

High Frequency



I N S T R U C T I O N M A N U A L
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High Frequency Unit

Background Information

Nikola Tesla (1856-1943) invented the first High Frequency machine. It used an alternating current to send electrical currents and strong vibrations through a person's skin to help in healing and relieving pain.

High frequency current may also be referred to as "Tesla Current" after Nikola Tesla. It is a current that alternates very rapidly – in the range of 100,000 to 250,000 hertz to produce heat in the tissues.

The high-frequency unit is used as one of the final steps of a facial after extractions. Depending on how it is used, it can be warming and soothing, or stimulating. It can also deliver a mild antiseptic effect. A high frequency current passes through the body very easily, exciting the water molecules in the body. They begin to vibrate very rapidly, warming the body tissues.

The instrument transmits high frequency current that can benefit the skin in many ways:

- ❑ Increases metabolism
- ❑ Produces heat inside the body tissues
- ❑ Stimulates glandular activity
- ❑ Increases the circulation of blood
- ❑ Aids in elimination and absorption
- ❑ Penetrate products more deeply into the skin
- ❑ Creates germicidal action – While it is being used in the direct method mode, the electrical current reacts with oxygen to generate ozone, which has germicidal properties, helping kill bacteria on the skin.

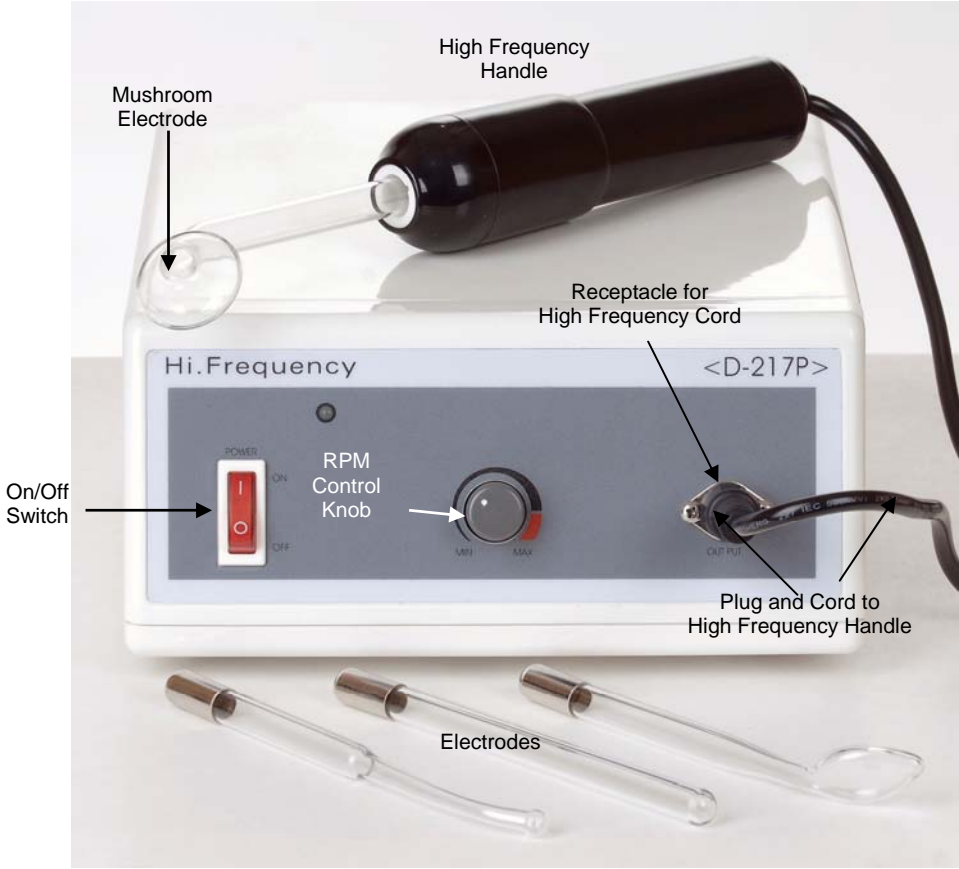
Current can be applied to the client's face in one of 3 ways:

- ❑ Direct – The esthetician places the electrode directly on the client's skin and moves it gently over the skin. High-frequency energy is discharged into the skin at the point of contact. The direct method both warms and stimulates the skin.

If the skin care specialist places thin layers of cotton or gauze on the face before using the electrode, he/she creates a small space between the skin and the electrode. More oxygen can enter the space and surround the electrode, so when the oxygen becomes electrified more ozone is formed, creating a greater germicidal effect.

- ❑ Indirect – Used to relax the client. The client holds both the electrode and the electrode handle firmly in place while the esthetician massages the treatment product into the skin. This causes the client to become charged with high-frequency energy. As the esthetician massages the client's skin, the high frequency discharges from the client through the esthetician's fingers, warming the client's skin at the point of contact. This warms and soothes the client.
- ❑ Fulgeration/acne sparking - The esthetician holds the electrode a short distance away from the skin, producing a spark.

Parts/Accessories



Attachments:

- *Mushroom Electrode* - treats larger areas of the face and body – often used in circular motions on the client’s face and neck.
- Acne Sparking Electrode - treats acne and inflammation.
- Spoon Electrode - for around the nose, mouth and other curved areas
- Indirect Electrode – held in the client’s hand during indirect treatment.



Acne Sparking Electrode



Spoon Electrode



Mushroom Electrode



Indirect Electrode

Refer to the complete replacement parts list at the end of this manual for part numbers.

Operations/Precautions

FOR PROFESSIONAL USE ONLY

To reduce the risk of electric shock:

- Always unplug the unit when not in use.
- Do not use while bathing.
- Do not place (or drop) into water or any other liquid.
- Do not reach for a unit that has fallen into water. Unplug immediately.

To reduce the risk of burns, electric shock, fire, or injury:

- Do not leave the High Frequency Unit unattended when in use.
- Do not allow children to operate the High Frequency Unit.
- Extreme caution should be used when High Frequency Unit is used on or near invalids.
- The High Frequency Unit should be used only for its intended purpose as described in this manual.
- Do not use attachments that are not recommended by the High Frequency Unit manufacturer.

- ❑ Do not operate the High Frequency Unit if:
 - It has a damaged cord or plug.
 - If it is not working properly.
 - If it has been dropped or damaged.
 - If it has been dropped into water.
- ❑ If damaged, return the High Frequency Unit to an authorized service center for examination and repair.
- ❑ Keep the cord of the High Frequency Unit away from heated surfaces.
- ❑ Never block the air vents of the High Frequency Unit Do not place it on a soft surface such as a bed or couch where air vents may be blocked. Keep the air vents free of lint, hair, etc.
- ❑ Do not use the High Frequency Unit outdoors.
- ❑ Connect the High Frequency Unit to a properly grounded outlet (preferably a GFCI outlet).

General Precautions

- ❑ Use only products that are water-soluble during this treatment. **Do not** use alcohol or other flammable liquid.
- ❑ If the client's hair has been saturated with an alcohol-based product during a previous treatment, do not perform high-frequency treatment on them.
- ❑ Both the client and the esthetician should remove all jewelry before beginning the treatment.
- ❑ The client should remove his/her contacts before beginning treatment.
- ❑ The client should not touch any nearby metal objects or the metal frame of the facial chair or lounge
- ❑ Too much ozone can actually damage the tissue. If damage occurs, the skin will heal leaving brown marks. The electrode should never be lifted more than ¼" from the surface of the skin.

Known Contraindications

- ❑ Do not use high frequency on a client who is pregnant, has a pacemaker, or has a history of heart disease or epilepsy.
- ❑ High frequency treatments should not be performed more often than once every 2 months.

There may be other unknown contraindications for this Product. For this reason, you should always recommend that your Client discuss the use of this Product as part of their spa treatment program with their health care professional before commencing treatment. Universal Companies, Inc., its officers, directors, employees and vendors cannot be responsible for any claims, damages, injuries or expenses arising from your Client's use of this Product prior to discussing it with their health care professional or from disregarding the Product's instructions, and you and your Client agree to hold Universal harmless from any such claims. We and our suppliers care about the health and beauty of your Clients. While we make every reasonable effort to maintain strict quality control and training standards, every client is unique and spa treatments do affect people differently. Unless you advise us otherwise, we have to assume that your Client has discussed your spa treatment plan with their health care professional and secured their approval. Doing this will make your Client's spa experience safe and will be supportive of their overall emotional and physical well-being. After all, that is the goal of us all.

Instructions for Use

How the Electrodes Function

During their manufacturing process, most of the air is removed from the high frequency glass electrodes to create a vacuum. Then they are filled with argon or neon gas, which is inert. High frequency energy causes some of the atoms inside the glass tube to become charged. Electrons are forced off the atoms, creating charged particles called ions. Electricity flows through the charged particles causing the gas to become visible. It may emit pink, orange, red, blue, or violet light, depending on the gas inside.

1. Both the client and the esthetician should remove all metal jewelry, particularly those that hang loosely over clothing. If the client has a tight fitting wedding ring that they never remove, they may leave that on.
2. Make sure the client cannot touch any metal objects – be particularly careful that they are not touching the metal frame of the treatment chair or table.
3. The client should remove his/her contact lenses before beginning this procedure.
4. Explain to the client what they will feel during the high frequency treatment, describing the sparking sensation in detail. The treatment can frighten a client who doesn't know what to expect.
5. Use of electrodes.
 - Before inserting an electrode in the high-frequency handle, inspect the slot where the electrode will be inserted to make sure it is free of dust and/or debris. If there is any dust or debris, remove it.
 - Check the electrodes to ensure that they are firmly seated in the handle (to prevent possible damage to the electrodes).
 - Do not touch the metal end of the electrode.
 - Clean the end with alcohol pad and allow it to dry before placing electrode in handle.
 - Do not use excessive force when pushing the electrodes into the high-frequency handle. This could break the electrodes.
 - Always insert and pull the electrode straight in or out of the handle. Never twist.

Turn the high-frequency unit “Off” when changing electrodes.

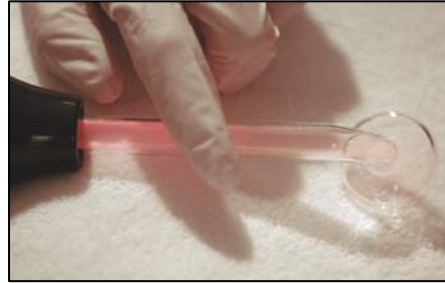
Direct Technique (soothing)

Direct high frequency is typically used to treat oily, congested skin. The direct method creates ozone which produces a germicidal effect on the skin. In addition, it creates a drying effect that helps eliminate excess sebum.

1. If you have not already done so (as part of another treatment), apply a non-flammable product (cream or mask) to the skin to provide slip for the glass probe as it moves over the client's skin.
*Note: Only use products that are water-soluble when using high frequency. **DO NOT** use any products that contain alcohol or any other flammable liquid. Instead of product, you may use a thin piece of gauze on the face to provide slip. It also creates a slight space where additional ozone can form.*
2. Turn the intensity of the current as low as it will go before turning the high-frequency unit “On” or “Off”.

3. When performing this technique:

- Hold the high-frequency handle below the taper while performing the technique. Touching the handle above the taper will draw current from the electrode.
- Place your finger on the electrode.
- Turn the high frequency unit “On”.
- Position electrode on client’s skin.
- Remove finger from the electrode.



4. Set the intensity level after you have positioned the electrode on the client’s skin.

Note: Set the final intensity according to client’s comfort level, and skin condition and sensitivity level. Monitor the client’s comfort level closely.

Note: If you break contact with the client’s skin, repeat Step 3.

5. Proceed with the treatment. Using one of the facial electrodes, start at the neck and using small circular movements, work upward to the jaw, cheeks, chin, nose and forehead.



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Note: If you break contact with the client's skin, repeat Step 3.

5. Proceed with the treatment. Using one of the facial electrodes, start at the neck and using small circular movements, work upward to the jaw, cheeks, chin, nose and forehead.

Indirect Technique (relaxing)

During the indirect method, the client holds the electrode while the skin care professional massages his/her face. The electrical current passes through the client's body and into the esthetician's hands. Since her hands are acting as an electrode, the esthetician may feel a slight tingling sensation. The indirect method relaxes the client. It is often referred to as a Viennese Massage.

Indirect high frequency can stimulate sebum production in both oily and dry skin types.

1. The client should hold the indirect (straight) electrode securely with both hands. One hand should hold the handle while the other hand grips the tip of the electrode.
2. Cover the electrode with a cheesecloth or 1 ply gauze for comfort if needed.
3. Before turning the high-frequency unit "On":
 - Check to ensure that the client is holding the electrode securely.
 - Make contact with the client by placing one hand on his/her skin at the treatment area.
 - Turn the unit on, adjust the intensity, and proceed with massage techniques.



4. Turn the high-frequency unit "Off" before removing both hands from the client, whether ending the treatment or changing treatment areas. Do not break contact with the client's skin while current is flowing.
5. The client should feel little or no sensation from the high-frequency current during this technique. The esthetician may feel a slight tingling.

Sparking/Fulguration Technique (stimulating)

The client will feel a slight sensation during this technique, due to the exchange of the current between the electrode and the client's skin. Keep the intensity well within his/her comfort level. This technique requires the acne-sparking electrode.

1. Insert the Acne Sparking Electrode into the handle.
2. Turn the high-frequency power switch to the "On" position.
 - The high-frequency current should be at the lowest setting before turning the switch "On", i.e., the intensity control knob should be turned to the far-left position.

3. Hold the electrode as close as you can to the pustule without touching it. You will see a slight spark “arc” between the electrode and the skin.
4. Slowly increase the intensity of the current by turning the intensity control knob until the client’s comfort level is achieved.
5. Treat each pustule or comedone for approximately 15-20 seconds until all have been treated.
6. End the procedure by turning the intensity control knob to its lowest setting.
7. Place the high-frequency power switch to the “Off” position.



Note: *Too much ozone can actually damage the tissue. If damage occurs, the skin will heal leaving brown marks. The electrode should never be lifted more than 1/4” from the surface of the skin.*

Cleaning

1. Use a hospital-grade surface disinfectant to clean the electrodes. Wipe the electrodes with a damp cloth.
2. Do not immerse the electrode in any liquid. The tips will come off.
3. Do not put electrodes in a UV sterilizer.
4. Wrap electrodes in a soft material and store them carefully. They are very fragile.

Tip: Clean the electrode with alcohol. Make sure there is no oil residue or fingerprints on the electrode.

Trouble Shooting

If you experience problems with the operation of your High Frequency Unit, please consult this troubleshooting guide before calling technical services at 1-800-558-5571.

If you are receiving minor electric shocks when you come in contact with your high frequency unit, there is probably nothing wrong with the machine. It has simply become contaminated with a cream or talc and the current is “tracking” through the product across the machine. Wipe the machine and the electrode handle with a cloth moistened with alcohol. In addition, clean out the socket into which the electrodes fit.

If the High Frequency Unit is not working:

1. Make sure High Frequency Unit is set in the “On” position.
2. Check the main power plug to ensure that it is plugged in to a working electrical outlet.
3. Check the fuse on the back of the unit, and if necessary replace it with a 5 amp fuse. You will need a Phillips Head screw driver.



4. The cord to the High Frequency Handle is securely plugged into the unit.
5. If one of the electrodes does not work as it should test the other 3 to see if they have the same problem. If it's just the one electrode, replace the electrode. If it is all 3, replace the handle.
6. If the High Frequency Unit is still not working, contact our authorized service center.

Specifications

Dimensions

- 9" wide, 4.25" high, 10.5" deep

Electrical

- 110 V, 60 Hz, 10 watts, 5 amps

Parts List with SKU's

Part Name	Part Numbers (SKUs)
High Frequency Handle	CP9098
Acne Sparking Electrode	CP1002
Spoon Electrode	CP1001
Straight Electrode	CP1000
Mushroom Electrode	CP9099
Fuse	CP9428T

Warranty Statement

The manufacturer (the "warrantor") warrants to the original purchaser that this equipment will be free from defects under normal and proper operation for a period of one (1) year from the date of purchase. This warranty covers all parts and labor for that one (1) year period. This warranty shall not apply to any equipment that has been subjected to abuse, misuse, and alteration of any type or to any defect or damage caused by repair, replacement, substitution or use with parts other than parts approved by the manufacturer.

The manufacturer shall not be liable for the loss of use of this equipment, loss of time or business, inconvenience or any other indirect, consequential, special or incidental damages due to defects covered by this warranty or any implied warranty.

To implement this warranty, contact the dealer from whom you purchased the equipment. If necessary, you will be asked to return all, or the appropriate part, of the equipment. If warranted, the repairs will be performed at no charge and the equipment returned to you. Unit owner must prepay all shipping costs when returning items for warranty service.

This limited warranty is the only written or express warranty given by the manufacturer. This warranty gives you specific legal rights but you may also have other rights, which may vary from state to state or province to province.

Authorized Technical Service Center:

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