4)A 250V AC; 6(1)A 400V AC				
Układ styków:	SPDT przełączne				
Złącza:	wtyk płaski 6,3 x 0,8mm				
Stopień ochrony:	IP10				

■ Sposób zamawiania

Zakres:	Kod:
-35...+35°C	1
0...+90°C	2
0...+120°C	3
0...+210°C	4
0...+300°C	5

Przykład zamówienia:
R-12-2 - Termostat jednofazowy, zakres regulacji: 0°C...+90°C.

■ Układ podłączeń



Thermostat is intended to control the devices, e.g. the pumps, trays, fans, heaters in the heating and cooling installations. Activating/deactivating of the device depending on the temperature set.

4. Coil maintenance and cleaning



Prior to the maintenance, the plug must be taken out from the mains.!

The device shall be washed with hot water with added agents permissible to be used in food industry. The device shall be washed with soft flannel fabrics, remember to protect any electrical elements. Once cleaned, rinse with pure water and dry.

The device shall be stored inside a dry room.

5. Recycling

The thermostat has been designed in order to secure its maximum length of operation. However, the device gets worn out naturally. In order to protect the environment, do not throw away the device as household waste. The device must be delivered to a proper breaking point. The thermostat has been built from recyclable materials. The cardboard packaging ought to be supplied to a waste paper bank.

6. Guarantee

Product purchased from “Łyson” 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.

Detailed guarantee terms and conditions, see www.lyson.com.pl