

# HEAT PRESS

MODEL No: DE40K

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INSTRUCTION MANUAL

## CONTACT

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## INTRODUCTION

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DULYTEK DE40K hybrid heat press is an industrial strength machine engineered and manufactured for mostly commercial use in research laboratories, pharmaceutical, cosmetic, food processing, textile printing, and brewing industries.

**READ BEFORE  
OPERATING  
MACHINERY**

To avoid accidents, first read SAFETY PRECAUTIONS (PAGE 2) and HANDLING PRECAUTIONS (PAGE 4).

Read this manual carefully to ensure you use the press correctly. After reading and familiarizing yourself with the equipment, store the manual in a safe place for future references.

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NOTICE**

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**DISCLAIMER**

This unit is intended for LEGAL use only, in accordance with your federal, state, and local laws, ordinances, and regulations.

Please keep this manual in a safe place for future references.

## SAFETY PRECAUTIONS

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The following precautions are provided to prevent harm or injury to yourself and others. Please make sure to thoroughly read, understand, and follow these precautions before using the product.

## SAFETY PRECAUTIONS (continued)

If product is damaged, appears to be damaged, or malfunctions, contact DULYTEK customer service at [help@dulytek.com](mailto:help@dulytek.com).

**WARNING: Follow the warnings below. Otherwise, death or serious injuries may occur.**



- Use this product only as described in this manual.
- Keep the equipment out of the reach of children at all times.
- Unplug the heat press from the electrical outlet and let it cool down COMPLETELY before cleaning, performing maintenance, or repair.
- DO NOT operate the product after the appliance malfunctions or is dropped or damaged in any way.
- DO NOT operate the press if the plates are dirty. Clean the plates with isopropyl alcohol and wipe them dry with a clean cloth. Ensure both plates are completely dry before use.
- DO NOT immerse the press, its power cord, and plugs in water or any other liquid.
- DO NOT place the product near a hot gas or electric burner, heated oven, or any other heat source.
- DO NOT operate the product with a damaged cord or plug.
- DO NOT leave any cords near a heat source. It can deform the cord or melt its insulation causing electrical shock or fire.
- Always insert the power plug all the way in.
- DO NOT handle a power plug or other components of the press with wet hands.
- When unplugging a power cord, grasp and pull with the plug instead of the cord.
- DO NOT scratch, cut, twist, excessively bend, or tie the cord or put a heavy object on it.
- DO NOT let the power cord drape over any surface, where it can be accidentally tripped over or pulled on.
- DO NOT connect too many power plugs to the same power outlet.
- DO NOT cover the press with a cloth. Doing so may trap heat within and cause fire.
- Remove dust around the plug and power cord with a clean dry cloth. If the

## SAFETY PRECAUTIONS (continued)

- surrounding is dusty, humid, or oily, short-circuit may occur causing a fire.
- DO NOT remove the machine cover.
- DO NOT disassemble the press or make any modifications to the equipment.

## HANDLING PRECAUTIONS



- The press must be operated on a hard level surface, away from its edges to prevent accidental tipping over.
- Work area must be kept clean, tidy, and free of obstructions to the press moving parts.
- Always attach the power cord to the press first, then plug it into the wall outlet.
- To unplug the press, turn OFF the power switch, only then remove the plug from the outlet.
- DO NOT touch the press's hot surfaces. Use heat-resistant gloves or tools. Care must be exercised as serious burns can occur from touching hot plates.
- Keep your hands and other body parts away from the moving parts to prevent injury.
- This press comes with a power cord that fits into a standard household 3-prong outlet (110V American market and 220V European market). DO NOT attempt to use the equipment with a two-prong electrical cord or any other way without proper grounding.
- DO NOT exceed the rated capacity.
- Contact DULYTEK at [help@dulytek.com](mailto:help@dulytek.com) if the equipment does not start or if smoke or unusual odors are detected.
- Always turn the machine OFF and unplug it when done using.



## UNPACKING

### UNPACKING PRECAUTIONS

**WARNING: Keep the packaging materials (cardboard, foam, plastic bags, etc.) out of the reach of children to prevent accidental choking, suffocation, strangulation, and other injuries.**

Preserve the shipping container. DO NOT discard or disassemble the shipping box. It is designed to hold the weight of the product and should be used in case you need to return the equipment for repair or warranty maintenance in the future. DO NOT attempt to ship the press in a different container.

### UNPACKING INSTRUCTIONS

1. Position the box on a level, sturdy floor surface.
2. Open the box and remove the instruction manual and all parts that came with the press.
3. Remove the packaging material.
4. Remove any protective or promotional labels from the press and other parts if applicable.
5. Examine the heat press after unpacking for any damage. If found one, take a picture and contact DULYTEK at [help@dulytek.com](mailto:help@dulytek.com) immediately.

### ITEM CHECKLIST

Before starting, please make sure that the following items are included with your press machine. If anything is missing, contact DULYTEK.

1. DULYTEK DE40K Heat Press;
2. AC Power Cord;
3. Instruction Manual.

### REQUIRED EQUIPMENT

The DE40K must be used together with a standard 100 - 150 PSI pneumatic (air) compressor.

### RECOMMENDED PARTS

- The following items are recommended for use with this machine:
1. Parchment paper sheets and filter bags;
  2. Pre-press mold;

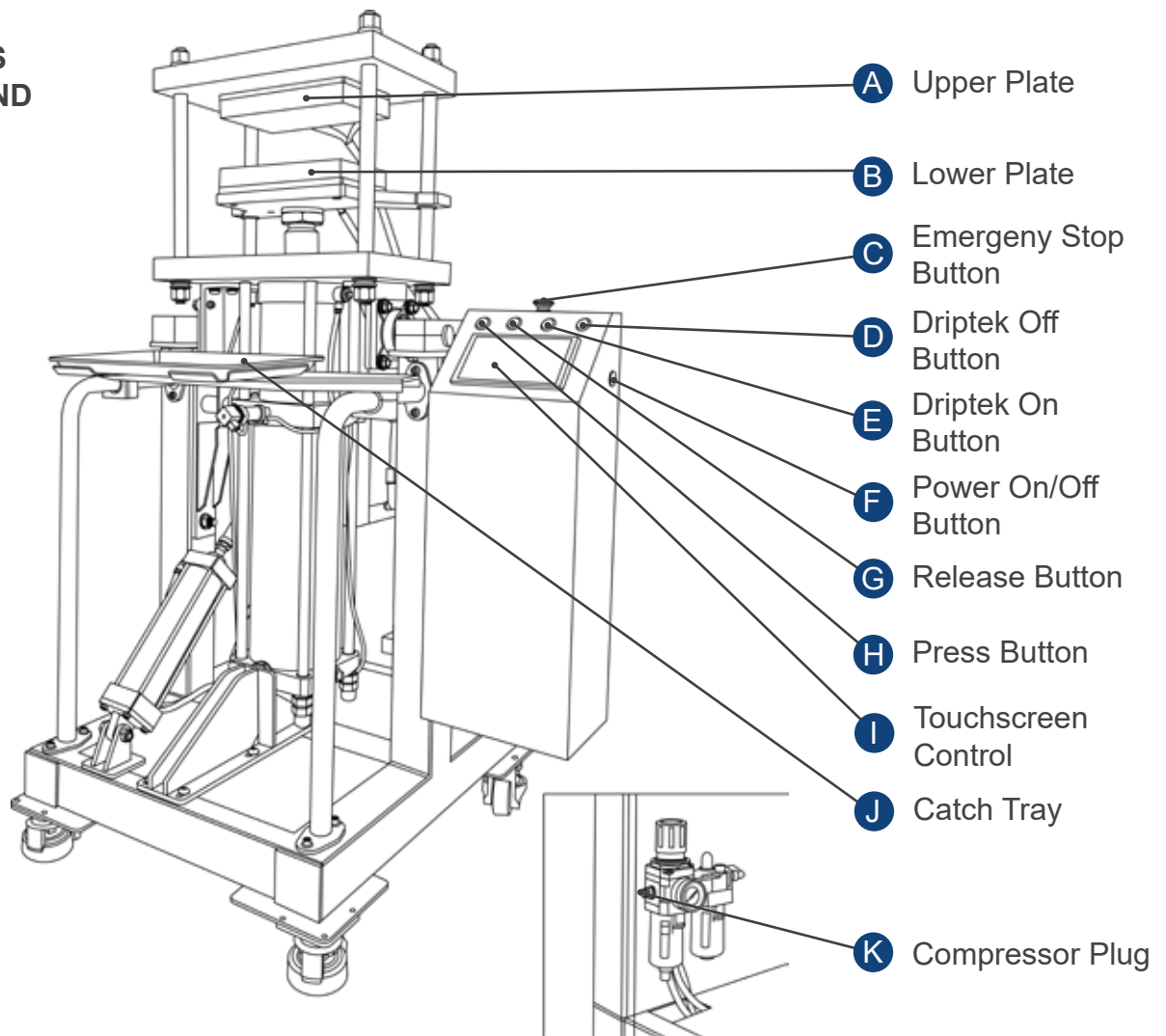
## UNPACKING (continued)

- RECOMMENDED PARTS (continued)**
3. Humidity packs;
  4. Collection tools, glass stamp, etc.

Please see PRESSING TIPS (<https://bit.ly/2YuM8pR>) for more information.

## GETTING FAMILIAR

### DE40K PRESS FEATURES AND CONTROLS



## OPERATING INSTRUCTIONS

### OPERATING WARNING

DO NOT stand close to the press when it is in an operating mode. The press plates movement and tilting may happen fast due to quick pressure buildup. Stand clear and to the right from the press (the touchscreen control side) to avoid contact with the press moving parts.

### PREPARING & STARTING PRESS

1. Make sure the press stands on a flat sturdy floor.
2. Prepare materials you wish to press. Please see PRESSING TIPS (<https://bit.ly/2YuM8pR>) for more information.
3. Ensure the press is clean and free of residue or dust buildup.
4. Connect your standard air compressor (100 - 150 PSI) to the press by attaching the air compressor hose to the press compressor plug **K**.
5. Plug both devices to electrical outlets.
6. Follow the air compressor instructions and turn it on. Let the pressure reach at least 100 PSI (100 - 150 PSI recommended range) before turning the compressor off. **Tip:** If the pressure drops below 70 PSI during the press operation, turn the air compressor on again until it reaches at least 100 PSI.
7. Turn on the DE40K by pressing Power On/Off button **F**. The touchscreen control **I** lights up.
8. Turn Emergency Stop button **C** clockwise until it pops up to make sure the press is fully activated. **Tip:** You can hit this button to stop the press and open up its plates at once at any time during its operation.
9. Check if the press plates are open. If not, press Release button **G** to open them up. Now, two buttons should be lit above the touchscreen control **I**: Release **G** and Driptek Off **D**.

### OPERATION MODES

The press comes with two operation modes: Freestyle and Automatic. Freestyle mode is ideal for creative pressing when you experiment with various parameters as you go. In this mode, you only set essentials: temperature, temperature scale (optional), and filter bag dimensions. Other parameters are controlled by you during actual pressing. Automatic mode allows you to enter not only temperature and bag dimensions but also force amount and press time. This mode is ideal when you want to minimize guesswork, know your recipe well, and want to repeat what works for you again and again.



## OPERATING INSTRUCTIONS (continued)

### FREESTYLE MODE: SETTING CONTROLS




1. Tap Menu  on the touchscreen control  (Fig. F-1) and select Freestyle  from the dropdown. Freestyle Mode - Settings screen appears (Fig. F-2).



Fig. F-1



Fig. F-2



Fig. F-3

2. Your machine comes with a factory pre-set temperature scale (Fahrenheit or Celsius). Tap the current temperature scale (Fig. F-3) in U Temp (upper plate temperature) field if you'd like to change it; if you are satisfied with the current selection, skip this step and proceed to the next one. Setting pop-up appears (Fig. F-4). Tap the screen again (Fig. F-5) to toggle



Fig. F-4



Fig. F-5

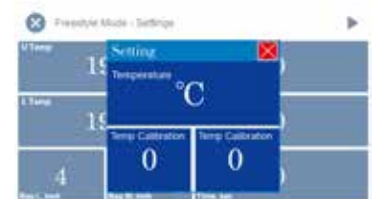


Fig. F-6


between Fahrenheit and Celsius (Fig. F-6) and make your selection. Tap Close button  on the popup to return to Freestyle Mode - Settings screen. Repeat this step on the temperature scale in L Temp (lower plate



Fig. F-7

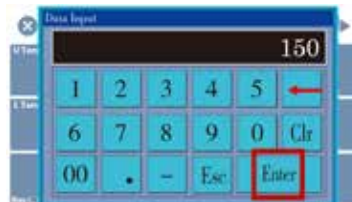


Fig. F-8



Fig. F-9

## OPERATING INSTRUCTIONS (continued)

### FREESTYLE MODE: SETTING CONTROLS (continued)

- temperature) field.
3. Tap the center of U Temp (upper plate temperature) field (Fig. F-7) and use the keypad to select your desired temperature for the upper plate. Tap Enter (Fig. F-8) to save the number and close the keypad. Your selected upper plate temperature is now shown on the screen (Fig. F-9). Repeat this step to set a desired lower plate temperature in L Temp field.



Fig. F-10

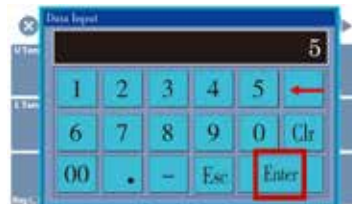


Fig. F-11



Fig. F-12

4. Tap the center of Bag L (filter bag's length) field (Fig. F-10), use the keypad to select your bag's length in inches, and tap Enter (Fig. F-11) to save the number and close the keypad. **Tip:** Round the dimension to the nearest whole number. The set bag's length is now shown on the screen (Fig. F-12). Repeat this step to set your filter bag's width in Bag W field.

### FREESTYLE MODE: PRESSING

1. Tap Next button ► (Fig. F-13). The popup appears to check if you are ready to press (Fig. F-14). Tap Yes when ready. The press starts heating. Freestyle Mode - Heating (Fig. F-15) screen is now shown. The heating indicators are displayed on the screen. The set upper and lower temperatures are shown in the right lower corner of the corresponding fields, and the live temperature readings are displayed in the center. Timer button ⏪ is activated on the screen.



Fig. F-13



Fig. F-14



Fig. F-15

## OPERATING INSTRUCTIONS (continued)

### FREESTYLE MODE: PRESSING (continued)

- When heating is done, position your material in the center of the lower plate **B**. **Tip:** Heating is done when the actual temperatures reach the set parameters and the heating indicators are turned off (Fig. F-16).
- Push Press button **H** until the plates are tightly closed and desired force and pressure parameters are shown on the screen (Fig. F-17). Press button **H** is now lit, while Release button **G** is turned off. **Tip:** Feel free to experiment with gradual pressing or rising pressure in stages to discover the best technique that works for you.



Fig. F-16



Fig. F-17



Fig. F-18

- Tap **▶** button (Fig. F-17) to start the timer counting up when you are ready. **Tip:** You can stop and start the timer at any time during pressing to record duration of the entire process or its certain part. Using timer function is recommended but not required during pressing.
- Push Driptek On button **E** until the press is tilted forward and the Driptek function is activated. **IMPORTANT:** Stand clear and to the right side of the press to avoid contact with the moving parts. Driptek On button **E** becomes lit, while Driptek Off button **D** is turned off. **Tip:** Please note that Driptek function cannot be activated unless the plates are fully closed, and you cannot use Release button **G** to open up the plates while Driptek On button **E** is activated. Using the Driptek function is optional.
- Push Driptek Off button **D** to move the press back into the vertical position when ready. The Driptek Off button **D** becomes lit, while Driptek On **E** is turned off.
- Press Release button **G** to open up the plates when done pressing. The live force and pressure numbers start dropping on the screen.
- Tap **⏸** button (Fig. F-18) to stop the timer if not done it already.
- Remove the pressed material using heat resistant gloves or other tools and exercising extreme caution.
- Follow the steps 2 - 9 to press more batches or tap **✕** button (Fig. F-19)

## OPERATING INSTRUCTIONS (continued)

### FREESTYLE MODE: PRESSING (continued)



Fig. F-19



Fig. F-20



Fig. F-21

to leave Freestyle mode if done pressing. A popup appears asking to confirm your selection (Fig. F-20). Tap Yes. The initial home page is now shown on the screen (Fig. F-21).

11. Press Power On/Off button **F** to turn off the machine. Unplug the press and compressor AC power cords from the electrical outlets.
12. Wait until the press cools down completely to clean it.

### AUTOMATIC MODE: SETTING CONTROLS

1. Tap Menu icon **☰** on the touchscreen control **I** (Fig. A-1) and select Automatic **A** from the dropdown. Automatic mode - Settings screen appears (Fig. A-2).



Fig. A-1



Fig. A-2



Fig. A-3

2. Your machine comes with a factory pre-set temperature scale (Fahrenheit or Celsius). Proceed with this step if you'd like to change it or skip to the next one if you are satisfied with the current selection. Tap the factory pre-set temperature scale (Fig. A-3) in U Temp (upper plate temperature) field. Setting pop-up appears (Fig. A-4). Tap the screen again (Fig. A-5) to toggle between Fahrenheit and Celsius (Fig. A-6) and make your selection. Tap Close button **☒** on the popup to return to Automatic Mode - Settings screen. Repeat this step to change the scale for L Temp (lower plate temperature) field.

## OPERATING INSTRUCTIONS (continued)

### AUTOMATIC MODE: SETTING CONTROLS (continued)

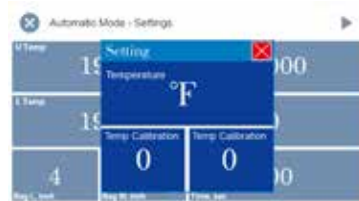


Fig. A-4



Fig. A-5

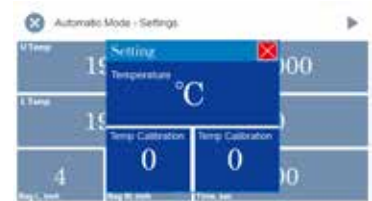


Fig. A-6

3. Tap the center of U Temp field (Fig. A-7) and use the keypad to select your desired upper plate temperature. Tap Enter (Fig. A-8) to save the number and close the keypad. Your selected temperature is now shown on the screen (Fig. A-9). Repeat this step to set up a temperature for the lower plate (L Temp field). Once done, you should see both selected temperatures on the screen (Fig. A-10).



Fig. A-7

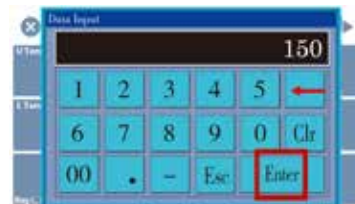


Fig. A-8



Fig. A-9

4. Tap the center of Bag L field (Fig. A-10) and enter your filter bag's length in inches using the keypad. Tap Enter (Fig. A-11) to save the number and close the keypad. **Tip:** Round the dimension to the nearest whole number. The set bag's length is now shown on the screen (Fig. A-12). Repeat this step to enter your filter bag's width into Bag W field. Once done, you should see the set dimensions in Bag L and Bag W fields (Fig. A-13).



Fig. A-10

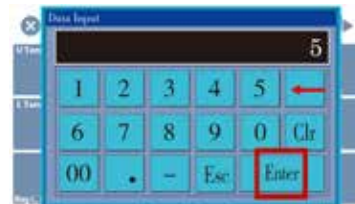


Fig. A-11



Fig. A-12

## OPERATING INSTRUCTIONS (continued)

### AUTOMATIC MODE: SETTING CONTROLS (continued)

5. Tap the center of Force field (Fig. A-13) and enter the desired press force in pounds using the keypad. Tap Enter (Fig. A-14) to save the number and close the keypad. The selected force is now shown on the screen (Fig. A-15).



Fig. A-13

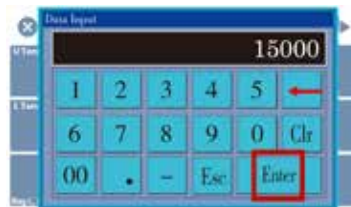


Fig. A-14



Fig. A-15

6. Now, tap the center of Time field (Fig. A-16) and enter your desired press time in seconds using the keypad. Tap Enter (Fig. A-17) to save the number and close the keypad. The set time is now shown on the screen (Fig. A-18).



Fig. A-16



Fig. A-17



Fig. A-18

### AUTOMATIC MODE: PRESSING

1. Tap Next button ► (Fig. A-19). A popup appears to check if you are ready to press (Fig. A-20). Tap Yes when ready. The press starts heating. The heating indicators are now displayed on the screen (Fig. A-21). The set upper and lower temperatures, press force, and time are now shown in the



Fig. A-19



Fig. A-20



Fig. A-21



## OPERATING INSTRUCTIONS (continued)

### AUTOMATIC MODE: PRESSING (continued)

- right lower corner of the corresponding fields, and their live readings are displayed in the center.
- When heating is done, position your material in the center of the lower plate **B**. Tip: Heating is completed when the actual temperatures reach the set parameters and the heating indicators are turned off.
  - Push Press button **H**. Press button **H** becomes lit; the force and pressure numbers start rising on the screen (Fig. A-22); Release button **G** is now turned off. When the press force reaches its set value, the press timer is activated, and the countdown starts (Fig. A-23).



Fig. A-22



Fig. A-23



Fig. A-24

- Push Driptek On button **E** until the press is tilted forward to activate Driptek function (optional). Driptek On button **E** becomes lit, while Driptek Off **D** is turned off. **WARNING:** Stand clear and to the right side of the press to avoid contact with the moving parts. **Tip:** Please note that Driptek function cannot be activated unless the plates are fully closed, and you cannot use Release button **G** to open the plates while Driptek On button is activated. Using the Driptek function is optional.
- When ready, press Driptek Off button **D** to move the press back into the vertical position and turn off this function. The Driptek Off button **D** becomes lit, while Driptek On button **E** is turned off.
- Wait until the timer countdown ends and the press starts beeping. A sound indicator also appears on the screen (Fig. A-24).
- Push Release button **G** to open up the plates. The beeping stops, and the force and pressure readings are quickly dropping on the screen until they reach zeros (Fig. A-25).
- Remove the pressed material using heat resistant gloves or other tools and exercising extreme caution.
- Follow the steps 2 - 8 to press more batches using the same recipe or tap Close button **X** (Fig. A-25) to leave Automatic mode if done pressing. A

## OPERATING INSTRUCTIONS (continued)

### AUTOMATIC MODE: PRESSING (continued)

- popup appears asking to confirm your selection (Fig. A-26). Tap Yes. The initial home page is shown on the screen (Fig. A-27).
10. Press Power On/Off button **F** to turn off the machine. Unplug the press and compressor AC power cords from the electrical outlets.
  11. Wait until the press cools down completely to clean it.



Fig. A-25

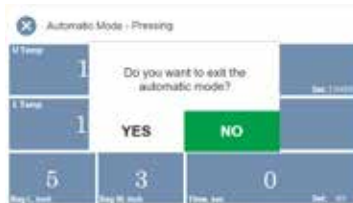


Fig. A-26



Fig. A-27

### CLEANING PRESS PLATES

We recommend cleaning the press plates after each use.

1. Make sure the press plates are completely cooled down before cleaning.
2. Apply a small amount of alcohol to a clean cloth and wipe down the plates until clean.
3. Wipe plates with a dry clean cloth.
4. Repeat these steps for cleaning all associated tools and the catch tray.

## TROUBLESHOOTING

ISSUE	CAUSE	SOLUTION
Plates are not closing	Emergency Stop button is activated	Turn Emergency Stop button clockwise until it pops up and unlocks.
	Pressure is below the optimal level	Turn on the compressor and elevate pressure in the system (100 -150 PSI)
Press plates are not opening / Release button is now working	Pressure is below the optimal level	Turn on the compressor and elevate pressure in the system (100 -150 PSI)
	Driptek function is activated	Press Driptek Off button to deactivate Driptek function
Press is not tilting forward / Driptek On button is not working	Emergency Stop button is activated	Rotate Emergency Stop button clockwise until it pops up and unlocks
	Pressure is below the optimal level	Turn on the compressor and elevate pressure in the system (100 -150 PSI)
	Plates are not closed tightly	Push Press button to close the plates



## TECHNICAL SPECIFICATIONS

PARAMETER	USA MARKET	EU MARKET
Model	DE40K	DE40K-E
Press Force	44000 lb / 20 Ton	
Power	2000 W	
Current	18.18 A	9.09A
Voltage	110 V	220 V
Frequency	50 Hz	
Dual Heating Plates	Yes	
Plates Size	10 x 6 inch / 260 x 150 mm	
Max. Distance Between Plates	3.34 inch / 85 mm	
Temperature Range	up to 356 °F / 180 °C	
Timer Range	0 - 999 sec	
Dimensions	34.3 x 29.1 x 55.1 inch / 87 x 74 x 140 cm	
Weight	605 lb / 275 kg	
Package Dimensions	39.4 x 37.8 x 62.2 inch / 100 x 96 x 158 cm	
Package Weight	682 lb / 310 kg	
Certifications	CE / RoHS	