

radico™

Owner & Operator's Manual

Model No.	Voltage	Frequency
908041/9495160	100 - 120V	50 – 60 Hz
9495161	230V	50 – 60 Hz

Table of Contents

DESCRIPTION	PAGE
Safety	2
Technical Data	2
Unpacking Instructions	3
General Operation	4
Maintenance	5
Troubleshooting	5
Product Service	6
Declaration of Conformity	7
Warranty	8

SAFETY

FOR PROFESSIONAL USE ONLY.

Please read these operating instructions carefully before installing or operating this equipment.

- Use indoors only.
- Never operate the unit in close proximity to combustible materials or place materials on top of unit.
- The unit must be electrically grounded to a three wire electrical outlet or receptacle. The electrical service provided must be of the proper size according to local electrical codes.
- Unit must be placed in a position that allows the power cord to be easily disconnected from the wall or inlet socket.
- Do not attempt to maintain the unit until you have read and understand this operation manual.
- Disconnect the line cord before attempting to service the unit.
- If the unit is not operated in the manner as specified in this manual, the protection provided by the unit may be impaired.



CAUTION: RISK OF DANGER!

- ALWAYS REMOVE LINE VOLTAGE DURING MAINTENANCE.
- METAL SURFACES MAY BE HOT!

SYMBOL TABLE

	- Alternating current	Courant alternatif
	- On (Supply)	Marche (alimentation)
	- Off (Supply)	Arrêt (alimentation)
	- Caution, Hot Surface	Attention, surface chaude
	- Protective Conductor	Terminal Borne de masse, châssis
	- Caution, Risk of Danger	Attention risque de DANGER

TECHNICAL DATA

ELECTRICAL RATINGS:

Model Number	Volts	Frequency	Watts
908041/9495160	100 - 120V	50 - 60Hz	100W
9495161	230V	50 - 60Hz	100W

DIMENSIONS:

Length: 185mm (7.25in)
Depth: 120mm (4.75in)
Height: 115mm (4.50in)

WEIGHT:

120V: 3.5kg (8lb)
230V: 3.5kg (8lb)

WORKING TEMPERATURE:

60°C – 64°C (140°F – 147°F)

OPERATING TEMPERATURE:

5°C – 40°C (41°F – 104°F)

FUSE:

PCB: 1.25A 5 x 20mm (2)

ACCESSORIES:

- 9495155 – Tool; Clean Out
- 9495153 – Sleeve; Syringe, 8 pack

UNPACKING INSTRUCTIONS

Shipping damage should be reported to the carrier as soon as detected.

The Unit Package contains the following:

- Syringe Warmer Unit
- Owner & Operators Manual
- 2 Spare Syringe Sleeves
- Power Cord

UNPACKING:

Save the box and other packing material for future use in transporting the unit.

- Open the box.
- Carefully lift the unit from the box by lifting on packaging supports. Support unit from the bottom to prevent slipping.
- Remove packaging supports and power cord.
- Remove plastic bag.
- Remove tape holding sleeves in place.

WARNING:

Never operate the Unit in close proximity to combustible materials or place materials on top of the unit.

Do not use extension cords with this equipment.

Plug the power cord into a circuit rated a minimum of 15A.

Do not position the unit in a way that blocks access to the power cord inlet socket or the wall outlet.

GENERAL OPERATION

Operation:

- 1) Load syringes into warmer.
- 2) Turn on power switch located on front of syringe warmer.
- 3) The green light on the front of the syringe warmer will flash.
- 4) The green light will stop flashing and remain lit once the material is at the optimum temperature, approximately 30 minutes.
- 5) Loading new or replacement syringes after the warmer is at the optimum temperature requires 10 minutes of heating time.
- 6) Turn off the warmer when not in use.

Special Notes:

- 1) Failure to insert the syringes completely into the holes will prevent the resin from fully melting, which will be difficult to dispense.
- 2) Failure to press the syringe caps on completely will cause material to flow into sleeve.
- 3) Do not allow the syringes to remain heated overnight.
- 4) Do not allow Radica material to cure on the outer surfaces, as it will become difficult to remove.
- 5) Never operate the unit without the sleeves.
- 6) Should any material become lodged inside the sleeve(s), refer to the Cleaning Instructions in this manual, or simply remove and discard the sleeve(s). Replace with one of the two replacement sleeves provided. To order additional sleeves, use the part number listed under Accessories.

MAINTENANCE/ERROR MESSAGES

WARNING:

This equipment contains dangerous voltages. Maintenance and repair work should only be performed by an authorized service technician of DENTSPLY Ceramco.

To keep the equipment in good working order you should follow the guidelines below.

- Examine the equipment regularly for mechanical damage.
- Do not use solvents or liquid cleaners on the control panel.

CLEANING:

- Clean the unit as needed.
- Clean exterior surfaces with a soft, damp cloth using a mild detergent.
- DO NOT IMMERSE IN WATER OR OTHER LIQUIDS!
- Should any material get lodged in the syringe holes, remove with Clean Out Tool, which is available as an accessory, listed under Technical Data.
- To remove debris inside the unit, refer to instructions provided with Clean Out Tool.

TROUBLESHOOTING

Service of this equipment should be done only by qualified personnel. Failure to comply may result in personnel injury and/or property damage.

Problem	Cause	Solution
No power to unit.	Power switch. No power.	Place switch in ON position. Check line voltage, power cord connections.
Unit heats up very slowly.	Electronic malfunction.	Call DENTSPLY.

PRODUCT SERVICE

WARNING:

This equipment is designed with safety features to protect the operator and must not be modified in any form. Only qualified individuals should repair this piece of equipment. Failure to observe these precautions may result in burns or electrical shock.

Three methods of product service are available:

- Telephone assistance available at the number listed below,
- Return the unit for servicing using the instructions below,
- Call DENTSPLY at the phone number below and obtain a service manual for a nominal fee.

BEFORE RETURNING THE UNIT:

- Call DENTSPLY for an RMA (Return Material Authorization) number. This is used to track and identify your unit. Equipment received without this number may not be identifiable.
- Equipment damaged in shipment as a result of improper packing may not be paid by the carrier.

DENTSPLY will not be responsible for damages resulting from improper packing.

Ship prepaid to:

DENTSPLY Ceramco

DENTSPLY International

RMA Number _____

13553 Calimesa Blvd.

Yucaipa, CA 92399-1203 USA

Phone: 909.795.2461

Fax: 909.795.5268

equipmentrepair.ca@dentsply.com

DECLARATION OF CONFORMITY

DENTSPLY
CERAMCO

13553 Calimesa Blvd.
Yucaipa, CA 92399
USA

DENTSPLY Ceramco certifies that the following product:

Name: **Radica Syringe Warmer**

Serial Number: JHA & JHE xxxx-xxx (Where x is a number from 0-9)

Conforms with the basic requirements of the following EC guidelines:

- Low Voltage Directive 73/23/EEC Electrical system safety
with 1. Modification 93/68/EEC
- Machinery Directive 98/37/EC Mechanical system safety
- EMC Directive - 89/336/EEC Electromagnetic Compatibility
with 1. Modification 92/31/EEC
2. Modification 93/68/EEC
- RoHS Directive 2002/95/EC Regulation of Hazardous Substances (Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls (PPBs), or Polybrominated Diphenyl Ethers (PBDEs),
The regulated hazardous substances have been eliminated or controlled to the specified concentrations of 0.1% for materials listed above except for Cadmium which is specified at 0.01%.
- WEEE Directive 2002/96/EC Waste from Electrical and Electronic Equipment reuse, recycling, recovery and disposal.
The WEEE Directive on electrical and electronic waste disposal and recycling is implemented through our EU representative listed below

The following Harmonized Standards were applied:

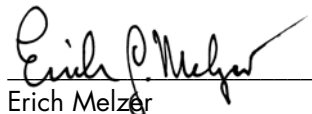
- EN61326:1997 Electrical equipment for measurement, control and laboratory use
- EN 12100 – 1:2003, - 2:2003
- EMC requirements (includes amendment A1: 1998 and A2: 2001) (IEC61326: 1997 +A1: 1998 +A2:2001)

Dentsply Ceramco's quality system meets these requirements:

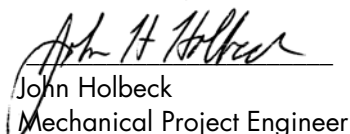
- ISO 13485:2003 (Quality)

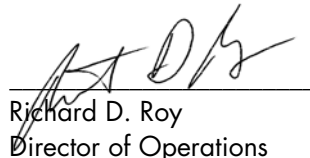
Our European Representative is:

Hartmut Brinkmann
Bios Dental GmbH – Degussa
Burgerm. – Otto-Knapp Strasse 45
D-49163 Bohmte, Germany


Erich Melzer

Electronic Project Engineer


John Holbeck
Mechanical Project Engineer


Richard D. Roy
Director of Operations

WARRANTY

WARRANTY: Except with respect to those components parts and uses which are hereinafter described, DENTSPLY Ceramco warrants this furnace to be free from defects in material and workmanship for a period of two years from the date of sale. DENTSPLY Ceramco's liability under this warranty is limited solely to repairing or, at DENTSPLY Ceramco's option, replacing those products included within the warranty which are returned to DENTSPLY Ceramco within the applicable warranty period (with shipping charges prepaid), and which are determined by DENTSPLY Ceramco to be defective. This warranty shall not apply to any product which has been subject to misuse; negligence; or accident; or misapplied; or modified; or repaired by unauthorized persons; or improperly installed.

INSPECTION: Buyer shall inspect the product upon receipt. The buyer shall notify DENTSPLY Ceramco in writing of any claims of defects in material and workmanship within thirty days after the buyer discovers or should have discovered the facts upon which such a claim is based. Failure of the buyer to give written notice of such a claim within this time period shall be deemed to be a waiver of such claim.

DISCLAIMER: The provisions here-in stated DENTSPLY Ceramco's sole obligation and exclude all other remedies or warranties, expressed or implied, including those related to *MERCHANTABILITY* and *FITNESS FOR A PARTICULAR PURPOSE*.

LIMITATION OF LIABILITY: Under no circumstances shall DENTSPLY Ceramco be liable to the buyer for any incidental, consequential or special damages, losses or expenses.

LIMITATION OF ACTIONS: The buyer must initiate any action with respect to claims under the warranty described in the first paragraph within one year after the cause of action has accrued.

Corporate and Sales Office:

DENTSPLY Ceramco
DENTSPLY International
570 West College Avenue
York, PA 17404-0872 USA
PH: 800.487.0100
FAX: 800.735.1101

EU-Rep., DeguDent GmbH
Postfach 1364, 63403 Hanau
Germany
Tel. +49/6181/59-50

Product Service Office:

DENTSPLY Ceramco
DENTSPLY International
13553 Calimesa Blvd.
Yucaipa, CA 92399 USA
PH: 909.795.2461
FAX: 909.795.5268
equipmentrepair.ca@dentsply.com

DENTSPLY Canada
161 Vinyl Ct.
Woodbridge, Ontario L4L 4A3
905.851.5374

PC 9363196
0646 rev. C
DENTSPLY Ceramco
All Rights Reserved
Printed in USA