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TECHTRON Honey Extractors instruction manual

Thank you for choosing Techtron Beekeeping Equipment! Please feel free to contact us using our contact details. We are always delighted to hear your opinion about your experience with our equipment. Your feedback is very important to us; therefore, we do our best to take it into consideration during production and product development. We hope that you will find the extraction process enjoyable. Happy Beekeeping! Thank you from Techtron UK.

All Techtron honey extractors come with a 2-year warranty. Please refer to Warranty terms and condition document for more details. Please read this document regarding the type of extractor you purchased before using the equipment.

Installation:

After removal of the transportation packaging, please check the unit for any fastenings, packaging pieces, and remove them. If possible, place the machine on a smooth and flat surface. Make sure that neither the mechanics nor the electronics have been damaged. We recommend that you clean the extractor before use. You can improve the stability of the machine during operation by fixing it to the floor (bolt holes are provided in each leg) or by placing rubber vibration pads under the bases of each foot which are sold separately. Check that all fixings are tight, as these may have become loose in transport.

Digital Controllers:

The operating mode of digital controllers are factory-set for each specific type of extractor; please refer to user manual relevant to your extractor on pages 3-7 of this document. Depending on the voltage of your extractor, please ensure that the unit is plugged into a suitable outlet.

Checking the belt and the Motor:

Check the pulley at the bottom of the unit to ensure the secure fastening on the central shaft. Check pulleys to ensure that they are in line and the belt is not twisted, also check the belt for tightness. Connect the machine to proper power supply (12V or 220V). For 220V power supply, make sure the power supply is grounded, to protect yourself and extractor. Only use power supply suitable for the design of the machine. Improper use (overvoltage or low voltage) may damage the electronics. On manually driven machines the driving arm is mounted in a reversed position to avoid damages during transportation. Return it into its proper direction by loosening the retaining screw and fasten it before putting into use.

Honey draining:

During the operation of the machine the extracted honey is collected at the bottom of the extractor. This can be drained by opening the honey drain valve(s) on the front or side of the extractor. Place a suitably sized container under the valve. Ensure honey is drained before it reaches the lower bearing to prevent damage to the control unit and bearings

Important:

If the level of honey collecting in the container reaches the lower bearing, it will interfere with the movement of the bearings when it penetrates it. This will prevent the correct running of the inner part of the extractor and may even result in the damage of the control unit electronics. Please start to drain the honey extracted during extraction process to prevent this from happening.

Extractors with safety microswitch

The electric extractors are provided with a safety microswitch. This microswitch turns off the extractor when the lid is opened during the use. Do not tamper with the safety microswitch, as it is designed to shut off the extractor when the lid is opened for user protection.

Cleaning and maintenance

No special preparation is required for general cleaning. After removal of the honey, clean the unit with warm water or use a jet washer after opening the lid of the unit. Always remove the lid before performing the annual cleaning of the honey extractor. It is fixed by screws on opposite sides. After removing the screws, remove the pulley retained by a screw on the central shaft from the bottom of the machine. Then the honey extractor basket can be pulled from the barrel together with the central shaft. After washing, use a soft cloth to wipe the interior of the machine.

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Operation:

TANGENTIAL EXTRACTOR

These extractors are suitable for the simultaneous extraction of 2, 3, 4, 6, 8, 10 and 12 frames. Always make sure that the frames are balanced when placed inside the extractor. Frames that have the same weights should be inserted into the machine on the opposite side to each other. This will increase the stability of the machine! Insert the frames onto the frame holders and start the extraction process. Please operate the machine at a low speed at the beginning to gradually reduce the amount of honey on the first side of the frame. Too fast speed at the beginning may cause the frames to burst out, which may result in damage to the extractor. These extractors are able to remove the honey from one side of the frames in one direction. Then stop the machine (by turning the driving arm in the opposite direction on units provided with manual driving arms), reverse the frames, and extract the other side of the frame. You should never be operating the equipment at the maximum speed. If you purchased an electric tangential honey extractor, please refer to **USER MANUAL FOR ELECTRIC RADIAL AND TANGENTIAL EXTRACTORS 12/220V** on Page 3 of this document. The extractor must come to a complete stop before changing the spin direction.

RADIAL EXTRACTOR

The frame holders are mounted on both the bottom and at the top of the inner rotating basket of the radial extractor. Place the frames into the extractor by inserting the top bar of the frames between the lugs on the lower ring and the upper ring. The inner ring of the basket holds the lower part of the frame, which must be inserted also between the lugs. After inserting the frames, you can start the extraction process. Always make sure that the frames are balanced when placed inside the extractor. Frames that have the same weights should be inserted into the machine on the opposite side to each other. This will increase the stability of the machine! We advise to operate the machine at a low speed at the beginning and gradually increase the speed to reduce the amount of honey left in the frame. Too fast a speed may cause the frames to burst, which in turn may result in additional damage to the extractor. You should never be operating the equipment at the maximum speed. If you purchased an electric tangential honey extractor, please read **USER MANUAL FOR ELECTRIC RADIAL AND TANGENTIAL EXTRACTORS 12/220V** on Page 3 of this document. The extractor must come to a complete stop before changing the spin direction.

CASSETTE EXTRACTOR

Carefully place the frames into the frame holder cassettes. Always make sure that the frames are balanced when placed inside the extractor. Frames that have the same weights should be inserted into the machine on the opposite side to each other. This will increase the stability of the machine! Then close the lid and start the program (see the [cassette honey extractor digital controller user manual](#) for more information). During the operation time of the selected programs, the operator does not require any special actions.

Cassette centrifuge change the direction of rotation by default. The system rotates in the first program in one direction to carefully extract the honey from one side of the frame (to make the frame lighter). After changing the direction, the machine completely pulls out the other side of the frame with an automatically adjusted rotation speed. This process is repeated once more in the third and fourth programs. The set rotation speed can be changed. Please read **USER MANUAL FOR ELECTRIC CASSETTE EXTRACTOR DIGITAL CONTROLLER** or **USER MANUAL FOR ELECTRIC CASSETTE EXTRACTOR DIGITAL CONTROLLER WITH LARGE SCREEN** on pages 4 to 7.

Our recommendation is to leave the rotation speeds on the factory settings. If you still want to change speeds, the first two programs should be slower (while the frames are heavy and full of honey) and the other two programs should be faster. You should never be operating the equipment at the maximum speed. The extractor must come to a complete stop before changing the spin direction.

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USER MANUAL FOR ELECTRIC RADIAL AND TANGENTIAL EXTRACTORS 12/220V

BUTTON FUNCTIONS:

- **TIME - / TIME +** Increases and decreases work time of the extractor
- **SPEED - / SPEED +** Increases and decreases work speed of the extractor
- **DIRECTION** Sets the spinning direction of the extractor
- **MEMORY** Saves the set time and speed of the extractor
- **STOP** Stops the extractor
- **START** Starts the extractor



1. After plugging in the extractor, turn on the extractor with the switch on the side of the automatic, and the screen turns on, showing the data about Techtron company. After a few seconds, the set time is shown on the screen. By pressing buttons **Time-/Time+** you can set the desired work time of the extractor (10 seconds apart).
2. Using buttons **Speed-/Speed+** you set the desired work speed of the extractor (from 10% to 100%). When you are finished with setting the time and speed of the extractor, by pressing button **Start**, you start the extractor, and set work time is shown on the screen, beginning to count down from the set value to zero.
3. Direction of spinning of the extractor can be changed by pressing **Direction Button**, but only when the extractor comes to a full stop.
4. If you want to save the set work time and speed, you can do that by pressing **Memory Button**.
5. Pressing the **Stop Button**, stops the extractor.
6. Pressing the **Start Button**, starts the extractor.

Before starting the extractor, make sure that the motor, on the bottom of the extractor, is connected as shown on the picture:



]

Also make sure that the micro switch is connected with the automatic, as shown on the picture:



Before changing the spinning direction of the extractor, you must make sure the extractor has come to a complete stop!



USER MANUAL FOR ELECTRIC CASSETTE EXTRACTOR DIGITAL CONTROLLER

BUTTON FUNCTIONS:

- **SPEED - / SPEED +** Increases and decreases work speed of the extractor
- **TIME - / TIME +** Increases and decreases work time of the extractor
- **PROG / NEXT** Button for programing of parameters of automatic work regime and down movement in the program menu
- **MODE** Selects the desired work mode of the extractor, automatic or manual
- **START / OK** Button for starting the extractor and confirm the selected parameters.
- **STOP / BACK** Button for stopping the extractor and exiting the parameters setting



PICTURE 1

POWERING ON: To turn on the Digital Controller, press the button on the left side of the controller to ON position.

PROGRAMMING: To set up the programs press button PROG/NEXT, four menus appear: PROGRAM SET CONFIG, PICK PROGRAM SET, LANGUAGE and SERVICE, as shown on the picture below. Using button PROG./NEXT you go down the menu and using button START/OK, you select the desired menu.



PICTURE 2

Once you select menu PROGRAM SET CONFIG, the menu from Picture 3 appears.

Here you have 4 sets that you can configure. You can set speed and time for each configure set, and each configure set has 4 programs inside. When you want to configure set 1, you press button START/OK. And if you want to configure set2, you press button PROG/NEXT first and then button START/OK. Once you enter configure set1, menu from picture 4 appears. In this menu you enter the speed and time values of 4 programs P1, P2, P3 and P4 that are in configure set1. You set the speed using buttons SPEED + and SPEED - and time using buttons TIME + and TIME -. When you set the first program P1, press PROG/NEXT to set the speed and time of second program P2, and the program P3 and P4. Once you set everything press button START/OK to save the programs. The menu from picture 3 will appear. When you want to go to configure set2, press button PROG/NEXT and START/OK and set P1, P2, P3 and P4 for configure set2. Again you save with START/OK button. You repeat this for configure set 3 and configure set 4.



PICTURE 3

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Once you are finished with setting all configure sets, press button STOP/BACK to go back to menu from PICTURE 1.

To select what configure set to use, press button PROG/NEXT, and using button PROG/NEXT and START/OK enter the menu from picture 5. This is where you select what configure set you want to use. Select the ACTIVATE SET 1, ACTIVATE SET 2, ACTIVATE SET 3 and ACTIVATE SET 4 with button PROG/NEXT and START OK. The selected set will appear on picture 1, on the right side of the screen.



PICTURE 4

Press start button and work operation that consists of 4 work steps is initiated. When all the steps are over, device will inform you with single beep sound. In the case that you need to break work operation, you can stop it any time by pressing the main power supply switch.



PICTURE 5

Before starting to work with the extractor, make sure that the on the bottom of the extractor, is connected as shown on the picture:

Also make sure that the micro switch is connected with the CONTROLLER!



motor,



USER MANUAL FOR ELECTRIC CASSETTE EXTRACTOR DIGITAL CONTROLLER WITH LARGE DISPLAY

BUTTON FUNCTIONS:

- **UP-** button for moving up in the main menu
- **DOWN-** button for moving down in the main menu
- **PROG / OK-** enter the main menu
- **STOP / BACK-** stops the program/exits the main menu
- **TIME - / TIME + -** spinning time settings
- **SPEED - / SPEED + -** spinning speed settings
- **START-** starting the set program



PICTURE 1

SETTING TIME AND SPEED

By pressing the button prog/ok you enter in the main menu functions. Pressing the button prog/ok again, you enter into settings of the programs, speed and time (programs are P1,P2,P3 and P4). Again, pressing the button prog/ok you enter in settings of the first program (P1), its speed (P1 Speed) and its time (P1 time). Then by pressing the buttons Time-/Time+ you set the desired time of the first program (P1). By pressing the buttons Speed-/Speed+ you set the desired speed of the first program (P1). After setting the time and speed of the first program (P1), press prog/ok in order to save the settings of the first program (P1), and go back to the setting of the programs. Repeat the steps for every next program (P2, P3 and P4).



PICTURE 2

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After finishing the settings of each program press button stop to exit the setting of the programs.
Press button start to activate and start the first program (P1) and the machine starts.

After finishing the first program (P1), all the other programs (P2, P3 and P4) will automatically activate one after the other, after all the programs have been completed the machine stops its work.



PICTURE 3



PICTURE 4