





Fast-Fill
USER MANUAL

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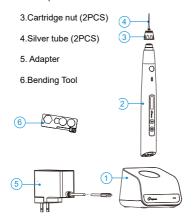
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1. Scope of Fast-Fill

1.1 Parts Identification

- 1.Charge Base
- 2.Handpiece

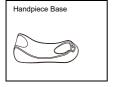


1 Scope of Fast-Fill

1.2 Components and Accessories

Fast-Fill Handpiece (1pcs)	Charge Base (1pcs)	Adapter (1pcs) Part
0		
Cartridge nut (2pcs)	Bending tool (1pcs)	
Silver tube (1pcs)	Silver tube (1pcs)	
Size: 25Ga	Size: 23Ga	
Color: Black	Color: Natural	
(Disposable)	(Disposable)	

1.3 Options (sold separately)



2 Symbols used in the User Manual

2. Symbols used in the User Manual

	If the instructions are not followed properly,	
! WARNING	operation may lead to hazards for the product or	
	the user/patient.	
NOTE	Additional information, explanation of operation	
	and performance.	
SN	Serial number	
REF	Catalogue number	
***	Manufacturer	
سا	Date of manufacture	
LOT	Lot of manufacture	
	Class II equipment	
ⅉ	Type B applied part	
CE	CE marking	
===	Direct current	
滾	WEEE directive marking	
*	Keep dry	
134°C	Can be autoclaved up to a maximum temperature	
	of 134° Celsius	
EC REP	Authorized Representative in the European	

2 Symbols used in the User Manual

	Community	
-20°C	Temperature limitation	
20%	Humidity limitation	
70kPa 106kPa	Atmospheric pressure limitation	
Eighteeth	Manufacturer's LOGO	
&	Consult instructions for use	
Ĭ	Washer-disinfector for thermal disinfection	
	Caution, hot surface	
(2)	Do not reuse	

3. Before Use

3.1 Intended Use

Fast-Fill is intended for heating and extruding Gutta-percha into cleaned and shaped canals during root canal treatment.

This device must only be used in hospital environments, clinics or dental offices by qualified dental personnel and not used in the oxygen-rich environment.

3.2 Contraindications

This device must not be used in cases where a patient has been fitted with an implanted heart pacemaker (or other electrical equipment) and has been cautioned against the use of small electrical appliances (such as electric shavers, hair dryers, etc.)

ainst the use of small electrical appliances (such as electric snavers, hair dryers, et Do not use on patients with a known sensitivity to natural rubber latex or silver.

Safety and effectiveness have not been established in pregnant women and children.



WARNING

Read the following warnings before use:

- The device must not be placed in humid surroundings or anywhere where it can come into contact with any type of liquids.
- Do not expose the device to direct or indirect heat sources. The device must be operated and stored in a safe environment.
- 3. The device requires special precautions with regard to electromagnetic compatibility (EMC) and must be installed and operated in strict compliance with the EMC information. In particular, do not use the device in the vicinity of fluorescent lamps, radio transmitters, remote controls and do not use this system near the active HF Surgical Equipment in the hospital. Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Fast-Fill, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result. Do not charge, operate or store at high temperatures. Comply with the specified operating and storage conditions.
- 4. Gloves and a rubber dam are compulsory during treatment.
- 5. If irregularities occur in the device during treatment, switch it off. Contact the agency.
- 6. Never open or repair the device yourself, otherwise, void the warranty.

4.Installing the Fast-Fill

4.1 Installation of

Gutta-percha

Push the Gutta-percha into the handpiece.





This product is not included the Gutta-percha. Please use the Gutta-percha is recommended by Sifary. Refer to the Technical data of this manual for the recommended Gutta-percha size.

4.2 Installation of Cartridge

Screw the cartridge along the thread of the handpiece to install.



The silver tube on cartridge cannot be turned or bended by hand.

Use bending tool to bend the silver tube.



Use bending tool with the hexagonal hole matched to rotate the silver tube.



Unscrew the cartridge from the handpiece to disassemble.





To remove the cartridge. As shown in the picture, touch the cartridge nut with finger rapidly, make sure it is not hot before operation. If the temperature is too high, waiting 3-5 minutes till it is cooling.



Even if the cartridge cools down already, we strongly recommend not to touch the silver tube. There is a risk of heat injury or damaging the silver tube. Hold the black shell to remove.



4.3 Installation of adapter

Plug the head into the base if they are separated in the package.



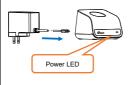
4.4 Connecting charge

base

Plug the USB of adapter into the charge base, and plug the other end into a power outlet.



The Power LED on charge base will light up in green.



NOTE

Only the original adapter can be used.

Put the handpiece all the way into the charge base. The charge state will show on the screen.



NOTE

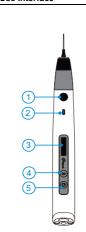
Put the handpiece into the charge base in the right direction, otherwise the handpiece will not be charged.



If only need a base to put the device on dentist element of dental chair (without charge function), handpiece base is recommended to use instead of charge base.



5.Use Interface



- Main switch
- (2)

Indicator light

- (3) Display Screen
- (4) S Set switch
- O Power switch

Turn Power On

Long press む.

Change Memory

Shot press S to change temperature memory from T1 to T3.

Memory Parameter Setting

During standby state, holding down press S more than 2 seconds to enter memory parameter setting. Parameter T1 to T3 can be set independently. Press S till target setting, press
to adjust, then press S to confirm.

Heating

During standby state, shot press . and the indicator light flashes.

Stop heating

During heating state, shot press .

Pushing out Gutta-percha

When the heating is completed, the indicator light will be on. Holding down press .

Turn Power Off

Long press O more than 2 seconds.

Advanced setting

During power off state, holding down press ● then press ७ to enter advanced setting. Press S till target setting, press • to adjust, then press

S to confirm.

6.Setting

6.1 Memory Parameter Setting

T1 160°C GP 100%	Fast-Fill has 3 memory programs (T1,T2,T3), press to change during standby state, the memory number will change accordingly.
Temperature 160 °C	During any memory, holding down press in 2 seconds, the "Temperature" of this memory can be changed. Press till target temperature, the temperature can be set from 100°C to 200°C. Press to confirm and enter next interface.
Push Speed Mid	The "Push Speed" of this memory can be changed. Press ● till target speed, the speed can be set Low, Mid, High. Press ⑤ to confirm and enter next interface.
Change GP No Yes	The "Change GP" can be chosen. Confirm the Gutta-percha need to change or not, press ● to adjust. If choose "No", Press ⑤ to confirm and return to standby interface. If choose "Yes", see chapter 7.3 Changing Gutta-percha for more information.

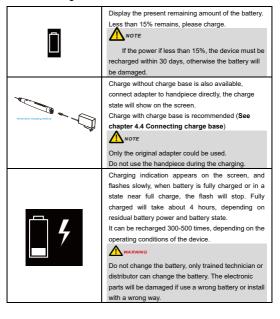
6.2 Advanced Setting

AutoPowerOff 5 Min	During power off state, holding down press then press to enter advanced setting, the "AutoPowerOff" will appear on the display screen. Press to adjust, the auto power off time can be set to 5, 10 and 15 minutes. Press to to softim and enter next interface.
Beep Volume Vol 1	The "Beep Volume" can be changed. Press ■ to adjust. The "Beep Volume" can be set to 0, 1 and 2. Press ⑤ to confirm and enter next interface.
RestoreSettings NO YES	The "RestoreSettings" can be changed. Press ● to adjust, press ⑤ to confirm and enter next interface. NOTE If choose "YES", all the setting parameters will be covered by factory settings.
Save NO YES	The "Save" can be chosen. Confirm the setting need to save or not, press ■ to adjust, press ⑤ to save and power off.

7 Operation

7.Operation

7.1 Charge



7.2 Heating and Using

	Shot press •to heat the cartridge during standby state. NOTE Push out insufficiently warmed Gutta-percha about 10mm before each use.
-E 0.	The LED flashes in blue slowly during heating. When up to target temperature, the flash will stop and stay in blue. WARNING If the handpiece is not operated for a long time after the heating completed, press Oto stop heating. Do not place the heated cartridge in the root canal for more than 5 seconds to prevent thermal injury to the patient.
↑ ② ③ ④ ∭ <u>«« 160°C</u>	Heating indication, When the set temperature is reached, heating process will switch off and " ■" will display on screen. Direction of pushing ③ Real time heating temperature Gutta-percha residual
<u> </u>	After heating completed, hold down press ● to push out Gutta-percha. At the same time, ①the light of direction flashes, ② the residual Gutta-percha bar will change according. Press Ů to exit and return to standby interface.



If there is a little residual Gutta-percha in handpiece or cartridge, tighten the cartridge again to prevent leak Gutta-percha after heating.

If there is too much residual Gutta-percha in handpiece or cartridge, please refer to daily cleaning process.

Please use good mobility Gutta-percha, otherwise the Gutta-percha will leak. If leaking please refer to daily cleaning process.

7.3 Changing Gutta-percha

7.5 Changing Catta-percha		
Change GP No Yes	During standby state, holding down press ⑤ in 2 seconds to enter memory parameter setting. Press ⑤ till "Change GP". Press ⑥ till "Yes" and press ⑤ to confirm.	
Heating	Firstly, the handpiece will heat to about 150°C to melt the residual Gutta-percha.	
<u>«</u>	Secondly, the pushrod pushes forward until the Gutta-percha is exhausted, the direction of push rod movement displays on the screen.	
<u>>>></u>	Then, the direction and position of push rod display on the screen. The push rod needs returning to original position. This operation takes about 50 seconds.	
Please insert GP	Finally, when the pushrod is back to original position, "Please insert GP" will display on the screen. Press any key to exit and return to standby interface.	
NoTE During this state, press ♥ can stop and return to standby interface.		

After pushing the Gutta-percha bar into handpiece with medical forceps, screw down the cartridge.





If there is some Gutta-percha in the handpiece, it is inconvenient to install the Gutta-percha bar. Push the residue to the bottom of cavity with the pin on bending tool.



8.1 Piston cleaning

Piston cleaning		
∰ <u>≪ 150°C</u>	Heat to 150°C to melt Gutta-percha, then remove the cartridge. NOTE A small amount of Gutta-percha residue have no effect of function.	
	Dispose of the silver tube and then clean the residue inside the cartridge nut with medical forceps.	
	Clean the overflow Gutta-percha on the top of the handpiece with medical forceps.	
	When the medical forceps cannot get into the cavity to clean, Heat the handpiece to about 150°C, then unscrew the "Cleaning Nut" with the bending tool. NOTE Heating to 150°C to avoid damaging the "Cleaning Nut".	
	Clean the inside of nut with medical forceps.	



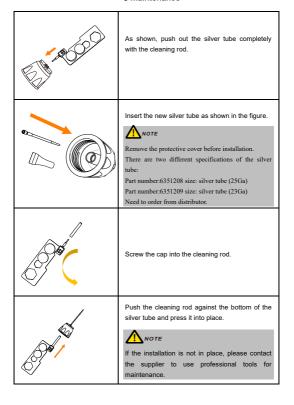
Heat the handpiece to about 150°C. Then install the "Cleaning Nut" to the handpiece after cleaning is completed.

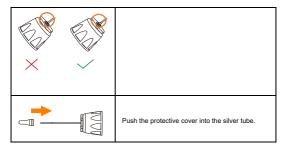
8.2 Changing silver tube of cartridge

The silver tubes of cartridge are single use only and should only be used on one patient.

It can be replaced according to the following steps.

	Cut the broken silver tube from the step where the arrow indicates with knife.
En-Co	Push out the silver tube with the bottom plane of the bending tool.
	Unscrew the cap from the cleaning rod.





8.3 Cleaning, Disinfection and Sterilization

8.3.1 Foreword

The parts for clinical application contamination are the outer surfaces of the cartridge and bending tool. For hygiene and sanitary safety purpose, the components (cartridge and bending tool) must be cleaned, disinfected and sterilized before each usage to prevent any contamination. This concerns the first use as well as the subsequent uses.

Comply with your national guidelines, standards and requirements for cleaning, disinfection and sterilization.

8.3.2 General recommendations

- The user is responsible for the sterility of the product for the first cycle and each further usage as well as for the usage of damaged or dirty instruments, where applicable after sterility.
- For your own safety, please wear personal protective equipment (gloves, safety glasses, etc.).
- Use only a disinfecting solution which is approved for its efficacy (VAH/DGHM-listing, CE marking, and FDA approval) and in accordance with the DFU of the disinfecting

solution manufacturer.

- The water quality has to be convenient to the local regulations especially for the last rinsing step or with a washer-disinfector.
- · Thoroughly clean and wash the components before autoclaving.
- Do not use bleach or chloride disinfectant materials.

8.3.3 Autoclavable Components

Autoclavable Components			
Cartridge nut		Bending Tool	
Silver tubes			



- Only the components above can be autoclaved.
- · Before first use and after each use, sterilize the above components.

The Cartridge Nut, Silver Tube and Bending Tool must be cleaned, disinfected and sterilized before first use following step 3 to step 9. After each use, please follow step 1 to step 9.

1 to step 9.		
STE	INSTRUCTIONS	
Р		
NO.		
1	Initial treatment at point of use	Immediately after using, wipe gross contaminations from the components. Prepare the components directly after treatment. Do not submerge the components or wipe them with any of the following functional water (acidic electrolyzed water,

		strong alkaline solution, or ozone water), medical agents (glutaral, etc.), or any other special types of water or commercial cleaning liquids. Such liquids may result in metal corrosion and adhesion of the residual medical agents to the components.
2	Preparatio n before cleaning	Remove and disconnect the Cartridge from handpiece. Refer to "Chapter 4-Installing the Fast-Fill" of this manual for disassembly instructions. Then, cut out the Silver Tube from Cartridge. Refer to "Chapter 8.2-Changing silver tube of cartridge". Put them in container for transportation. MARRIENTS Observe suitable personal protective measures. The Silver Tube is single use only and shall be disposed of according to the local environmental protection laws and regulation after use.

The following Step 3 to Step 5 are operated in a washer-disinfector:



- Use only approved washer-disinfectors according to EN ISO 15883, maintain and calibrate it regularly.
- Follow instructions and observe concentrations given by the manufacturer (see general recommendations).
- Sufficient rinsing step should be available in purified water (max 10 germs/ml and max 0.25 endotoxin units/ml)
- Avoid any contact between the cartridge nut and any instrument, kit, support or container.
- Make sure the components are dry before moving to the #6 step.

		Carefully put the components (Cartridge nut, Bending Tool			
	Cleaning:	and a new Sliver Tube) into the washer-disinfector and set			
3	Automated	the parameters as follows:			
		 Pre-clean with cold tap water for 2 min. 			
		- Clean with cleanser 55 ℃ for 5 min with			
		demineralized water. Refer to the instructions for			

4	Disinfectio	use of the washer-disinfector for the program settings and cleanser that must be used. - Rinse with demineralized water for 1 minute (Rinsing twice). (Validation was performed using Miele PG8581 with the program "Vario TD Dental", the cleaner 0.5% neodisher® Mediclean Forte) Thermal disinfection at least 5 min at 93°C, make sure A0
	n: Thermal	value≥3000.
5	Drying	Recommended 20min, 90°C NOTE The drying procedure is normally part of the cleaning program of the washer-disinfector. Please observe the instructions for use of the washer-disinfector.
6	Maintenan ce and Inspection	Inspect components and sort out those with defects. Dirty components must be cleaned and disinfected again.
7	Packaging	Pack each component in a separate steam-sterilization pouch. **WARNING** Check the validity period of pouch given by the manufacturer to determine the shelf life. Use pouches which resist to a temperature up to 141°C and in accordance with EN ISO 11607-1.
8	Sterilizatio n	Steam sterilization at 134°C at least 5 minutes. Minimum drying time after sterilization: 10 minutes. (Validation was performed with fractionated prevacuum type Systec DX-45, half cycle) WARNING Use only approved autoclave devices according to EN 13060 or EN 285. Use a validated sterilization procedure according to EN

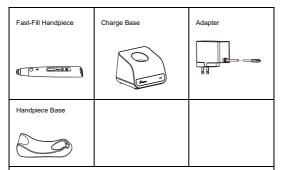
		Respect the maintenance procedure of the autoclave device given by the manufacturer. Use only this recommended sterilization procedure. Control the efficiency (packaging integrity, no humidity, color change of sterilization indicators, physicochemical integrators, digital records of cycles parameters). The sterilization procedure must comply with EN ISO 17665. Waiting for cooling before touching.
9	Storage	Keep the components in sterilization packaging in a dry and clean environment. WARNING Sterility cannot be guaranteed if packaging is open, damaged or wet. Check the packaging before using it (packaging integrity, no humidity and validity period).



The instructions provided above have been validated by the manufacturer of the medical device as being capable of preparing a medical device for use. It remains the responsibility of the processor to ensure that the processing, as actually performed using equipment, materials and personnel in the processing facility, achieves the desired result. This requires verification and/or validation and routine monitoring of the process. Likewise, any deviation by the processor from the instructions provided should be property evaluated for effectiveness and potential adverse consequences.

8.3.4 Disinfection components

Disinfection components



Wipe all the surfaces with a cloth lightly moistened with Ethanol for Disinfection

(Ethanol 70 to 80 vol%) at least 2min, repeat for 5 times.

NOTE

- Do not use anything except Ethanol for Disinfection (Ethanol 70 to 80 vol%).
- Do not use too much ethanol as it's going into machine and damage the components inside.
- Do not spray any liquid directly on the handpiece. Do not allow any moisture to get into the handpiece.

9 Troubleshooting

9.Troubleshooting

When trouble is found, check the following points before contacting your distributor. If none of these are applicable or the trouble is not remedied even after action has been

taken, the product may have failed. Contact your distributor.

Problem	Cause	Solution	Ref. chap	
The power	The battery is flat.	Charge the battery.	7.1	
is not	Press the power switch too	Long press the	5	
turned on.	short time.	power switch.	5	
	Using a wrong adapter.	Use the original	4.3	
-		adapter.	4.3	
The power	The adentes is not consisted	Check the	4.3	
LED on	The adapter is not connected.	connection.	4.3	
charge base does	The plug of the adapter is not	Check the	/	
	inserted into the outlet.	connection.	1	
not light.	There is no electricity in the	Check the	1	
	outlet.	connection.	1	
	Put the handpiece into the			
	charge base in the wrong	Check the direction.	4.4	
	direction.			
		Remove debris		
No charge	Charge pin of charge base is	which between move part and base of the		
indicator	unable to rebound.			
flash on		charge pin.		
handpiece	Contactors are dirty.	Cleaning the surface	/	
screen.	Contactors are dirty.	of contactors.		
		Connect adapter to		
	The charge base is broken.	handpiece directly,	1	
	The charge base is broken.	and contact your	/	
		distributor.		
Handpiece		Check if there is a		
screen	The handpiece is broken.	sound of beep, and	/	
does not		contact your		

9 Troubleshooting

appear.		distributor.	
No sound.	Beep volume is set to 0.	Set beep volume to 1, 2 or 3.	6.2
No gutta percha out.	The cartridge is broken.	Use a new cartridge.	1

10 Technical Data

10.Technical Data

Manufacturer	Changzhou Sifary Medical Technology Co.,Ltd		
Model	Fast-Fill		
Dimensions	25cm x 10cm x 11cm±1cm (Outer box)		
	Diameter: 2.5mm-2.8mm		
Gutta-percha size	Length: 14mm-16mm		
	Applicable temperature: 100°C-200°C		
Weight	1.1kg±10%		
Power supply	Lithium ion battery: 3.7V, 2600mAh, ±10%		
Charger power supply	AC 100-240 V, ±10%		
Charger power output	6V 3A		
Frequency	50/60Hz, ±10%		
Temperature	100℃~200℃		
Electrical safety class	Class II		
Applied part	В		
	Use: in enclosed spaces		
	Ambient temperature: 5°C ~ 40 °C		
Operating conditions	Relative humidity: <80%		
	Operating altitude < 3000m above sea level		
	Atmospheric pressure: 70kPa-106kPa		
Transport and storage	Ambient temperature: -20 °C ~ +55 °C		
conditions	Relative humidity: 20% ~ 80 %		
CONTUNIONS	Atmospheric pressure: 70kPa~106kPa		

11.EMC Tables

Guidance and manufacturer's declaration - electromagnetic emissions

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

Emissions test	Complian ce	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The Fast-Fill uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The Fast-Fill is suitable for use in all
Harmonic emissions IEC61000-3-2	Class A	establishments, including domestic establishments and those directly connected
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies	to the public low-voltage power supply network that supplies buildings used for domestic purposes.

Guidance and manufacturer's declaration - electromagnetic immunity

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

Immunity test	IEC 60601 test	Compliance	Electromagnetic environment - guidance		
Electrostatic discharge (ESD) IEC 61000-4-2	+/- 8 kV contact +/- 2 kV, +/- 4 kV, +/- 8 kV, +/- 15 kV air	+/- 8 kV contact +/- 2 kV, +/- 4 kV, +/- 8 kV, +/- 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.		
Electrical fast transients/burst s IEC 61000-4-4	±2kV 100kHz repetition frequency	±2kV 100kHz repetition frequency	Mains power quality should be that of a typical commercial or hospital environment.		

Surge IEC 61000-4-5	Line to line: ±0.5kV, ±1kV Line to earth: ±0.5kV, ±1kV, ±2kV	Line to line: ±0.5kV, ±1kV Line to earth: ±0.5kV, ±1kV, ±2kV	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips IEC 61000-4-11 Voltage interruptions IEC 61000-4-11	0% UT; 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0% UT; 1 cycle and 70% UT; 25/30 cycles sine phase at 0° UT; 250/300 cycle	0% UT; 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0% UT; 1 cycle and 70% UT; 25/30 cycles sine phase at 0° 0% UT; 250/300 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of devices require continued operation during power mains interruptions, it is recommended that devices be powered form an uninterruptible power supply or a battery
Rated Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz or 60Hz	30 A/m 50Hz or 60Hz	Power frequency magnetic field should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Note: UT: rated voltage(s); E.g. 25/30 cycles means 25 cycles at 50Hz or 30 cycles at 60Hz

Guidance and manufacturer's declaration - electromagnetic immunity

The Fast-Fill is intended for use in the electromagnetic environment specified below.

The customer or the user of the Fast-Fill should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compli ance level	Electromagnetic environment - guidance
Conducted	3 V	3 V	Portable and mobile RF
dis-turbances	0.15 MHz – 80 MHz,		communications equipment should be
induced by RF	6 V in ISM bands		usedno closer to any part of the
fields	be-tween 0.15 MHz		Fast-Fill, including cables, than the
IEC 61000-4-6	and 80 MHz, 80 %		recommended separation distance
	AM at 1 kHz		calculated from the equation
			applicable to the frequency of the
			transmitter.
Radiated RF EM	3 V/m, 80 MHz - 2,7	3V/m	Recommended minimum
fields	GHz, 80 % AM at 1		separation distances
IEC 61000-4-3	kHz		See the RF wireless communication
-			equipment table in "Recommended
			minimum separation distances"
Proximity fields	See the RF wireless	Complies	
from RF wireless	communication		
communication	equipment table in		
equipment	"Recommended		
IEC 61000-4-3	minimum separation		
	distances"		

Recommended minimum separation distances

Nowadays, many RF wireless equipments have being used in various healthcare locations where medical equipment and/or systems are used. When they are used in close proximity to medical equipment and/or systems, the medical equipment and/or systems' basic safety and essential performance may be affected. The Fast-Fill has been tested with the immunity test level in the below table and meet the related requirements of IEC 60601-1-2:2014. The customer and/or user should help keep a minimum distance between RF wireless communications equipments and the Fast-Fill as recommended below.

11 EMC Tables

				Maxi-		Immunit
Test	Band			mum	Dis-	у
frequency	(MHz	Service	Modulation	powe	tance	Test
(MHz)					(m)	level
				(W)		(V/m)
	380-	TETRA	Pulse			
385	390	400	Modulation	1.8	0.3	27
	390	400	18Hz			
	430-	GMRS 460	FM± 5 kHz			
450	470	FRS 460	deviation	2	0.3	28
	4.0	1110 400	1 kHz sine			
710	704-	LTE Band	Pulse			
745	787	13, 17	modulation	0.2	0.3	9
780	707	15, 17	217Hz			
810		GSM 800/900,				
870	800-	TETRA 800,	Pulse			
	960	iDEN 820,	modulation	2	0.3	28
930		CDMA 850,	18Hz			
		LTE Band 5				
1720		GSM 1800;		2	0.3	28
1845		CDMA 1900;	Pulse			
	1700-	GSM 1900;	modulation			
1970	1990	DECT;	217Hz			
1970		LTE Band 1, 3,	217112			
		4, 25; UMTS				
		Bluetooth,				
	2400- 2570	WLAN,	Pulse			
2450		802.11 b/g/n,	modulation	2	0.3	28
		RFID 2450,	217Hz			
		LTE Band 7				
5240	5100-	WLAN 802.11	Pulse			
5500	5800	a/n	modulation	0.2	0.3	9
5785		a ii	217Hz			



WARNING

 Use of accessories and cables other than those specified or provided by the manufacturer of Fast-Fill could result in increased electromagnetic emissions or decreased electromagnetic immunity of Fast-Fill and result in improper operation.

Cable information:

Cable Name	Cable Length (m)	Shielded or not	Remark
Adapter Cable	2	No	/

Use of Fast-Fill adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, Fast-Fill and the other equipment should be observed to verify that they are operating normally.

12 Statement

12 Statement

Service Life

The service life of Fast-Fill series products is 3 years.

Maintenance

MANUFACTURE will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair.

Disposal

The package should be recycled. Metal parts of the device are disposed as scrap metal. Synthetic materials, electrical components, and printed circuit boards are disposed as electrical scrap. The lithium batteries are disposed as special refuse. Please deal with them according to the local environmental protection laws and regulation.

Rights

All rights of modifying the product are reserved to the manufacturer without further notice. The pictures are only for reference. The final interpretation rights belong to CHANGZHOU SIFARY MEDICAL TECHNOLOGY CO., LTD. The industrial design, inner structure, etc, have claimed for several patents by SIFARY, any copy or fake product must take legal responsibilities.



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