Brief operating instructions.
These brief operating instructions cover only the essential control functions. They do not replace the standard operating instructions which form part of the delivery. It is essential to consult the standard operating instructions in order to avoid faults and damage.

Patient’s chair Primus

Save automatic position.

Set desired chair position using joystick

or

using multifunctional foot control when instruments are replaced in the holder.

Press joystick briefly.

During this time, move the joystick in the appropriate direction, or press it again for the automatic position LP (last position), until a signal is heard.

Assignment of the AP keys on the multifunctional foot control.

Keep foot switch and AP key depressed and also push the joystick in the direction of the desired automatic position until a signal is heard.
Call up automatic position.

Press the joystick briefly.

LEDs on the dentist’s unit flash for approx. four seconds.

During this time, move the joystick in the appropriate direction or press once again for the automatic position LP (last position).

or

with instrument removed, call up automatic position on the multifunctional foot control.

For safety, when the spittoon is swivelled in, the chair movement is limited.
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Choose dentist’s level 1/2.

When instruments are set down

Switching on the multifunction foot control:

Keep the foot switch depressed and additionally operate the stirrup switch.

or

Switching on the Memospeed control:

Keep level preselection key depressed until a signal is heard.

Dentist’s level 1

Dentist’s level 2
**Instruments**

**Set cooling state.**

Remove instrument.
Press the spray preselection key on the multifunctional foot control.

LEDs light up: Cooling state spray

**Storage**

Press joystick with instrument picked up until a signal is heard.

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**Setting the Motor reverse.**

Remove the motor.

Press the motor counterclockwise key on the multifunctional foot control.

LED lights up: Motor counterclockwise rotation has been preselected.

**Storage:**

Press the joystick with the instrument picked up until a signal is heard.
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**Instruments**

**Set cold light on/off and cold light intensity.**

Remove instrument.
Move the intermediate switch to the left.

Cold light: On

**IStorage:**

Press joystick key with instrument picked up until a signal is heard.

**Intensity:**

Move the intermediate switch to the left and hold it there until the desired intensity is reached, then release it.

After the first buzzing tone, the buzzing tone is heard every further second, indicating the next highest intensity level.
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Setting the cold light intensity.

Level E, 1, 2, 3 (with installed Memospeed)

Remove instruments.
Press level preselection key until a signal is heard.

Press level preselection key 2 x briefly.

The cold light intensity can be set in 10 steps using the plus key or the minus key.

Storage:
Press level preselection key until a signal is heard.
Remove instrument.

Press level preselection key until a signal is heard.

It is possible to switch between maximum and manual mode using the plus key and the minus key.

Maximum mode: The turbine is always operated at maximum speed at every position of the foot switch.

Manual mode: A speed between 160,000 min\(^{-1}\) (left stop) and 300,000 min\(^{-1}\) (right stop) can be selected by means of the foot switch on the multifunction foot control.

Storage:

Press level preselection key until a signal is heard.
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Speed setting motor/Intensity setting PIEZOlum/COMFORTdrive 200 XD.
(with installed Memospeed)
Level 1, 2, 3

Remove motor/PIEZOlum
Press level preselection key until a signal is heard.

Set the intensity using the plus key and minus key.

Motor
Minimum mode:
K motor: 400 min⁻¹
KL motor: 2000 min⁻¹

Maximum mode:
K motor and KL motor: 40000 min⁻¹

PIEZOlum/COMFORTdrive 200 XD
Minimum: 1 / Maximum: 10
The step size is 0.25.

COMFORTdrive 200 XD
Min 1: 30,000 min⁻¹
Max 10: 200,000 min⁻¹

Storage:
Press level preselection key until a signal is heard.
ON/OFF functions of heating and cold light on the multifunction handpiece

Setting on dentist's element

Remove multifunction handpiece from the holder.

Holder switch is operated.

Press spray preselection key on the multifunctional foot control.

LED lights up: heating and cold light for multifunction handpiece on dentist's element are preselected.

Storage

Press joystick with instrument picked up until a signal is heard.

Cold light intensity is constant.
ON/OFF functions of heating and cold light on the multifunction handpiece

Setting on assistant's element

Remove multifunction handpiece from the holder.

Press air or water key on the multifunction handpiece briefly.

Press spray preselection key on the multifunction foot control.

LED lights up: heating for multifunction handpiece on assistant's element is preselected.

Move the intermediate switch to the left.

LED lights up: cold light for multifunction handpiece on assistant's element is on.

Storage

Press joystick with instrument picked up until a signal is heard.

Cold light intensity is constant.
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Setting the time.

Press clock key until a signal is heard.

Set hours by means of the plus key and the minus key.

Press clock key again briefly.

Set minutes.

Press clock key again briefly.

Set seconds to zero.

Saving:
Press clock key until a signal is heard.

Timer

Timer start

Press timer key. The set time starts to run. After the time has elapsed, a signal is heard

Setting the timer:
Press timer key until a signal is heard.

Set desired time using the plus key and the minus key. Max. 8 minutes, 30 seconds
Handling function keys – Control/Display

Setting a function.

Press key F1 or F2 until a signal is heard.

Select the function using the plus and minus keys.

Save the function.

Press key F1 or F2 until a signal is heard.

Calling up the function.

The saved function is triggered if the F1 or F2 key is pressed briefly.

14 functions are preprogrammed.
Spittoon bowl

Push the joystick briefly to the right.
The spittoon bowl is flushed.

Switch off flushing again:
Push the joystick once again briefly to the right or after reaching the set time.

Tumbler filler

Push the joystick briefly to the left.
The tumbler is filled.

Switch off filling again:
Push the joystick once again briefly to the left or after reaching the set time.

X-ray viewer

Push the joystick briefly upwards.
The X-ray viewer comes on.

Switch off X-ray viewer again:
Push the joystick briefly upwards again.

Hydroclean-function.

Push the joystick briefly downwards.
The Hydroclean function is switched on.
Switch off Hydroclean function again:
Push the joystick briefly downwards again.

This function activates the suction machine and causes the suction lines (from filter housing to separation system) to be flushed with clean water fully automatically for approx. 150 seconds. Bowl rinsing is switched on and off several times.
**Refilling Oxygenal.**

When a tone is heard at one second intervals (10 tones), the storage tank is empty.

Remove mouthwash glass filler and cover.

Fill with one bottle of Oxygenal (max. 1 litre). When a tone is heard at one second intervals (10 tones), the storage tank is full. Stop refilling immediately.

⚠️ **Do not fill the central hole (mouthwash glass drain).**
Instrument rinsing programme Control element/display
(only in conjunction with the intensive disinfection kit)

Place the sterilisation attachment on the ceramic bowl or insert it in the glass bowl.

Place the instruments in the sterilisation set on the spittoon.

Press the foot pedal to display the time for rinsing the instruments and triple or multifunction handpiece.

The standard value for rinsing program is 1:00 minute per instrument.
You can set the time from 0:0 to 8:30 min. by moving the joystick up and down.

Start the instrument rinsing program:
Move the joystick to the left when turning the unit back on, e.g. on the following day.

End of the rinsing program:
Spray air LED flashes yellow, spray water LED flashes green, power LED flashes green and service LED flashes yellow.
Set down the instruments.

End the rinsing program:
Move the joystick to the left or turn the unit off and on.
Intensive sterilisation (optional)

Start intensive sterilisation without an automatic request:

When the instruments and joystick are set down, press the foot switch until a signal is audible and the LED starts flashing (at a rate of once a second).

Place the instruments in the sterilisation set on the spittoon.

Start the function.

With the instruments and joystick set down, press the foot switch. Intensive sterilization runs automatically.

End of intensive sterilisation

After rinsing the instruments with a high Oxygenal concentration, the start of the dwell time is signalled with a 4 second beep. The dwell time is 30 min.

During this time, the device can be turned off. After intensive sterilisation is over, the Device ON LED and the service LED flash. After placing the instruments in their holders, the device is ready to operate.
Skip exposure phase

Function.

Intensive sterilisation occurs in step 7-5 (before the dwell time):

Turn the device off and on.

The intensive sterilisation switches to step 3.6. The automatic rinsing process starts. Then set down the instruments.

Intensive sterilisation is in step 4 (dwell time): Activate the footswitch and move the joystick to the left.

The intensive sterilisation switches to step 3.6. The automatic rinsing process starts. Then set down the instruments.

This function is necessary when intensive sterilisation has already started, and the treatment unit has to be used (for example: in emergencies, in hospitals, etc.).

After intensive sterilisation, the Oxygenal concentration is higher. The automatic rinsing process (duration: about 6 min.) may therefore not be terminated. After the rinsing process, the concentration is normal.
**Safety cut-outs.**

A safety cut-out is active if one of the LEDs of the automatic position keys flashes.

**Assignment:** 
- Backrest
- Seat
- Underside chair parallelogram
- Stirrup on multifunction foot control
- Assistant's element
- Patient's part swivelled over the patient's chair

The safety cut-outs immediately stop the respective chair movements.
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Further warnings.

**Oxygenal tank empty.**

A signal tone is heard at ten second intervals.

**Oxygenal tank full.**

Ten signal tones at one second intervals.

**Amalgam separator.**

Buzzer sounds and the Service LED flashes. This only indicates a fault in the amalgam separator. Detailed information is given on the display of the amalgam separator and in the associated operating instructions.

**Bowl suction valve overfilled.**

Service LED flashes for 10 seconds. Emergency off switch for bowl suction valve is operated. Water for bowl rinse and mouthwash glass filler is switched off.
Functions on multifunction footcontrol

- Function with instruments removed.
- Function with instruments placed in holder or instrument removed and stirrup switch* pressed once.

* Chair functions are switched off again by operating the foot switch.
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**Memospeed**

Display

Minus

Timer

Function 1

Function 2

Level switching/Saving

Plus

Time

**Dentist's unit**

Backrest down

Treatment position 1

Mouthwash glass filler

Seat up/

Automatic position 0/

X-ray viewer

Backrest up/

Treatment position 2/

Bowl flush

Last position / Automatic position preselection / Saving

Instrument light preselection indicator

Spray preselection indicator

R/L motor rotation direction indicator

Dentist's level 1/

Unit On indicator

Dentist's level 2/

Service LED

Seat down

Rinse position

Hydroclean

Last position indicator