Delivery form Erkopress 300 Tp/300 Tp-ci

please check concerning completeness

Piece:	Article	Order number:	
	1	Erkopress 300 Tp with pressure regulator/water separator	171 000
	1	Erkopress 300 Tp-ci with integrated compressor and reserve compressed air	171 500

with accessories as follows:

1	foil securing ring	170 050
1	foil reception	171 023
1	granules collecting device	171 025
1	model plate	170 026
1	form pot	171 021
1	brush for granules, incl. magnet to embed the models into the granules, magnet to collect scattered granules	188 510
1	replacement protective foil for display	188 506
1	power supply cable	170 001
1	filling granules (subsequent supply) (supplied with Erkopress 300 Tp/Tp-ci, 1.8 kg) high-grade steel granules (magnetic) with rounded edges	110 852 (1.3 kg)

- 1 foil trial package including list of contents
- machine documents (folder), instructions, thermoforming technique manual, material card, ERKODENT program, guarantee card, declaration of conformity (if applicable)



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Instructions:

Erkopress 300 Tp Pressure forming unit for connection to the compressed air system available.

Erkopress 300 Tp-ci Pressure forming unit with integrated compressor and reserve compressed air.*



Technical data:

Measurement:

Erk	copress	300 Tp	300 Tp-ci
height		320 mm	320 mm
wic	dth	350 mm	350 mm
de	pth	430 mm	510 mm
weight		16.7 kg	20.9 kg
Electricity:	voltage:	230/240, 50 Hz 115/100, 60 Hz	230/240, 50 Hz 115/100, 60 Hz
	watt:	340 W	480 W
Fuse:	230/240 V	2 x T-2 A	2 x T-2,5 A
	100/115 V	2 x T-6.3 A	2 x T-6.3 A

Heater technique:

medium-wave infrared heater 230/240 V, 50 Hz or 115/100 V, 60 Hz 280 W

Temperature sensor:

touchless infrared sensor measuring range up to 240 °C

Foil measures: diameter

120 mm

0 - 6.0 mm thickness

Form pot:

inner diameter 101 mm inner height 42 mm

Pressure technique:

Erkopress 300 Tp

operating pressure 3-6 bar min, system pressure 6 bar pressure regulator and water separator

Erkopress 300 Tp-ci

with integrated compressor and reserve pressure 6 bar operating pressure up to 6 bar noise level, compressor < 74 db(A)



Spare sealing foil cylinder 110 857



Spare sealing for foil securing ring 110 857

Security

Before starting please read instructions for use. The operator of the machine is responsible for the compliance with regulations for accident prevention concerning technical security. The construction of the Erkopress 300 Tp/Tp-ci unit complies to legal standards.

ATTENTION! Security hints

Always disconnect the unit from the mains supply before carrying out cleaning, maintenance and repair work. Do not touch heater - hot surface! Do not put your hands in the housing. Only operate the machine under supervision. Do not keep highly inflammable materials in direct area of the machine.

Usage as directed

The Erkopress 300 Tp/Tp-ci unit should only be used with suitable dental thermoforming material in diametre 120 mm and thickness of up to 6 mm for forming on suitable models. In case of non-observance, we cannot take any liability or quarantee for damages.

Cleaning and maintenance

The unit should be cleaned with a damp cloth. Do not use any solvents or other cleaning agents. To ensure that the unit maintains its full function, the rubber seals require replacing once a year when the unit is permanently in use. The new seals should be firmly pushed into position.

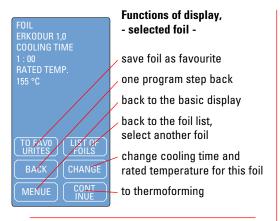
Maintenance of the Erkopress 300 Tp and 300 TP-ci please see page 10.

Installation instructions

The Erkopress 300 Tp-ci is connected to electricity independently of a compressed air equipment.

The Erkopess 300 Tp is connected to the compressed air equipment available and to the power supply system.

The appliance should be installed in dry and dust-free conditions and where required stored temporarily.



Maintenance Erkopress 300 Tp

The condensation water level in the water separator (page 2) must not exceed the marking "max". To drain water press the black drain for water removal upwards with a suitable cup.

Maintenance of the Erkopress 300 Tp-ci

The integrated compressed air system can create condensation water. In order to avoid a damaging of the system this potentially existing condensation water should be drained monthly.

Thereto pull the backside of the unit as far across the table edge that the two drain screws will be freely accessible (1.). Drain the water into an appropriate receptacle by slowly opening (rest compressed air!) the screws (2.).

2.

repair internal compressed air

system (ass)

1.





Trouble shooting:

pressure (only 300 Tp-ci)

mistake	possible reasons	possible elimination
machine not ready to use, no display in the touch panel	wall socket, machine plug or fuses defective, temperature lower than 15 °C	check wall socket, machine plug, fuses, operating temperature > 15 °C
heater does not glow	heater, switch for heater or circuit board defective	exchange heater, switch for heater or circuit board - after-sales service (ass)
program reacts absurdly	system crash, program faulty	switch machine on and off, renew factory settings (ass)
absurd temperature indication	sensor window soiled, sensor defective	clean sensor window, exchange sensor (ass)
adaptation not sufficient	granules on sealings, hole in the foil, sealings used, system pressure too low	remove granules from sealings, exchange sealings, correct possible kink in the compressed air line, minimum system pressure 6 bar
compressor does not build up	temperature lower than 15 °C,	operating temperature > 15 °C.

internal compressed air system

leaky, pressure regulator/com-

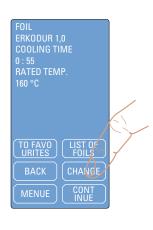
pressor defective

Change factory settings for foils

The rated temperature and the cooling time can be changed for one single thermoforming process or constantly, in the latter case as favourite.

The changes are done in the window "selected foil" or "favourite", see "select foil" or "save favourite".

1. Select change



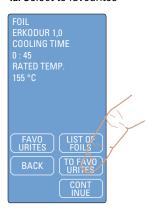
2. Enter rated temp. and confirm (ok)



3. Enter cooling time and confirm (ok)



4a. Select to favourites



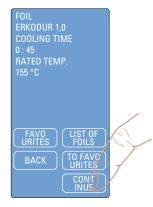
5. Select save



The display changes now to the 2. display see "thermoforming", continue as described there.

The foil with the changes is saved as favourite in the list of favourites.

4b. Select continue



The display changes now to the 2. display see "thermoforming", continue as described there. The changes are only kept for one thermforming process.

Putting into operation

Erkopress 300 Tp (1. - 4.):
Assemble pressure regulator
with water separator, thereto put
the unit on its back side. Fix the
holding bow with the supplied
screws. Position the appliance,
insert the power supply cable in
the machine and the wall socket.









Erkopress 300 Tp-ci: Position the appliance, insert the power supply cable in the machine and the wall socket.

Unplug the appliances when not in use.

A reliable operation of all functions is only guaranteed at a unit temperature of \geq 15 °C.





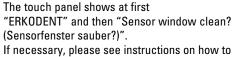
Recommendation

Use the machine only with granules (illustr.). Fill the granules in the form pot, smooth the granules, excessive granules will fall in the surrounding granules collecting device.

Switch on appliance



Switch on main switch.



select your language. Please check if the sensor window is dusty or dirty. This leads to measuring mistakes. If necessary, clean with a damp cloth (no cleaning agents).



Sensor window

Main switch

After a few seconds automatically the basic display will be seen.

The requested function can be selected by slightly pressing the finger on the framed functional fields of the touchpanel or by using a blunt plastic tip.

The touchpanel is protected by an adhesive-free foil. A replacement protective foil is supplied along with the machine.



Sensor window clean?



Select language

For any further use of the machine, the language that was selected last time is used.

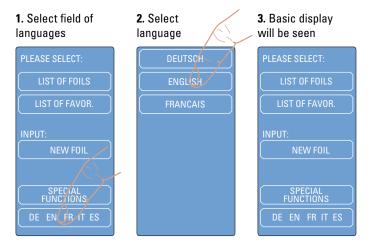
"ERKOFLEX (-BZ) ISOFOIL" signifies Erkoflex (-bz) with isolating foil.

"ERKOFLEX (-BZ) ISOFOIL" signifies Erkoflex (-bz) without isolating foil.

Select foil

The list of foils contains all foils of the ERKODENT range of products that can be used on this machine and that have been available at the time of production of this unit. New foils can be added with the functional field "new foil", please see "enter new foils". If the range of foils will change considerably, ERKODENT will supply a program update.

Example shown here: Erkodur, thickness 1 mm



2. Select

Erkodur

ERKODUR -A1/-A3

4. Display, foil

selected











step back

Next step "save favourite", page 4 or "thermoforming" page 5.

Functions of the display

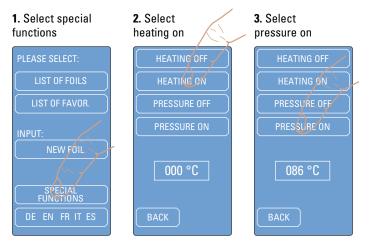
foil selected" see

page 9.

Special functions

The special functions allow to switch on and off the heating and the compressed air (Tp 300-ci, integrated compressor) independently of the program.

To determine the rated temperature (thermoforming temperature) of an unknown foil, select "heating on" (2.) and clamp the foil in the foil frame as mentioned under "thermoforming". As soon as the foil frame clicks into place under the heating (a), it will be switched on and the sensor will measure the temperature of the foil. If it is intended to afterwards thermoform the foil, select "pressure on" (3.) and thermoform as described under "thermoforming".







To check the thermoformability, pull the foil out (**c**) and check with a blunt instrument. If permanent impressions result, generally the foil is ready for thermoforming (**d**). The heating switches off, if the foil is pulled out of the heating area, if "heating off" is selected or if the sensor measures >240 °C.

The temperature shown on the display is the temperature measured at last. If the foil is ready for thermoforming, this temperature corresponds to the rated temperature.

To determine the cooling time, the time beginning with the adaptation is measured. For the first time select "pressure out" after app. 1 minute, the cylinder moves upwards, the foil can be pulled out, attention: risk of burning! The correct cooling time is achieved if the foil on the surface has app. room temperature. The foil can now be saved, as described under "enter new foils".





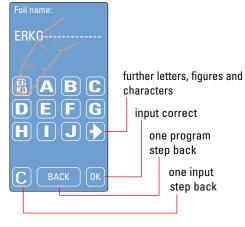
Enter new foils

New foils can be future ERKODENT foils or foreign foils. If ERKODENT launches a new foil, the necessary data will be found on the label of the box (for example: ERKO-XY, thickness 2.0 mm, rated temperature 135 °C, cooling temperature 1:30 min.). The foil can be saved under "new foil".

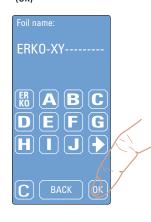
In case of foreign foils the rated temperature and the cooling time need to be determined with the help of the special functions. All new saved thermoforming foils are lined up and saved in the list of favourites and selected via this list.



2.Enter ERKO-XY

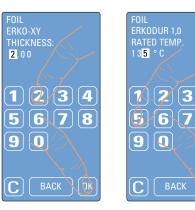


3. Confirm ERKO-XY (ok)



4. Enter thickness and confirm (ok)

DE EN FR IT ES



5. Enter rated temp. and confirm (ok)



6. Enter rated cooling

time and confirm (ok)

7. Basic display



The new foil is now saved in the list of favorites.

Save favourites

The list of favourites allows a quicker selecting of often used foils. To save a foil in the list of favourites, this foil is selected out of the list of favourites as described under "select foil". New foils, either future ERKODENT foils or foreign foils, are entered with the functional field "new foil" and are saved in the list of favourites.

After having selected the requested foil from the list of foils you will see display 1. To save the foil as favourite, select "to favourites".





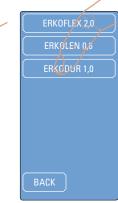
2. Select save



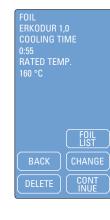
3. Select list of favor.



4. Select favourite



5. Favourite is displayed



Delete favourites



2. Select



3. Basic display, favourite is deleted



Thermoforming

1. Correct foil selected? 2. Execute and Yes, continue

COOLING TIME top right RATED TEMP. 160 °C Clamp the foil Embed the model TO FAVO URITES LIST OF FOILS

to 1. Correct foil selected? If not, please choose "list of foils" and select a new one. The display offers further functions which are described in section "functions of display, selected foil" (see page 10).

To start the following thermoforming process please select "continue".

select start

Turn fixture for foil reception to LIST OF

to 2. Turn fixture for foil recep-tion upwards and then to the right (a) until it clicks into place. Put in the selected foil Erkodur 1.0 mm and clamp with the foil securing ring (b). Embed the model now or during the heating process in the granules. (c). Push form pot with model backwards into the appliance as far as it will ao.

Please select "start".

3. Execute and heat foil

Push foil reception under the heating until it clicks into place!

to 3. Place foil reception with plate onto the fixture and push it under the heating until it clicks into place(e/f). If "start" is already selected, the heating switches on in the engaging area. The functional field "abort" stops the standby mode or the heating process and leads back to display 2.

If the foil is pulled out of the heating contact. this display is shown as well.

4. Display during the heating process



to 4. The actual temperature shows the temperature of the foil in the measuring area.

When reaching the rated temperature, the heating switches off.

Thermoforming

5. Display 10 °C before rated temp.

at continuous RATED TEMP. 160 °C ACTUAL TEMP. 150 °C

to 5. 10 °C before reaching the rated temperature, you will hear a signal.

Depending on the selected foil the heating pivoting the foil recepprocess around the last 10 °C may be of varying lenath.

6. Display in case of continuous signal

Turn foil reception rapidly over the model. push down completely and slightly press on!

rated temperature, you

will hear a continuous

signal and the heating

Now thermoform by

far as it will go left-

tion at the grip cavity as

wards and pressing it

form pot. The form pot

has to be placed at the

stop position at the very

cylinder will not disen-

gage. At the same time

the contact protection

(red) will be pulled downwards and disengage the cylinder (g).

back, otherwise the

downwards onto the

switches off.

7. Display after thermoforming

COOLING TIME RATED TEMP. 160 °C COOLING TIME 0:55

to 6. When reaching the to 7. The cooling time corresponding to the selected foil now runs backwards. The cooling time can be interrupted with the functional field "end".

> After the complete cooling time is finished the cylinder moves upwards. Pull out the form pot at the grip, in doing so the contact protection will automatically swing upward (h).

8. Display end of cooling time

Pull foil reception forward Release foil securing ring and take out model with

to 8. Take off the foil securing ring and take out model with foil through the foil reception (i/j).

The functional field "continue" quides back to the display "selected foil" to the foil just used.

