

INSTRUCTIONAL MANUAL



Systems including:

**PTV AUTOMATIC 3000
PTV AUTOMATIC 2000
BOS-2000-3 TWIST
BOS-2000-2 TWIST
AVP-1000**

Please read all instructions prior to use.

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Who Needs the Vacuum Therapy System?

- Men with erection problems of all ages, even those who haven't achieved an erection in several years.
- Men who sometimes fail to get a full erection due to stress, excitement or fear.
- Men with a problem of too soft an erection.

Vacuum therapy systems are meant for the treatment of men with erectile dysfunction. Millions of men are estimated to be affected. Erectile dysfunction could be a sign of the existence of a serious blood flow or nerve problem, which could cause stroke or heart attack. Erectile dysfunction is often the side effect of a medication you may be taking. If you suspect this, talk to your doctor. You should never change or stop taking medication without first consulting your doctor. Smoking, alcoholism and drug abuse can all contribute to an erectile dysfunction disorder.

About the Vacuum Therapy System

The vacuum therapy system consists of a vacuum pump, adapter bushing(s), a penile tube, ring loading cone and tension rings. The intended use of the system is to assist users in achieving a full erection, i.e., to create an erection in men with erectile dysfunction (as described above) by means of applying vacuum to the penis, which draws blood into the penile corpora cavernosa, causing the penis to become erect and rigid. The tension rings are then placed around the base of the erect penis to restrict the flow of venous blood leaving the penis. Vacuum therapy has become one of the most accepted forms of treatment for erectile dysfunction. It is better to train yourself with the system alone, before including your partner. It may take a period of a few weeks to develop the proper technique with the system.

Warnings and Precautions

Vacuum Therapy System Warnings

If you do not follow these instructions you may cause personal injury.

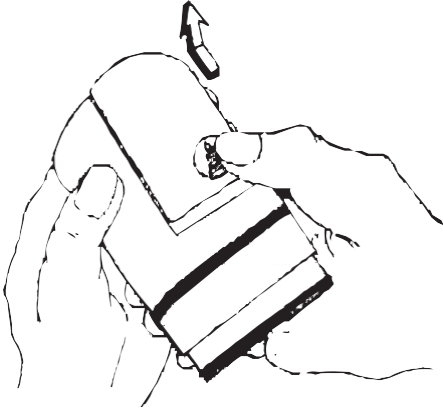
1. If you have signs of erectile dysfunction, (i.e., unable to get an erection that is good enough for sexual intercourse), talk to your doctor before using this system to avoid a possible harmful delay in figuring out any of the most common causes of this condition, such as diabetes, multiple sclerosis, cirrhosis of the liver, chronic renal failure, or alcoholism.
2. The user should apply the least amount of vacuum pressure that will get an erection. Use of too much vacuum pressure could bruise or injure the penis.
3. The user should stop using the vacuum therapy system if pain occurs.
4. The vacuum therapy system should not be used while using alcohol or drugs.
5. Use of a vacuum therapy system may bruise or break the blood vessels either right below the surface of the skin or within the deep structures of the penis or scrotum, resulting in bleeding or the forming of a blood filled swelling. Do not be too concerned if you notice some bruising of the penis, or small reddish spots below the skin.

You should stop using the system until the problem has cleared up (5 or 6 days). When you do use the system again, be careful not to apply more vacuum than feels comfortable. Use caution and plenty of water soluble sealing gel when removing the tension ring.

6. Caution is advised when using a vacuum therapy system following the removal of a penile implant because of possible scarring and later impairment. Apply the vacuum gradually. Watch for bruising or distortion of the penis. We suggest that you keep in close contact with your doctor during early use of the system after an implant removal.
7. Do not use if you have decreased sensation or pain in the area of the penis.
8. Do not use if you have decreased hand strength that will make the removal of the rings difficult.
9. The vacuum therapy system will not cure relationship problems or correct physical problems such as low sex drive, decreased sensation, and absent or premature ejaculation. The tension rings are not a means of birth control.

10. If you have Sickle Cell Trait or Sickle Cell Disease, a history of prolonged erections, hypercoagulability, a bleeding disorder or bruise easily or are taking large quantities of aspirin or other blood thinners, do not use the vacuum therapy system without consulting your doctor.

Carefully read these instructions completely before use of a battery operated system.



STEP 1. To remove the battery cover press on the arrow head and push up.

STEP 2. Insert the batteries as indicated in the battery compartment.
(Use AA size batteries)

STEP 3. Slide the battery cover back in place.

If Directions Are NOT Followed, The Unit WILL NOT Work.

Tension Ring Warning

1. **Do not wear the tension ring longer than 30 minutes.** It could cause pain, bruising, a blood blister, or permanent injury to the penis. Call your doctor if any problems occur and stop using the system if they continue.
2. Allow a minimum of 60 minutes between uses.
3. Do not fall asleep wearing the tension ring.
4. Tension rings should not be used as a birth control method.
5. Use the largest ring which holds an erection.
6. Do not use tension rings while using alcohol or drugs.
7. Frequent use of a tension ring may result in bruising at the base of the penis (where the shaft of the penis meets the pubic area).
8. **Do not use oil based lubricants such as petroleum jelly as they will be harmful to the tension rings. Only use water soluble sealing gel.**
9. Use of the tension ring may cause bruising. Do not be overly concerned if you notice some bruising of the penis or some small red spots below the skin. Use caution and plenty of water soluble sealing gel when removing the tension ring.

Don't be overly concerned if...

1. You feel pressure while applying the vacuum. This is not harmful. If you feel discomfort, however, it may be a signal that you are pumping too quickly. Simply press the manual vacuum release button, wait a moment and start again.
2. Your penis turns slightly bluish in color after you apply the tension ring. This may be a normal response to the increase of blood in the penis. The bluish color should disappear when you remove the tension ring.
3. You experience some petechiae (tiny reddish spots beneath the skin) or bruising of the penis when you first begin using your system. This may happen by placing the penis under too much vacuum pressure for too long, and too fast, or after a long period of not having an erection. If this happens, stop using your system until spots or bruises completely disappear, about five to seven days.
4. You or your partner notice a slight drop in the temperature of the penis. This coolness is normal and not harmful. It is a normal response to the reduced blood flow caused by the tension ring.
5. Your erection has a "hinge" effect. The penis may pivot at its base when the ring is in place. If this occurs, you may find it necessary to try different positions with your partner for successful intercourse.
6. Your semen does not flow through at point of climax. The pressure of the tension ring may interfere with the ejaculation process. This is not harmful, and does not affect climax. Your semen may flow out when you remove the tension ring. Tension rings are not a means of contraception or birth control and should not be used to avoid pregnancy.
7. Your penile tube develops condensation on the inside. This is simply the result of the heat from your body reacting with the lubricant. "Fogging" can be reduced by running warm water over the tube and then drying it before use.

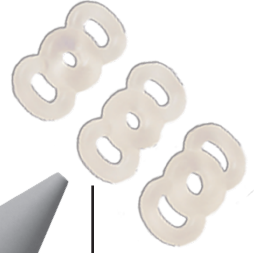
Battery Operated Systems

The number of accessories included will vary depending on the device.



ON/OFF Switch Cover
Design has been updated to meet the IEC 60601-1 Standard.

Loading cone fits into penile cylinder to assist in placing tension ring on the cylinder



Tension Rings, to allow for custom fitting. Number of rings included will vary depending on the device.

Transparent slip removable penile cylinder for easy cleaning

High volume battery operated vacuum pump provides a quick seal

Adapter Bushings for custom fit to be placed in the penile cylinder **after the cone is removed**

Water soluble sealing gel

Combination manual vacuum release button and preset vacuum limiter allows for lowering of vacuum

How it Works

The system creates a vacuum around the penis to help the natural flow of blood into the penis. Most men will also need to use one of the tension rings to hold their erection. The system will assist you in maintaining a full and satisfying erection in most cases.

Ring Loading Cone

The ring loading cone is used to help place the tension ring on the penile tube before the bushing is installed.



Tension Rings

One of the most important steps is properly fitting the tension ring. To keep blood in the penis, the ring must fit comfortably tight, but should be no tighter than necessary. If the vacuum therapy system is giving you a good erection but with the tension ring on, your erection is becoming soft in five minutes or less, you need to try the next smaller ring. **DO NOT WEAR A TENSION RING MORE THAN 30 MINUTES.** Thirty minutes is the maximum time period for wearing the tension ring. If worn longer, permanent damage is possible.



How to Load the Tension Rings

1. Start with the largest tension ring. If you are unable to hold the erection with the larger ring, gradually use the next smallest tension ring until the ring is able to hold the erection.
2. Ensure the pump head and adapter bushing are removed from the penile cylinder. Place a towel on a firm, flat surface (waist high works best). Place the penile cylinder on the towel with the smooth end facing up. The towel will help the cylinder remain in place while loading the tension ring. (See Illus. #1).



Illus. #1

3. Place the loading cone into the smooth end of the penile cylinder. Generously lubricate the entire surface of the loading cone, top to bottom, and all around. Use only water soluble sealing gel. (See Illus. #2).



Illus. #2

4. Grasp the two handles of the tension ring as shown. Place your thumb tips on top of the tension ring next to the cone surface, press the tension ring down. Your thumb tips will glide along the surface of the cone. Place the tension ring near the end of the cylinder for easy off loading to the base of the penis. (Do not load the tension ring onto the cylinder by pulling on the handles, they may tear). (See Illus. #3).



ILLUS. #3

5. Remove the cone from the cylinder and attach the cylinder to the vacuum pump. Place the adapter bushing in the open end of the cylinder. If loose scrotal tissue travels into the tube use the smaller bushing. If you use more than one ring, choose a second ring and repeat steps 1 through 4.

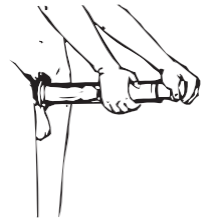
Adapter Bushing

The bushing is used to fit the tube to the penis. Start by using the largest bushing available.



Using the System

1. Lubricate your penis, the inside of the cylinder and pubic hair area (the area that comes in contact with the adapter bushing), with water soluble sealing gel. Make sure the testicles are not drawn into the cylinder. This helps form a good vacuum seal at your body and prevents the penis from sticking to the walls of the cylinder.



2. Insert the penis into the cylinder and start the vacuum process.

3. Operate the **battery pump** by pressing the activation button. This should develop a low level of vacuum sufficient to create a seal between the system and your body.

Repeat this step 4 to 5 more times until you have developed a sufficient vacuum. Use the least amount of vacuum necessary to obtain the erection.

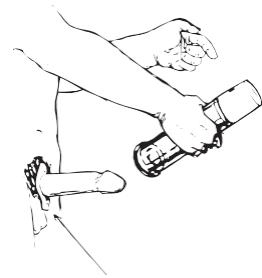
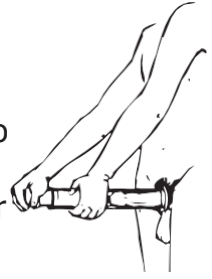
4. As soon as the desired erection is achieved, transfer the tension ring onto the base of the penis with your fingertip. Make sure the ring is transferred all the way around. Any vacuum that is left can be released by depressing the manual vacuum release button. Practice a few times without the tension ring. If a condom is desired it should be applied after erection is formed.

5. Following use, the tension ring, bushing and cylinder should be rinsed with warm water, dried and stored.

Make sure the tension ring bag is air free and tightly sealed for longer life. **NEVER PUT THE PUMPHEAD IN WATER.** After you have been using the system for 30 to 60 days, you may want to recheck the sizing of the tension ring. For example, you may find that you are now able to use the next size larger ring.

Using the larger ring may increase comfort. Some couples may prefer to stop intercourse at least once and reuse the vacuum therapy system.

We are always happy to discuss any problems that you may have with the use of the system. If you have questions or would like to order replacement parts, please call our user help line (800)438-8592.



Manual Vacuum Release Button

If you feel slight pain when your penis becomes filled, try a lower vacuum by pushing the manual vacuum release button. (With a little practice you should find the correct vacuum so that you can create a full erection.)

The manual vacuum release button can be pushed to lower the vacuum level. If too much vacuum is released, it can be easily increased by pressing the activation button. To remove your penis from the cylinder, push the manual vacuum release button until the vacuum pressure is gone. Then remove the cylinder from the penis. If you find that you are keeping enough of an erection for intercourse, you may not need to use the tension ring.

Most men with erectile dysfunction will lose most of their erection soon after removing their penis from the cylinder. This problem can be solved by correctly fitting the tension ring. Your penis should become rigid without pain in 10 to 90 seconds. You may feel pressure when your penis starts to become erect from the vacuum. This is normal.

Removing the Tension Ring

DO NOT WEAR A TENSION RING MORE THAN 30 MINUTES. Remove the ring by pulling outward on the side loops. The ring will stretch, allowing blood to move from the penis. You can then pull the tension ring off. To prevent tangling the tension ring in the pubic hair, try a little sealing gel in the hair before putting on the ring .



Warranty Information

Our **systems** offer a warranty (under normal use) on all major components. The slip systems have a five year warranty and the twist systems have a one year warranty. This warranty is only valid for customers in the US. The Tension Rings and Ring Loader are not considered major components and have a 30-day warranty. **You must have proof of purchase to be eligible for warranty. Customer must pay in-bound freight.**

To register your device go to www.timmmedical.com. You could be eligible for a free tension ring.

ATTENTION: Warranty is void if the product has been tampered with. There is no warranty if moisture is found in the pump head. Some men leak a small amount of urine when using a vacuum therapy system. If you have this problem, protect your pump head by placing some cotton balls in the penile tube just below the pump. Be sure to change the cotton balls after each use.

****Please clean product prior to returning for warranty purposes.**

Our company provides access to a committed staff to ensure that each and every patient has the opportunity of being successful with vacuum therapy treatment.

Our Vacuum Therapy Systems allow men to produce controllable and predictable erections. Vacuum Therapy is designed to allow a couple to control their sexual intimacy by providing a predictable and immediate method to create an erection for intercourse.

There are also profound benefits of vacuum therapy as a rehabilitation tool and to prevent penile deterioration.

We are always happy to discuss any problems that you may have with the use of the system. If you would like to order replacement parts, please call (800)438-8592. Our hours of operation are: Monday - Thursday, 8:00 a.m. to 5:00 p.m. and Friday 8:00 a.m. to 12:00 p.m.

HOW TO MANAGE COMMON PROBLEMS WITH A VACUUM ERECTION SYSTEM


















PROBLEM	LIKELY CAUSE	REMEDY	COMMENTS
No erection	No vacuum because of air leak caused by poor seal	Use more lubricant; apply firm pressure to body; trim pubic hair; check system for air leaks	Problem is most often associated with inexperience and stops as you become better at using the system
Partial Erection	Not Enough practice sessions	More practice using system	Problem most often improves with continued use of system
Rapid Loss of erection (in less than 5 to 10 minutes)	Vacuum lost because of air leak, poor seal, poor lubrication, or too much pubic hair, too large tension ring	Same as for "No Erection" . Use smaller or double tension ring; remove tension ring carefully .	Problem most often improves with continued use of system
Pulling of the skin of the scrotum	Lubricant on scrotum; improper pumping technique; inexperience with system	Remove lubricant from scrotum; use the modified pumping technique (call our support line); continue with practice sessions; angle cylinder downward during pumping	Problem usually stops as you become better at using the system
Discomfort or pain			
During pumping	Too rapid pumping; pulling of scrotal tissue	Slower pumping; continue to use the system	Problem usually stops as you become better at using the system
From tension ring	Tension ring too small; anxiety	Use larger tension ring; continue to use the system	Problem usually stops as you continue to use the system
During intercourse	Poor lubrication; pressure on a sensitive area	More lubrication; position changes	
During ejaculation	Long periods without sex; infection or swelling of the prostate gland	Continue to use system	Consult your doctor if this problem continues past the first few practice sessions
Redness, irritation or bruising	Too rapid pumping; over pumping	Slower pumping; fewer pumps	Consult your doctor if this problem continues past the first few practice sessions
Penis feels cold (to you or your partner)	Constriction of blood flow to the penis; lubrication	Wash off lubricant or warm lubricant before use	
Penis pivots on its base	Constriction of blood flow to the penis	If manageable, apply the system after you have a partial erection	

Compliance and Commitment

Pos-T-Vac is committed to complying with all federal and state regulations. If you have any questions or concerns regarding any of our activities, please contact your service location at (800)438-8592.

Patient Complaint Procedure

Pos-T-Vac strives to provide the highest quality health care services to all our patients. That is why your concerns are our concerns. To ensure that our services meet your complete satisfaction, we ask you to describe any complaint, problem, concern or compliment you may have by calling us at (800)438-8592.

Symbols to Convey Medical Device Information (Used on labeling and within this Information for Use)	
Symbol	Description
	Indicates the date the medical device was Manufactured.
	Indicates the Medical Device is in conformance with the European health, safety, and environmental protection standards.
	Mandatory instructions to read the information for use. User's Manual.
	Consult the Instructions for Use.
	Indicates this is a Medical Device.
	For Personal Use Only.
	Indicates to use with caution.
	Indicates Protect from Moisture. Keep Dry.
	Indicates the Medical Device is not subject to a sterilization process.
	Indicates the Manufacturer of the Medical Device
	Indicates the Authorized Rep in the European Union
	Indicates to dispose in appropriate recycling containers.
	Indicates the date after which the medical device is not to be used.
	Indicates the manufacturers batch number so the medical device can be identified.
	Indicates the part number of the Medical Device
	Indicates the Unique Device Identifier Information
	"OFF" is a stable position, whilst the "ON" position only remains during the time the button is depressed.

For EU Users:



Pos-T-Vac Medical

Vacuum Therapy System



NB 2797



1 units

Medical Device Class IIa for correction of erectile dysfunction and for sexual fitness



FOR PERSONAL USE ONLY



Restrictions of use for the device are identified in the instructions manual. Read instructions before using the product.



Store in cool and dry conditions. Non sterile/non measuring product.



Made in USA by:

Pos-T-Vac Medical, Inc, 2111 W Wyatt Earp, PO Box 1436, Dodge City, KS 67801 USA



European authorized representative/ Responsible Union
Europea: CEpartner4U, Esdoorlaan 13, 3951 DB Maarn, the Netherlands

For UK Users:



Pos-T-Vac Medical

Vacuum Therapy System



NB 2797



1 units

Medical Device Class IIa for correction of erectile dysfunction and for sexual fitness



FOR PERSONAL USE ONLY



Restrictions of use for the device are identified in the instructions manual. Read instructions before using the product. 3 AA Batteries required.

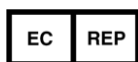


Store in cool and dry conditions. Non sterile/non measuring product.



Made in USA by:

Pos-T-Vac, LLC, 2111 W Wyatt Earp, PO Box 1436, Dodge City, KS 67801 USA



UK authorized representative/ Responsible Union

UK: UKCApartner4U
7 Campion Way, Bingham, Nottingham NG13 8TR UK

After completing the treatment, please dispose content and batteries in the appropriate recycling containers.



Privacy Notice

Our organization is dedicated to maintaining the privacy of your identifiable health information. In conducting our business, we will create records regarding you and the treatment, products and services we provide to you. We are required by law to maintain the confidentiality of health information that identifies you. We are also required by law to provide you with this notice of your legal duties and privacy practices concerning your health information.

THE FOLLOWING NOTICE DESCRIBES HOW YOUR MEDICAL INFORMATION MAY BE USED AND DISCLOSED AND HOW YOU CAN GET ACCESS TO THIS INFORMATION. PLEASE REVIEW THE INFORMATION CAREFULLY.

1. Your confidential healthcare information may be disclosed to employees or business associates of the company when needed to provide you with products and/or services to secure payment for products and/or services provided, and as needed to operate our business. Employees and business associates of the company will only be provided with the minimum information needed to complete their duties.
2. Your confidential healthcare information may be released to other healthcare professionals for the purpose of providing you with quality healthcare.
3. Your confidential healthcare information may be released to your insurance provider for the purpose of the company receiving payment for providing you with needed healthcare products and services.
4. Your confidential healthcare information may be released to a public health organization or federal organization in the event of the need to report a communicable disease or to report a defective device.
5. Your confidential healthcare information may be released to public or law enforcement officials in the event of an investigation in which you are a victim of abuse, a crime or domestic violence.
6. Your confidential healthcare information may not be released for any other purpose than that which is identified in this notice without requesting a specific authorization from you to release information for a specific purpose.
7. You may be contacted by the company to notify you of other health services that may be of interest to you.

You have the right to complain to the company if you believe your rights to privacy have been violated. If you feel your privacy rights have been violated, please mail your complaint to the company.

All Complaints will be investigated by:

Cara Slovacek, Compliance Manager

Pos-T-Vac

2111 W Wyatt Earp Blvd

Dodge City, KS 67801

(800)438-8592

Maintenance and Precautions for Battery Operated Devices- Class BF

- All service and maintenance must be performed by the manufacturer with the exception of changing batteries.
- Warning: No modification of this equipment is allowed.
- All parts and accessories are intended only for use as described in this users manual.
- All pump heads meet essential performance standards. Any recurrent essential performance testing must be performed by the manufacturer.
- This Instructional manual is available in several foreign languages.
- You will find a component parts list in this Instructional manual.
- Please contact the manufacturer at (620)338-4120 if you need assistance in setting up, using or maintaining the device or to report any unexpected operation or event.
- There is no evidence reciprocal interference poses any affect on the effectiveness of the device.
- After testing, the device does not have the potential to cause electromagnetic interference or be affected by electromagnetic interference.
- Environmental conditions of use: $23^{\circ}\text{C}\pm 2^{\circ}\text{C}$, $60\pm 15\%$ RH, 860 hPa to 1060 hPa.
- Environmental conditions for transport and storage: -25°C without humidity control, $+70^{\circ}\text{C}$ with Relative Humidity up to 93%. The manufacturer recommends the device be at room temperature to achieve optimal performance.
- The manufacturer recommends after returning the product to its carrying case that you store it in an area safe from children.
- The device and accessories may be disposed of in your waste bin, excluding the batteries which should be taken to a battery disposal site.
- No warm up or cool down is required after equipment is taken out of storage.
- IP22 is protected against the insertion of fingers and will continue to function safely when exposed to vertically or nearly vertically dripping water.
- The duty cycle is 2 minutes on 1 hour off.

Cleaning instructions (We recommend after every use)

- Pump Head- wipe down with a damp cloth
- Tension Rings- warm water only then store in the bag
- All other accessories may be cleaned with warm water
- Return all items to carrying case for storage

Service Life (With normal use)

- Device including pump head, cylinder, cone and bushings- 10 years
- Ring Loader- 1 year
- Tension Rings- 90 days
- Lubricant- noted on container by expiration date
- We recommend that you change the batteries after 30 uses.

EMC ACCOMPANYING DOCUMENT

The BOS (Battery Operated System) requires special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in these accompanying documents.

WARNING: 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 BOS, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

WARNING: A risk of increased emissions or decreased immunity may result if any additional cables are attached.

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


WARNING: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

1	Guidance and manufacturer’s declaration – electromagnetic emissions		
2	The BOS is intended for use in the electromagnetic environment specified below. The customer or the user of the BOS should assure that it is used in such an environment.		
3	Emissions test	Compliance	Electromagnetic environment – guidance
4	RF emissions CISPR 11	Group 1	The BOS uses RF energy only for its internal function. Therefore, its RF emissions are very low and are no likely to cause any interference in nearby electronic equipment.
5	RF emissions CISPR 11	Class B	The BOS is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

Guidance and manufacturer’s declaration – electromagnetic immunity			
The BOS is intended for use in the electromagnetic environment specified below. The customer or the user of the BOS 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	±8kV contact ± 15kV air	±8kV contact ± 15kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be a levels characteristic of a typical location in a typical commercial or hospital environment.

Guidance and manufacturer's declaration – electromagnetic immunity

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

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
<p>IMMUNITY to proximity fields from RF wireless communications equipment</p>	<p>MHz – Modulation – Field</p> <p>Strength</p> <p>385 - 18 Hz - 27 V/m 450 - 18 Hz - 28 V/m 710 - 217 Hz - 9 V/m 745 - 217 Hz - 9 V/m 780 - 217 Hz - 9 V/m 810 - 18 Hz - 28 V/m 870 - 18 Hz - 28 V/m 930 - 18 Hz - 28 V/m 1720 - 217 Hz - 28 V/m 1845 - 217 Hz - 28 V/m 1970 - 217 Hz - 28 V/m 2450 - 217 Hz - 28 V/m 5240 - 217 Hz - 9 V/m 5500 - 217 Hz - 9 V/m 5785 - 217 Hz - 9 V/m</p>	<p>MHz – Modulation – Field</p> <p>Strength</p> <p>385 - 18 Hz - 27 V/m 450 - 18 Hz - 28 V/m 710 - 217 Hz - 9 V/m 745 - 217 Hz - 9 V/m 780 - 217 Hz - 9 V/m 810 - 18 Hz - 28 V/m 870 - 18 Hz - 28 V/m 930 - 18 Hz - 28 V/m 1720 - 217 Hz - 28 V/m 1845 - 217 Hz - 28 V/m 1970 - 217 Hz - 28 V/m 2450 - 217 Hz - 28 V/m 5240 - 217 Hz - 9 V/m 5500 - 217 Hz - 9 V/m 5785 - 217 Hz - 9 V/m</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the BOS, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $E = [6/d] \sqrt{P}$ $d = [6/E] \sqrt{P}$ <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer, d is the recommended separation distance in meters (m), and E is the field strength in V/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:</p> 

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

- 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 BOS is used exceeds the applicable RF compliance level above, the BOS should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the BOS.

Recommended separation distances between portable and mobile RF communications equipment as well as RF wireless communications equipment the BOS

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

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m)			
	80 to 800 MHz $d = [3.5/10] \sqrt{P}$	800 MHz to 2.7 GHz $d = [7/10] \sqrt{P}$	710, 745, 780, 5240, 5500, 5785 $d = [6/9] \sqrt{P}$	385, 450, 810, 870, 930, 1720, 1845, 1970, 2450 $d = [6/28] \sqrt{P}$
0.01	0.035	0.070	0.067	0.021
0.1	0.110	0.221	0.211	0.070
1	0.350	0.700	0.667	0.214
10	1.107	2.213	2.108	0.700
100	3.500	7.000	6.670	2.143

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 is the maximum output power rating of the transmitter in watts (W) according 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 from structures, objects and people.

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.