

A5 Technical File



1. Operating conditions:

- 1.1. Voltage: AC220V± 10V
- 1.2. Frequency: 50Hz ± 1Hz
- 1.3. Ambient temperature: 5-40°C
- 1.4. Relative humidity: 80%
- 1.5. Water pressure: 0.20-0.40Mpa/2.0-4.0bar
- 1.6. Air pressure: 0.5-0.80Mpa/5.0-8.0bar
- 1.7. Displacement: 55 L/min (negative water pressure)
120 L/min (with negative air pressure)
- 1.8. Weight: 208.5KG

2. Technical parameters:

- 2.1. Dental chair
 - 2.1.1 Minimum height from the ground: 400 mm;
minimum height from the ground: 730 mm.
 - 2.1.2 Back tilt range: -5 degrees-67 degrees
- 2.2. Dental unit
 - 2.2.1 High speed handpiece speed 300000 r/min

2.2.2 Low speed air micro motor speed 14000 r/min

2.2.3 mouthwash temperature: 40°C± 5°C. 2.2.4 Cold light mouth lamp: 4500 Lux ~ 78000 Lux

3. Product requirements:

Patient unit:

☒ 3.1 AI intelligent voice control system, real-time human-machine interaction, voice control to turn off lights, turn on lights, flush spittoon, cup-filling, heating, let doctors free hands, but also to avoid cross infection. After giving the instruction, the tooth chair will have a corresponding response and execution.

The dental chair has Sensorless Lifting System, Sensorless lifting, giving patients more extreme experience.

Smart cleaning system: one key can make the machine rise to the highest, at the same time automatically turn off the oral lamp, the spittoon automatic rinse, to avoid the sewer water odor and blockage caused by drainage difficulties. One key initial position function, chair to the lowest, back to the highest.

SOS first aid mode: when the patient has anaphylactic shock or coma, it can quickly reach the-5 degree emergency position for self-awakening or artificial first aid operation, to avoid accidents caused by panic.

☒ 3.2 Ergonomic design backrest cushion, zero-gravity ultra-thin backrest, greatly improve the operation space of doctors, ultra-thin design, facilitate the movement space of doctors legs; wing design, effectively let patients elbows have enough activity space, treatment more relaxed, backrest is made of ABS engineering plastic, moisture-proof and mildew; metal skeleton, and more reliable support. Skin-friendly skin and memory cotton with waist pad let the patient lie for a long time; smooth touch, fashionable, noble appearance, more attention to the comfort and health of human body.**(New backrest: it can adjust the height 6cm-Options)**

☒ 3.3 Artificial advanced skin-friendly leather, with anti-mildew coating on the surface, according to QB / T4341-2012 test method and antibacterial effect, the antibacterial rate of Escherichia coli (AS1.90) and Staphylococcus aureus (ATCC6538p) are > 99.99% and > 99.99%, respectively.

Referring to ISO 10993-10:2021 Biological evaluation of medical Devices-Part 10: Skin Sensitization test, this test product is not considered a sensitizer in the guinea pig maximization test.

3.4 The headrest length can be adjusted between 0-160mm; the Angle is adjusted by knob with one hand to adjust. The headrest silicone sleeve can better protect the leather pad and can be disassembled and disinfected.

☒ 3.5 chair frame structure, using double layer 12mm thickened steel plate, bottom plate surface treatment with burst powder, not easy to rust (in 5% sodium chloride concentration, saline PH value 6.9, after 72 hours of neutral continuous spray salt spray test, spraying surface slightly embroidery trace). Collaborative chair position compensation function, pitch linkage, reduce the sense of back rubbing, and open a full range of comfort experience for patients.

3.6 The blockage protection design of chair, the chair encounter obstacles will automatically stop and small rise.

3.7 With emergency switch, the working state is green, the concave design can avoid doctor misoperation and facilitate emergency stop;

Doctor unit:

☒ 3.8 Dual-tube constant temperature system, the device plate and the device on the auxiliary control have a separate heater to control the water temperature, in low temperature weather, still get a comfortable

treatment experience. The disinfection and washing function of the pipeline, disinfect and flush three mobile phone tubes at the same time to improve work efficiency.

② 3.9 Humanized design six hanger, reserved scaler and electric motor position, according to the left and right rotation Angle according to the doctors different operation habits 110°.

② 3.10 Any key emergency stop device, the chair in the process of operation of the instrument plate any key can make the equipment immediately stop operation; Water and Air switch, the water and air can be turned off by a key to work, which is convenient to operate and improve the service life of the water pipe.

3.11 Dynamic device protection system: as long as one step, handpiece, scaler and other devices work, the rise and fall function of the chair will be locked to avoid the high-speed equipment when the assistant or others cause damage to the patient!

3.12 It has 3 groups of 9 programmed chair setting functions, spit restoration position, one-key first aid, one-key cleaning chair position function

With 20 functional keys, can control the chair position up and down, cold and hot water, spittoon flushing, oral lamp, X-RAY viewer and other functions, can arbitrarily set the spittoon flushing time and mouthwash water

3.13. built-in 3.5 inch LED viewing lamp: closer to doctors and patients, convenient observation and communication, not easy to be broken. DC power supply light-emitting uniform life is longer.

3.14 three rotating axis design of European cold light source LED lamp, die-cast aluminum handle, left and right hand can operate, projection lamp bead 6, with light control switch 3, the highest illumination 850 00 Lux, white light, yellow light and mixed light switch, strong and weak light stepless adjustment to adapt to different treatment needs, using philips beads, high lumen, low light decay, high, direct light source close to natural light, protect the doctor with the eye for a long time with the eye.

★3.15 multifunctional foot can control the tooth chair for lifting pitch adjustment, oral lamp switch, blowing air switch, mouthwash function control, free hands, higher efficiency; equipped with stainless steel foot hose, double structure can load 80 kg.

Water tank unit

3.16 rotating 60° chassis design: convenient for four-hand operation and maintenance. The chassis connecting rod center design, the use process is more smooth.

3.17 The whole machine is formed by injection molding process, and the plastic is ABS engineering plastic.

When the contact test of 70% isopropyl alcohol was conducted according to ISO21530:2004, using the following test agent, no significant changes were observed in visual and tactile examination

3.18 Water pipe using brand medical pipe, corrosion prevention, hydrolysis water pipe, service life of more than 8 years and passed the reference ISO 22196:2011 test method, antibacterial performance value of Escherichia coli (Escherichia coli)> 5.9, antibacterial rate (%)> 99.9, Staphylococcus aureus (Staphylococcus aureus)> 4.9, antibacterial rate (%)> 99.9

3.19 Strong suction system with muffler device: reduce noise, and the filter device of strong and weak suction system can be quickly disassembled and installed to facilitate cleaning and disinfection.

3.20 Detachable ceramic spittoon disc rotating 180 degrees.

★3.21 Spittoon disinfection system, first use disinfectant for disinfection, and then the system automatically switch to tap water rinse, to avoid spittoon odor.

3.22 The chassis program control device has the self-check function, and the digital tube can accurately display the fault information description of the 12 dental chair

Assistant unit:

3.23 Assistant control panel with 7 function keys, can rotate > 90 degrees; 2 joint assistant poles, protruding from below the box, both joints can be flexibly rotated in a large range, convenient for the assistant for four-hand operation;

4. The Configuration List:

The doctor unit
Top mounted instrument tray/ hanging type instrument tray * 1
Three doctors with a nine-memory bit system * 1
Water temperature adjustment system*1
Timer setting system*1
Spit restoration position design * 1
Titanium alloy four-hole handpiece tube * 3
3 in 1 syringe (hot and cold water) * 1
Built-in DC 24V X-RAY Viewer * 1
Water-air switch device * 1
Six-way adjustment of dentist stool* 1
★Pipeline constant temperature system * 1
One-button reset function/initial position * 1
Emergency chair position * 1
★clean-up position * 1
handpieces disinfection and flushing function * 1 (optional disinfection tray)
Induction-type LED oral lamp * 1
Multi-function foot control* 1
Water tank unit
Quality solenoid valve * 3
Detachable ceramic spittoon with a 180-degree rotation * 1
Set able gargle water control system * 1
Spittoon disinfection * 1
Large-capacity automatic thermostatic heating system * 1
Strong suction system * 1
Weak suction system * 1
Strong suction muffling device* 1
Ssuction filter device * 1
Assistant unit
Assistant instrument tray * 1
3 in 1 syringe (hot and cold water) * 1
Removable the disinfection weak suction connector* 1
Removable the disinfection strong suction connector * 1
Patient unit
★Intelligent voice control system * 1
★Slow start and slow stop system * 1
★Failure self-test system * 1
Low-noise electric dental chair * 1

Chair frame encounter resistance device * 1
Safety emergency stop control device * 1
Chair interlocking system * 1
Deluxe double-joint folding head rest * 1
Ergonomic skin-friendly skin seat cushion * 1
Ergonomic skin-friendly backrest * 1
Waist pad neck pillow * 1
Headrest silicone cover * 1
Footrest cover*1(only for full cushion)