

# NIAGARA



User Guide

Hand Unit

Niagara

Type HU75

The Niagara Hand Unit type HU75 is used for Cyclo-Therapy (cyclodial vibration therapy). The Hand Unit has been designed for people with lower leg circulation problems due to chronic illness or disability such as diabetes, vascular conditions and high blood pressure.

Clinical studies have shown that Cyclo-Therapy increases circulation, reduce pain and assist muscle relaxation.

As a result the CSTP pad can:

- Improve blood circulation,
- Improve local and general blood flow for a better feeding of the muscles of the body and all organs to eliminate waste materials,
- Assist muscle relaxation,
- Stimulate muscles,
- Improve the mobility and flexibility by increasing the production of synovial liquid in the joints,
- Soothe most rheumatic pains,
- Improve lymphatic drainage to eliminate the tissue fluid,
- Regenerate the tissue, blood and lymph drains for a better convalescence,
- Secrete mucus in the lungs,
- Decrease blood pressure by hypertension,
- Produce the ability to rest and relax easily and naturally,
- Ease simple nervous tension.

We should emphasise that Cyclo-Therapy is not a cure for the cause of these conditions but it can do much to help alleviate the symptoms associated with them. It is designed to complement the range of current therapies available. Its use can always be discussed with a health care professional if you feel necessary. You should not discontinue any current therapies without seeking professional advice.

The Cyclo Therapy should not used in the following circumstances if you have any of the following conditions:

- Active Deep Vein Thrombosis,
- Pulmonary Embolism,
- Pregnancy,
- Active Cancer,
- Acute Thrombophlebitis,
- Osteomyelitis,
- Uncontrolled Epilepsy,
- Aneurism,
- Severe active wound infection and not receiving antibiotic therapy,
- Skin in an inflamed state (red and hot),
- Severe tissue necrose
- Pacemaker,
- Unstable bone structures,
- Over an area of a recent joint replacement.

## **WHAT IS CYCLO-THERAPY OR CYCLOÏDAL VIBRATION THERAPY (CVT)**

Cyclo-Therapy is a Cycloidal Vibration Massage therapy. The unique eccentric motor produces an elliptical movement rather like a gyroscope. This ultimately creates cycloidal vibration with a multi-directional, three way wave, moving North/South, East/West and in a circular direction all at the same time. Cycloidal Vibration is a mechanical form of oscillation vibration producing a three dimensional movement of varying magnitude longitudinal, vertical and transverse to the vibrating surface (fig.1 and 2).

It has a frequency range of between 5 Hz and 105 Hz and an amplitude range of between 0,02 mm and 1,40 mm.

This results in a gentle but deep - penetrating massage with a multitude of therapeutic benefits with no known harmful effects.

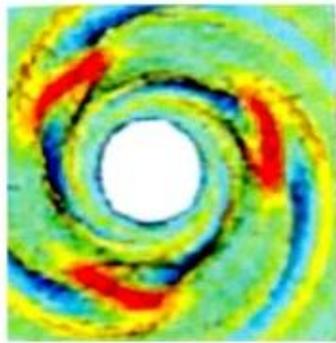


Fig. 1: Three dimensional circular movement.

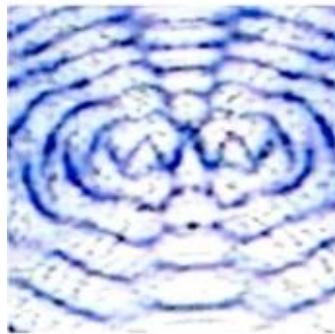


Fig. 2: Three dimensional circular wave.

## **OPERATING INSTRUCTIONS FOR THE HAND UNIT**

The Hand Unit has a control knob (fig.3) with four positions and an electrical cable of +/- 3,5 m. is double insulated.



Fig. 3: Control knob.

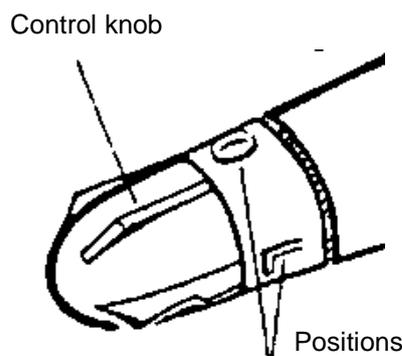


Fig. 4: Positions on the control knob.

Before the Hand Unit will operate, it must be plugged into the mains. The Hand Unit has one simple control, located at the tail end. To switch on the Hand Unit, turn the control knob clockwise. To increase the speed, turn the knob further round.

Four positions on the side of the tail end are:

- 0= off;
- L= low;
- M= medium;
- H= high.

To stop the Hand Unit turn the control knob fully anticlockwise until a click from the built in switch is felt and pointer in opposite "O" for off.

There is a rubber cup attachment included with the Hand Unit. It will be attached to the neck of the unit.

The rubber cup is for application to bony areas and for fascial massage.

## **USING THE HAND UNIT**

For maximum benefit, you should ideally apply a day for 15 to 20 minutes or longer. Adjust to the level that suits you and you find most beneficial and comfortable.

### **How to use the Hand Unit?**

The following series of photographs shows how the Hand Unit can be used in a variety of positions for therapeutic effects and relief from a range conditions.

#### **Increasing leg circulation:**



**Fig. 5: Upperleg.**



**Fig. 6: Knees.**



**Fig. 7: Upperleg.**

**Feet and arms:**



**Fig. 8: Feet.**



**Fig. 9: Arms.**

**Abdomen:**



**Fig. 10: Abdomen.**

**Chest and shoulders:**



**Fig. 11: Chest.**



**Fig. 12: Shoulder.**

**For better results also try the Cyclo-Therapy Hand Unit with a CSTP pad:**



**Fig. 13: Upper leg and shoulder.**



**Fig. 14: Feet and abdomen.**

## **SAFETY INSTRUCTIONS**

The following safety instructions must be considered:

- Keep beyond the reach of children.
- Do not use in the bath or in a humidity environment.
- Do not use solvent based cleaners, dry cleaning products, bleach, abrasive compounds and phenol based cleaning solutions as these will damage the surface coating.
- The ventilation holes in the motor housing should not be covered.
- Take care to prevent string, pins etc. from entering the vents.
- Do not pick up the pad by the power cord or by the handset.

## **GUARANTEE**

We undertake that if, within 2 years from the date of delivery, this pad or any part thereof is proved to be defective by reason only of faulty workmanship or materials, NIAGARA IMPORT at our own discretion, repair or replace the same free of charge for labour, materials or carriage on conditions that:

- The unit has been correctly installed and used for normal purposes only, and in accordance with our operating instructions.
- The appliance has not been serviced, maintained, repaired, taken apart or tampered with by any person not authorised by NIAGARA IMPORT.
- The unit is still in the possession of its original purchaser or is accompanied with the original purchase invoice.

After the 2 years guarantee, a defective unit can be repaired, where this is possible, by NIAGARA IMPORT. The unit can be sent to the address below. Before reparation, a proposition will be made. The proposition is free when the reparation may be accomplished.

A guarantee of 6 months will be provided.

There will be no guarantee when reparation is executed by others not authorised by NIAGARA IMPORT.

## **TROUBLESHOOTING**

When the unit is defect, remove the power cord from the mains supply.

Contact NIAGARA IMPORT (see below).

Overview of spare parts with reference, see below 'Spare parts'.

## **CLEANING PROCEDURE**

It is not necessary to clean the CSTP pad on a regular basis but should the pad require cleaning, the following steps can be taken:

- Before cleaning, make sure the pad has been disconnected from the main power.
- Wipe all exposed surface with a cloth which has been moistened in simple detergent and water.
- The ventilation holes in the motor should be kept clean, this can be carried out by using a vacuum cleaner, placing the cleaner hose over the ventilation holes.

The product has been designed to require little maintenance if kept clean and used sensibly in accordance with these instructions.

## **TECHNICAL INFORMATION**

Voltage: 230 Volt  
Frequency: 50 Hertz  
Power motor: 45 W  
Range frequency speed: 20 to 100 Hertz  
Double insulated.  
Dimensions: Length: 265 mm  
Diameter: 70mm  
Weight: 1,250 Kg

## **CUSTOMER SERVICE**

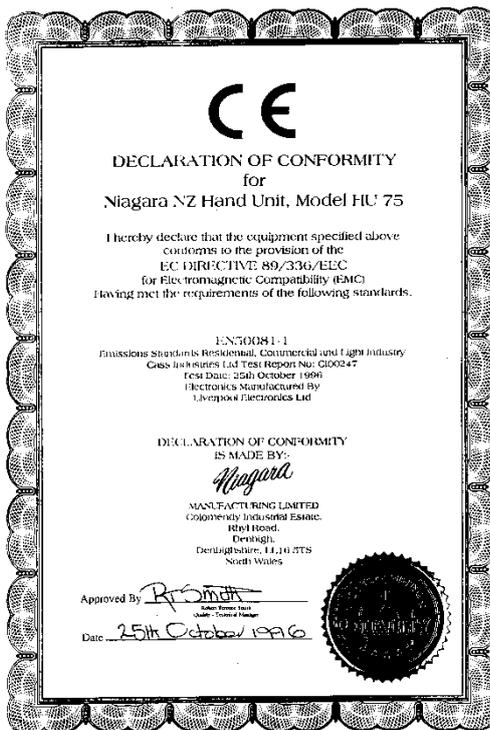
NIAGARA IMPORT  
HAUWIJKSTRAAT 36  
1790 AFFLIGEM  
BELGIUM  
Tel Frank Vanelslande: + 32 (0)473 47 18 19

[www.niagara-import.be](http://www.niagara-import.be)

**SPARE PARTS**

1701: motor unit (empty box)	322: rubber cup
1707: motor DC	501: rubber cable run
135: frequency controller	

**SAFETY CONFORMITY**



*Niagara*

**NIAGARA MANUFACTURING LTD.**  
COLOMENDY INDUSTRIAL ESTATE, RHYD ROAD, DENBIGH - CLWYD, NORTH WALES LL16 5TS  
TELEPHONE: (0745) 815688 TELEFAX: 8170558 NIAGMFG FAX NO: (0745) 816195

**DECLARATION OF CONFORMITY TO**  
**I.E.C 601.1**

Name Of Manufacturing Company: **NIAGARA MANUFACTURING LTD.**  
Address Of Manufacturing Company: **COLOMENDY INDUSTRIAL ESTATE  
RHYD ROAD,  
DENBIGH,  
CLWYD,  
NORTH WALES  
LL16 5TS**

Description Of Apparatus: **HAND UNITS**  
Type: **HUTS GENERAL**  
Serial No: **H1996 TO 2019**  
Construction Year: **1996**

*The Subscriber Declares That The Apparatus Described Above Is  
Built And Made To Conform To I.E.C 601.1*

Signed At: **Denbigh** Signed: *R T Smith*  
(Place)  
Name - first and given: **Robert T Smith**  
Date: **19th November 1996** Position: **Quality Manager**

Registered office as above. Registered in England No: 1562211 VAT No: 491 476 382