
IHAP118

USER MANUAL



WARNING

Dear user

Thanks for using our company's products, in order to fully make use of the products, we sincerely suggests follow:

- Please do not remove and change any accessories of the machine.
- It forbids others to open and remove the mainframe except the authorized people in the company.
- It forbids others to change and maintain the machine except the professional people.
- Please contact us if there is any trouble during operation.
- Please read the instruction in detail and keep it well for further reading and consulting.
- Please follow the instruction to fit and operate the machine correctly.

This product does not belong to medical, please don't use for disease treatment!

1 Introduction

The IHAP118 is an Aesthetic Compression Therapy System that consists of a Programmable Sequential Therapy device and inflatable Compression Garments for use by the professional aesthetician. The system performs a massage from the distal to the proximal sections of a limb, relieving the limb of excess lymphatic and venous fluids.

Pressurized air is distributed through a sequence of tubes connected to a sleeve-like garment that is wrapped around the client's limb and fastened with zippers.

Gentle air pressure is created by inflating up to 24 overlapping cells located in each garment. The cells inflate in sequence, applying a smooth peristaltic unidirectional massage action that assists trapped fluid to move.

1.1 Intended Uses

- Cellulite ("orange peel skin")
- Volume reduction (legs, arms and torso)
- Reduction of edema pre/post liposuction surgery
- Relief of leg swelling and pain associated with venous insufficiency, obesity, or prolonged standing
- Relief of muscular pain and Relaxation and stress reduction Skin firming and toning

1.2 The IHAP118 System

The creation of the IHAP118 is the result of the vast experience gained from many years of collaboration with physicians specializing in sports medicine, plastic surgeons and physiotherapists.

The action of the IHAP118 aids in the removal of excess interstitial waste fluids, accelerates venous and lymphatic return, and promotes total body relaxation for a general improvement in well-being.

In sports, the IHAP118 is highly recommended for enhanced muscle relaxation and relief of muscle fatigue caused by intensive athletic activity and to aid recovery from sports injuries.

In the field of aesthetics, plastic surgery clinics use the IHAP118 for pre and post liposuction treatments. Cosmeticians and beauticians use the IHAP118 as part of slimming **treatments**.

Using the IHAP118 regularly may help to:

- ★ Prevent development of cellulites
- ★ Interrupt the accumulation of cellulite

- ★ Prevent and treat varicose veins
- ★ Reduce limb and body swelling
- ★ Shape legs, arms, buttocks, and belly
- ★ Relieve leg pains due to obesity and hard work
- ★ Firming and toning of skin.

1.3 Contraindications and Notices

The **IHAP118** is a highly effective pneumatic aesthetic massage machine that operates at pressures up to 80 mmHg. Because of the pressure applied, the operator of the IHAP118 machine (or the user, if the IHAP118 is to be self-applied) must verify prior to the start of treatment that the person who is to be treated with the IHAP118 does not suffer from any of the contraindications listed below.

Please carefully examine the list of contraindications and determine that the Person to be treated with the IHAP118 does not have any of these contraindications. At the back of this User Manual you will find a ***Screening Questionnaire***, which is intended to assist you in detecting possible contraindications. Follow the directions for completing the questionnaire.

If you are unsure as to whether one or more of these contraindications may be present, the person to be treated must consult his/her physician before they can be treated with the IHAP118.

1.4 Safety Note

Immediate Garment Deflation

When immediate garment deflation is necessary, disconnect the 12-pin connector from the machine to immediately deflate the air pressure in the garment.

Note:

To release the connector, press the connector clip and pull out the connector.

Use of the IHAP118 is not recommended where the following conditions are present:

- In the presence of any pain or numbness
- Severe arteriosclerosis or other ischemic vascular diseases
- Unbalanced cardiac insufficiency
- Known or suspected deep vein thrombosis or thrombophlebitis
- Gangrene
- Dermatitis
- Untreated or infected wound
- Severe inflammation of the treated limb
- Recent skin grafts.

**Warning:**

Due to movement of fluids in the body when using the machine, be careful with clients who have heart disease. Also using high pressure is not recommended for clients having peripheral occlusion disease.

**Warning:**

The IHAP118 operates at pressures up to a maximum of 80 mmHg.
The operator of the IHAP118 machine must verify prior to start of treatment that the person to be treated is not suffering from any of the above conditions.
If there is any uncertainty about whether a contraindication might be present, the person to be treated must consult his/her physician prior to treatment.

1.5 Warnings and Cautions

Obey and follow all Notices and cautions given in this manual.

Comply with all approved and established precautions for operating electrical and mechanical equipment.

All maintenance tasks should be performed only by trained, authorized personnel.

**Warning:**

Do not use the IHAP118 in the presence of flammable material.

**Warning:**

Do not autoclave any part of the IHAP118 system with steam or ethylene oxide. Do not immerse in liquid or allow liquid to enter the interior of any part.

**Warning:**

Do not use the IHAP118, any parts thereof, or any accessories if they have become wet or exposed to liquids.

**Warning:**

Do not store the IHAP118 system beyond the specified temperature ranges (see Section 7.3 – Storage): - 40 to 70 °C

**Warning:**



Disconnect the IHAP118 from electrical outlet before cleaning.

2 System Components

2.1 Device Components

The machine components are shown in Table 1

Table 1-machine Components

Item	Illustration
<p>The pressure machine supplies compressed air in programmed cycles .The pressure machine house two compressed air outlets and can activate two compression garments of up to 12 cells each, simultaneously.</p>	
<p>The Power Cord</p>	

2.2 Compression Garments

The aesthetic compression garments are shown in Table 2. For details on using the garments, refer to the garments guide.

Table2-Aesthetic compression Garments

Item	Illustration
<p>Jacket-24 air cells</p>	

Pants-24 air cells

3 Setting up the system

The proper positioning of the pressure machine and preparation of treated area is necessary to ensure safe and comfortable treatment for client.

**Warning:**

Using the IHAP118 system is allowed only in accordance with professional aesthetician instructions!

3.1 Positioning the Pressure machine

Place the machine on a flat stable surface without a chance of slipping or falling, where it can be easily reached during treatment by the user without having to get up out of his/her seated or reclining position during the treatment. This is important as the user may wish to make adjustments to the treatment settings or halt the treatment while it is in progress. Therefore the user should be able to reach the machine controls easily and from the treatment position.

**Warning:**

The air supply intake is the base of the machine. Ensure there is no any light material (like tablecloth, fabric, paper, etc.) that may be sucked upward and block the air intake.

3.2 Power Supply

Make sure that the power supply fits the machine's voltage. If the machine is equipped with a 3-pin, grounded power cord, use only a properly grounded electrical outlet.

3.3 Connecting the Garment House Bundles

Insert the House Bundle connectors (with the arrow positioning up) securely into either of the machine's outlets. Make sure to hear the "click" when the secure clip gets into its place.

3.4 Disconnecting the House Bundle

To remove the House Bundle from the machine release the safety clip and gently pull out the

House Bundle from the machine.

4 Operating the machine

4.1 Preparations

1. Ensure that the House Bundles are securely attached to the machine.
2. Verify that the power switch at the back of the machine is in the OFF position.
3. Connect the power cord to the machine and then connect the power cord to the electrical outlet.

Note:

Before fitting the inflatable sleeves, you should wear either a light, soft cotton, long sleeve shirt for upper body treatment or light, soft cotton pants for lower body treatment.

4. Put on the garment .please follows carefully the instructions enclosed with the garment you use.

Recommended postures:



Pants: lying on your back.

Jacket: sit back on a 45°-reclining sofa or armchair.

4.2 Operation



1. Turn on the power switch.


2. Select the required treatment using  or .

3. Select the required treatment time using  or .

Note:

The maximum treatment time available is 90 minutes, In case you need to have a longer treatment, use the Continuous Mode:

- a. Hold down  for 5 seconds after you reached 90-the display changes to "Hold "that describes the **Continuous Mode**.
- b. In order to get back to Timer Mode –hold down  for 5 seconds.

4. Adjust the pressure regulator to required level.
5. Press  to begin the treatment.



Note:

It may take some treatment cycles for the pressure machine to fully inflate the garment.



Note:

At the end of the treatment (when the treatment time has expired), the pressure machine will stop automatically, deflating the garments.


4.3 Changing Treatment Time

The remaining treatment time is displayed on the screen. Changing the time remaining is possible during the treatment using  and .

4.4 Interrupting and Resuming the Treatment Session

1. Press . The session is paused and the compressed pants deflate.
2. To continue the treatment from the point it was interrupted (Resume). Press .

4.5 Resetting The machine and Starting the Session from the Beginning

Press  again (on the right of the screen you will see "Ready").

4.6 Ending the Treatment

When the treatment is finished, either automatically or manually:

1. Remove the deflated garments.
2. Disconnect the Hose Bundle from the machine.
3. Disconnect the power cord from the electrical outlet and the machine.

5 User Interface

The user interface is shown in Figure 1.

When the IHAP118 is switched on, the display screen shows the required treatment time last used, and the actual stage : Ready.

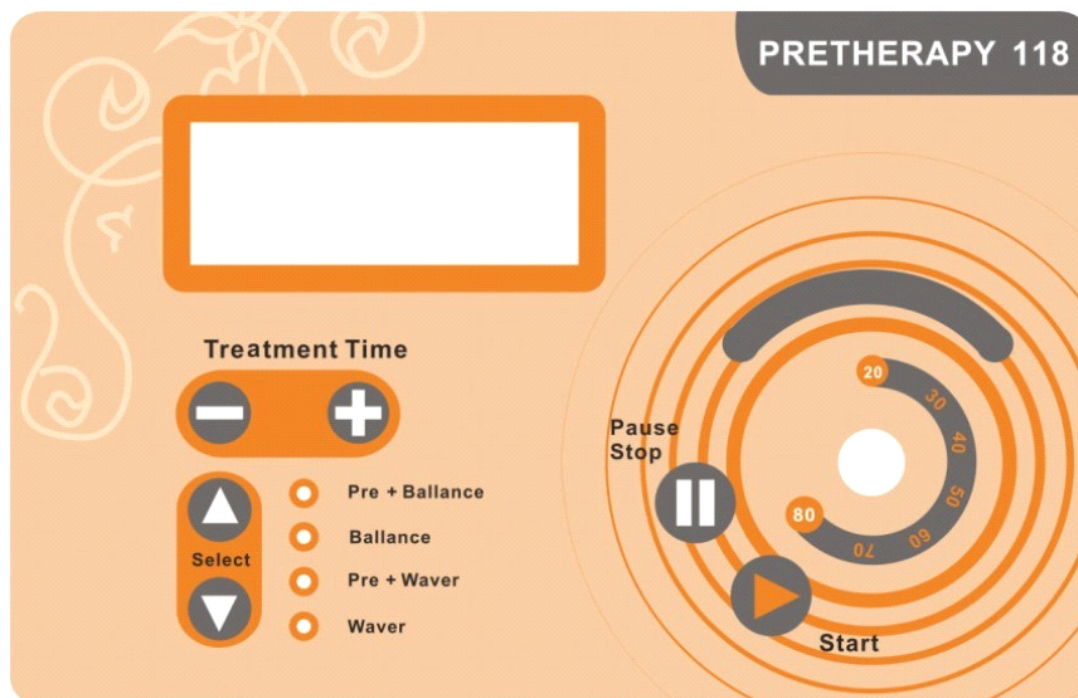
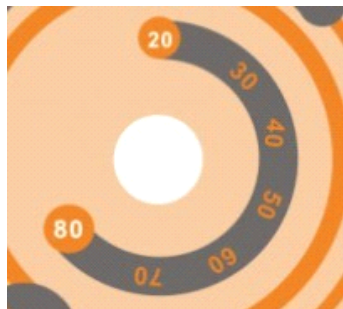





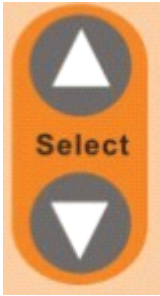










Figure1-User Interface

Table 3 -User Interface Screen and Operating Buttons

Button	Function
	Pressure Control: The Pressure can be set between 20 to 80mmHg. The pressure can be increased during the treatment.
	<p>Treatment Time [min]: Time can be set using  and  under the treatment between 20 to 90 minutes. The treatment Time can be increased or decreased during the treatment.</p> <p>Note: Time changes are in 5-minute steps.</p> <p>Continuous mode: Hold down  for 5 seconds after you reached 90. The screen will switch to "Hold" that describes the continuous mode.</p> <p>In order to revert Timer mode, hold down  for 5 seconds.</p>

	<p>Select Mode: The select mode button are located at the left hand side of the panel. Press  or  to select the required mode of operation.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Selecting mode is enabled only in ready stage. 2. The treatment therapy parameters are preset in the factory. Therapy mode parameters cannot be changed by the user.
	<p>Start: Press  to start treatment.</p> <p>On the right side of the screen you will see the word: “Run”. The treatment stops automatically and deflates the garment when the treatment time elapses.</p>
	<p>Pause/Stop: Press  to interrupt the treatment, deflate the garment and move into the pause stage.</p> <p>On the right side of the screen you will see the word: “Pause”. To continue the treatment from the point it was interrupted, press .</p> <p>Pressing  instead, resets the treatment timer to your last used setting, representing the word “Ready”.</p>

Note:

Selecting Mode of operation can be done in “Ready” stage only.

Note:

The Pause period can be a maximum of two hours, Subsequently, the machine will return to “Ready” stage.

6 Sequential Compression Cycles

The IHAP118 applies pressure to the affected limb using the compression sleeve. The machine pressure-and-release cycle enables emptying and refilling the fluids, which the directional compression promotes the flow upward towards the torso.

The pressure sequence are described in Sections 6.1 and 6.2.

6.1 The Waver/Balance Sequence

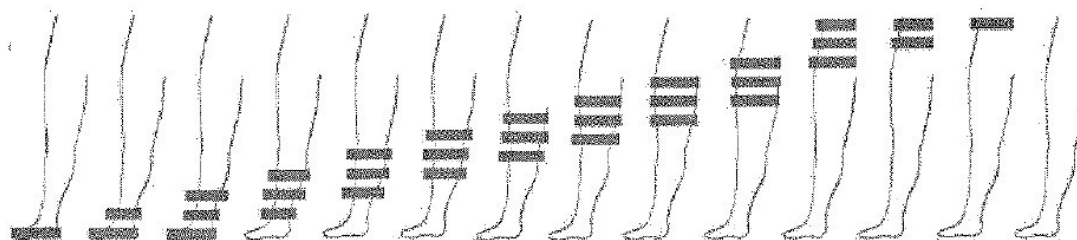


Figure 2-Waver/Balance Sequence

The Waver/Balance sequences (Figure 2) applies a peristaltic compression sequence to the limb. The sequence is wave-like, where a 30-cm pressure zone is moved along the limb, from distal to proximal. As the pressure in the compression cells rise up the limb, a new air cell is added to the inflated-cells-group, while the first one is deflated, leaving three cells inflated. This occurs progressively until the pressure wave has reached the top of the sleeve and the treatment session ends. The Wave cycle lasts about 30 seconds while the Balance cycle is quicker (approx. 20 seconds).

6.2 The Pre-Therapy Sequence

Based on the Waver/Peristaltic sequence, the Pre-Therapy sequence is a Primer for the main treatment. The main purpose is to drain the liquids from the proximal portion of the limb. The compression sequence begins near the trunk of the body. As the sequence progresses, it begins the compression moving lower and lower down the limb.

7 Maintenance & Storage

7.1 Cleaning the Pressure Machine

Ensure the electrical cord is unplugged before cleaning the pressure machine .

Use a damp cloth to wipe the pressure machine.

7.2 Cleaning the Garment

Gently wipe the compression garment using a soft cloth and warm water not exceeding 40°C with some mild detergent .Wipe the sleeve dry using a soft towel only .The sleeve may be wiped with a light application of antiseptic solution.

Δ Caution:

Do not use an Autoclave or dry clean the sleeve.

Do not wring, iron, tumble or force heat dry.

Do not use bleach.

7.3 Storage

Follow the storage instructions listed below:

- Keep the pressure machine, all components, and the garments away from direct sunlight .
- Store in a dry, shaded place in a temperature range of: -40 to 70°C.
- Avoid folding the sleeves during storage.

7.4 Travel

- Make sure to obtain the proper voltage transformer for the location you are visiting when you travel.
- Follow all storage guidelines when packing a compression machine or garment.

8 Troubleshooting**8.1 Troubleshooting List**

Phenomena	Hazard	Problem Source	Fixing
Power switch does not illuminate		No electric supply	Check fuses, power cord and electric outlet. Make sure the outlet voltage meets the data written on the label. Note: In case of replacing fuses, always use fuses of the voltage, type and rating as written on the fuses label .
Power switch illuminates, but the display does not		Faulty display connections	Call the technician
The machine halts pressure deflates	Error 01 to 09 + buzzer beeps	Internal malfunction (for more information see Table 4)	Turn OFF, wait 5 seconds and turn ON, to reset the machine. If the problem continues-call the technician.

	Error 10 + buzzer beeps	Cannot build pressure within allotted time	Check and fasten all air connectors. Check hoses and garments for air leakage. Turn OFF, wait 5 seconds and turn ON, to reset the machine. If the problem continues-call the technician.
A cell in the garment is not inflating while the others are		Improper tube connection	Disconnect the end connector from the specific cell, the reconnect it properly.
		A leak in the cell	Call a technician
		Internal pneumatic fault	Remove the hose and ensure that there is proper air flow. If no air coming out when the cell is supposed to be inflated according to sequence, call technician.
Pressure remains unchanged, though the Pressure Knob is being turned	Irregular noise may be heard	Pressure regulator fault	Call a technician.
Loud & abnormal noise		Hardware fault	Call a technician.

8.2 Error List

Table 4- Error List

Error 01 + buzzer beeps	Software error
Error 02 + buzzer beeps	Processor error
Error 03 + buzzer beeps	Pressure sensor error
Error 04 + buzzer beeps	pressure sensor problem
Error 05 + buzzer beeps	Fan failure
Error 06 + buzzer beeps	Pressure is too high over the requested pressure
Error 07 + buzzer beeps	Home position is not found
Error 08 + buzzer beeps	Rotation axes lost position

Specifications

Pressure Range	20 to 80 mmHg
Size	15*32*38.5cm
Weight	6.7Kg
Electrical	115V 60 Hz 230V 50/60 Hz

Appendix - screening questionnaire

The IHAP118 is a highly effective pneumatic aesthetic massage device that operates at pressures up to 80 mmHg. Because of the pressure applied, the operator of the IHAP118 device (or the user, if the device is to be self-applied) must verify to the start of treatment that the person who is to be treated with the IHAP118 does not suffer from any of the contraindications listed below.

A. Please carefully examine the list of contraindications and determine that the person to be treated does not have any of these contraindications.

Contraindications: any pain or numbness, severe arteriosclerosis or other ischemic vascular diseases. Unbalanced cardiac insufficiency. Known or suspected deep vein thrombosis or thrombophlebitis. Dermatitis. Untreated or infected wounds. Severe inflammation of the skin. Recent skin grafts.

B. This questionnaire is to be completed all clients/ users before using the IHAP118 for the first time. This questionnaire may be photocopied if needed for multiple uses.

Please answer the following by circling the correct answer (Yes or NO):

Are you under medical treatment for any medical condition at this time?	YES/NO
Are you taking medications?	YES/NO
Do you suffer from respiratory problems?	YES/NO
Do you have epilepsy?	YES/NO
Do you have any metal objects in your body?	YES/NO
Do you have circulatory problems in your legs or arms?	YES/NO
Do you have a heart condition?	YES/NO
Did you have an operation in the last three years?	YES/NO
Do you have diabetes or another metabolic illness?	YES/NO
Do you have varicose veins?	YES/NO
Do you have an open leg ulcer?	YES/NO
Do you currently have, or have you ever had in the past, a thrombosis?	YES/NO
Do you have a known or suspected deep vein thrombosis or thrombophlebitis?	YES/NO
Do you have dermatitis, infected wound, gangrene, severe skin inflammation, or recent skin grafts?	YES/NO

Do you have pain or numbness in any of your limbs?	YES/NO
Do you have arteriosclerosis or other ischemic vascular diseases?	YES/NO
Do you have unbalanced cardiac insufficiency?	YES/NO
Are you pregnant?	YES/NO

In case of possible contraindications or pre-existing risk factors, or when the answer to any of the above questions is YES, the user / client must obtain authorization from a physic that they may be treated with the IHAP118 Professional.

If the IHAP118 is to be used in an aesthetic institute or beauty salon, the operator must have the client read entire list of contraindications and complete and sign the questionnaire, to be kept of file. If the device for home use, the rental or sales agent must have the user read the entire of contraindications and complete and sign the questionnaire, to be kept in the Agent is files.

If the user/client has NONE of the contraindications for use, AND the answer to all the questions in the Screening Questionnaire is NO, then the user should sign the following declaration.

User/Client Declaration

I hereby affirm that I have answer the above questions truthfully to the best of my knowledge and have verified that I have none of the contraindications to using the IHAP118 if there is a change in my condition, I will immediatly inform the operator of the IHAP118 device. I hereby affirm that I am treated at my own risk.

Name: _____

Signature: _____

Date: _____