PresSsion 652-8
Sequential Compression Device
Operating Instructions

www.djoglobal.com/chattanooga
1.800.592.7329
Intended Use:
The PressSsion 652-8 Sequential Compression Pump is a compression device based on sequential pneumatic compression technique which is intended for the treatment of the following conditions:

- Lymphedema
- Venous stasis ulcers
- Venous insufficiency
- Peripheral edema

The device is safe for both home and hospital use.

Description of Various Symbols:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="info" /></td>
<td><strong>Attention:</strong> Consult ACCOMPANYING DOCUMENTS. This symbol is used to direct the user to refer to the documents for additional information regarding the system use or description.</td>
</tr>
<tr>
<td><img src="image" alt="typeb" /></td>
<td>Type B - applied part.</td>
</tr>
<tr>
<td><img src="image" alt="dangerousvoltage" /></td>
<td>Dangerous Voltage Electrical shock hazard. Disconnect LINE CORD before servicing; refer servicing to qualified service personnel.</td>
</tr>
<tr>
<td><img src="image" alt="protectiveground" /></td>
<td>Protective earth (Ground)</td>
</tr>
<tr>
<td><img src="image" alt="rx" /></td>
<td>Federal (USA) law restricts this device to sale by or on the order of a physician.</td>
</tr>
<tr>
<td><img src="image" alt="slo-blo" /></td>
<td>SLO-BLO Slow acting (time delayed) fuse.</td>
</tr>
<tr>
<td><img src="image" alt="ip0" /></td>
<td>IP_{x0} Without protection against ingress of water.</td>
</tr>
<tr>
<td><img src="image" alt="dateofmanufacture" /></td>
<td>Date of Manufacture</td>
</tr>
<tr>
<td><img src="image" alt="serialnumber" /></td>
<td>Serial Number</td>
</tr>
</tbody>
</table>

Contraindications:
Compression **IS NOT** recommended in the following conditions:

- Infections in the limb, including cellulites without appropriate antibiotic coverage
- The presence of lymphangiosarcoma
- Deep vein thrombosis (DVT)
- Inflammatory phlebitis or episodes of pulmonary embolism
- Congestive heart failure (CHF)
General Equipment Specifications:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMENSION:</td>
<td>12” (W) × 12” (D) × 4.5” (H)</td>
</tr>
<tr>
<td>WEIGHT:</td>
<td>12 lbs</td>
</tr>
<tr>
<td>INFLATION:</td>
<td>User Set</td>
</tr>
<tr>
<td>DEFLATION:</td>
<td>12 seconds</td>
</tr>
<tr>
<td>CYCLE TIME:</td>
<td>User Set</td>
</tr>
<tr>
<td>ELECTRICAL:</td>
<td>120 VAC, 60 Hz, 100 VA MAX</td>
</tr>
<tr>
<td>FUSE RATED:</td>
<td>250 VAC, 1.0 AMP, SLO-BLO</td>
</tr>
<tr>
<td>APPLIED PART:</td>
<td>TYPE B</td>
</tr>
<tr>
<td>PROTECTION AGAINST</td>
<td></td>
</tr>
<tr>
<td>ELECTRICAL SHOCK:</td>
<td>CLASS I</td>
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<tr>
<td>OPERATION MODE:</td>
<td>CONTINUOUS OPERATION</td>
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<tr>
<td>PROTECTION AGAINST</td>
<td></td>
</tr>
<tr>
<td>WATER:</td>
<td>IPx0</td>
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</table>

Environmental Conditions:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>41°F (5°C) – 104°F (40°C)</td>
</tr>
<tr>
<td>Storage Temperature:</td>
<td>-13°F (-25°C) – 158°F (70°C)</td>
</tr>
<tr>
<td>Humidity:</td>
<td></td>
</tr>
<tr>
<td>Operating Humidity:</td>
<td>15% - 93%</td>
</tr>
<tr>
<td>Storage Humidity:</td>
<td>&lt;93%</td>
</tr>
<tr>
<td>Atmospheric Pressure:</td>
<td></td>
</tr>
<tr>
<td>Operating Pressure:</td>
<td>70 kPa – 106 kPa</td>
</tr>
<tr>
<td>Storage Pressure:</td>
<td>50 kPa – 106 kPa</td>
</tr>
</tbody>
</table>

Device Description and Operating Principle:

The **PressSsion 652-8 Sequential Compression Pump** is a gradient compression pneumatic device used for treatment and management of venous or lymphatic disorders. The application of gradient compression is effective by increasing blood flow and encouraging extracellular fluid clearance. The system consists of a device and a pair of eight chambered garments. The device provides cycles of compressed air at certain adjustable pressures, and sequentially inflates the garments from distal to proximal. The pressure at each chamber can be individually adjusted to accommodate different therapy needs.

Package Contents:

- 1 PresSsion 652-8 Sequential Compression Device
- 1 Power Cord
- 1 PresSsion 652-8 Sequential Compression Device Operating Instructions
- 1 Blocker for use during unilateral therapy
Device Panels:

1. Front Panel:

Key Function
- **START/STOP KEY:** Through these keys the user can start/end the treatment. Under the emergency status, press “STOP” key to release the air pressure.

Shuttle Knob Function
- Push **SHUTTLE KNOB** to access mode/parameter select function
- Twist **SHUTTLE KNOB** with clockwise and counterclockwise directions, to adjust/change parameter function

Display
- **LCD:** Indicating the real-time pressure in each chamber and therapy time
- **LCD SPECIFICATION:** 5 volts DC, max 0.5 amp, 2 lines x 16 characters per line presentation.

Status Indication
- The **OPERATION LED** (green) shows the machine is on and receiving power.
- The **SETTING LED** (yellow) shows that you are in the setup menu.
- The **ERROR LED** (red) shows there was a problem while running the machine.

Snap Connect Port
- **TOP/BOTTOM SNAP CONNECT PORT:** These parts are fixed on the device, and they match with detachable SNAP CONNECTOR.
- **AIR BLOCKER:** The **AIR BLOCKER** is used to block the air passage on the unit.

2. Back Panel:

- **POWER PLUG:** Power source.
- **FUSE:** Two(2) slow acting (time delayed) fuses inside for protection against electrical short circuit.
- **POWER SWITCH:** Power can be turned on or off by this switch.
3. Eight Chamber Garment:
The segments within the garments are constructed to prevent ‘ridging.’ (Ridging occurs if there is a gap between two compressed areas of tissue; tissue is forced towards the gap causing a creased area with restricted blood flow.) The design of the garments ensures high patient comfort and compliance.

- **SNAP CONNECTOR**: Detachable from the device. Matching with the SNAP CONNECT PORT on the front board.
- **TUBE**: Air guidance.
- **GARMENT**: Applied part for treatment. Having eight separated chambers.

**Operating Instructions:**

1. **UNPACKING EQUIPMENT**
   1.1 Open the shipping box and lift the device up and out of the box.
   1.2 Remove the protective foams and remove the device from the plastic bag.
   1.3 Remove the garment from the plastic bag and unroll the tubes that are wrapped around the folded garment. Unfold the garment and spread it flat.

2. **PREPARE FOR OPERATING**
   2.1 Place the device on a flat and stable surface in close proximity to where the patient will be resting.
   2.2 Gather the POWER CORD and attach it to the POWER PLUG on the device back panel. Plug the device into a safe, properly grounded properly grounded, 120 VAC, 60 Hz outlet.
   2.3 Attach top and/or bottom SNAP CONNECTORS of the garment to the SNAP CONNECT PORTS which are located on the front panel of device. During a single garment session (i.e. one leg or arm) insert the AIR BLOCKER into the unused SNAP CONNECT PORT (either top or bottom).
   2.4 Putting the garment on: a) for LEG GARMENTS, unzip the garment all the way to the end. Place the foot at the bottom end of the garment and pull up the zipper while supporting the garment to wrap around the leg; b) for ARM GARMENTS, slide the arm through the internal cavity of the garment; c) for ARM/SHOULDER GARMENTS, slide the arm through the internal cavity of the garment and adjust straps on shoulder piece to clip the male and female connectors’ together snugly on side.

**Caution**: Hands should not be extended out of distal end of the arm or arm/shoulder garment.
Operating Instructions: (continued)

3. TREATMENT

*Settings can only be modified or restored before or in between treatments.

There are three main operating modes with this device:

• FACTORY DEFAULT: Device comes with a Factory Default Setting providing default 50mmHg pressure on distal chamber and a 4% of gradient pressure, a 30 min. treatment time with a 40 sec. cycle time, with no chambers being skipped.

• GRADIENT MODE: This mode allows you to set your starting pressure, and the percentage drop of pressure gradient between chambers.

• PRESSURE MODE: This mode allows you to set the pressure in each of the eight chambers in the sleeve.

There are two sub operating modes that are optional to run before Gradient Mode and Pressure Mode only:

• UNCORKING MODE™: This mode mimics manual lymphatic drainage.

• FOCUS MODE: This mode concentrates on four specific chambers (selected by the user) on a limb that is affected by Lymphedema Fibrosis to tenderize the tissue.

3.1 Press Main POWER SWITCH up to ON position which is located on the rear panel. The green power indicator on the front panel will then illuminate.

3.2 Upon this display, User can directly push START to run the device on Factory Default. If Gradient Mode is desired, continue to 3.2 - 3.11. If Pressure Mode is desired, proceed to 3.12 - 3.21

3.3 This display shows Therapy Mode Setting.

Turn the SHUTTLE KNOB to the right to select Gradient Mode. Then, push the SHUTTLE KNOB to access Gradient Mode — it will allow you to set for the various parameters: Gradient Pressure, Cycle Time, Treatment Time, Skip Chamber, Uncorking™ and Focus Mode.
3.4 Access the first parameter – Gradient.
Push the SHUTTLE KNOB to select Gradient.

Increase the Gradient by turning the SHUTTLE KNOB to the right, decrease by turning to the left. Offset: 1%.

Push the SHUTTLE KNOB to confirm the new Gradient. This will also take you back to parameters.

3.5 This display shows the second parameter – Pressure, reached by turning the SHUTTLE KNOB to the right.
Push the SHUTTLE KNOB to select Pressure of chamber 1 only.

*User can access other parameters by turning the SHUTTLE KNOB to the right/left at any time.*

Increase the Pressure by turning the SHUTTLE KNOB to the right, decrease the Pressure by turning to the left. Offset: 1mmHg

Push the SHUTTLE KNOB to confirm the new Pressure. This will also take you back to parameters.

*Numbers shown are arbitrary and do not reflect appropriate treatment setting.*

3.6 Access the third parameter – Cycle Time, by turning the SHUTTLE KNOB to the right.
Push the SHUTTLE KNOB to select Cycle Time.

Increase the Cycle Time by turning the SHUTTLE KNOB to the right, decrease time by turning to the left. Offset: 1 Sec.

Push the SHUTTLE KNOB to confirm the new Cycle Time. This will also take you back to parameters.

3.7 Access the fourth parameter – Treatment Time, by turning the SHUTTLE KNOB to the right. Push the SHUTTLE KNOB to select Treatment Time.
Increase the Treatment Time by turning the SHUTTLE KNOB to the right, decrease time by turning to the left. Offset: 15 Min.

Push the SHUTTLE KNOB to confirm the new Treatment Time. This will also take you back to parameters.
Operating Instructions: (continued)

3.8 Skip Chamber
<- No Skip ->
Access the fifth parameter – Skip Chamber, by turning the SHUTTLE KNOB to the right. Push the SHUTTLE KNOB to select Skip Chamber.

Chamber 1
Turn to the chamber you wish to skip by turning the SHUTTLE KNOB to the right or left. (Select one only) Chamber 1, Chamber 2, Chamber 3, Chamber 4, Chamber 5, Chamber 6, Chamber 7, Chamber 8, or No Skip.

Skip Chamber
<- Chamber 1 ->
Push the SHUTTLE KNOB to confirm the Skipped Chamber. This will also take you back to parameters.

3.9 Uncorking
<- Off ->
Access the sixth parameter – Uncorking™, by turning the SHUTTLE KNOB to the right. Push the SHUTTLE KNOB to select Uncorking™.

On
Select ON if you would like Uncorking™ before therapy by turning the SHUTTLE KNOB to the right. Select Off to have no Uncorking™. Push the SHUTTLE KNOB to confirm if you want Uncorking™ or not.

*If Off is selected skip to step 3.10.

3.9.1 Pressure
15 mmHg ->
Access the sub parameter – Pressure, by pushing the SHUTTLE KNOB.

20 mmHg
Select the Pressure for Uncorking™ (15 mmHg or 20 mmHg) by turning the SHUTTLE KNOB to the left or right.

Pressure
20 mmHg ->
Push the SHUTTLE KNOB to confirm the Pressure. This will also take you back to sub parameters.

3.9.2 Exit
<- 
To exit the sub parameters, turn the SHUTTLE KNOB to the right. Push to select EXIT. This will also take you back to parameters.

3.10 Focus Mode
<- No ->
Access the seventh parameter – Focus Mode, by turning the SHUTTLE KNOB to the right. Push the SHUTTLE KNOB to select Focus Mode.
Select YES if you would like Focus Mode before therapy by turning the SHUTTLE KNOB to the right.
Select NO to have no Focus Mode. Push the SHUTTLE KNOB to confirm if you want Focus Mode or not.

*If NO is selected skip to step 3.11.

**3.10.1**

Pressure
40 mmHg ->

Access the first sub parameter – Pressure, by pushing the SHUTTLE KNOB.

Pressure
50 mmHg ->

Select the Pressure for Focus Mode (40 mmHg or 50 mmHg) by turning the SHUTTLE KNOB to the left or right.

Pressure
50 mmHg ->

Push the SHUTTLE KNOB to confirm the Pressure. This will also take you back to sub parameters.

**3.10.2**

Chamber
<- Chamber 1 – 4 ->

Access the second sub parameter – Chamber, by turning the SHUTTLE KNOB to the right. Push the SHUTTLE KNOB to select Chamber.

Chamber
2 – 5

Select the specific Chambers you would like to concentrate on by turning the SHUTTLE KNOB left or right.

Chamber
<- Chamber 2 – 5 ->

Push the SHUTTLE KNOB to confirm the Chamber. This will also take you back to sub parameters.

**3.10.3**

Exit
<- Exit

To exit the sub parameters, turn the SHUTTLE KNOB to the right, push to select EXIT. This will also take you back to parameters.

**3.11**

Exit
<- Exit

To exit and complete Gradient Mode Setup, turn the SHUTTLE KNOB to the right, push to select EXIT.

Ready...
Press <START>

You will be taken to the READY... PRESS <START> display. Push the green START button to start your Custom Treatment.

**3.12**

Ready...
Press <START>

Upon this display, user can access Pressure Mode by pushing the SHUTTLE KNOB that will take you to Therapy Mode Settings.
Operating Instructions: (continued)

3.13 **Factory Default**

> Pressure Mode

This display shows Therapy Mode Settings.

Turn the SHUTTLE KNOB to the right to select Pressure Mode. Then, push the SHUTTLE KNOB to access Pressure Mode – it will allow you to set the various parameters: Pressure, Cycle Time, Treatment Time, Skip Chamber, Uncorking™, and Focus Mode.

3.14 **Pressure**

Chamber 1 – 8 ->

Access the first parameter – Pressure. Push the SHUTTLE KNOB to set the Pressure.

3.14.1 **Cham#1 Pressure**

50 mmHg

This display shows the Pressure in Chamber #1. Push the SHUTTLE KNOB to select the Pressure.

55 mmHg

Increase the Pressure by turning the SHUTTLE KNOB to the right, decrease the Pressure by turning to the left. Offset: 1mmHg

Cham#1 Pressure

55 mmHg

Push the SHUTTLE KNOB to confirm the new Pressure. This will also take you back to Pressure parameters.

*Turn the SHUTTLE KNOB to the right to change the Pressure in the other chambers, follow step 3.14.1 to change the Pressure.

3.14.2 **Exit**

<- To exit the Pressure parameters turn the SHUTTLE KNOB until you see EXIT. Push the SHUTTLE KNOB to select EXIT. This will also take you back to parameters.

3.15 **Cycle Time**

<- 24 Sec ->

Access the second parameter – Cycle Time, by turning the SHUTTLE KNOB to the right. Push the SHUTTLE KNOB to select Cycle Time.

*Reference 3.6 for instructions to change Cycle Time.

3.16 **Treatment Time**

<- 30 Min ->

Access the third parameter – Treatment Time, by turning the SHUTTLE KNOB to the right. Push the SHUTTLE KNOB to select Treatment Time.

*Reference 3.7 for instructions to change Treatment Time.

3.17 **Skip Chamber**

<- No Skip ->

Access the fourth parameter – Skip Chamber, by turning the SHUTTLE KNOB to the right. Push the SHUTTLE KNOB to select Skip Chamber.

*Reference 3.8 for instructions to change Skip Chamber.
Operating Instructions: (continued)

3.18 Uncorking

Reference 3.9 for instructions to change Uncorking™.

3.19 Focus Mode

Reference 3.10 for instructions to change Focus Mode.

3.20 Exit

To exit and complete Pressure Mode Setup, turn the SHUTTLE KNOB to the right, push to select EXIT.

3.21 Ready...

Press <START>

Start

You will be taken to the READY... PRESS <START> display. Push the green START button to start your Custom Treatment.

4. END OF TREATMENT

4.1 Each treatment will end after its set treatment time has elapsed. The user can also end the treatment at any time during a treatment session by pressing the STOP button on the front panel.

4.2 After the treatment, the device will vacuum air from the garment for 1 minute so that it will facilitate the user to easily remove the garment. You will hear a beep sound when the vacuum is completed.

4.3 Once the vacuum is completed, the screen will display READY... PRESS <START>. At this time, press STOP button again if another 1 minute vacuum cycle is desired.

4.4 After vacuum beep, press the POWER SWITCH on the backboard to the OFF position and then unplug the POWER CORD.

4.5 Once the power indicator light is off, it is safe to remove the garment.

4.6 The garment should be loose enough by now so you can unzip the garment and remove.

4.7 Pull out plug to isolate the circuits electrically from the supply mains on all poles simultaneously.

5. NOTE

5.1 An internal buzzer gives reminders when device is ready to start or stop and when treatment is finished.
Troubleshooting:
If the system fails to operate when plugged in and switched ON, check the fuse on the back of the housing. Unplug the system and remove fuse holder or contact your local authorized dealer for further information or advice.

Important: To protect against fire hazard, replace blown fuse with identical type and rating (1.0AMP 250V SLO BLO). If the fuse blows again, return the pump to dealer for service.

Caution: There are no user serviceable parts inside the system. There is an electrical shock hazard if the pump assembly is disassembled. Refer all service to qualified personnel.

Caution: Keep away from environment of CT or MRI.

Caution: Keep away from explosive or flammable anesthetic gas.

Attaching and Detaching Snap Connector:
The SNAP CONNECTOR easily connects to the device. While holding the SNAP CONNECTOR in front of the device, the numbers on top of the SNAP CONNECTOR should read 1 – 8 from left to right. The eight prongs on the SNAP CONNECTOR should match up with the eight holes on the SNAP CONNECT PORT. The snap pins should match up to the holes on the side of the device. Match the SNAP CONNECTOR with the SNAP CONNECT PORT and push the snap pins in with a light force.

Note: For ease of installation, it is advisable to install the bottom SNAP CONNECTOR first.

The SNAP CONNECTOR can also be easily detached from the device. Pull the snap pins out on each side of the SNAP CONNECTOR, then pull out SNAP CONNECTOR with a light force and the garment will detach from the device.

Note: For ease when detaching, it is advisable to detach the top SNAP CONNECTOR first.

Home users are not recommended to operate the SNAP CONNECTORS. It is recommended to have a medical professional handle the use of the SNAP CONNECTORS.

Fuse Replacement:
The safety fuse on the back panel of the device can sometimes blow for different reasons such as a power surge or the normal aging of the electronic components. The safety fuse is located in between the POWER PLUG and the POWER SWITCH.

When occasional fuse damage does happen, a medical professional can replace the fuse as long as a part that has the following parameters is ordered (1.0 AMP 250VAC SLO-BLO).

Prior to removal of fuse, disconnect the power cord. While pushing inward on fuse cap, turn counterclockwise to release cap and remove fuse. After placing the new fuse in the cap slot, push cap and fuse inward and turn clockwise to secure.

Note: The outer safety fuse is the only item serviceable by someone other than a Chattanooga technician. Chattanooga technicians have been trained specifically for the manufacture and repair of all Chattanooga’s devices including this device.
**Device Cleaning Instructions:**
The outside pump casing is made from plastic and can be cleaned using a soft cloth and mild detergent or water.

**Note:** Never immerse device in water or apply detergent or water directly.

**Garment Care & Cleaning Instructions:**
1. Disconnect the SNAP CONNECTOR from the device. Unzip the garment and spread it on an even flat surface.
2. Wash both interior and exterior surfaces of the garment with a mild liquid soap and dry with a soft cloth.
3. After wash, use a clean dry cloth to initially dry the garment and then leave the garment open to air dry until it is completely dry on all surfaces.

**Note:** Never use abrasive materials such as scrubbing pad, clearing chemicals or detergents containing bleach, as they may cause damage to the garments exterior.

**Note:** Do not dry clean – Do not Iron

**Sterilization:** Sterilization of the garments and the pump system is not required. However, if sterilization of the garment is desired in a hospital setting, gas sterilization is suitable. The temperature **MUST NOT** exceed 125°F (51°C).

**Garment Specification:**
Several types of garments are available for different size:

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Size</th>
<th>Chambers</th>
</tr>
</thead>
<tbody>
<tr>
<td>43209</td>
<td>Full Leg</td>
<td>Small Size</td>
<td>8</td>
</tr>
<tr>
<td>43210</td>
<td>Full Leg</td>
<td>Small Wide Size</td>
<td>8</td>
</tr>
<tr>
<td>43211</td>
<td>Full Leg</td>
<td>Small Extra Wide Size</td>
<td>8</td>
</tr>
<tr>
<td>43212</td>
<td>Full Leg</td>
<td>Medium Size</td>
<td>8</td>
</tr>
<tr>
<td>43213</td>
<td>Full Leg</td>
<td>Medium Wide Size</td>
<td>8</td>
</tr>
<tr>
<td>43214</td>
<td>Full Leg</td>
<td>Medium Extra Wide Size</td>
<td>8</td>
</tr>
<tr>
<td>43215</td>
<td>Full Leg</td>
<td>Large Size</td>
<td>8</td>
</tr>
<tr>
<td>43216</td>
<td>Full Leg</td>
<td>Large Wide Size</td>
<td>8</td>
</tr>
<tr>
<td>43217</td>
<td>Arm</td>
<td>Medium Size</td>
<td>8</td>
</tr>
<tr>
<td>43218</td>
<td>Arm</td>
<td>Large Size</td>
<td>8</td>
</tr>
<tr>
<td>43219</td>
<td>Arm + Shoulder</td>
<td>Medium Size</td>
<td>8</td>
</tr>
<tr>
<td>43220</td>
<td>Arm + shoulder</td>
<td>Large size</td>
<td>8</td>
</tr>
</tbody>
</table>

**Disposal of Device:**
Medical equipment and devices should be disposed of in proper containers that meet Environmental Protection Agency standards. Check with local State Laws & Regulations to see is required in your state.
Warranty & Service Information:

Chattanooga warrants its PresSsion 652-8 lymphedema compression pumps (excluding sleeves) (individually each a “Device”) to be free from defects in workmanship and materials for a period of three (3) years from the date Device is delivered to the original purchaser (“Warranty Period”). Chattanooga warrants the sleeves for the Devices to be free from defects in workmanship and materials for a period of one (1) year from the date the sleeves are delivered to the original purchaser. This Limited Warranty is extended only to the original purchaser and is non-transferable. Chattanooga’s sole obligation under this Limited Warranty shall be, at its sole discretion, to repair or replace a Device which is defective in either workmanship or material. This is the sole remedy of the Purchaser. In addition, this Limited Warranty does not cover any Device which may have been damaged in transit or has been subject to misuse, neglect, or accident; or has been used in violation of Chattanooga’s instructions, including, without limitation, the instructions contained in the Operation Manual.

THERE ARE NO WARRANTIES THAN THOSE EXPRESSLY STATED HEREIN.

TO THE EXTENT PERMITTED BY LAW, CHATTANOOGA DOES NOT MAKE ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO ANY PRODUCT OR DEVICE, WHETHER OR NOT THAT PRODUCT OR DEVICE IS COVERED BY ANY EXPRESS WARRANTY CONTAINED HEREIN.

IN NO EVENT SHALL CHATTANOOGA BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, USE OR TIME INCURRED BY PURCHASER OR END USER). IN ADDITION, CHATTANOOGA SHALL NOT BE LIABLE FOR ANY EXEMPLARY OR PUNITIVE DAMAGES.

Note: This unit is not field serviceable. Tampering with or dismantling this unit in any way will void warranty. If you have questions or need assistance, please contact your local authorized dealer.

For warranty registration, please go to:
http://www.djoglobal.com/content/chattanooga-warranty-registration

Distributed by:
DJO, LLC
Vista, CA 92081, USA
**Product Classification:**

- According to the type of protection against electrical shock, this device is classified as a Class I Equipment, and Type B Equipment that is powered by an external electrical power source.

- According to the degree of protection against harmful ingress of water this system is classified as Ordinary Equipment (IPx0: without protection against ingress of water)

- According to the methods of sterilization this system does not have any parts or accessories that require sterilization.

- This system is classified as Equipment not Suitable for use in the presence of a Flammable Anesthetic Mixture with Air or Oxygen or Nitrous Oxide.

- According to the mode of operation this system is classified as Equipment that can be used for Continuous Operation.

- **Caution:** In the USA, Federal Law restricts this device to sale, by or on the order of a physician.

- Unit is packaged for transportation by common carrier

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**Guidance and Manufacturer’s Declaration - Electromagnetic Immunity**

1. **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the Operating Instructions;

2. Portable and mobile RF communications equipment can affect **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8**.
1. **WARNING** that the use of accessories, transducers and cables other than those specified with the exception of transducers and cables sold by the manufacturer of the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** as replacement parts for internal components, may result in increased EMISSIONS or decreased IMMUNITY of the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8**.

2. **WARNING** that the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** should not be used adjacent to or stacked with other equipment.

3. **Guidance and manufacturer’s declaration – electromagnetic emissions**

   The **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** is intended for use in the electromagnetic environment specified below. The customer or the user of the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Emissions</th>
<th>Compliance</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions CISPR 11</td>
<td>Group 1</td>
<td>The <strong>SEQUENTIAL COMPRESSION DEVICE MODEL 652-8</strong> 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.</td>
</tr>
<tr>
<td>RF emissions CISPR 11</td>
<td>Class B</td>
<td>The <strong>SEQUENTIAL COMPRESSION DEVICE MODEL 652-8</strong> 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.</td>
</tr>
<tr>
<td>Harmonic emissions IEC 61000-3-2</td>
<td>Class A</td>
<td></td>
</tr>
<tr>
<td>Voltage fluctuations / flicker emissions IEC 61000-3-3</td>
<td>Complies</td>
<td></td>
</tr>
</tbody>
</table>
### Guidance and manufacturer's declaration – electromagnetic immunity

The **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** is intended for use in the electromagnetic environment specified below. The customer or the user of the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic discharge (ESD) IEC 61000-4-2</td>
<td>±6 kV contact ±8 kV air</td>
<td>±6 kV contact ±8 kV air</td>
<td>Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.</td>
</tr>
<tr>
<td>Electrical fast transient/burst IEC 61000-4-4</td>
<td>±2 kV for power supply lines</td>
<td>±2 kV for power supply lines</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Surge IEC 61000-4-5</td>
<td>±1 kV line(s) and neutral</td>
<td>±1 kV line(s) and neutral</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11</td>
<td>&lt;5 % $U_T$ (&gt;95 % dip in $U_T$) for 0,5 cycle 40 % $U_T$ (60 % dip in $U_T$) for 5 cycles 70 % $U_T$ (30 % dip in $U_T$) for 25 cycles &lt;5 % $U_T$ (&gt;95 % dip in $U_T$) for 5s</td>
<td>&lt;5 % $U_T$ (&gt;95 % dip in $U_T$) for 0,5 cycle 40 % $U_T$ (60 % dip in $U_T$) for 5 cycles 70 % $U_T$ (30 % dip in $U_T$) for 25 cycles &lt;5 % $U_T$ (&gt;95 % dip in $U_T$) for 5s</td>
<td>Mains power quality should be that of a typical commercial or hospital environment. If a dips or an interruption of mains power occurs, the current of the <strong>SEQUENTIAL COMPRESSION DEVICE MODEL 652-8</strong> may be dropped off from normal level, it may be necessary to use uninterruptible power supply or a battery.</td>
</tr>
<tr>
<td>Power frequency (50/60 Hz) magnetic field IEC 61000-4-8</td>
<td>3 A/m</td>
<td>3A/m</td>
<td>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</td>
</tr>
</tbody>
</table>

**NOTE** $U_T$ is the a.c. mains voltage prior to application of the test level
5. **Guidance and manufacturer’s declaration – electromagnetic immunity**

The **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** is intended for use in the electromagnetic environment specified below. The customer or the user of the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td>IEC 61000-4-6</td>
<td>3 Vrms 150 kHz to 80 MHz</td>
<td>Portable and mobile RF communications equipment should be used no closer to any part of the <strong>SEQUENTIAL COMPRESSION DEVICE MODEL 652-8</strong>, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Vrms</td>
<td>( d = 1.2\sqrt{P} )</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>( d = 1.2\sqrt{P} ) 80MHz to 800MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>( d = 2.3\sqrt{P} ) 800MHz to 2.5GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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 metres (m).</td>
</tr>
<tr>
<td>Radiated RF</td>
<td>IEC 61000-4-3</td>
<td>3 V/m 80 MHz to 2.5 GHz</td>
<td>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 V/m</td>
<td>Interference may occur in the vicinity of equipment marked with the following symbol:</td>
</tr>
</tbody>
</table>

**NOTE 1** At 80 MHz and 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 **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** is used exceeds the applicable RF compliance level above, the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8**.

b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.
Recommended separation distances between portable and mobile RF communications equipment and the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8**

The **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the **SEQUENTIAL COMPRESSION DEVICE MODEL 652-8** as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Rated maximum output power of transmitter (W)</th>
<th>Separation distance according to frequency of transmitter (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 kHz to 80 MHz</td>
</tr>
<tr>
<td></td>
<td>(d = 1.2\sqrt{P})</td>
</tr>
<tr>
<td>0.01</td>
<td>0.12</td>
</tr>
<tr>
<td>0.1</td>
<td>0.38</td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>10</td>
<td>3.8</td>
</tr>
<tr>
<td>100</td>
<td>12</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \(d\) in metres (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.