



OPERATING MANUAL

for the modular heat presses

Secabo TC5 SMART MEMBRANE and TC7 SMART MEMBRANE

Congratulations on the purchase of your Secabo heat press!

Please read this operating manual carefully to ensure a smooth production launch with your new device.

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Secabo GmbH accepts no liability for any direct or indirect damages resulting from the use of this product.



Version 1.0 (05/01/2017)

Safety Precautions

Please read the information and safety precautions carefully prior to first commissioning of the device!

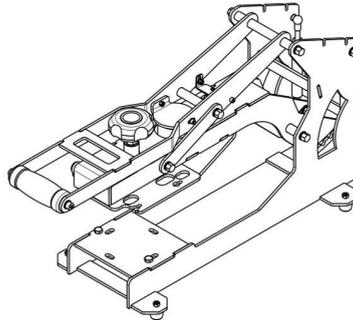
- Never reach inside the heat press with your hands when it is connected to the power supply, especially if it is switched on and heated up – danger of burns!
- Never open the casing and do not make any modifications to the unit yourself.
- Should it be necessary to open the heat plate cover upon explicit request by Secabo's customer service team, it is recommended you wear respiratory protection and only touch the insulation wool located therein using gloves. Possible disposal of the insulation wool should only be done inside a closed bag.
- Ensure that neither liquids nor metal objects reach the inside of the heat press.
- Avoid unnecessarily overinflating the membrane. Ensure the press can be closed using normal physical effort, even when the membrane is inflated.
- Make sure you use a grounded wall socket. Keep in mind that a heat press may only be operated using a wall socket equipped with a ground fault circuit interrupter.
- Disconnect the heat press from the power supply when it's not in use.
- Always ensure that the heat press is out of reach of children during operation and never leave the device unsupervised when switched on.
- Make sure the unit is only used in dry rooms.

If you cannot comply with one or more of the aforementioned safety rules, or if you are unsure as to whether you're in compliance with all of the points, please contact our technical support.

Items included

Mechanical base of the heat press

heat press base

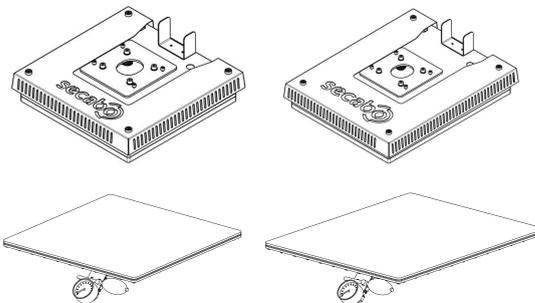


Heat plate and base plate as well as membrane base plate

HP5 - 38cm x 38cm

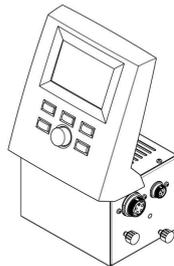
or

HP7 - 40cm x 50cm
depending on the model

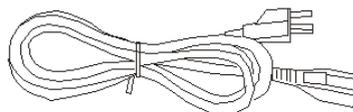


Controller box

HPC01



C13 Cold device cable



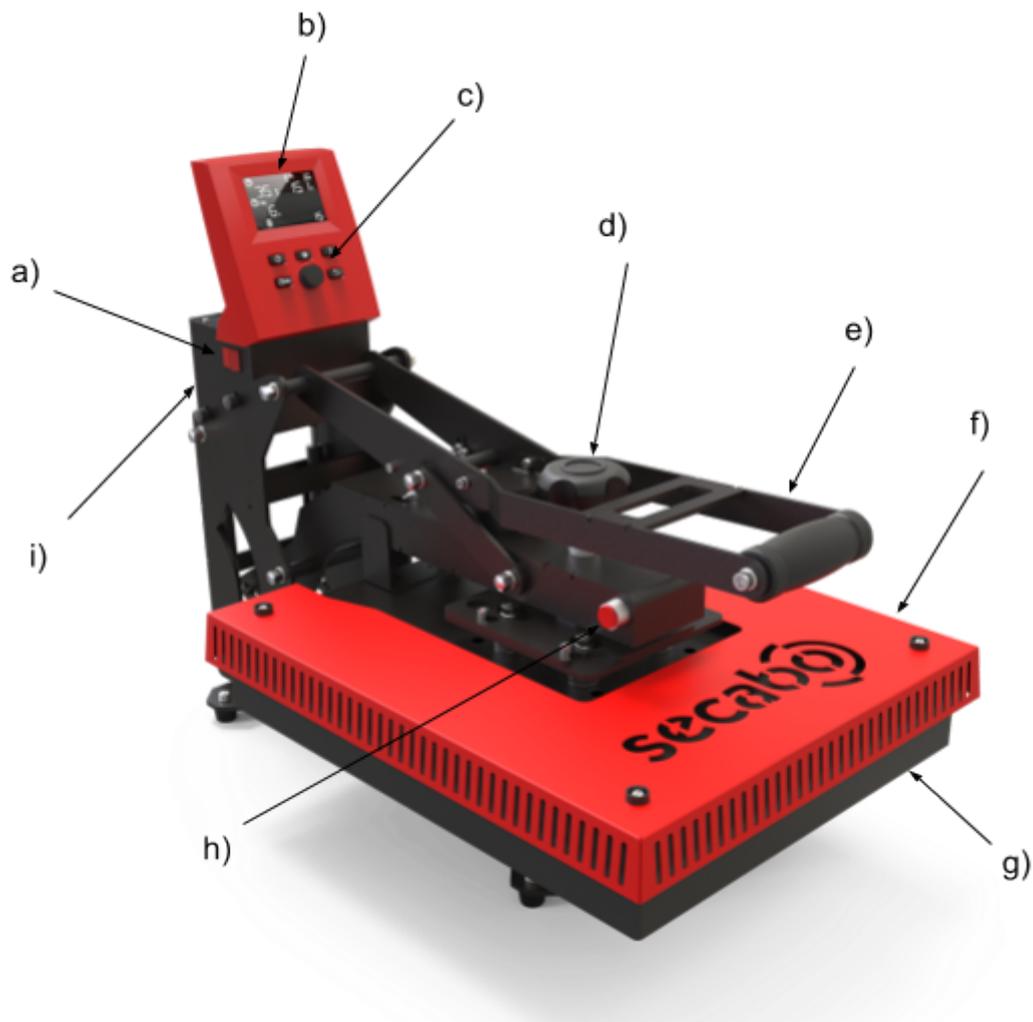
Size 5 Allen key for M6 inner hexagonal screws



Spanner 13 for M8 hexagon screws



Machine description

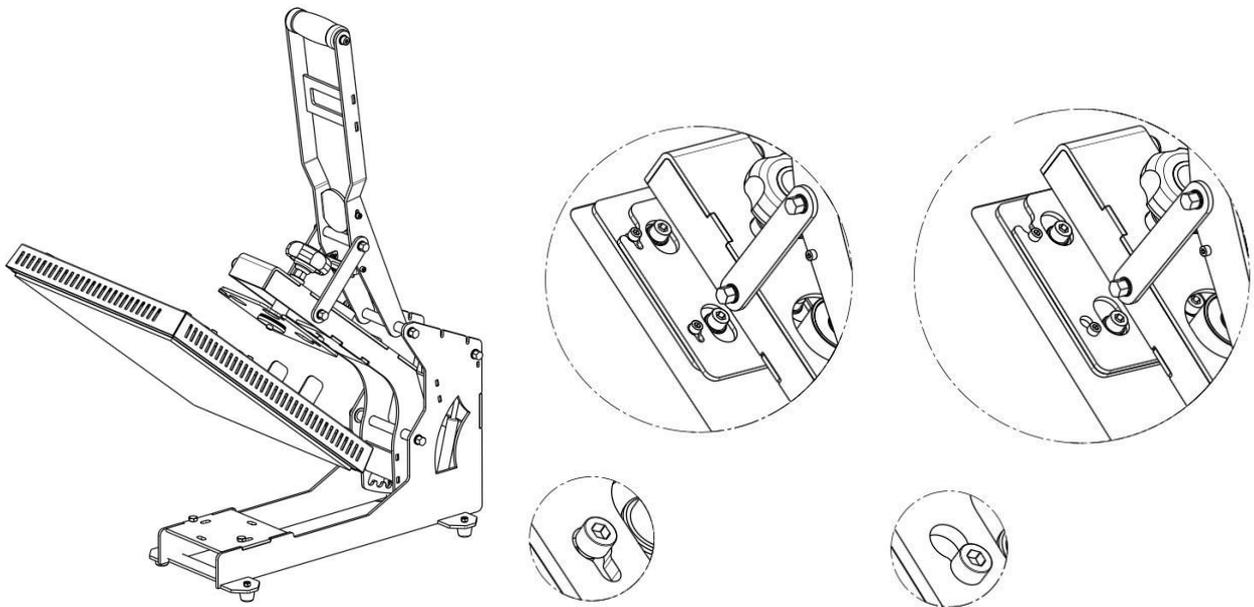


- a. Main switch
- b. Liquid Crystal Display (LCD)
- c. Control panel with buttons and rotary push setter
- d. Hand wheel for pressure adjustment
- e. Press lever
- f. Heat plate cover and heat plate
- g. Base plate or membrane base plate (not depicted)
- h. Button for manually opening the press
- i. IEC socket and internal connections (not depicted)

Installation and commissioning

Heat plate installation

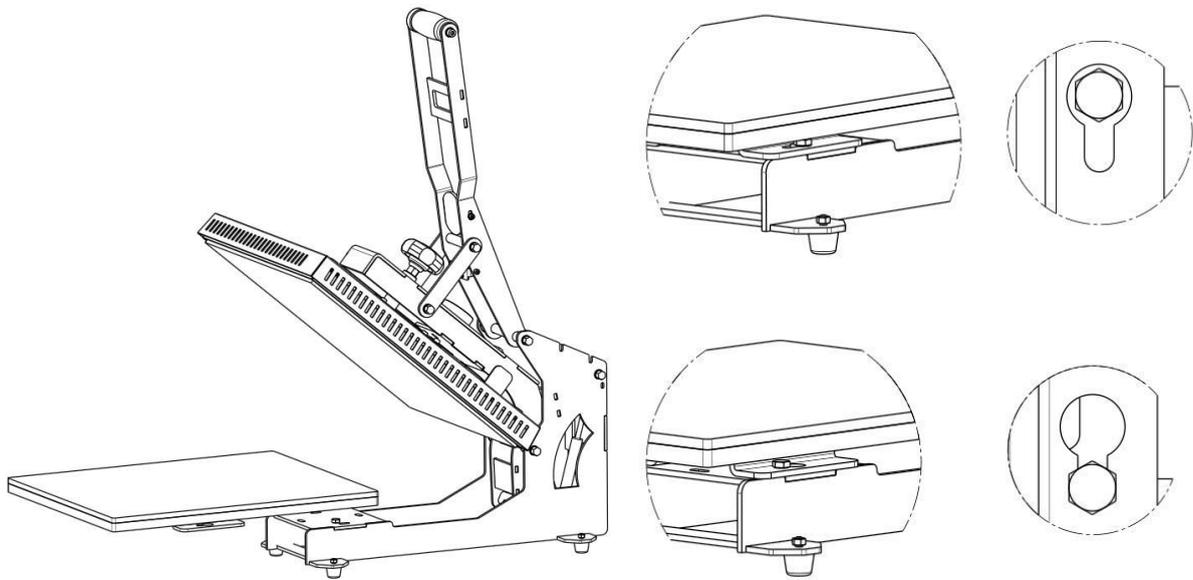
- Safely set up the base frame **heat press base** of the TC5 SMART MEMBRANE or TC7 SMART MEMBRANE heat press on a sturdy table.
- Open the press lever at the **heat press base** in such a manner that it points steeply upwards.
- Position the heat plate **HP5** or **HP7** - depending on the model - in front of the connecting flange below the press lever on the **heat press base** at a slant and thread the 4 outer screws heads into the keyhole grooves on the flange plate.



- Carefully tighten the screws using the included Allen key. **Attention: As long as the screws are not properly tightened, the heat plate may fall down! Risk of injury!**

Installation of a conventional base plate

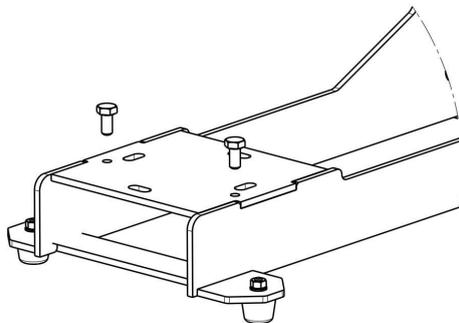
- Lift the supplied base plate over the **heat press base's** socket and thread the screw heads of the hexagon screws through the keyhole grooves on the black adapter plate at the bottom side of the base plate.



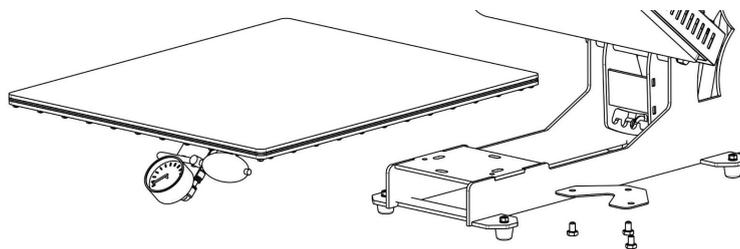
- Tighten the 4 Allen screws using the supplied size 13 spanner.

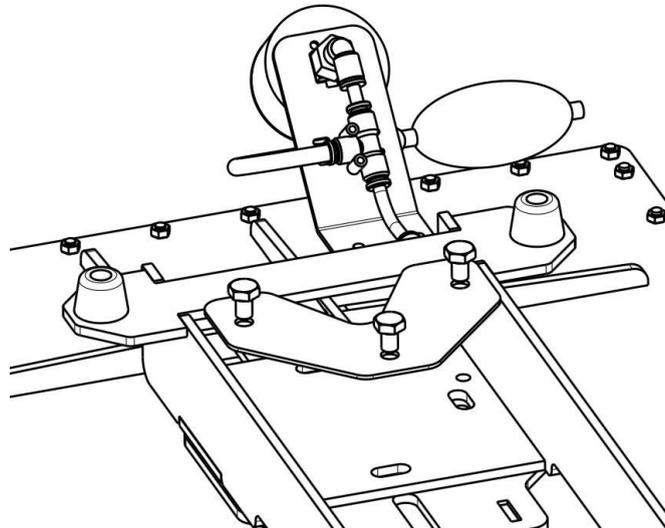
Installation of a MEMBRANE base plate

- Begin by removing both hexagon screws in the socket of the TC5 SMART MEMBRANE or TC7 SMART MEMBRANE heat press.



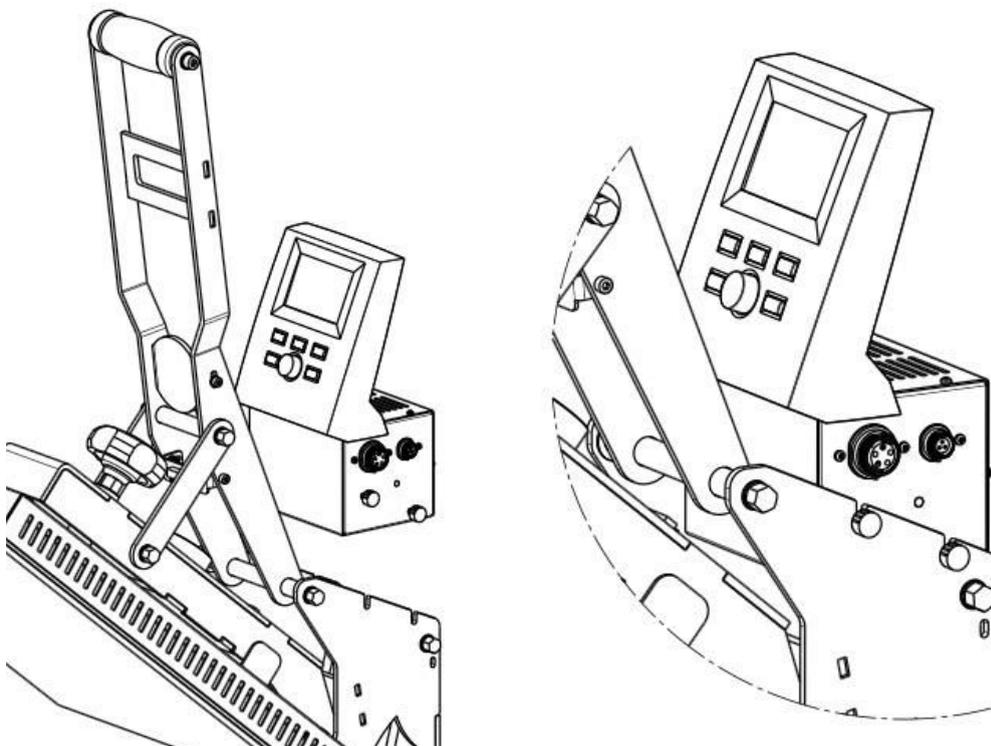
- Proceed by placing the MEMBRANE base plate onto the socket. Position the mounting plate from beneath as depicted and screw down the MEMBRANE base plate using the three included M8 allen screws.





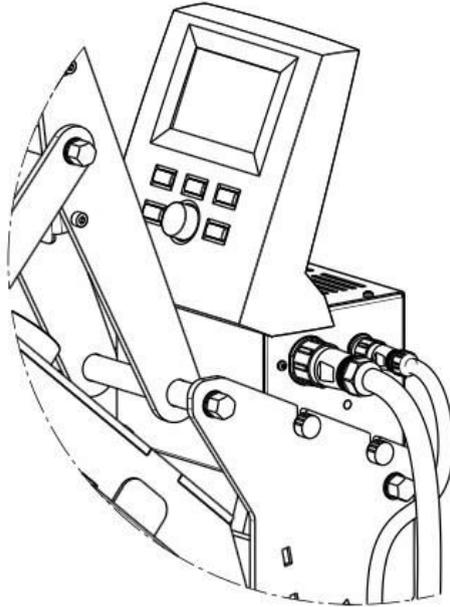
Controller Installation

- Position the controller box at the upper rear center of the base frame of the TC5 SMART MEMBRANE or TC7 SMART MEMBRANE heat press and let the studs at the controller box slide into the slots on the **heat press base**. Securely tighten the hand nuts.



- Attach the small 6-pin plug from the rear side of the **heat press base** to the appropriate socket on the outer right side of the controller box.

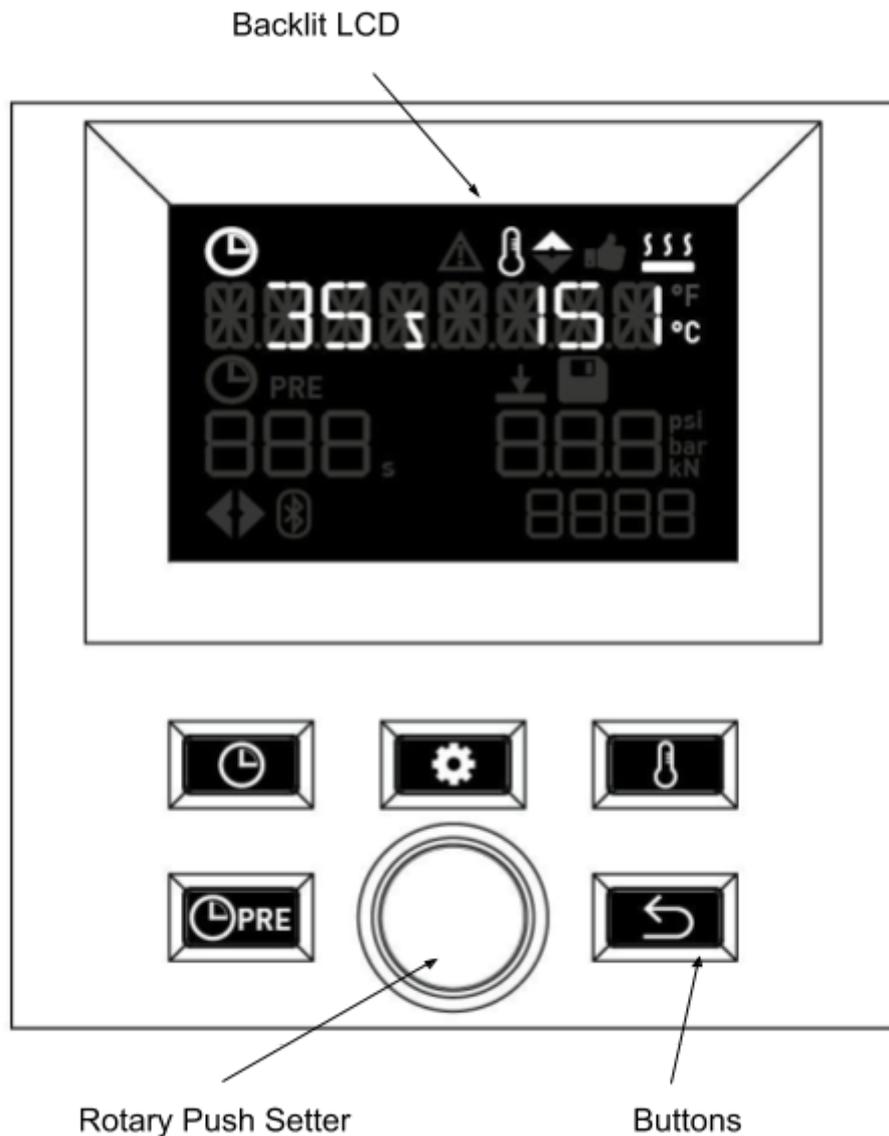
- Attach the large 5-pin plug from the surface of the heat plate to the appropriate socket on the right outer side of the controller box.



- Plug the supplied C13 cold device cable into the back of the controller box and connect it to a safety socket, which must be equipped with a grounded connection, protection via fuse and ground fault circuit interrupter.

The TC5 SMART MEMBRANE or TC7 SMART MEMBRANE heat press is now ready for use.

Controller components and operation



Display components and their meaning



Area for time setting and countdown when press is closed



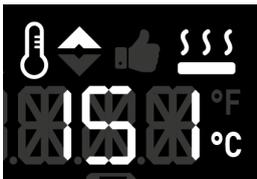
Area for time setting and activity indicator of the pre-press feature



Icon for the Bluetooth connection



General indicator for fault or error



Area for temperature indicator for target temperature and actual temperature



Indicator heat plate's heating active



Indicator press is done heating up



Indicator press is currently heating up or cooling down. Below the set temperature, the arrow is flashing upwards.



Indicator for management of memory slots



Counter for counting the performed press operations

How to use the controller

Setting the temperature:



press briefly, the symbol in the display starts flashing. The value in the display changes from the current ACTUAL value to the TARGET value, which can now be set. Turn clockwise to increase the TARGET temperature, counter-clockwise to decrease.

Press the rotary knob or press  to store the set value. If no input occurs for 5 seconds, input mode ends automatically. Pressing  exits input mode, the set value is not applied and the display returns to the current ACTUAL value.

Temperature-related indicators:



is activated whenever the heater is running.

During the warm-up phase, every 10s an estimated remaining warm-up time scrolls across the display for 3s instead of the current temperature.



is activated when the CURRENT temperature corresponds with the TARGET temperature, allowing for a certain deviation of X°.



Arrow up is activated when the temperature is rising (if below TARGET temperature, arrow is blinking), arrow down is activated when the temperature is dropping, e.g. during a transfer or if the heat plate is still hotter than the set target temperature.



is generally activated in the event of faults or errors, and when there is a significant deviation between TARGET and CURRENT temperature (value outside of a range that allows for pressing).

Setting the time:



push briefly, symbol in the display flashes. Turning the rotary knob clockwise

increases time, counter-clockwise decreases. Press the rotary knob or press  to

store value. If no input occurs for 5s, input mode ends automatically. Pressing  will exit the input mode, the display will return to its original value.

Configuring pre-pressing:



Briefly pressing  activates pre-pressing for the following press operation using the preset time, and is deactivated again upon completing the press operation. When activated, the Time+Pre symbol will light up in the lower part of the display with the

corresponding time indicator. This will count down to 0 while pressing, whereupon the symbol and time switched off again.

Holding  activates the setting mode for the PRE time analog with time setting: Symbol in the display flashes. Turning the rotary knob clockwise increases time, counter-clockwise decreases. Press the rotary knob or press  to store value. If no input occurs for 10 seconds, input mode ends automatically. Pressing  will exit the input mode, the display will return to its original value.

Pre-pressing can be activated permanently from the settings menu. More information below.

Saving to and loading from memory slots:

Press and hold rotary knob in the default state.  flashes. The number corresponding with the memory slot is shown below the disk. This indicator rises by one when turning the rotary knob clockwise. Each stored temperature value and time / PRE time value is also displayed at the top. If memory slot is blank, dashes are displayed for temperature and time / PRE time.

To retrieve a stored value, confirm the selected value in the display by briefly pressing the rotary knob. The stored values are now displayed,  is deactivated and no longer flashes.

To save the current values (to blank or currently used memory slots), first push and hold the rotary knob ( flashes), then select the desired memory slot, then hold the knob until the values and symbols flash briefly. The values are now both, saved and loaded,  no longer flashes, the memory mode has been exited.

Setting tier:

Press  .

You generally navigate through the setting tiers according to the following scheme:

- Rotate knob - scroll through the settings.
- Press knob - dive into current setting.
- Rotate knob - choose values within the setting.
- Press knob - store value and exit from the setting.
- You may press  to return to the parent tier if no action is to be taken in the subordinate tier.

The following eight menu items are available in the setting tier.

1. Auto Prepress
 - Enable / Disable a permanent pre-pressing.
2. Bluetooth
 - Enable / Disable Bluetooth.
3. Bluetooth PIN
 - You can use the rotary knob to save your individual PIN, which the app will then prompt you to enter. The default PIN from factory is 255, which is automatically recognized and used by the app.
4. Warning signal
 - Enable / Disable the warning signal before opening the press.
5. Sleep Mode
 - Setting the time interval in minutes, after which the press enters the Sleep Mode.
 - In addition, the temperature the press should be cooled down to when in Sleep Mode can also be set.
 - To completely disable Sleep Mode, set the time value to "0".
 - The active Sleep Mode can be exited at any time by pressing any button or by actuating the press lever. The press will then restore the previously set parameters.
6. Auto Off
 - Setting the time interval in minutes, after which the press completely turns off the heating.
 - To completely disable Auto Off Mode, set the time value to "0".
 - The active Auto Off Mode can be exited at any time by pressing any button or by actuating the press lever. The press will then restore the previously set parameters.
7. Language
 - Setting the menu language.

8. Unit

- Configuring the temperature unit. Celsius or Fahrenheit are possible.

Resetting the counter:



Press the  button for 2s, display flashes briefly, values are set to 0.

Pair heat press with mobile device

- Press the  key on the controller
- **Enable Bluetooth:**
Use the wheel to scroll to the Bluetooth ON/OFF setting and press the wheel once. Now turn the wheel again to set Bluetooth to ON and confirm again by pressing the wheel.
- **Setting the Bluetooth PIN:**
Use the wheel to scroll to the Bluetooth PIN setting and press the wheel once. Now turn the wheel again to set the desired Bluetooth PIN and confirm again by pressing the wheel. The default PIN is 255.
- Press the Settings button on the controller to exit the Settings menu
- Download the Secabo Smart Transfer App to your mobile phone and start it.
- The first time you start the app, you will receive a brief introduction that will help you understand the features and benefits of the app.
- After the introduction, a dialog opens, which will assist you with connecting the press to the app. The app automatically searches for Secabo Smart heat presses in the area. Please make sure that Bluetooth is activated on your smartphone.
- Simply select the respective heat press from the list to connect to it. If you have changed the Bluetooth PIN on the heat press, the app will prompt you to enter it in the app.
- The heat press is now connected and ready for use.

Controlling the heat press via Secabo Smart Transfers app

To learn how to control your Secabo TC SMART Transfer Press via the Secabo Smart Transfer App, please refer to the app introduction as well as the help pages within the app.

Second setting tier for operational key figures and service

Press and hold the Settings button  to enter the second tier of the settings. Here you can retrieve helpful data and counter readings by turning the rotary knob.

1	Service Tag
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2	Firmware version
3	Serial number of the controller
4	Long-term counter press operations
5	Operating hours counter in hours

Operation of the heat press

Performing transfers

- Turn on the heat press via the main switch.
- The press will now heat up to the set temperature.
- Please refer to previous chapters to learn how to change the settings on the controller.
- Once the press has heated up, you can proceed with the first transfer. The clock starts counting as soon as the press is closed with the press lever.
- Proceed by inflating the membrane using the hand bellow until the height suffices to compensate for unevenness in your transfer object. Avoid overinflating the membrane. In its deflated state, the bulge at the center of the membrane should not be more than 5cm.
- You can now adjust the contact pressure by turning the large hand screw at the top of the press to increase or decrease the distance the lever travels. Turning the knob clockwise increases the pressure, while turning it counterclockwise decreases it.
- The actual contact pressure of the closed press can be read off the membrane plate's pressure gauge in g/cm².
- While the press is closed, the contact pressure can be regulated by further inflation of the membrane, or by venting air from the membrane via the silver screw on the inflation bulb.
- 3 seconds before the set time elapses, a warning signal is sounded (if activated in the settings), then the press opens automatically.
- You can further adjust the contact pressure by turning the large hand screw at the top of the press to increase or decrease the distance the lever travels. Turning the knob clockwise increases the pressure, while turning it counterclockwise decreases it.
- No settings can be changed during the press operation.
- With each completed press operation, the value indicated by the counter increases by one, as soon as the specified time has fully elapsed.

Note: Please keep in mind that it takes some time for the press to cool off after it is switched off.



Maintenance and cleaning

All maintenance work must be carried out with the press switched off and cooled off, no exceptions! First, remove the plug from the wall socket. Only perform maintenance work after consultation with our technical support team.

The press should be cleaned regularly using a soft cloth and a mild household cleaner to remove adhesive residues, dust, etc. Do not use scouring sponges, solvents or gasoline!

Recommended times and temperatures

These values should only be considered as guideline values, may vary depending on the material and must be checked before pressing.

Material	temperature	Pressure	Press duration
Flock film	170°C - 185°C	low-medium	25s
Flex film	160°C - 170°C	medium-high	25s
Sublimation flex	180°C - 195°C	medium-high	10s - 35s
Sublimation on mugs	200°C	medium-high	150s - 180s
Sublimation on tiles	200°C	high	120s - 480s (depends on the thickness of the material)
Sublimation on puzzles	200°C	low-medium	25s
Sublimation on mouse pads	200°C	medium	20s - 40s
Sublimation on garments	200°C	medium-high	30s - 50s
Sublimation on metal plates	200°C	high	10s - 50s (depends on the thickness of the material)

Important note: You should perform your own tests with the respective transfer materials and carrier media prior to each production. The aforementioned values, as well as any manufacturer specification merely serve as indications. Washing resistance and behavior during the transfer must be determined by performing your own tests.

No guarantee can be derived from the recommended values. It is always the user's responsibility to determine and apply the correct settings for his specific conditions.

Note on garment finishing processes: After the press operation, garments must cool off before any carrier media can be pulled off the transfer material. The hot glue in the transfer material doesn't develop its adhesive strength until cooled off. If the glue does not stick in its cold state, this may indicate that the pressing procedure was too cold or too short.



Technical data

Heat press	Secabo TC5 SMART MEMBRAN	Secabo TC7 SMART MEMBRANType
	automatically opening modular folding press with passive membrane	
Working area size	38cm x 38cm	40cm x 50cm
Large membrane base plate	45cm x 45cm	47cm x 57cm
Max. opening angle	40°	
Max. temperature	220°C	
Max. preset time	999s	
Max. working pressure	250g/cm ²	
Pressure setting	Height-adjustment of the heat plate via hand wheel, Fine adjustment with inflation bulb and release valve on the membrane	
Power supply	230V / 50Hz - 60Hz, 1.8kW	230V / 50Hz - 60Hz, 2.0kW
Environment	+ 5°C - +35°C / 30% - 70% relative humidity	
Weight	42kg	50kg
Weight with packaging	Heat press base and controller box: 21.5kg Heat plate and base plate 17.6kg Membrane base plate: 10kg	Heat press base and controller box: 21.5kg Heat plate and base plate 23.5kg Membrane base plate: 12kg
Closed dimensions (W x H x D)	45cm x 57cm x 73cm	47cm x 57cm x 80cm
Open dimensions (W x H x D)	45cm x 93cm x 67cm	47cm x 93cm x 75cm

Declaration of conformity - Statement of Conformity



We hereby declare under our sole responsibility that the product referred to in "technical data" complies with the provisions of the following directives and standards:

We herewith declare under sole responsibility that the under „technical data“ mentioned product meet the provisions of the following EC Directives and Harmonized Standards:

EC directives / EC directives:

2014/35/EC Low Voltage Directive

2014/35/EC Low Voltage Directive

98/37/EC Directive on machinery (2006/42/EC from 12/29/2009)

98/37/EC Directive on machinery (from 2009-12-29: 2006/42/EC)

Standard / Standard:

EN 60204-1:2006

Technical documents at / Technical documents at:

Secabo GmbH, Hochstatt 6-8, 85283 Wolnzach, Germany

A handwritten signature in black ink, appearing to read "Fabian Franke".

Dipl. Ing. Fabian Franke

A handwritten signature in black ink, appearing to read "Bernhard Schmidt".

Dipl. Ing.(FH) Bernhard Schmidt