USER MAINTENANCE
Contains no serviceable parts. Contact Ortho8 Inc. Customer Service at (800) 604-2487

Inspect the unit and all components for any damage that may have occurred during shipping or general handling prior to each use (for example, frayed or cut charging cord, cracked plastic housings, torn cuffs, etc.). Refer to image of Circul8 Pro for description of all components.

Do not attempt to connect the wall supply if any damage is noticed.

Avoid subjecting the units to shocks, such as dropping the pumps.

Do not handle the leg cuffs with any sharp objects. If a bladder is punctured or you notice a leak, do not attempt to repair the unit or cuffs. Replacement units are available through customer service.

Avoid folding or creasing the bladder during use and transportation of the units.

Battery is not replaceable, replacement units are available through customer service. Contact Ortho8 Inc. to receive replacements instructions for any damaged items.

STORAGE

Store in a dry location between +10°C (50°F) and +40°C (104°F).

Do not expose to heat exceeding 65°C (149°F).

Do not store items in direct sunlight.

DISPOSAL

This unit is an electromechanical device that includes printed circuit boards and rechargeable batteries. Do not discard in landfill. Consult local county requirements for proper disposal instructions.

Pump control units contain rechargeable batteries. Do not discard in regular waste. Bring the unit to your local recycle center or contact Ortho8 Inc.

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The use of accessories, power supplies and cables other than those specified, with the exception of components sold by the manufacturer of the Circul8 Pro as replacement parts, may result in increased emissions or decreased immunity of the Circul8 Pro.

CLASS II medical electrical equipment

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This symbol designates the degree of protection against electrical shock from the wrap as being a type BF applied part.

Follow the instructions for use.

CONTRAINDICATIONS

The Circul8 Pro MUST NOT be used to treat the following conditions:

- Persons with suspected, active or untreated: deep vein thrombosis, ischemic vascular disease, severe arteriosclerosis, pulmonary edema, severe congestive heart failure, thrombophlebitis, or an active infection.

- On the legs where cuffs would interfere with the following conditions: vein ligation, gangrene, dermatitis, open wounds, a recent skin graft, massive edema or extreme deformity of the leg.

- On any neuropathy.

- On extremities that are insensitive to pain.

- On any neuropathy.

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The Circul8 Pro Vascular Therapy System, model 08-0027, is intended to be an easy to use portable system, prescribed by a physician, for use in the home or clinical setting to help prevent the onset of DVT in patients by stimulating blood flow in the extremities (simulating muscle contractions).

This device can be used to:

- Aid in the prevention of DVT

- Enhance blood circulation

- Diminish post-operative pain and swelling

- Reduce wound healing time

- Aid in the treatment of: stasis dermatitis, venous stasis ulcers, arterial and diabetic leg ulcers, chronic venous insufficiency and reduction of edema in the lower limbs

As prophylaxis for Deep Vein Thrombosis (DVT) by persons expecting to be stationary for long periods of time

The purpose of the Circul8 Pro is to aid in the prevention of Deep Vein Thrombosis (DVT) by helping to stimulate blood flow in the legs. This is accomplished by an electronically controlled pump delivering a set amount of air to the leg cuffs that, in turn, compress the calf or calves to aid blood flow out of the lower extremities.

The pump will inflate each leg cuff to a preset pressure of 50mmHg and deflate once the pressure is reached. The cycles are repeated on each unit until the power is turned off. Internal rechargeable batteries allow the Circul8 Pro to be completely portable, thus preventing interruptions in treatment.

Indications for Use:

The Circul8 Pro Vascular Therapy System, model 08-0027, is intended to be an easy to use portable system, prescribed by a physician, for use in the home or clinical setting to help prevent the onset of DVT in patients by stimulating blood flow in the extremities (simulating muscle contractions).

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**SYSTEM COMPONENTS**

- USB Port
- Low Pressure Indicator
- Power Button & Battery Indicator
- Charging Port

**INSTRUCTIONAL**

**POWER OFF:**
Unit is in “sleep” mode. No visible LED illumination.

**POWER ON:**
Unit powers up with GREEN LED illuminated (flashing GREEN if connected to charger and battery is charging, or YELLOW can be illuminated if battery is LOW). After a 5 second delay, the pumps will allow inflation of the attached wrap to a pre-determined pressure of 50 mmHg. Once the pressure reaches the proper level, the pump will turn OFF for a 30 second “rest” period, and the cuff deflates through the vent port to cool the leg or legs. After the “rest” period, the wrap is again inflated, and so on every 50 seconds.

**BATTERY INDICATOR:**
In order to properly indicate the state of the battery and charger, there are THREE stages of the BATTERY INDICATOR as follows:

1. **POWER ON:**
   - Unit use time (amount of time the unit is powered ON) is monitored and stored by the MPU (Microprocessor Unit) and can be downloaded into Excel via the USB interconnecting to an interface module.

2. **POWER OFF:**
   - Unit is in “sleep” mode. No visible LED illumination.

3. **UNIT POWERED OFF**
   - For extended operation periods, or to charge the battery during treatment sessions, the AC adapter CAN be connected while the device is in use. The UNIT LED will flash GREEN whenever the unit is powered ON and battery charging, and show SOLID GREEN once the battery is charged.

**CHARGING THE BATTERY:**
- **USE ONLY THE CHARGER PROVIDED BY ORTHO8 INC.** Use of the wrong charger can cause excessive heat, damage to the charging circuit and shorten the life of the battery.

**WARNINGS AND PRECAUTIONS**

- The Circul8 Pro cuffs are designed for single patient use only.
- Medical Electrical Equipment needs special precautions regarding EMC, Portable and mobile RF Communications Equipment can be affected by other Medical Electrical Devices.
- Cuffs used in combination with warming devices may cause skin irritation. Regularly check for patient discomfort, compliance, and skin irritation.
- To prevent extremity compartment syndrome, special attention should be given to patients who are positioned in the supine lithotomy position for extended lengths of time. This includes patients with or without cuffs.
- Do not open or remove covers. No user serviceable parts inside. Direct all unit issues to Ortho8 Inc.
- If pulsations or throbbing occur, the cuff may be wrapped too tightly. Loosen immediately.
- Stop using device if swelling occurs; consult a Physician.
- Device is to be used only by the patient prescribed, and only for its intended use.
- Ensure the pump control unit is turned off and unplugged from the wall outlet prior to and while cleaning or disinfecting.
- Equipment should not be used in the presence of any flammable anesthetic mixture with air, oxygen, or nitrous oxide.
- Do not immerse in any liquid for any reason.
- Do not operate device in a wet environment.
- Allow cuffs to warm to room temperature if exposed to temperatures below 5°C or (41°F).
- Do not subject the unit to extreme shocks, such as dropping the pump.
- Do not use abrasive or volatile cleaners.
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**CLEANING AND DISINFECTING**

**NOTE:**
- Do NOT place cuffs in dryer.
- Use ORTHO8 INC. cleaning or disinfecting solution.

**WARNING:**
- Device must be turned off and disconnected from the wall outlet prior to and during cleaning or disinfecting.

**DO NOT IMMERSE UNIT IN ANY LIQUID FOR ANY REASON**
- Clean the outer surface of the pump unit using a soft cloth, moistened with soapy water or 70% isopropyl alcohol.
- Do not use abrasive or volatile cleaners.
- Do not use any flammable anesthetic mixture with air, oxygen, or nitrous oxide.
- Do not immerse in any liquid for any reason.
- Do not operate device in a wet environment.
- Do not subject the unit to extreme shocks, such as dropping the pump.
- Do not use abrasive or volatile cleaners.
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**USING THE AC ADAPTER / BATTERY CHARGER**

**UNIT POWERED OFF**
Insert the supplied power supply plug by into the port at the bottom end of the unit and connect the power supply adapter to the wall socket. The GREEN “Charging” indicator on the unit will illuminate or flash, depending on the state of charge.

A full charge of a depleted battery should take about 4 hours. When the unit is turned off and plugged in the battery is charging, the power button will flash green. Once the battery reaches full charge the power button will be green and remain solid.

**UNIT POWERED ON**
- For extended operation periods, or to charge the battery during treatment sessions, the AC adapter CAN be connected while the device is in use. The UNIT LED will flash GREEN whenever the unit is powered ON and battery charging, and show SOLID GREEN once the battery is charged.

**PRECAUTIONS**

- **Low Pressure Indicator**
  - If battery voltage drops below critical level, cycling stops, and the battery is fully charged (if connected to charger) or has adequate power.

- **USB Port**
  - The yellow LOW BATTERY INDICATOR will REMAIN ILLUMINATED during the pumping time and rest period. At this stage, the battery charger MUST be connected immediately to avoid any interruption in the treatment sessions.

- **FLASHING RED:**
  - If the battery voltage drops below a critical level at any time, while unit is ON, flashing RED and audible alarm beeps for 30 seconds. Unless unit is turned off OR connected to charger within that 30 seconds, unit WILL AUTOMATICALLY power OFF.

- **STAGE 1 – GREEN:**
  - When the unit power is ON and the battery is charging, the GREEN LED flashes. A steady GREEN LED indicates battery is fully charged (if connected to charger) or has adequate power for portable operation if not connected to charger.

- **STAGE 2 – YELLOW:**
  - The yellow LOW BATTERY INDICATOR will REMAIN ILLUMINATED during the pumping time and rest period. At this stage, the battery charger MUST be connected immediately to avoid any interruption in the treatment sessions.

- **STAGE 3 – GREEN:**
  - When the unit is turned OFF and the battery is charging, the GREEN power button FLASHES. Once the battery reaches full charge, the GREEN power button REMAINS SOLID.

- **FLASHING RED:**
  - If the battery reaches full charge the power button will be green and remain solid.

**ALARMS:**

- **“Battery Critical”** – If battery voltage drops below critical level, cycling stops, audible alarm will sound, and UNIT WILL FLASH RED. Alarm will continue for 30 seconds (unless unit is powered OFF) and automatically turn the unit OFF. Plug in power supply immediately. If alarm continues to sound, DO NOT try to fix the device. Call customer service for a replacement unit at (800) 604-2487.

- **“Low Pressure or Leak”** – When activated, if pressure limit is NOT reached within 20 seconds after pump is energized, cycling stops, ALARM sounds and BLUE “low pressure” LED, and RED power button flash simultaneously. Alarm will continue for 30 seconds (unless unit is powered OFF) and automatically turn the unit OFF. Make sure wrap is attached snugly to the leg. Turn the unit OFF, and then turn the unit back ON. If the unit continues to alarm after this step, DO NOT try to fix the device. Call customer service for a replacement unit at (800) 604-2487.

- **ALARM RESET:**
  - To reset an alarm condition after the “operation inhibit” stage is reached, the unit must be turned OFF. If not manually turned OFF within 30 seconds of such an alarm condition occurring, unit automatically turns itself OFF. Once the unit is turned back on the alarm is RESET.

- **OPTIONS:**
  - By Prescribing Physician Only:
    - At the top edge of the pump/controller unit is a small USB port. This is NOT to be directly connected to a computer. In order to download use data, a data expander interface must be purchased from Ortho8 Inc.

**CALF CUFF APPLICATION**

1. Wrap the cuff around the calf and secure the Velcro to hold it in place. Make sure the wrap is snug, but not too tight.

2. When both wraps are secured on your legs, they should look like the picture above.

3. Turning the device ON:
   - When the wraps are secured on your legs PRESS and HOLD the WHITE power button for about a second until a single BEEP tone is heard and the light is illuminated on each unit. To turn the unit OFF, PRESS and HOLD the WHITE power button for about a second until a DUAL BEEP tone is heard and the light is no longer illuminated.

4. Using the device:
   - Don’t be startled. The device will make a “humming” sound when inflating and squeezing your leg. THIS IS NORMAL. The wraps will inflate once a minute. If you feel air releasing around the legs, this is normal. This is a function of the device to keep your legs cool.

   - The Circul8 Pro cuffs are designed for single patient use only.
   - Medical Electrical Equipment needs special precautions regarding EMC, Portable and mobile RF Communications Equipment can be affected by other Medical Electrical Devices.
   - Cuffs used in combination with warming devices may cause skin irritation. Regularly check for patient discomfort, compliance, and skin irritation.

   - To prevent extremity compartment syndrome, special attention should be given to patients who are positioned in the supine lithotomy position for extended lengths of time. This includes patients with or without cuffs.

   - Do not open or remove covers. No user serviceable parts inside. Direct all unit issues to Ortho8 Inc.

   - If pulsations or throbbing occur, the cuff may be wrapped too tightly. Loosen immediately.

   - Stop using device if swelling occurs; consult a Physician.

   - Device is to be used only by the patient prescribed, and only for its intended use.

   - Ensure the pump control unit is turned off and unplugged from the wall outlet prior to and while cleaning or disinfecting.

   - Equipment should not be used in the presence of any flammable anesthetic mixture with air, oxygen, or nitrous oxide.

   - Do not immerse in any liquid for any reason.

   - Do not operate device in a wet environment.

   - Allow cuffs to warm to room temperature if exposed to temperatures below 5°C or (41°F).

   - Do not subject the unit to extreme shocks, such as dropping the pump.

   - Contains no user serviceable parts. Contact Ortho8 Inc. Customer Service.

   - Do not place cuffs in dryer.

   - Never remove the unit from the cuff.

   - Hand wash the exterior of the cuffs using a soft cloth, moistened with soapy water or 70% isopropyl alcohol and let air dry.

   - To ensure the unit IS completely dry prior to use, leave unit in the OFF condition and disconnected from the wall outlet for 30 minutes after cleaning or disinfecting.

   - Do not use abrasive or volatile cleaners.