Constructive design
The functional design of the equipment is specifically tuned to handling techniques of cold-cure resins.

The polymerization takes place at an operating pressure of 2 bars which is calibrated by an integrated pressure reduction valve. A pressure gauge on the operating panel shows the operating pressure. At a pressure of 3 bars within the pressure pot a safety valve opens automatically. The positioning of the safety valve within the unit housing prevents unauthorized manipulation. The electronic temperature control keeps the water temperature constant at 45°C or 55°C at a total maximal power consumption of 650 W. The Palamat practic EL T is equipped with a special water drain valve to empty the pressure pot.

Start of operation
• Connect to pressure source
  Connect to pressure source (picture 5). Maximum primary pressure 10 bars.
• Connect to mains
  Check prior to start of operation that voltage mentioned on identification plate corresponds with voltage at outlet. Connect to mains.
• Connect water drainage
  Connect water drainage hose to drainage valve at rear of housing (picture 5).

Pressure pot
Opening and closing of the pressure pot
For the opening of the lid position lever in upright position (pictures 1 and 2). Turn lid for 90° (picture 3), tilt and remove from pressure pot (picture 4).
To open after completion of polymerization position lever in upright position. The lid can only be removed after unit is completely depressurized. Lid will then sink into pressure pot. Placing and closing of lid will take place in reverse manner. It must be observed that the supporting strut of the lid fits into the moulds on the pressure pot rim.

Filling-in of water
The equipment may not be heated without water. Minimum water level is 4 cm. The filling height of water must always be below the air supply nozzle. Do not fill unit under running water tap. Before filling with water, make sure the water drain valve in the back (picture 5) is closed.

Polymerization
• Completion of chrome-cobalt partials with Palapress and Palapress vario
Fill with approximately 3 l of water. Switch-on; green main switch will be lit. Temperature T1, 45°C and curing time 5 min will be set automatically. Temperature can now be selected by pressing key pad T1/T2; orange LED - Temp. - will be lit.
Press key pad Heating On/Off, orange LED - Temp. - will be lit, indicating heating cycle is on.
When the selected water temperature is reached, the green LED - Control- is lit indicating the unit is ready for use. The orange LED will now go on and off according to the requirement cycle of the heating element.
When the temperature setting is switched from high to low temperature the orange LED T2 55°C will blink until the unit has cooled down to T1, 45°C.
Open lid, place partial denture into pressure pot and close lid. Set curing time at the Time trigger. One trigger impulse equals 5 min, maximum time is 30 min.
The selected curing time shows at the six yellow LEDs. By pressing the Set key pad, the polymerization time can be selected. Before starting the polymerization cycle, make sure the water drain valve in the back (picture 5) is closed. Press Start/Stop key pad, yellow LED - Polym. - is lit.

Attention! Start polymerization only if green LED - Control- is illuminated. The yellow LED indicates the curing process pressure of 2 bars builds up within the pressure pot, the programmed times start against 0, remaining time is indicated by the yellow LED - Time/Min. -. After the polymerization cycle is completed, the pressure will be released automatically and the yellow LED's - Time/Min. - and - Polym. - will go off.
Open pressure pot as described and remove denture.
For a proper positioning of a model during polymerization we recommend the insert basket.

Drainage of contaminated water from pressure pot
Close lid and connect a drain hose to the hose connector in the rear of the unit. Switch unit on, time key pad set to 5 min, open water drain valve (picture 5) and press Start/Stop key. After the water has been completely drained out of the pot, press Start/Stop key again, close the water drain valve and switch the unit off. After opening of lid remove water or other residues with a sponge.
Cleaning and maintenance
Clean only when unit is disconnected from mains! Clean with a moist cloth and prevent water entering unit housing. Do not use acid detergents.
The housing is made from Polycarbonate and may be cleaned with a mild cleaning solution or ethanol (96 %) only. Replacement fuses are available from professional shops. A pressure test is recommended every second year.

Trouble shooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymerization does not start when triggered key pad -Start/Stop-</td>
<td>No timing</td>
<td>Please select time</td>
</tr>
<tr>
<td>Green/led -Control does not come on after 30 min.</td>
<td>No water</td>
<td>Fill with water</td>
</tr>
</tbody>
</table>

Safety advice
Be careful when handling water (short circuit/electrical shock).

Regulatory compliance
The Palamat practic EL T complies with the following safety regulations:
EC Regulation 73/23/EG for low voltage appliances.
EC Regulation 89/336/EGW for electro-magnetic compliance.
117 V Model: UL 3101-1

Environmental Limits
Temperature: +10 °C – +40 °C
Relative humidity: 30 % – 75 %
Atmospheric pressure: 700 hPa – 1060 hPa
Supply voltage: ± 10 % of nominal voltage

Liability waiver
Other usage deviating from user instruction as well as unauthorized changes are excluded from the manufacturer's product liability. Repairs must only be performed by the manufacturer or authorized service stations by use of original Kulzer repair parts. Current safety precautions must be applied.

Advice
User instruction should be positioned in a clearly visible place in the vicinity of the equipment.

Technical data

<table>
<thead>
<tr>
<th>Connected load</th>
<th>650 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage/ Fuses/ Type</td>
<td>110 V – T 8 A 514.2</td>
</tr>
<tr>
<td>117 V – M 6.3 A 514.3</td>
<td></td>
</tr>
<tr>
<td>127 V – T 6.3 A 514.5</td>
<td></td>
</tr>
<tr>
<td>230 V – T 4 A 514.1</td>
<td></td>
</tr>
<tr>
<td>240 V – T 4 A 514.4</td>
<td></td>
</tr>
<tr>
<td>Nominal frequency</td>
<td>50...60 Hz</td>
</tr>
<tr>
<td>Protective measure</td>
<td>Class I</td>
</tr>
<tr>
<td>Protective type</td>
<td>Covered version</td>
</tr>
<tr>
<td>Protective code against electrical shock</td>
<td>Type B</td>
</tr>
<tr>
<td>Equipment classification</td>
<td>Group 3</td>
</tr>
<tr>
<td>per § 2 MedGV</td>
<td></td>
</tr>
<tr>
<td>Pressure hose connection</td>
<td>3...10 bar</td>
</tr>
<tr>
<td>Nominal pressure</td>
<td>2 bar</td>
</tr>
<tr>
<td>Maximum operating pressure</td>
<td>2.8 bar, fs = 3</td>
</tr>
<tr>
<td>Operating temperature of water</td>
<td>45 °C/55 °C</td>
</tr>
<tr>
<td>Height</td>
<td>approx. 255 mm</td>
</tr>
<tr>
<td>Width</td>
<td>approx. 340 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>approx. 340 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 5.5 kg</td>
</tr>
</tbody>
</table>

Subject to technical changes!

Delivery unit
Equipment
Connecting cord
Transparent plastic cover

Accessories
Insert basket
Compressed air service unit
Transparent plastic cover
Öffnen und schließen des Drucktopfes

Opening and closing of pressure pot

Ouverture et fermeture du bac de pression

Apertura e chiusura della camera di polimerizzazione

Quitar y poner la tapa de la olla a presión

Abrir e fechar a tampa da panela

Het openen en sluiten van de drukpan

Öppning och stängning av tryckkåret

Åbning og lukning af trykkoken

Painesäljön avaaminen ja sulkeneminen

Ανοίγμα και κλείσιμο του θάλαμου πίεσης.

Installation / Installation / Installazione / Instalação / Instalação / Installation / Installation / Installation / Asennus / Εγκατάσταση
EG-Konformitätserklärung
Statement of Conformity

Hersteller/Manufacturer: Heraeus Kulzer GmbH
Philipp-Reis-Straße 8/13
D-61273 Wehrheim

Hiermit wird bestätigt, daß das Gerät / It is confirmed herewith that the unit

Palamat practic EL / ELT
Druckpolymerisationsgerät für Kaltpolymerisate
Pressure polymerization unit for cold curing materials

den grundlegenden Sicherheitsanforderungen der Niederspannungsrichtlinie 73/23/EEG
und der Richtlinie über elektromagnetische Verträglichkeit (EMV) 89/336/EEG mit deren
Änderungsrichtlinien entspricht.

complies with the essential safety requirements of the low-tension Directive 73/23/EEC
and the Directive concerning electromagnetic compatibility 89/336/EEC including their
amendments.

Angewandte Normen / Standards applied:

EN 50082-1:1992
EN 55011:1991
Grenzwerte der Klasse B, Gruppe 1 / limits of class B, group 1
EN 60555-2:1987
EN 60555-3:1987
EN 60555-3 A1:1991
EN 60601-1:1991

02.01.1996
Datum/Date

Unterschrift/Signature
Dr. Dieter Schödel
Geschäftsführung/Director,
Heraeus Kulzer GmbH, Wehrheim