

**ENGLISH**

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## SYMBOLS



When paragraphs are marked by this symbol, they contain instructions that must be carried out carefully in order to prevent damage to the device, to the operator and to the patient.



This symbol highlights what you must not do in order to prevent damage to the device.



This symbol indicates an information which permits to use the device more efficiently.



When paragraphs are marked by this symbol, they contain instructions that must be carried out carefully in order to prevent electric shocks.

## INTRODUCTION

Thank you for choosing CV200LUX from Tecnomed Italia. Before carrying out any operations we recommend to read carefully this instruction manual and to file it for future consultations. The current manual strives to give the user the instructions for a correct, efficient and safe functioning. The device must be used in compliance with the procedures contained in the manual. It must never be used for other aims. The user is legally responsible for the installation and the functioning of the device. Tecnomed Italia s.r.l. reserves the right to improve or modify the current manual or even the device without notice. It is also strictly forbidden to photocopy the text or the pictures contained in the manual. The information contained in this manual refers to the characteristics of the device, which are listed in the chapter "Technical characteristics". If the device is resold, it has to be sent to the new owner together with the current manual.

## SAFETY PRECAUTIONS FOR INSTALLATION

We recommend to follow all the procedures of installation, use and maintenance, included in the manual. The company is responsible for the safety and it guarantees the product only if maintenance, repairs and modifications will be made exclusively by authorized technicians or by the manufacturer himself. We heartily recommend to use our spare parts in order to have a long-lived and working product.

We remember that the electrical system of the premises in which you install the product has to be in compliance with international standard IEC 64-8/7. For any requirement please indicate the date of purchase, the device model and the serial number.

**Do not disassemble the dental unit. In the event of malfunctioning, please contact Demas S.r.l., Tecnomed Italia's authorised retailer and service centre for this dental unit.**



Always disconnect the air, water and electricity supplies at the end of the day. Tecnomed Italia srl cannot be held liable for damage caused by failure to perform these operations.

## SAFETY PRECAUTIONS FOR OPERATION

We recommend to read this section carefully before using the device.

CV200LUX has been conceived exclusively for odontological use.

The hereby described odontological device is exclusively intended for doctors, dentists, hygienists or skilled staff. In case the device will not be used in the proper way by skilled staff the manufacturer cannot be considered responsible for any breaking, third-party infringement or malfunctioning.

## OPERATOR SAFETY SYMBOLS TECHNICAL



Disconnect the quick connector or close the air valve whenever the dental unit is not being used (min. air pressure 5 bar, max. 8 bar).



Only use the dental unit for the purpose for which it is intended. Improper use can lead to injury to patients or the operator and damage to the unit itself.

## SPECIFICATIONS

Electric supply: 30VDC

Air supply: 5-8 bar

Dimensions (w x h x l): 600x910x500mm

Weight: 30 kg

Spray water bottle: 100 cl

Suction bottle: 400 cl

High speed handpiece air consumption: 35/50 NI/min approx.

Micromotor air consumption: 50/60 NI/min approx.

Instrument water consumption: 30/50 ml/min approx.



The 6 mm<sup>2</sup> earth cable must be connected to the operating room's earth (ground) point.

## PRODUCT PROFILE

Our mobile veterinary dental units are easy to transport and can therefore be used in a number of different veterinary studios. Their intelligent design guarantees unobstructed operations. Functions are controlled by simple and intuitive hand and foot controls. These units offer all the functions you need to provide effective veterinary dental treatments. They are made from top quality materials for unrivalled robustness. All you need to be up and running is a compressor connection.




- A. Syringe
- B. Suction hose
- C. Low speed hand-piece
- D. High speed hand-piece
- E. Scaler
- F. Tray table
- G. Micromotor spray water control
- H. High speed hand-piece spray water control
- I. Scaler spray water control
- J. Syringe controls
  - J¹. syringe spray water control
  - J². syringe drive air control
- K. Micromotor drive air control
- L. High speed hand-piece drive air control
- M. Scaler drive air control
- N. Micromotor spray air control
- O. High speed hand-piece spray air control
- P. Scaler potentiometer
- Q. Suction bottle
- R. Suction bottle ON/OFF switch
- S. 100 cl spray water bottle
- T. Air supply: 4x6 mm blue hose
- U. Chip air selector button
- V. Foot control drive air
- W. Spray water ON/OFF switch
- X. 3.15A fuse
- Y. Power supply connector
- Z. Connection for external water

**WARNING! ALWAYS REPLACE THE HANDPIECES IN THE CORRECT SEQUENCE.**

**1 SYRINGE - 2 SUCTION - 3 LOW SPEED HANDPIECE - 4 HIGH SPEED HANDPIECE - 5 SCALER**

## PACKING LIST

	<p>Dental unit with syringe and tip, suction bottle, water spray bottle, 2 o.f. cords, scaler and foot control installed (approximate image).</p>	<p>CV200LUX</p>
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## SPARE PARTS AND ACCESSORIES





IMMAGINE	DESCRIZIONE	CODICE
	<p>Replacement syringe tip.</p>	<p>PL013B</p>
	<p>100 cl spray water bottle.</p>	<p>PC1811</p>
	<p>Suction bottle with filter</p>	<p>CV200.12</p>
	<p>Scaler handpiece led compatible EMS®</p>	<p>M16AL</p>
	<p>Air micromotor led with external spray Ivory Silk Line. 20.000 rpm. 6 holes.</p>	<p>M714L</p>
	<p>High speed handpiece LED Ivory Silk Line. Ceramic bearings. Spray 3 holes. 345,000 rpm. Kavo® coupling.</p>	<p>T501LK</p>
	<p>Coupling LED Ivory Silk Line. Spray 3 holes. Kavo® Multiflex® compatible.</p>	<p>C30LK</p>
	<p>Low speed handpiece LED ratio 1:1 Ivory Silk Line. Max speed 40.000rpm. Internal spray.</p>	<p>SL411L</p>
	<p>Set of burs for rotary handpieces.  <ul style="list-style-type: none"> <li>• 4 high speed handpiece burs</li> <li>• 11 low speed handpiece burs</li> </ul> </p>	<p>SET80</p>
	<p>Mat</p>	<p>CV200.10LUX</p>
	<p>Power supply</p>	<p>AP2413WN</p>
	<p>Silk Oil universal lubricant spray.500 ml. Ivory</p>	<p>OL101S</p>

IMMAGINE	DESCRIZIONE	CODICE
	Inserts compatible EMS®	PG031, PG063, PG042, PG062, PG044, PG053, PG070D, PG071A, PG071D, PG066, PG069, PG054

## OPERATING INSTRUCTIONS



- Connect the 4x6 mm blue hose to the compressor.
- Open the compressor's pressure regulator to feed compressed air to the dental unit.
- Adjust the pressure of the compressed air supply by turning the pressure reducer clockwise (the black knob in the figure). The pressure gauge should read 6 BAR.
- Connect the power supply to the cart and connect it to the 220VAC power grid



**Recommended compressor: Silent Line, product code 70TCV.**



**Instrument air pressure is set in the factory. Do not adjust.**

### Spray syringe

- Remove the spray syringe from its holder.
- Press the right hand button to obtain a jet of air.
- Press the left hand button to obtain a jet of water.
- To obtain an air/water spray, press both buttons simultaneously.

### Suction



- Remove the suction hose from its holder.
- Suction starts immediately.

### Low speed handpiece

- Remove the low speed handpiece from its holder.
- Press the foot control "V". The handpiece rotates immediately.
- To adjust rotation speed, turn the ring on the micromotor or the knob "K" under the unit.
- To adjust the air flow, turn the knob "N" under the unit.
- To reverse the direction of rotation, turn the ring at the base of the micromotor.
- To turn on the spray, move the suction bottle ON/OFF switch (R) towards the symbol



and make sure that the foot control spray water switch (W)  is facing right.



- To adjust water flow, turn the knob "G". 
- To switch on chip air, press the button (U) on the foot control .

## High speed handpiece

- Remove the high speed handpiece from its holder.
- Press the foot control "V". The handpiece rotates immediately and o.f. is activated
- To adjust rotation speed, turn the knob "L" under the unit.
- To adjust air flow, turn the knob "O" under the unit.
- To turn on the spray, move the suction bottle ON/OFF switch (R) towards the symbol



and make sure that the foot control spray water switch (W)  is facing right.

- To adjust water flow, turn the knob "H". 
- To switch on chip air, press the button (U) on the foot control .

## Scaler

- Insert the tip into the scaler and tighten it in place with the key provided.
- Remove the scaler from its holder.
- Press the foot control "V". The scaler starts to vibrate immediately and o.f. is activated.
- To adjust vibration intensity, turn the knob "P" under the unit.
- To adjust air flow, turn the knob "N" under the unit.
- To turn on the spray, move the suction bottle ON/OFF switch (R) towards the symbol



and make sure that the foot control spray water switch (W)  is facing right.

- To adjust water flow, turn the knob "I".

## Filling with distilled water



- Set the suction bottle switch "R" to OFF position.
- Turn the distilled water bottle clockwise to unscrew it.
- Fill the bottle with water to the right level (4 cm from the top). Use only distilled or demineralised water.
- Screw the bottle into place, turning it anti-clockwise.
- Return the suction bottle ON/OFF switch "R" to ON position.



## TROUBLESHOOTING

PROBLEM	SOLUTION
There is no spray from the instruments.	The suction bottle ON/OFF switch is OFF. The foot control spray water switch is OFF. The spray valve is closed. Clean the instruments' spray holes with the blockage removal pin provided. The distilled water bottle is empty. Insufficient air flow; increase the air flow. Contact the authorised technical assistance service: Demas Srl.
The low speed handpiece does not rotate.	The micromotor is faulty. The direction reversal/speed control ring is at its central position. Increase power by adjusting the micromotor potentiometer "L". Insufficient air flow; increase the air flow. Contact the authorised technical assistance service: Demas Srl.
The low speed handpiece is noisy.	The micromotor is damaged. Insufficient lubrication. Contact the authorised technical assistance service: Demas Srl.
The micromotor does not rotate or is noisy when a handpiece is inserted.	The low speed handpiece is damaged. Insufficient lubrication. Increase power by adjusting the micromotor potentiometer "L". Insufficient air flow; increase the air flow. Contact the authorised technical assistance service: Demas Srl.
The high speed handpiece is noisy or has little power.	The turbine rotor is damaged. Insufficient lubrication. Insufficient air flow; increase the air flow. Increase power by adjusting the high speed handpiece potentiometer "M". Contact the authorised technical assistance service: Demas Srl.
The scaler does not vibrate or vibrates only a little.	Check that the tip is properly inserted and tight. The tip is worn. Increase vibration intensity by adjusting the scaler potentiometer "N". Insufficient air flow; increase the air flow. Contact the authorised technical assistance service: Demas Srl.
The machine does not turn on	Verify that the power supply is connected. Check that the fuse F1 is not blown
Optical fiber does not activate	Turn the LED 180 ° and reverse the polarity.
Air escaping near handpiece holder	Contact the authorised technical assistance service: Demas Srl.
The handpiece rotates next to the selected one	Check the correct sequence of the cord.



**Inadequate or incorrect lubrication automatically invalidates the warranty on the instruments.**

## MAINTENANCE

Always disconnect the compressed air and electric supply before commencing any maintenance on the unit. The CV200LUX veterinary dental unit does not require any particularly difficult maintenance. To ensure the continued safety and correct functioning of the unit, simply check from time to time that the spray water bottle, suction bottle, compressor connection hose and power supply are not damaged. To clean the instruments, follow the instructions given by the manufacturers on the instruments' own boxes. **Do not disassemble the dental unit. In the event of malfunctioning, please contact Demas S.r.l., Tecnomed Italia's authorised retailer and service centre for this dental unit.**



Only technicians authorised by Tecnomed Italia are permitted to disassemble this dental unit.



**Clean the unit and the instruments after every use.**

### Emptying the suction bottle



Turn the suction bottle clockwise to unscrew it.



**Contact the competent regional authority for information on the disposal of suction water.**

## CLEANING AND DISINFECTION



Disconnect the compressed air supply hose before starting to clean the dental unit. To keep the dental unit in good condition, clean it thoroughly after every use, removing all traces of dirt.



To clean and disinfect the outer casing, we recommend:

### GREEN&CLEAN MK



Alcohol-free disinfectant wipes for alcohol-sensitive surfaces. Product code 60030130: dispenser with 70 wipes + 750 ml SK bottle (MK START).



To clean and disinfect the instruments, we recommend:

### GREEN&CLEAN WD



Ready to use, alcohol based disinfectant wipes for alcohol-tolerant surfaces. Product code 60030018: dispenser with 120 wipes (WD START).



To clean and disinfect the suction system, we recommend:

### GREEN&CLEAN M2



Disinfectant detergent for suction systems. Product code 60010001-BL: 2 x 480 ml sachets + blue doser (M2 KIT).

## ASSOCIATED PRODUCTS

To find all items related to this product, visit:



[www.dentalastec.it](http://www.dentalastec.it)