Comfortek® Dental Unit

Instruction For Use





| 1. General Information | P3 |
|--------------------------------|---------|
| 2. Product Structure | P4-P5 |
| 3. Product Specification | P6 |
| 4. Safety Information | P7 |
| 5. Explanation of Symbols Used | P8-P9 |
| 6. Operation Instruction | P10-P22 |
| Touch Pane | P10 |
| Patient Chair | P11-P14 |
| Dental Light | P15 |
| Water Unit | P16-P18 |
| Dentist Element | P19-P21 |
| Assistant Element | P22 |
| 7. Maintenance | P23-P25 |
| 8. Malfunction Analysis | P26 |
| 9. EMC Declaration | P27-P29 |
| 10. Limited Warranty Statement | P30-P31 |

| Model | Comfortek Smart Comfortek Expert Comfortek Master | |
|-------|---|--|
|-------|---|--|

PRODUCT INTRODUCTION

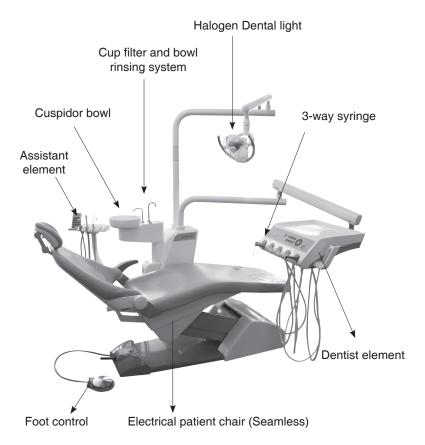
The Comfortek is specially designed to meet the needs of the dental professionals. The concept of hygienic treatment is emphasized in the unit design. Components are designed in a way dentists can easily maintain and clean it. The concept of the unit is to optimize the work flow for the dental practice, as well as provide a very clean and healthy treatment environment for both dentists and patients.

APPLICATION RANGE

This dental unit is suitable for the diagnosis, treatment and operations in the dental apartment.

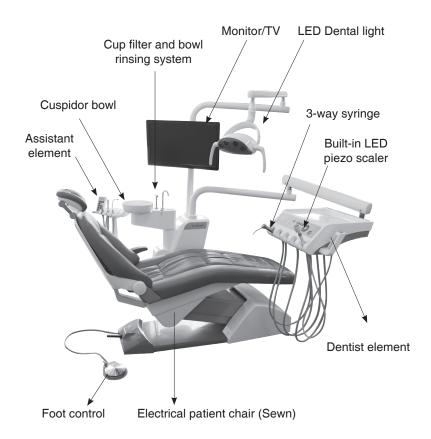
PRODUCT FUNCTION & STRUCTURE

The dental unit consists of patient chair, dentist element, assistant element, water unit and dental light.



Comfortek Smart Includes:

- Patient Chair
- Delivery Unit
- Cuspidor
- Doctor Stool
- Assistant Stool
- · Seamless Upholstery
- · Halogen Operating Light



Comfortek Expert Includes:

- · Patient Chair
- Delivery Unit
- Operating Light
- Cuspidor
- Doctor Stool
- Sewn Upholstery
- Assistant Stool
- Flexible Up/Down Assistant Delivery Arm
- L-Shape Light post
- Built-in LED Piezo Scaler

Comfortek Master Includes:

- · Patient Chair
- Delivery Unit
- Cuspidor
- · Doctor Stool
- Assistant Stool
- · LED Operating Light
- Sewn Upholstery
- L-Shape Light postFlexible Up/Down
- Assistant Delivery Arm
- Built-in LED Piezo Scaler
- Monitor/TV Mounting Arm
- Monitor/TV
- Built-in Computer
- Wireless Keyboard/Mouse
- Intra Oral Camera (Canaview)

| Dental light maximum illuminance | ≥25000lux |
|---|---|
| Electrical patient chair carry capacity | ≥1323N(=135KG) |
| The highest position of the patient chair from the ground | ≥780mm |
| The lowest position of the patient chair from the ground | ≤450mm |
| Backrest movement range | 110°-180° |
| Head rest extension range | 0-100mm |
| Dimensions(length *width*height) | 195cm x (120cm~180cm) x 200cm |
| Input power supply | 220-230V~, 110-115V~, 50Hz/60Hz |
| Maximum power dissipation | 300VA |
| Air supply pressure | 0.55-0.8 Mpa/ 5.5-8.0 bar |
| Water supply pressure | 0.20-0.40Mpa/2.0-4.0bar |
| Power cable requirement | Type: 227 IEC (RVV) 3 x 0.75 mm², according to the standard IEC 60227 |
| Electrical classification | Group 1 |
| EMC classification | Group 1, Class B |



- Make sure the dental unit is well-grounded.
- This dental unit does not include any components that can be fixed by the user. Therefore, should any trouble arise do not attempt to dismantle it yourself.
- Only fuse and accessories recognized by Sirona can be used.
- Do not use this dental unit in high temperature, high humidity, vibration flammability, unbalance, of dusty environment.
- This dental unit should not come into contact with and object in its operation range of movement.
- Clean accumulated water in air pressure relieve valve regularly. Clean or replace the valve core when necessary.
- After using this dental unit or if this dental unit is not being used, the
 patient chair should be returned to the lowest position and water, air,
 and power supply should be cut off.
- The operation cycling factor of the patient chair is 20%, and the continuous operation time should not exceed one minute.
- The device has been tested and homologated in accordance with EN 60601-1-2 for EMC.
- This does not guarantee in any way that this device will not be affected by electromagnetic interference.
 Avoid using the device in a high electromagnetic environment.
- Environment:

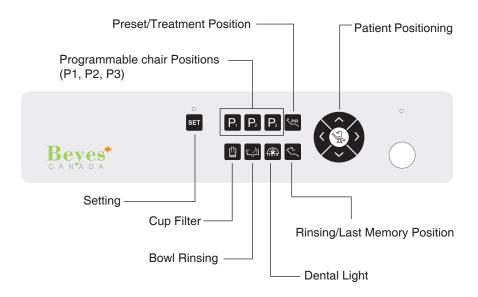
Temperature: 15~35°C Relative Humidity: ≤80%

- Observe the following guidelines when connecting your equipment to a power sourse.
- Check the voltage rating before you connect the equipment to an electrical outlet to ensure that the required voltage and frequency match the available power source.
- This product is provided with a 3-prong power cable: connect the power cable to a grounded electrical plug and outlet.
- Do not plug the equipment power cables into an electrical outlet if the power cable is damaged.
- If you use an extension power cable, ensure that the total ampere rating of the products plugged in to the extension power cable does not exceed the ampere rating of the extension cable.
- If you must use an extension cable or power strip, ensure the extension cable or power strip is connected to a wall power outlet and not to another extension cable or power strip must be connected to a ground wire.
- Do not allow contact between the yellow/green ground wire and the power wire, otherwise electrical shock, fire or damage can occur to your dental unit.

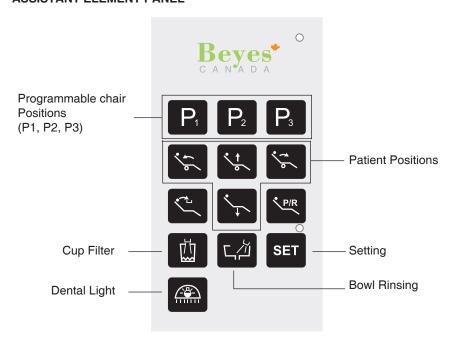
| Symbols | Definition | Symbols | Definition |
|---------|-------------------------|------------------|--------------------------|
| I | ON | Ŭ | Fill cup |
| 0 | OFF | 口河 | Rinse bowl |
| ! | Attention | <u>-</u> | Dental light |
| * 1 | Patient chair up | | Protective grounding |
| • | Patient chair down | 4 | Clean with water |
| . 7 | Backrest leans forward | ∭ 135°C 275°F | Can be sterilized in |
| | Backrest leans backward | Ж. 275°F | autoclave at 135°C/275°F |

| Symbols | Definition | Symbols | Definition |
|------------|---|------------|---|
| 7 1 | Rinsing position | | Handpiece water pressure adjuster |
| ₹P/R | Reset/treatment position | | Handpiece air pressure adjuster |
| SN | Serial number | ~~ <u></u> | Date of manufacture |
| | Manufacturer | EC REP | Authorised representative in the European Community |
| Â | Caution, consult accompanying documents | IPX1 | Protected against dripping water |
| * | Type B applied part | <u></u> | Caution, hot surface |

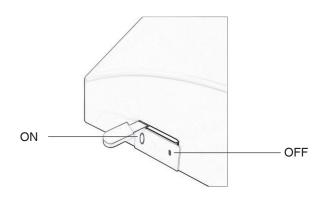
DENTIST ELEMENT PANE

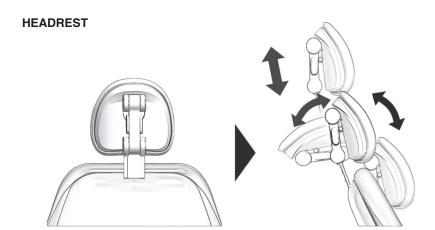


ASSISTANT ELEMENT PANEL



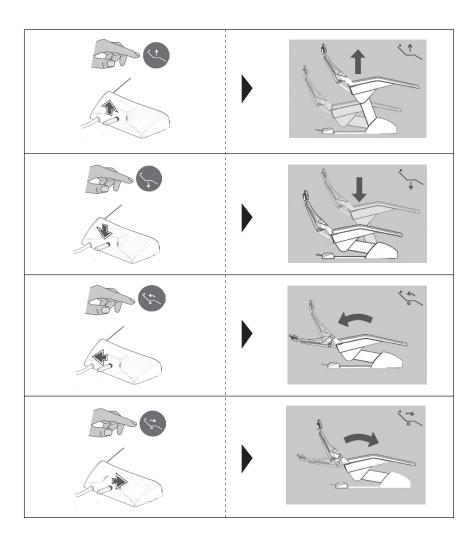
GENERAL SWITCH (WATER, AIR AND ELECTRICITY)





Beyes*

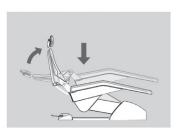
PATIENT POSITIONING



CONTROL OF PRESET POSITIONS

Reset Position

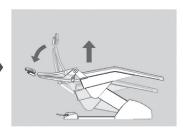




Treatment Position



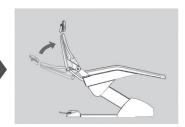




Rinsing Position



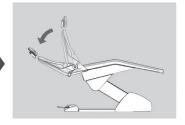




Last Memory Position





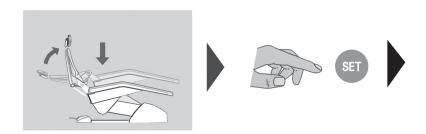


PROGRAMMABLE CHAIR POSITIONS



Set your desired chair position

1 Adjust the chair to your desired chair position 2

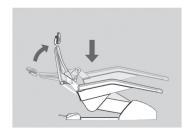




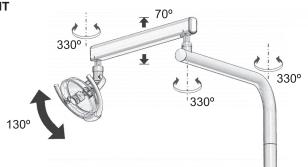
Use the programmed position



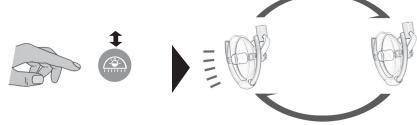




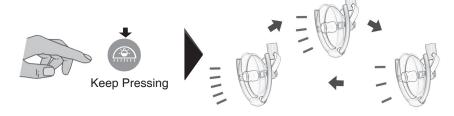
MOVEMENT

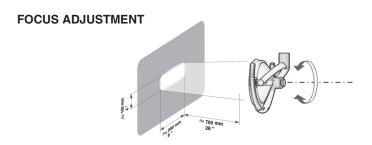


ON/OFF



INTENSITY ADJUSTMENT

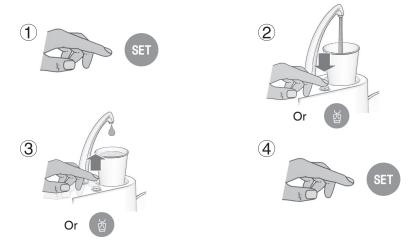




CUP FILLER



SETTING PROCESS



This setting can be saved after power off.

The auto volume should be no less than 100ml. Do not set the timing of cup filler when the bowl rinse is working

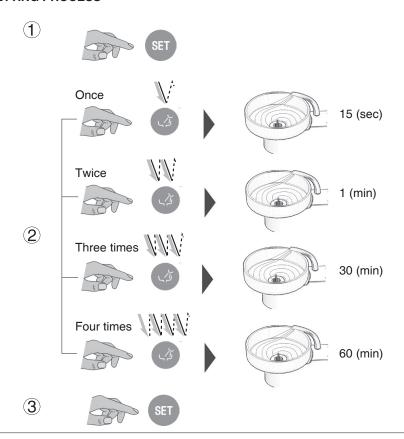
BOWL RINSING



SWIVELED CUSPIDOR BOWL

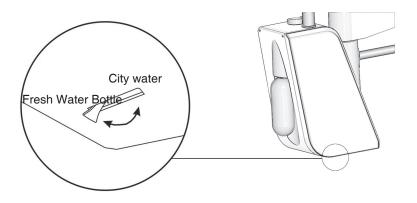


SETTING PROCESS

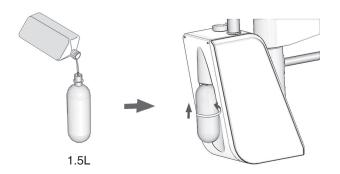


Beyes*

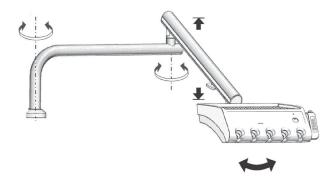
SWITCH WATER SUPPLY



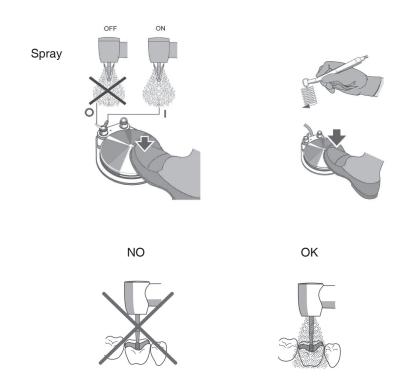
DISFILL WATER



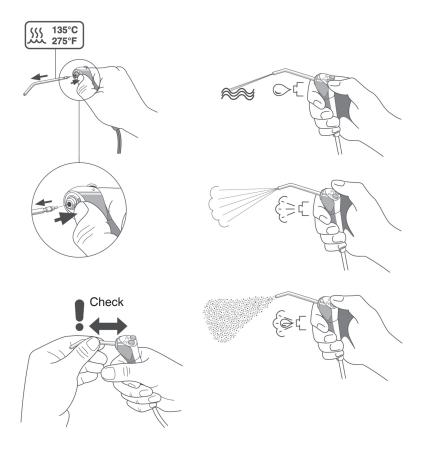
ARM ADJUSTMENT



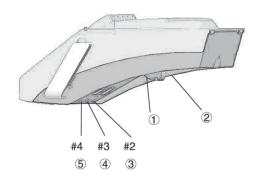
INSTRUMENT CONTROL



3 WAY SYRINGE

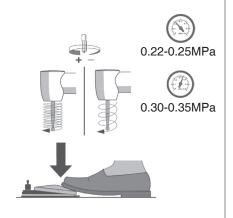


AIR/WATER PRESSURE ADJUSTMENT

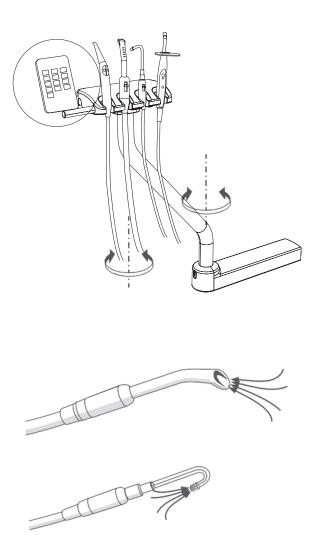


Water pressure adjuster

- ③ Air pressure adjuster of 2nd position
- 4 Air pressure adjuster of 3rd position
- ⑤ Air pressure adjuster of 4th position



As standard for Comfortek Expert, but as option for Comfortek smart



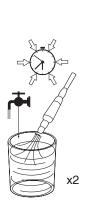
CUSPIDOR AND SUCTION



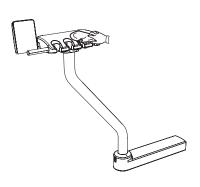
0.2 liters every 2hrs

1 liter at the end of each day

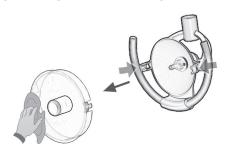
Clean suction filter at the end of each day







CLEANING THE DENTAL LIGHT WITH WATER



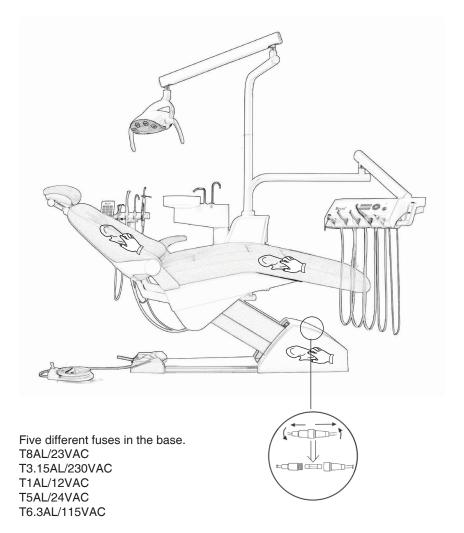
Halogen Operating Light: Take off the lamp cover and wipe it with a clean towl



LED Light: Wipe it with a clean towel

Beyes*

CLEANING THE SURFACE AND CHANGING THE FUSE



Maintenance should be performed by the user or operator.

Use medical alcohol(70%-75%) to clean the surface of the equipment



| Components | Check period | Conditions regarding cleaning and replacement | Maintenance procedure | |
|----------------------------|-----------------|--|--|--|
| Water filter | Monthly | Water unclean Filter polluted Used more than one year | Cut off the power and water supply. Open the front cover, and take off the plastic containere at the water filter. Take off the filter element, and get it | |
| | | | cleaned with water or replaced. Reinstall the filter and front cover. | |
| Air pressure relieve valve | Monthly | Water volume above 3/4 of the container | Cut off the power and water supply. Open the front cover, press te 3-way syringe, | |
| | | Water unclean | to release the air inside and drive the water | |
| | | Used more than one week | outwards. Then reinstall the front cover. | |
| Dirt trap | Daily | Used more than one week | Clean with water. | |

Note: Please process the dirt according to regulation.

| Malfunction | Cause Analysis | Solution | |
|---------------------------------|--------------------------------------|-------------------------------|--|
| No power for dental light | Bulb damaged | Replace bulb | |
| Goritar light | Disrupture contact | Adjust with tools | |
| | Bad connection in sockets | Adjust with tools | |
| | Twisted cables in joints | Replace cable | |
| No water coming from either the | Monthly | Adjust or replace hose | |
| cup filter or bowl | Eletromagnetic valve | | |
| S | damaged | Replace electromagnetic valve | |
| Suctions blockage | Filter blockage in assistant element | Clean filter | |
| | Hose blockage | Clean hose with water | |

Note: Please process the dirt according to regulation.



Table 201- Declaration - electromagnetic emissions

The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should ensure that it is used in such an environment.

| Emissions test | Compliance | Electromagnetic environment - guidance |
|---|----------------|--|
| RF emissions CISPR 11 | Group 1 | The product must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected. |
| RF emissions CISPR 11 | Class B | The product is suitable for use in all establishments other than domestic and those directly connected to the |
| Harmonice missions IEC 61000-3-2 | Not applicable | public low-voltage power supply network that supplies buildings used |
| Voltage fluctuations/ flicker emissions IEC 61000-3-3 | Not applicable | for domestic purposes. |

Table 202 - Declaration - electromagnetic immunity

Guidance and manufacturer's declaration - electromagnetic immunity

The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.

| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment - guidance |
|---|-------------------------------|----------------------------|---|
| Electrostatic discharge (ESD) IEC 61000-4-2 | ±6 kV contact ±8 kV air | ±6 kV contact ±8 kV air | Floors should be wood, concrete or ceramic tile. Iffloors are covered with synthetic materiwal, the relative humidity should be at least 30%. |

Beyes*

Table 204 - Declaration - electromagnetic immunity

Guidance and manufacturer's declaration - electromagnetic emissions

The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should ensure that it is used in such an environment.

| Immunity test | IEC 60501 test level | Compliance level | Electromagnetic environment - guidance |
|-------------------------------|-------------------------------|---------------------|---|
| | | | Portable and mobile RF communications equipment should be used no closer to any part of the product, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. |
| Conducted RF IEC 61000-4-6 | 3 Vrms 150 kHz to | 3 Vrms | d= 1,2√P |
| | 80 MHz | | d= 1,2√P, 80 MHz to 800 MHz |
| Radiated RF IEC 61000-4-3 | 3 V/m 80 MHz to 2.5 GHz | 3 V/m | d= 1,2√P, 80MHz to 2.5GHz Where P is the maximum output power rating of the transmitter in watts(w) according to the transmitter manufacturer and d Is the recommended separation distance in meters(m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: |

NOTE 1 At 80MHz end 800 MHz.the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.



- a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the product is used exceeds the applicable RF compliance level above, the product should be observed to verifiy normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Model Number or Type Number -by manufacturer.
- **b.** Over the frequency range 150 kHz to 80 MHz, field strengths should be less than [Vi]V/m.

Table 206-Recommended separation distances between portable and mobile RF communications equipment and the product

Recommended separation distances between portable and mobile RF communications equipment and the product

The product is intended for use In an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the product can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the product as recommended below, according to the maximum output power of the communications equipment.

| Rated maximum Separation distance according to frequency of transmit | | | | |
|--|-------------------------------|-------------------------------|-------------------------------|--|
| output power of transmitter W | 150 kHz to 80 MHz d= 1,2√P | 80 MHz to 800 MHz d= 1,2√P | 80 MHz to 2.5 GHz d= 1,2√P | |
| 0.01 | 0.12 | 0.12 | 0.23 | |
| 0.1 | 0.38 | 0.38 | 0.73 | |
| 1 | 1.2 | 1.2 | 2.3 | |
| 10 | 3.8 | 3.8 | 7.3 | |
| 100 | 12 | 12 | 23 | |

For transmitters rated at a maximum output power not listed above, the recommended separation distance(d) in meters(m) can be estimated using the equation applicable to the frequency of the transmitter, where P the maximum output power rating or the transmitter in watts(W) accordable to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz. the separation distance for the higher frequency range applies

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection structures, objects and people.

SCOPE OF WARRANTY

BEYES Dental Canada Inc. warrants to the original retail purchaser that it will be at BEYES option to repair or replace components of the dental products manufactured by BEYES (except for components not warranted under 'Exclusions') that are defective in material or workmanship under normal use and service. BEYES' obligation under this limited warranty is limited to the repair or replacement of the applicable components. This limited warranty shall only apply to defects that are reported to BEYES within the applicable warranty period and which, upon examination by Beyes, prove to be defective. This warranty extends only to the first retail purchaser of a product and is not transferable or assignable. Replacement components or products may be used and/or refurbished components or products, provided they are of like quality and specifications as new components or products.

APPLICABLE WARRANTY PERIOD

The applicable warranty period, measured from the date of invoice to the original user, shall be as follows

Comfortek Dental Chair Syestem are warranted for a period of 24 months

EXCLUSIONS

This limited warranty does not cover and BEYES shall not be liable for the following;

- (1) Defects, damage or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, negligent storage, tampering or failure to seek and obtain repair or replacement in a timely manner;
- (2) Products which are not installed, used, and properly cleaned and maintained as required or recommended in the BEYES 'Installation' and/or 'Installation' Operation Manual' for the applicable product, including the specified structural and operational environment conditions and electrical power requirements;
- (3) Products considered to be of a consumable or sterile nature;
- (4) Accessories or parts not manufactured by BEYES;
- (5) Charges by anyone for adjustments, repairs, replacement parts, installation or other work performed upon or in connection with such products which are not expressly authorized in writing in advance by BEYES;

- (6) Costs and expenses of routine maintenance and cleaning;
- (7) Representations and warranties made by any person or entity other than BEYES;
- (8) Matching of color, grain or texture except to commercially acceptable standards:
- (9) Changes in color caused by natural or artificial light;
- (10) Custom manufactured products;
- (11) Alterations or modifications to the product by any person or entity other than BEYES;
- (12) Products that would otherwise by covered under Sections 1 and 2 of this limited warranty, but are acquired: (i) from a person or entity that is not BEYES or one of its authorized dealers; or (ii) from a BEYES dealer that is not authorized to sell the product at issue in the geographic territory where the purchaser is located, or is not authorized to sell the product at issue within the medical, animal health or dental market, as the case may be, in which purchaser intends to use the product.

EXCLUSIVE REMEDY; CONSEQUENTIAL DAMAGES DISCLAIMER

Beyes' obligation under this limited warranty is the repair or replacement of defective parts. Beyes shall not be liable for and hereby disclaims any direct, special, indirect, incidental, exemplary or consequential damages or delays, including, but not limited to, damages for loss of profits or income, loss of use, downtime, cover and employee or independent contractor wages, payments and benefits.

WARRANTY DISCLAIMER

This limited warranty is beyes only warranty and is in lieu of all other warranties, express or implied. Beyes makes no implied warranties of any kind including any implied warranties of merchantability or fitness for a particular purpose. This warranty is limited to the repair or replacement of defective parts.

STATUE OF LIMITATIONS

No actions may be brought against beyes for breach of this limited warranty, or implied warranty, if any, or for any other claims arising out of or relating to the products, more than ninety (90) days following expiration of the limited warranty period.

Comfortek®



Beyes Dental Canada Inc.

23-595 Middlefield Road Toronto, Ontario, M1V 3S2

Canada

Tel: 1-855-603-1888 Fax: 1-855-720-1228 Email: info@beyes.ca Website: www.beyes.ca EU REP

Lotus NL B.V.

Koningin Julianaplein 10, le Verd, 2595AA, The Hague, Netherlands

Tel: +31645171879 (English) +31626669008 (Dutch) Email: info@beyes.ca Website: www.beyes.ca





Printed in Canada File #: ENI009 Rev2/20.07.20