

MANUAL WAX EXTRACTORS



Przedsiębiorstwo Pszczelarskie Łysoń

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The following manual encompasses the devices
Bearing the following codes:

W4072, W4072_O, W4075, W4076, W4076O,

Manual

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with gas burner
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STAINLESS STEEL WAX EXTRACTORS WITH GAS BURNER (PROPANE-BUTANE)

1. General safety principles for wax extractors with gas burners

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 Usage safety

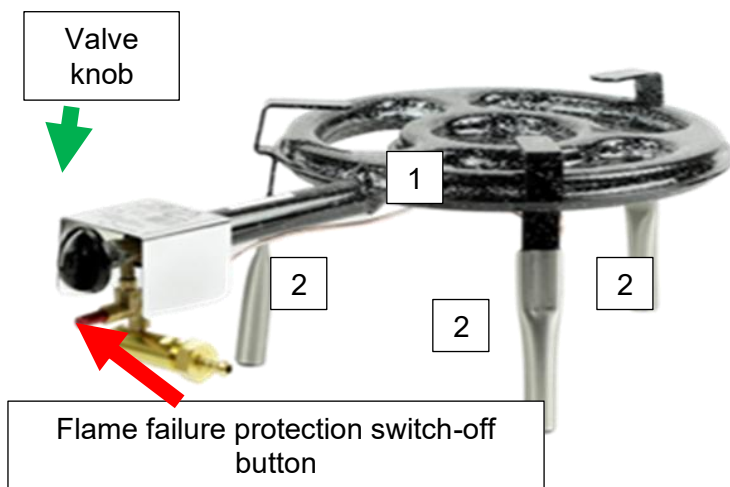
1. The following equipment is not intended to be used by persons with limited physical, sensory or mental capabilities (including children) or persons inexperienced or unfamiliar with that type of equipment unless the usage occurs under supervision or in line with the equipment operating manual provided by safety supervising persons. One must make sure that children do not play with the wax extractor
2. In case of any damage to the wax 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 when the device is in operation .
4. In case of any danger, the gas cylinder must be disconnected immediately and the operators must stay away from the device. Wax extractor will be restarted once the danger has been eliminated.



In case when the following warning has been ignored and the installation has been performed by a person devoid of the relevant qualifications, there is a risk of damage to the property, fire, explosion, suffocation or sustaining bodily injuries that might result in permanent disability!

- Once the device installation has been terminated the tightness of all connections must be checked with a tightness tester (electronic or in the form of soapsuds) *Under no circumstances must fire be used to test the tightness!*

2. OPERATING A GAS STOOL



Stool technical specification:

Power: 9,3 kW.

Material: Ceramics.

Height of the top edge without legs / with legs: 120 / 190 mm.

Spark gap: no.

Flame failure protection: yes.

Rings diameter 150 and 300 mm.

The knob allows precise regulation of heat and flame distribution.

In order to connect the propane butane, it is necessary to use a propane butane reducer (not included in the set - available in the offer - Code: REDB,

Name: GAS CYLINDER REDUCER).

2.1. STOOL ASSEMBLY

1. Gas stool
2. Legs

The legs are used to increase the height of the stool (by 7 cm). They are applied as in the picture above.

2.2. CONNECTING THE CYLINDER TO THE STOOL

(A). The gas cylinder should be positioned vertically at a distance of at least 1.5 metres from the appliance.

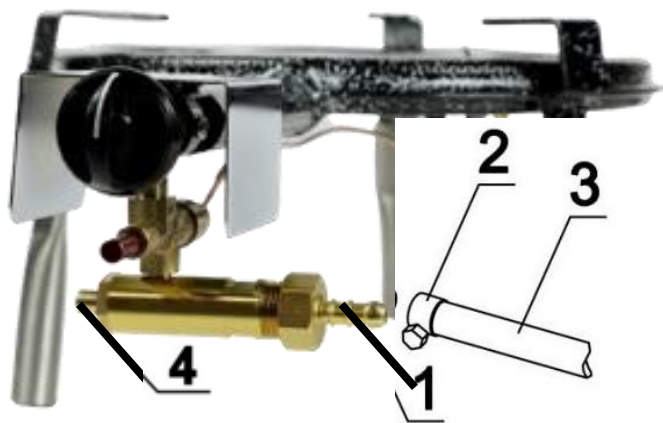
(B). The approved propane-butane gas hose (pos. 3) must be inserted into the connection coupling (pos. 1) and the gas regulator coupling.

(C). Check carefully that you have the correct diameter of hose.

(D). Make sure the hose is fixed very tightly.

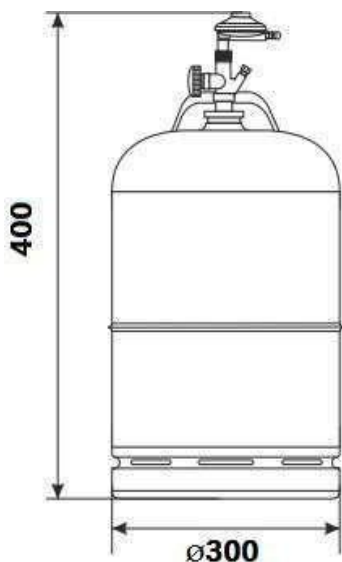
(E). Then apply hose clamps (pos. 2) to secure the hose to the connection port and the gas regulator port, and tighten them with a screwdriver or spanner.

(F). After the installation is complete, perform a leak test using a soapy water solution or an electronic gas tester.



PROPANE BUTANE

1. Connecting spigot Ø 10 mm
2. Hose ties
3. Certified gas hose for propane-butane
4. Spigot to check the pressure



Assembly manner for propane-butane reducer

Due to high power of the device, any operations with a valve, e.g. reducing, increasing, closing the gas supply, ought to be performed slowly. Otherwise, the flame may retract to the nozzle. If that has occurred, gas supply must be closed immediately. The stool is to be restarted after 2 minutes.

2.3. DEVICE ACTIVATION

Once the stool has been properly connected to the cylinder, the following actions must be performed: Press the switch-off button for the flame failure protection (thermocouple - see red arrow in the following figure). Then, keeping the off button pressed, also press the valve knob and slowly turn it counterclockwise by about $\frac{1}{4}$ turn (see green arrow in the figure below). Keeping the button and knob pressed, light the gas and once lit, wait 5 seconds (for the thermoelectric cable to start working), then release the button (activating the flame failure protection) and knob and adjust the flame to the desired size (using the knob).



2.4. DEVICE DEACTIVATION

After operations, turn the valve into position „●“ (for the starting position, see the green arrow in the figure above).

WARNING! After usage, the device must always be cleaned. Prior to cleaning, make sure that the gas stool has cooled down – there is a risk of burns. Close the gas supply by tightening the taps. When the device is to be rotated while cleaning, disconnect the gas supplying hose

- (A). Prior to the maintenance, switch the device off and disconnect the gas supply hose.
- (B). Make sure the device has cooled down.
- (C). In order to prevent the device surface, clean it regularly.
- (D). Fat or food residues inside the device may cause a fire.
- (E). Clean the device with a wet cloth.
- (F). Apply the neutral cleaning agents only. The stool cannot be cleaned with abrasive agents, containing corrosive substances, bleaches or acids, avoid using acidic or alkaline substances (lemon juice, vinegar, etc.)
- (G). Do not clean the device with steam cleaners,
- (H). When cleaned, the device must be dried.

3. PERIODICAL CHECKS

Once the guarantee period has terminated, the device ought to be inspected at least once a year. Periodical checks must be performed by the persons qualified for repairs and maintenance of gas devices. The minimum range of the periodical check must include checking for proper operation, maintenance of the gas valves and gas tightness test. Periodical checks are not included into the costs of purchasing the device when performed outside the guarantee period.

4. OPERATION DESCRIPTION OF A WAX EXTRACTOR WITH A GAS BURNER

1. Fill the tank with water until the level of the discharge pipe, as in the figure (Fig. 1). Water losses must be completed (take special precautions not to get burnt).
2. Fill the basket with frames or dried honey. .
3. Cover the device with a lid.
4. Place the burner under the device in such a way to make the flame heat the entire surface of the device bottom.
5. Wait until steam is formulated and melted wax flows out.
6. After the batch has been melted, check the water level and make up for the potential losses.
7. Add the frames or dried honey in the basket.
8. Steps 6 and 7 to be repeated until extraction has been terminated
9. **Once the process has ended, the burner must be switched off and the gas cylinder closed.**
10. Remove the marc wax from the basket and prepare it for reuse. .
11. 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.
12. Water is to be added through the inlet, see Fig no



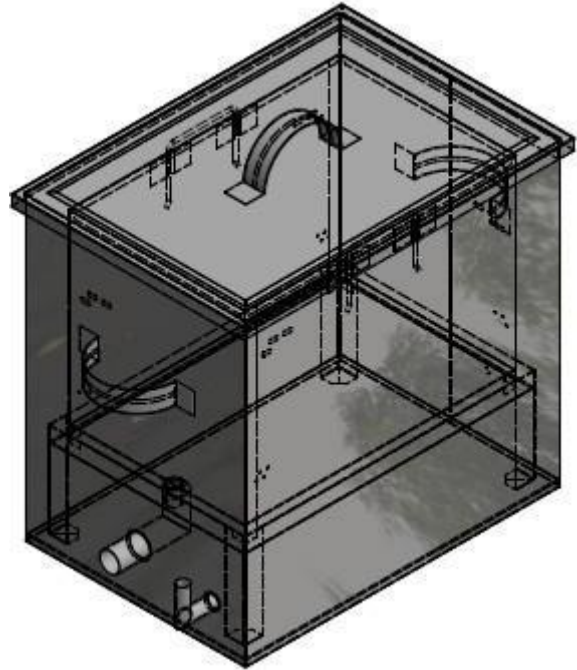
Fig. 1

Top up the water level up to the draining (pipe)
Fill up with water during operation.
Using a funnel, pour through the control opening
in order not to lose heat inside the melter
and to avoid scalding by hot steam.

5. Characteristics of the wax extractors

Devices intended to extract wax from beehive frames or dried honey by means of steam method. They consist of external tank, containing water, and the basket holding the frames or dried honey. Additional equipment includes a gas stool, owing to which steam is formulated by heating the water tank.

5.1. Wax melter with gas stool, small – W4075



Device parameters:

- material– stainless steel
- thickness 0.8 mm, bottom 1mm

Tank external dimensions:

- length - 515 mm, width - 360 mm, height - 495 mm

External dimensions of the frame basket

- length – 455 mm
- width - 285 mm
- height – 330 mm
- discharge diameter - 1"

GAS STOOL (Code: 43190001,

Name: GAS STOOL L-30 PRESSURE 28-37
MBAR):

Length – 610 mm, width - 330 mm,
height – 120 mm

Additional equipment (not included in the set, available in the offer):

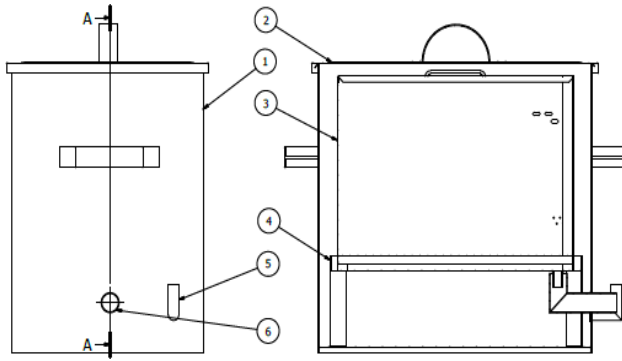
- (Code: REDB, Name: GAS CYLINDER REDUCER)
- (Code: OPCJA_TM, Name: SEALING RING FOR WAX MELTER W4075)

Power supply – propane-butane (not included in the set, and in the offer).

Capacity for entire frames:

- 8 frames Dadant hoffman
- 11 frames Dadant ordinary
- 8 frames Wielkopolska hoffman
- 11 frames Wielkopolska ordinary
- **Extended Warsaw frame DOES NOT FIT INTO**
a small wax extractor

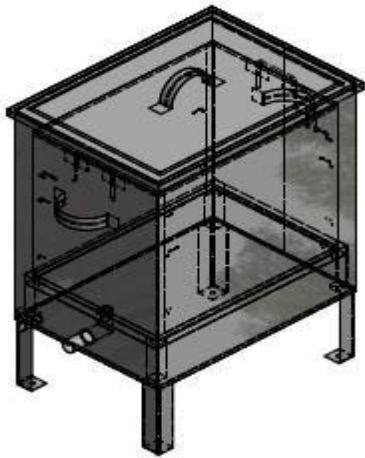
5.1.1. Diagram for a small wax extractor



Legend

1. Wax extractor tank
2. Wax extractor lid
3. Frame basket
4. Basket base
5. Pipe for water level
6. Wax discharging pipe

5.2. Wax melter with gas stool, large - W4076



Device parameters:

material – stainless steel
thickness 0.8mm, bottom 1mm

Tank external dimensions:

- length - 580 mm
- width - 420 mm
- height - 600 mm
- discharge diameter - 1"

External dimensions of the frame basket:

- length – 530 mm
- width - 335 mm
- height – 440 mm

Total height of the device 820 mm

PADS (Code: P_AMWO, ANTI-VIBRATION PAD)

GAS STOOL (Code: 43190001,

Name: GAS STOOL L-30 PRESSURE 28-37

MBAR):

Length – 610 mm, width - 330 mm,

height – 120 mm

Additional equipment (not included in the set, available in the offer):

- (Code: REDB, Name: GAS CYLINDER REDUCER)
- (Code: OPCJA_TD, Name: SEALING RING FOR WAX MELTER W4076)

Power supply – propane-butane (not included in the set, and in the offer).

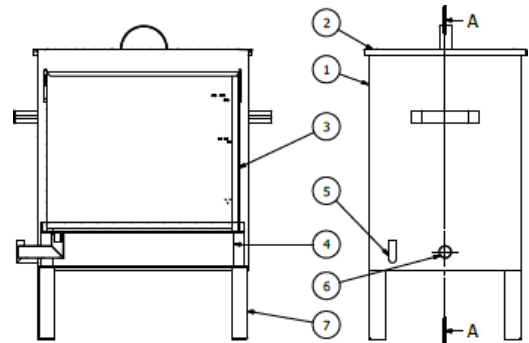
Capacity for entire frames:

- 10 frames Dadant hoffman
- 14 frames Dadant ordinary
- 15 frames Wielkopolska hoffman
- 21 frames Wielkopolska ordinary
- 15 frames Extended Warsaw hoffman
- 21 frames Extended Warsaw ordinary

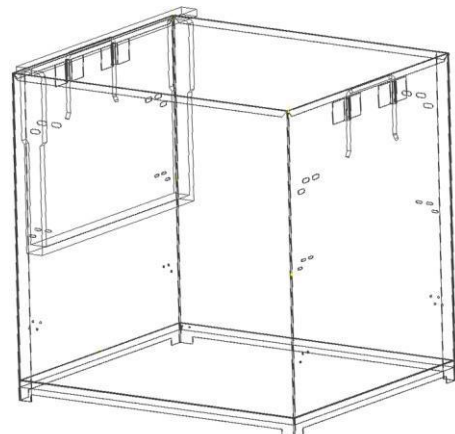
5.2.1. Diagram for a big wax extractor

Legend

1. Wax extractor tank
2. Wax extractor lid
3. Frame basket
4. Basket base
5. Water level pipe
6. Wax discharging pipe
7. Wax extractor legs

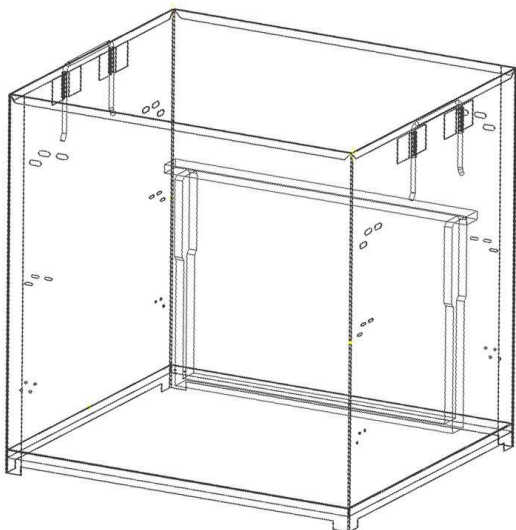


5.2.2. Placing the frames in the basket with selected arrangement



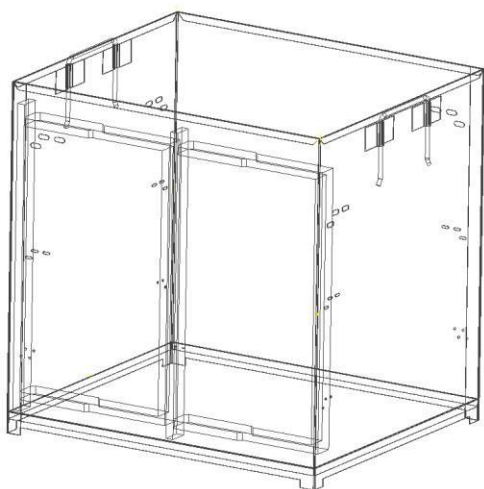
Arrangement 1.

Frame type	The number of frames fitting into the basket
Dadant	14 Hoffman-type frames
Extended Warsaw type	14 Hoffman-type frames
Warsaw ordinary type	14 Hoffman-type frames
Wielkopolska, Ostrowska's	14 Hoffman-type frames



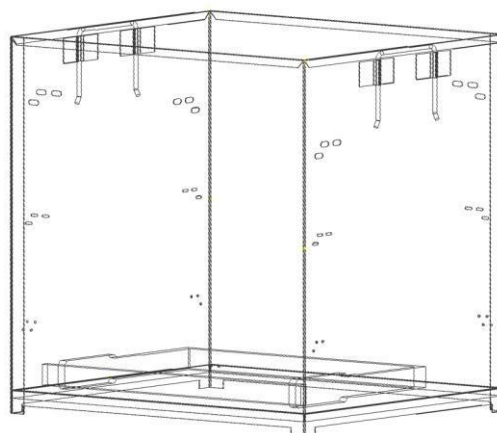
Arrangement 2.

Frame type	The number of frames fitting into the basket
Dadant	14 Hoffman-type frames
Extended Warsaw type	14 Hoffman-type frames
Warsaw ordinary type	14 Hoffman-type frames
Wielkopolska, Ostrowska's	14 Hoffman-type frames



Arrangement 3.

Frame type	The number of frames fitting into the basket
Wielkopolska, Ostrowska's	20 Hoffman-type frames

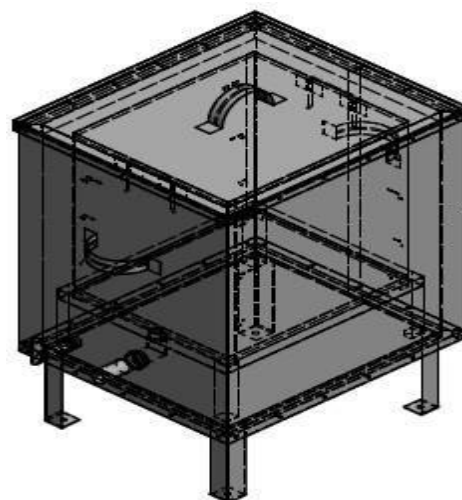


Arrangement 4.

Frame type	The number of frames fitting into the basket
Dadant	12 Hoffman-type frames
Extended Warsaw type	12 Hoffman-type frames
Warsaw ordinary type	12 Hoffman-type frames
Wielkopolska, Ostrowska's	12 Hoffman-type frames

5.3. Wax melter, insulated - W40760

The sides of the device are thermally insulated with mineral wool, which increases the device's operational efficiency.



Device parameters:

- material – stainless steel

External dimensions of the tank:

- length - 585 mm, width - 515 mm, height - 808 mm, discharge diameter - 1"

Dimensions of the frame basket:

- length – 450 mm, width - 375 mm, height – 430 mm

External dimensions

- length - 520 mm, width – 455 mm, height - 610 mm

PADS (Code: P_AMWO, ANTI-VIBRATION PAD)

GAS STOOL (Code: 43190001,

Name: GAS STOOL L-30 PRESSURE 28-37

MBAR):

Length – 610 mm, width - 330 mm, height – 120 mm

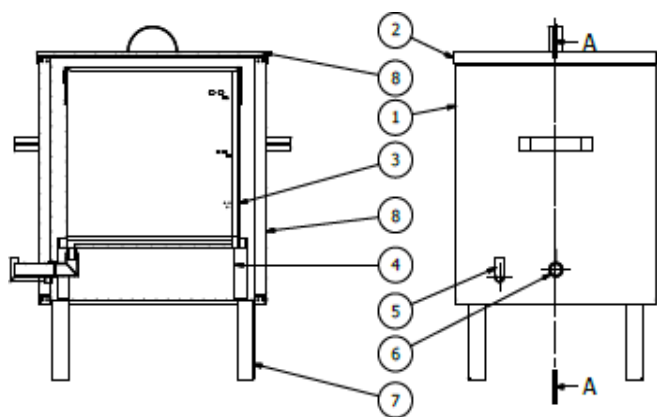
Additional equipment (not included in the set, available in the offer):

- (Code: REDB, Name: GAS CYLINDER REDUCER)

Power supply – propane-butane (not included in the set, and in the offer).

Capacity for entire frames:

- 10 frames Dadant hoffman
- 15 frames Dadant ordinary
- 13 frames Wielkopolska hoffman
- 18 frames Wielkopolska ordinary
- 13 frames Extended Warsaw hoffman
- 18 frames Extended Warsaw ordinary

5.3.1. Diagram for wax extractor – big , insulated**Legend:**

- Wax extractor tank
- Wax extractor lid
- Frame basket
- Basket base
- Water level pipe
- Wax discharging pipe
- Wax extractor legs
- Wax extractor insulation

Device parameters :

- material – stainless steel
- power supply – propane-butane gas
- discharge diameter – 40 mm – 2 pcs
- water inlet diameter - 25 mm

5.4. Wax melter for 100 Dadant frames - W4072

The device is intended to extract wax from the beehive frames or dried honey by means of a steam method. It is recommended for big apiaries.



- thickness 0.8 mm, bottom 2 mm

Water tank dimensions:

- tank external height 830 mm
- tank external width 1154x1154 mm

Dimensions of the frame basket:

height 410 mm, width 1000 x 1000 mm

GAS STOOL (Code: 43190001,

Name: GAS STOOL L-30 PRESSURE 28-37

MBAR):

Length – 610 mm, width - 330 mm, height – 120 mm

Wheels included.

Additional equipment (not included in the set, available in the offer):

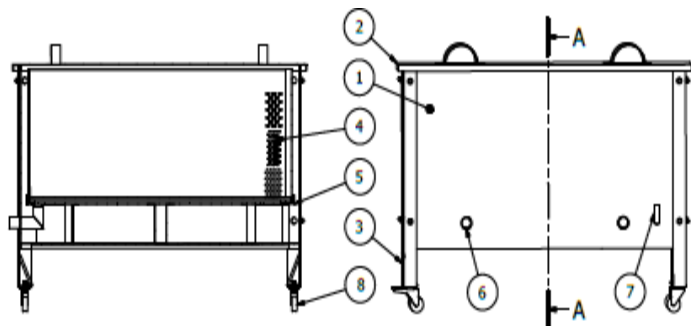
- (Code: REDB, Name: GAS CYLINDER REDUCER)
- Second gas stool

Power supply – propane-butane (not included in the set, and in the offer).

Capacity for entire frames:

- 84 frames Dadant hoffman
- 117 frames Dadant ordinary
- 84 frames Wielkopolska hoffman
- 117 frames Wielkopolska ordinary
- 84 frames Extended Warsaw hoffman
- 117 frames Extended Warsaw ordinary

5.4.1. Diagram for wax extractor – 100 Dadant frames



Legend:

1. Wax extractor tank
2. Wax extractor lid
3. Wax extractor legs
4. Frame basket
5. Basket base
6. Was discharging pipe
7. Water level pipe
8. Wheels

5.5. Wax melter, very large, stainless, insulated, for 100 Dadant frames + gas stool free - W4072_O

The sides of the device are thermally insulated with mineral wool, which increases the device's operational efficiency.

Device parameters :

- material – stainless steel
- power supply – propane-butane gas
- discharge diameter – 40 mm – 2 pcs
- water inlet diameter - 25 mm

Water tank dimensions:

- tank external height 825 mm
- tank external width 1165x1165 mm

Dimensions of the frame basket:

height 410 mm, width 990 x 990 mm

GAS STOOL (Code: 43190001,

Name: GAS STOOL L-30 PRESSURE 28-37

MBAR):

Length – 610 mm, width - 330 mm, height – 120 mm
Wheels included.

Additional equipment (not included in the set, available in the offer):

- (Code: REDB, Name: GAS CYLINDER REDUCER)
- Second gas stool

Power supply – propane-butane (not included in the set, and in the offer).

Capacity for entire frames:

- 84 frames Dadant hoffman
- 117 frames Dadant ordinary
- 84 frames Wielkopolska hoffman
- 117 frames Wielkopolska ordinary
- 84 frames Extended Warsaw hoffman
- 117 frames Extended Warsaw ordinary

6. Cleaning and maintenance

Prior to every season, an additional inspection must be performed for technical issues and in case any fault has been detected, a service point must be contacted

Wax extractor must be cleaned thoroughly after use with hot water containing slight quantities of agents permitted to be used for cleaning the devices coming in contact with food, or by means of a pressure washer.

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. Warranty

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