Models:
1480  
(Serial Numbers- 1000 and above)
1481  
(Serial Numbers- 1000 and above)
# TABLE OF CONTENTS

**Fluido DHT™ Dry Heat Therapy Unit**

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>1</td>
</tr>
<tr>
<td>Precautionary Symbol Definitions</td>
<td>2</td>
</tr>
<tr>
<td>Safety Precautions</td>
<td>3-4</td>
</tr>
<tr>
<td>Theory of Operation</td>
<td>5</td>
</tr>
<tr>
<td>Nomenclature</td>
<td>6-7</td>
</tr>
<tr>
<td>Specifications</td>
<td>8</td>
</tr>
<tr>
<td>Maintenance</td>
<td>9-12</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>13-16</td>
</tr>
<tr>
<td>Fluido Software Error Messages</td>
<td>13</td>
</tr>
<tr>
<td>Motor/Blower Error</td>
<td>13</td>
</tr>
<tr>
<td>Temperature Sensor Error</td>
<td>13</td>
</tr>
<tr>
<td>Control Panel Lock-Up</td>
<td>13</td>
</tr>
<tr>
<td>Fluido System Testing</td>
<td>14</td>
</tr>
<tr>
<td>Visual Inspection</td>
<td>15</td>
</tr>
<tr>
<td>Ground Resistance Test</td>
<td>15</td>
</tr>
<tr>
<td>Leakage Tests</td>
<td>15</td>
</tr>
<tr>
<td>Resetting Fluido Factory Defaults</td>
<td>15</td>
</tr>
<tr>
<td>Preheat Test</td>
<td>15</td>
</tr>
<tr>
<td>Verifying Temperature Calibration</td>
<td>16</td>
</tr>
<tr>
<td>Pulse Mode Test</td>
<td>16</td>
</tr>
<tr>
<td>Treatment Time Test</td>
<td>16</td>
</tr>
<tr>
<td>Air Speed Test</td>
<td>16</td>
</tr>
<tr>
<td>Removal &amp; Replacement</td>
<td>17-23</td>
</tr>
<tr>
<td>Sleeves and Cellex</td>
<td>17</td>
</tr>
<tr>
<td>Control Panel PC Board</td>
<td>17-18</td>
</tr>
<tr>
<td>Fluido Heater</td>
<td>19-20</td>
</tr>
<tr>
<td>Fluido Diffuser</td>
<td>20-21</td>
</tr>
<tr>
<td>Fluido Motor</td>
<td>21-22</td>
</tr>
<tr>
<td>Muffler and Muffler Cover</td>
<td>22</td>
</tr>
<tr>
<td>Casters</td>
<td>23</td>
</tr>
<tr>
<td>Replacement Parts</td>
<td>24-25</td>
</tr>
<tr>
<td>Diagrams</td>
<td>26-48</td>
</tr>
<tr>
<td>Base Assembly - 120v and 230v</td>
<td>26</td>
</tr>
<tr>
<td>Control Panel Assembly - 120v and 230v</td>
<td>27</td>
</tr>
<tr>
<td>Lid Assembly - 120v and 230v</td>
<td>28</td>
</tr>
<tr>
<td>Switch Plate Assembly - 120v</td>
<td>29</td>
</tr>
<tr>
<td>Switch Plate Assembly - 230v</td>
<td>30</td>
</tr>
<tr>
<td>Wiring Diagram - 120v</td>
<td>31</td>
</tr>
<tr>
<td>Wiring Diagram - 230v</td>
<td>32</td>
</tr>
<tr>
<td>Heater Enclosure Assembly - 120v</td>
<td>33</td>
</tr>
<tr>
<td>Heater Enclosure Assembly - 230v</td>
<td>34</td>
</tr>
<tr>
<td>Motor &amp; Support Assembly - 120v</td>
<td>35</td>
</tr>
<tr>
<td>Motor &amp; Support Assembly - 230v</td>
<td>36</td>
</tr>
<tr>
<td>Motor Housing Assembly (1) - 120v</td>
<td>37</td>
</tr>
<tr>
<td>Motor Housing Assembly (1) - 230v</td>
<td>38</td>
</tr>
<tr>
<td>Motor Housing Assembly (2) - 120v</td>
<td>39</td>
</tr>
<tr>
<td>Motor Housing Assembly (2) - 230v</td>
<td>40</td>
</tr>
<tr>
<td>Motor Housing Assembly (3) - 120v</td>
<td>41</td>
</tr>
<tr>
<td>Motor Housing Assembly (3) - 230v</td>
<td>42</td>
</tr>
<tr>
<td>Final Assembly (1) - 120v</td>
<td>43</td>
</tr>
<tr>
<td>Final Assembly (1) - 230v</td>
<td>44</td>
</tr>
<tr>
<td>Final Assembly (2) - 120v</td>
<td>45</td>
</tr>
<tr>
<td>Final Assembly (2) - 230v</td>
<td>46</td>
</tr>
<tr>
<td>Final Assembly (3) - 120v</td>
<td>47</td>
</tr>
<tr>
<td>Final Assembly (3) - 230v</td>
<td>48</td>
</tr>
<tr>
<td>Warranty</td>
<td>49</td>
</tr>
<tr>
<td>Warranty Repair/Out of Warranty Repair</td>
<td>49</td>
</tr>
</tbody>
</table>

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Read, understand and follow the Safety Precautions and information contained in this manual.

This manual contains the necessary safety, and field service information for those Field Service Technicians, approved by Chattanooga Group, to perform field service on the Fluido DHT Models 1480 and 1481 units.

At the time of publication, the information contained herein was current and up to date. However, due to continual technological improvements and increased clinical knowledge in the field of fluidotherapy, as well as Chattanooga Group’s policy of continual improvement, Chattanooga Group reserves the right to make periodic changes and improvements to their equipment and documentation without any obligation on the part of Chattanooga Group.

It is the sole responsibility for field technicians to stay informed and trained in the latest technology utilized in the Fluido DHT Models 1480 and 1481 units by Chattanooga Group. From time to time, as significant improvements are incorporated, Service Bulletins will be produced and made available on our web site (www.chattgroup.com) in lieu of reprinting a complete manual prematurely. These Service Bulletins will provide updated service information and technological improvements to the Fluido DHT Models 1480 and 1481 for use by approved service technicians.

Due to the complex nature of the technology utilized by Chattanooga Group, the recommended troubleshooting techniques for PC Boards are to determine “Bad Board” and PC Board replacements only. No board component level troubleshooting is recommended nor will information or parts be supplied by Chattanooga Group. Any PC Board component level troubleshooting performed will be at sole risk and liability of the Service Technician performing such troubleshooting techniques.

This equipment is to be sold and used only under the prescription and supervision of a licensed medical practitioner.

This equipment is to be serviced only by an “Approved Service Technician”.

For Additional Service Contact:
Chattanooga Group
DHT Support Department
Toll Free: 1-866-864-0598
Outside USA: +1-423-870-7200
The following symbols are located on the Chattanooga Group Fluido DHT Dry Heat Therapy Unit Control Panel. Understand the meaning of each symbol before attempting any operation or use of the unit.

This symbol indicates therapy session Time adjustment.

This symbol indicates therapy session Temperature adjustment.

This symbol indicates therapy session Air Speed adjustment.

This symbol indicates Upward adjustment in function parameters.

This symbol indicates Downward adjustment in function parameters.

This symbol with the illuminated Blue indicator light indicates the Intake Filter requires changing.

This symbol with the illuminated Blue indicator light indicates the Cellex® media requires changing.

This symbol indicates Start therapy session.

This symbol indicates Stop therapy session.

This symbol indicates Pulse Mode for pulse therapy sessions.

This symbol indicates Preheat Standby function.
SAFETY PRECAUTIONS

Precautionary Symbol Definitions
The precautionary instructions found throughout this manual are indicated by specific symbols. Understand these symbols and their definitions before operating or servicing this equipment. The definitions of these symbols are as follows:

CAUTION
Text with a “CAUTION” indicator will explain possible safety infractions that could have the potential to cause minor to moderate injury or damage to equipment.

WARNING
Text with a “WARNING” indicator will explain possible safety infractions that will potentially cause serious injury and equipment damage.

DANGER
Text with a “DANGER” indicator will explain possible safety infractions that are imminently hazardous situations that would result in death or serious injury.

NOTE:
Throughout this manual “NOTE” may be found. The Notes are helpful information to aid in the particular area or function being described.

Safety Precautions
Read, understand and follow all safety precautions found in this manual. The following are general safety precautions that must be read and understood before attempting any service techniques on these units. Throughout this manual, specific safety precautions will be found. Read, understand and follow all safety precautions.

CAUTION
Read, understand and practice the precautionary and operating instructions found in this manual. Know the limitations and hazards associated with using any electrical device. Observe the precautionary and operational decals placed on the unit.

DO NOT operate the unit when connected to any unit other than Chattanooga Group devices.

Refill unit daily to proper fill level with Chattanooga Group Cellex® Dry Heat Medium.

Change Cellex Dry Heat Medium every six (6) months.

Use only Cellex Dry Heat Medium in the Fluidotherapy units.

Clean Inlet Filter(s) daily before unit startup.

Use only fingers to operate button controls on the control panel(s). Use of sharp objects such as pencils or pens will result in damage to the unit.

Turn unit to the “Standby” mode before positioning a patient or removing a patient from the unit.

After or between treatments, do not immediately unplug or turn the power off from the unit. Allow the unit to process through the “Cool Down” cycle. The unit cycles into standby mode after treatment time has elapsed. Standby can be disabled by pressing the preheat/standby button. The unit goes to a 3 minute cool down mode after standby is turned off. Turning the power off before cool down completes is potentially hazardous to the equipment, and could lead to failure of the unit. It is recommended that power be supplied to the unit at all times. Keep in mind that the recommended treatment air speed is 50%

Secure all entry ports before turning the unit ON.

Check unit temperature before treating patient to ensure correct temperature.

Place the patient in a comfortable position allowing for correct placement of the limb being treated.

Proper storage and transport temperatures for the Fluido DHT units are 40°F - 158°F (4.5 °C - 70°C). Relative Humidity 85%.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. Harmful interference to other devices can be determined by turning this equipment on and off. Try to correct the interference using one or more of the following: Reorient or relocate the receiving device, increase the separation between the equipment, connect the equipment to an outlet on a different circuit from that to which the other device(s) are connected and/or consult the factory field service technician for help.
### WARNING

- Federal law restricts this device to sale by, or on the order of, a physician or licensed practitioner. This device should be used only under the continued supervision of a physician or licensed practitioner.
- For continued protection against fire hazard, replace fuses only with ones of the correct type and rating.
- Make certain the unit is electrically grounded by connecting only to a grounded electrical service receptacle conforming to the applicable national and local electrical codes.
- This device should be kept away from children.
- Care must be taken when operating this equipment around other equipment. Potential electromagnetic or other interference could occur to this or to the other equipment. Try to minimize this interference by not using other equipment in conjunction with it.
- Before administering any treatment to a patient you should become acquainted with the operating procedures for each mode of treatment available, as well as the indications, contraindications, warnings and precautions. Consult other resources for additional information regarding the application of Dry Heat Therapy.
- To prevent electrical shock, disconnect the unit from the power source before attempting any maintenance procedures.
- Use only Cellex® processed dry heat medium in the unit to prevent excessive dusting.
- Adequate precautions should be taken when treating individuals with suspected or diagnosed medical conditions or diseases such as heart problems, epilepsy, diabetes, etc.
- Prior to treatment, consult a medical professional familiar with the precautionary measures to be taken for patients that may experience allergic reactions to dust and pollen.
- Properly dispose of used Cellex according to National and local laws, rules and regulations.

### DANGER

- Perform all Required Maintenance as described in this and the User Manual. Strict adherence to the Required Maintenance for the Fluido DHT units is mandatory. Failure to perform the Required Maintenance could result in the Cellex medium entering the heat chamber of the unit(s) and cause severe injury to patients as well as smoke damage to the facility and the Fluido DHT unit(s).
- Make certain the unit is unplugged from the power source before attempting any removal and replacement procedures on the unit.
THEORY OF OPERATION

The Fluido DHT utilizes ambient air and pressurizes it via an internal blower. The pressurized air is directed across a heating element bringing the media to the desired treatment temperature. The heated, pressurized air is then diffused across and through a baffle to fluidize and heat the Cellex media in a patient treatment reservoir. All treatment parameters; air speed, temperature, treatment time and the unit preheat settings are programmed by the operator with the touch panel user interface. The Fluido DHT unit base incorporates four locking casters and a manually operated hydraulic lift to adjust height and rotation of the treatment reservoir for patient comfort.
Fluido DHT

The nomenclature graphics below, Figure 3.1, indicate the general locations of the major components of the Fluido DHT unit.

Know the components and their functions before performing any operation of or service to the Fluido DHT Model 1480 and 1481 unit.

1. **Reservoir Lid** - Allows access to the treatment cavity for adding Cellex® medium.
2. **Latches** - Secures Reservoir Lid.
3. **Side Access Ports** - Four available Side Access Ports: two on each end of the unit.
4. **Reservoir/Treatment Cavity** - Patient treatment cavity and Cellex Reservoir.
5. **Treatment Limb Sleeves** - Replaceable and launderable patient limb treatment sleeves.
7. **Locking Casters** - Four Locking Casters for securing the unit in place for treatment.
8. **Elevation Adjustment Cylinder** - Adjusts and maintains reservoir to desired height for patient comfort.
9. **Unit Base** - Rigid unit base for ease in transporting unit to different locations for treatment.
10. **Height Adjustment Pedal** - Used to raise, rotate, release, and lock the cylinder for height adjustment of the unit.
13. **Control Panel** - Operator Controls. See Page 7 for detail description of each control.
15. **Top Access Port** - Top Treatment access port with sleeve.
Fluido Control Panel
The Control Panel nomenclature graphics below, Figure 3.2, indicate the location and functions of the Fluido DHT Model 1480 and 1481 control panel.

Know the components and their functions before performing any operation of or service to the Fluido DHT Model 1480 and 1481 unit.

1. **Panel Display** - Displays settings and operational parameters.
2. **Temperature** - Use in conjunction with the Up and Down arrows to set operation temperature. Temperature can be adjusted in 1° increments. The available temperature range is 88° F to 125° F (31° C to 52° C).
3. **Air Speed** - Use in conjunction with the Up and Down arrows to adjust air speed for fluidization of the Cellex® Medium. Available speeds range from 5% to 100%.
4. **Pulse Mode** - Turn Pulse Mode on and off as well as adjust pulse time. Available Pulse Time is from 1 second on/1 Second off to 6 Seconds on/6 Seconds off.
5. **Up and Down Arrows** - Use in conjunction with other mode or function buttons to set desired parameters.
6. **Preheat Standby** - Turn the Preheat Standby Mode on and Off as well as set the parameters desired for the Preheat Standby Mode to automatically start.
7. **Treatment Stop** - Press to stop treatment.
9. **Clear Button** - Used to turn off maintenance indicators after maintenance has been properly performed.
10. **Media** - Indicator will light when it is time to change the Cellex® Medium.
11. **Filter** - Indicator will light when it is time to change the required filters.
12. **Time** - Use in conjunction with the Up and Down arrow buttons to set treatment time. Available time is 1 to 99 minutes in one minute increments, or Continuous.
Model 1480

Mode of Operation .................................. Continuous

Operational Functions
Variable Adjustments ........ Time, Temp and Air Speed
Pulse Mode ......................... Off to 6 Sec On/Off
Available Languages ........... English, Spanish, and French

Treatment Time .................. 1 to 99 minutes and Continuous

*Operating Temperature .......... 88 °F (31 °C) to 125 °F (52 °C)
Air Speed ......................... 5% to 100% (5% increments)
Preheat Timer ....................... Per default setting with 50% Air Flow during 30 min.
.................... preheat then 5% airflow for standby.

Cellex® Medium Capacity ........ 20-25 lbs (9-11 kg)

Input Power ......................... 120V, 50/60 Hz, 12A
Fuse Rating ....................... 10 A Time Delay (Slo-Blow)

Physical Dimensions
Unit Depth ........................................... 31" (79 cm)
Unit Width ......................................... 29.5" (75 cm)
Overall Height .................... 41" - 49" (104 cm - 124 cm)
Patient Height ................... 31" - 39" (79 cm - 99 cm)
Reservoir Swivel ..................... 360°

Weight ................................. 145 lbs (66 kg)
Shipping Weight (Including Stool) .... 210 lbs (95 kg)

Electrical ..................... Class I

Type B Equipment

Attention, consult accompanying documentation.
Ordinary equipment: Not designed to prevent ingress of water.
*Dependent upon airspeed selected and ambient temperature.

Model 1481

Mode of Operation .................................. Continuous

Operational Functions
Variable Adjustments ........ Time, Temp and Air Speed
Pulse Mode ......................... Off to 6 Sec On/Off
Available Languages ........... English, German, Spanish, French,
........................................... Italian, Portuguese, Dutch, Danish, and Swedish

Treatment Time .................. 1 to 99 minutes and Continuous

*Operating Temperature .......... 31 °C (88 °F) to 52 °C (125 °F)
Air Speed ......................... 5% to 100% (5% increments)
Preheat Timer ....................... Per default setting with 50% Air Flow during 30 min.
.................... preheat then 5% airflow for standby.

Cellex® Medium Capacity ........ 9-11 kg (20-25 lbs)

Input Power ......................... 220V, 50/60 Hz, 12A
Fuse Rating ....................... 10 A Time Delay (Slo-Blow)

Physical Dimensions
Unit Depth ........................................... 79 cm (31”)
Unit Width ......................................... 75 cm (29.5”)
Overall Height .................... 104 cm - 124 cm (41" - 49")
Patient Height ................... 79 cm - 99 cm (31" - 39”)
Reservoir Swivel ..................... 360°

Weight ................................. 66 kg (145 lbs)
Shipping Weight (Including Stool) .... 95 kg (210 lbs)

Electrical ..................... Class I

Type B Equipment

Attention, consult accompanying documentation.
Ordinary equipment: Not designed to prevent ingress of water.
*Dependent upon airspeed selected and ambient temperature.
**MAINTENANCE**

**DAILY MAINTENANCE**

- **WARNING**
  - Before any Maintenance is performed or attempted, unplug the unit from the power source to prevent the possibility of electrical shock.

**CLEAN INLET FILTERS**

At the end of each work day, unplug the unit and clean the Inlet Filters on the unit by brushing them off.

If your filter screens become stained with dust residue and will no longer brush clean, carefully remove the filter retainer and wash the filter and screen with a mild antibacterial soap and water. Thoroughly dry the filter and screen before placing back on the unit.

Should the filter become damaged, torn, or punctured, call your dealer for replacement of the filter before resuming operation.

**REFILL WITH CELLEX® MEDIUM**

Refill the unit with Cellex Dry Heat Medium to the fill level indicator in the reservoir.

**NOTE:**
Use of other than Cellex Medium may cause premature failure of the Fluido DHT.

**INSPECT SLEEVE CONDITION**

Inspect the port sleeves for tears, rips, and weak seams. Replace all sleeves that show signs of tears, rips, weak or loose seams, or excessive wear. Keeping the sleeves in excellent condition prevents excessive spillage of the Cellex medium.

**MONTHLY MAINTENANCE**

Each month, all sleeves of the Fluido DHT unit should be laundered in a mild antibacterial detergent. Allow the sleeves to air dry or dry on a low temperature setting. Drying the sleeves in high temperatures could cause the sleeves to shrink or become distorted resulting in the sleeve(s) not properly fitting when placing them back onto the unit.

**REMOVING TOP SLEEVES**

Unplug the unit from the power source. Remove Treatment Reservoir Top turn upside down and remove the retaining ring from the top sleeve with a 1/8” Allen Wrench. Remove sleeve and launder.

Replace in reverse order making certain the retaining ring has the sleeve captured completely to prevent escape of the Cellex® around the sleeve.

**REMOVING END SLEEVE**

Remove Treatment Reservoir Top. Drain the Cellex from the Reservoir. See page 10.

Vacuum the reservoir making certain to clean all Cellex from the screw heads.

Remove seven screws retaining the top piece of perforated metal.

Remove perforated metal from reservoir.

Pull the Reservoir Insert free from the reservoir upper lip and hold away from sleeve.
BI-ANNUAL MAINTENANCE

In order to maintain the Chattanooga Group Fluido DHT in optimum operating condition, the Cellex® Media should be changed bi-annually or when the Media indicator on the control panel is illuminated.

CHANGING CELLEX MEDIA

Set the Air Speed to 5% or 10%.
Remove the Reservoir Drain Plug located on the back of the unit using a coin or flat blade screwdriver.

Place an empty container in position to catch the media and press the Treatment Start button on the control panel. The media should freely flow out of the unit into the catch container.
After the media has stopped flowing out of the unit, press Treatment Stop and disconnect the unit from the power outlet. Vacuum out any remaining Cellex and clean the inside of the Reservoir using a cloth dampened with a mild antibacterial soap and water. Allow the reservoir to completely dry before filling with new Cellex.

Fill the reservoir with new Cellex to the Fill Line. The reservoir should require approximately 30 lbs (13.5 kg) of Cellex Media.
Run the unit for one hour at 50% Air Speed after filling with new Cellex and before any patient treatment to ensure proper operation of the unit.

**WARNING**

- Do not allow soap and water to penetrate the distributor when cleaning the unit. Components below the distributor can be damaged and the unit may not operate properly should they become wet. If moisture is suspected to have penetrated the distributor, call a certified service technician for service before the unit is filled with Cellex and operated.
- Use only Cellex® processed dry heat medium in the unit to prevent excessive dusting.
- Properly dispose of used Cellex according to national and local laws, rules, and regulations.

CELLEX FILL LEVEL INDICATOR

Pull the sleeve off of the mounting boss on the inside of the unit.
Launder and replace in reverse order.
Reseat the Reservoir Insert into the upper lip of the reservoir.
Refill the reservoir with Cellex Medium to the proper level. See image on the right.

CELLEX FILL LEVEL INDICATOR

Reseal the Reservoir Insert into the upper lip of the reservoir.
Refill the reservoir with Cellex Medium to the proper level. See image on the right.

CELLEX FILL LEVEL INDICATOR
VERIFYING TEMPERATURE CALIBRATION

After each change of Cellex media, perform a temperature check to ensure that calibration of unit has not changed.

The temperature displayed on the display is an average of the temperature throughout the media chamber. Because the media is fluidized by the movement of forced air, there are zones throughout the chamber. The temperatures measured in each zone may vary by ± 8° F or ± -13°C.

Once the Cellex has been changed and operated at 50% for 1 hour, turn off the unit and immediately remove the lid to the unit. With a calibrated thermometer, take a temperature reading in the following zones – approximately half way down from the top of the media.

Calculate the average temperature by adding all five readings together and dividing by 5. The resultant number should reflect the set temperature ± 2° F or ± -17°C.

ADDITIONAL FLUIDOTHERAPY MAINTENANCE REQUIREMENTS

The following additional maintenance requirements must be scheduled and performed as described to ensure that the unit is operating efficiently, safely, and functioning optimally. A blank Maintenance Record is provided on page 12 to aid in the scheduling and record keeping of this prescribed maintenance program. The following maintenance procedures must be performed by a Chattanooga Group qualified service technician trained in the maintenance requirements of the Chattanooga Group Fluido DHT units.

QUARTERLY (Every 3 Months)

The following maintenance must be performed on all units quarterly by a certified service technician.

• Internal Cavity Inspection and Cleaning
• Full Functional and Performance Tests

BI-ANNUAL (Every 6 Months)

The following maintenance must be performed on all units every six months in addition to the quarterly maintenance requirements by a certified service technician.

• Change Cellex® Medium

AS NEEDED

The following maintenance must be performed on all units only if performance test results indicate replacement is necessary in addition to the quarterly and bi-annual maintenance requirements by a certified service technician.

• Intake Filter Replacement
• Distributor Replacement
# FLUIDOTHERAPY MAINTENANCE RECORD

<table>
<thead>
<tr>
<th>UNIT SERIAL NUMBER</th>
<th>UNIT MODEL NUMBER</th>
<th>DATE PLACED IN SERVICE</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>

**DEALER:** __________________________  **PHONE:** __________________________  **CONTACT:** __________

<table>
<thead>
<tr>
<th>DATE</th>
<th>MAINTENANCE PERFORMED</th>
<th>TECH INITIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

Completing this form:

**“DATE”** - Date Service is performed  
**“MAINTENANCE PERFORMED”** - Quarterly, Bi-Annual, or Annual  
**“TECH INITIALS”** - Certified Tech’s Initials
## Troubleshooting

### Fluido DHT Model 1480 and 1481 Software Error Messages

<table>
<thead>
<tr>
<th>Error</th>
<th>Possible Cause</th>
<th>Action to be Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Motor/Blower Error</strong></td>
<td>• The intake filter is clogged.</td>
<td>Clean the intake filters. Refer to the Maintenance Section of the User Manual for proper procedure.</td>
</tr>
<tr>
<td>The AIRSPEED shows</td>
<td>• The motor has overheated.</td>
<td>Allow the motor to cool before resuming operation.</td>
</tr>
<tr>
<td>four dashes on the</td>
<td>• The diffuser is clogged.</td>
<td>Refer to the Removing and Replacing of the Diffuser Section on pages 20-21 of this manual for proper procedure.</td>
</tr>
<tr>
<td>Control Panel LCD.</td>
<td>• Cellex Medium has entered the heat cavity.</td>
<td><strong>CAUTION</strong> Make certain that you do not spill any Cellex into the heater enclosure cavity.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use a wet/dry vacuum to remove any exposed, excess Cellex Medium.</td>
</tr>
<tr>
<td><strong>Temperature Sensor Error</strong></td>
<td>• The intake filter is clogged.</td>
<td>Clean the intake filters. Refer to the Maintenance Section of the User Manual for proper procedure.</td>
</tr>
<tr>
<td></td>
<td>• The diffuser is clogged.</td>
<td>Refer to the Removing and Replacing of the Diffuser Section on pages 20-21 of this manual for proper procedure.</td>
</tr>
<tr>
<td></td>
<td>• Cellex Medium has entered the heat cavity.</td>
<td><strong>CAUTION</strong> Make certain that you do not spill any Cellex into the heater enclosure cavity.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use a wet/dry vacuum to remove any exposed, excess Cellex Medium.</td>
</tr>
<tr>
<td></td>
<td>• The temperature sensor is faulty.</td>
<td>Reset the temperature sensor by pressing and holding the “Stop” button for 10-15 seconds. Release the “Stop” button and turn the unit on. It will be necessary to reset the clock (refer to the Installation and Setup Section of the User Manual). If error persists, remove and replace the temperature sensor (P/N 14215). Refer to the Wiring Diagrams on pages 31-32.</td>
</tr>
<tr>
<td><strong>Control Panel Lock-Up</strong></td>
<td>• The parameters are not correct.</td>
<td>Reset the Factory Default Settings. Refer to the Troubleshooting Section on page 15 of this manual for proper procedure.</td>
</tr>
<tr>
<td></td>
<td>• The Control Panel PC Board is faulty.</td>
<td>Replace the Control Panel PC Board. Refer to the Replacing the Control Panel PC Board Section on page 18 for proper procedure.</td>
</tr>
</tbody>
</table>
Fluido DHT System Testing

General

The following information is intended to aid in troubleshooting the major components of the DHT Units to “Board Level” only. These tests are OEM standard testing procedures and methods used at the factory before shipment of any Fluido unit.

Due to the complex nature of the technology utilized by Chattanooga Group, the recommended troubleshooting techniques are to determine “Bad Board” and board replacement only. No board component level troubleshooting is recommended nor will information or parts be supplied by Chattanooga Group. Any board component level troubleshooting performed will be at sole risk and liability of the Service Technician performing such troubleshooting techniques.

Once the PC Board has been determined as bad, replace the board only with Chattanooga Group OEM replacement parts and hardware.

Special Tools, Fixtures & Materials Required

Certain tests require the use of special tools and fixtures. These will be listed at the particular test where they are required. Testing with any other special tool or fixture other than those stated could give erroneous readings or test results. Always perform the tests exactly as stated to ensure accurate results.

Standard test equipment settings will be listed for each test performed to aid in performing the test to OEM standards and ensure proper readings.

The troubleshooting and repair of the Fluido DHT units, should be performed only by authorized technicians trained and certified by Chattanooga Group.

Equipment Required

- Digital Multimeter
- Dielectric Withstand (Hi-Pot) and ground resistance tester
- Milliohm Meter
- Calibrated Thermometer
- Calibrated Stop Watch

NOTE:
Adjust Dielectric Withstand tester to indicate fault with 120k Ohm Load across the output when at specified test voltage.

CAUTION

- The following tool requirements are critical to the component removal and replacement of the Fluido DHT unit.
- All hardware, bolts, nuts and screws used to assemble the Fluido DHT are SAE Standard. Due to the size of these components no metric equivalent is available. Therefore, it will be necessary to obtain the proper size tools for removal and replacement of certain components.

Required SAE Tools

- #1 Phillips Screwdriver
- #2 Phillips Screwdriver
- 5/16, 7/16, 9/16, 1/2, 5/32, and 11/32 Wrenches
- 1/8 and 5/32 Allen Wrenches (or drill bits)
- Utility Knife
- Wet/Dry Vacuum

NOTE:
The tool requirements will be listed at the respective removal and replacement procedures throughout this manual.
Visual Inspection

**General**
Visually inspect the Fluido DHT unit. A visual inspection can, to an experienced Technician, indicate possible abuse of the unit and/or internal problems.

**Ground Resistance Test**

**Voltage Specifications**
- **Model 1480**: Input: 120 VAC–50/60 Hz, 40 Watts
- **Model 1481**: Input: 230 VAC–50/60 Hz, 40 Watts

**Specification**
- Maximum Acceptable Resistance: 500 milliohms

**Equipment Required**
- Milliohm Meter

**Test**
- Place unit on level work surface.

**Leakage Tests**

**Test Voltage Spec**: 1000V

Conduct all necessary leakage tests as required per “Chapter 7 Electrical Equipment” of the 1999, or later, edition of the NFPA (National Fire Protection Association) “Health Care Facilities” standards.

---

**WARNING**
- Unit failing Dielectric Withstand and/or Leakage Tests could indicate serious internal system problems.
- Do not place unit back into service.
- Send unit to factory for repair.
- Do not attempt to repair in the field.

---

**Resetting Fluido DHT Factory Default Settings**

To reset all factory default settings of the unit, turn unit Off. Depress and hold the “Clear” button on the control panel and turn unit on simultaneously.

**Preheat Test**

**Tools & Equipment Required**
- Calibrated Thermometer

**Preheat Test Procedures**

**Power Requirements:**
- **Model 1480**: 120 VAC
- **Model 1481**: 230 VAC

Plug the unit power cord to a grounded electrical service receptacle conforming to the applicable national and local electrical codes.

Turn unit power switch On.

Start the preheat function by depressing the “PREHEAT STANDBY” button on the control panel. After approximately 30 seconds, the Blue LED should illuminate.
TROUBLESHOOTING

VERIFYING TEMPERATURE CALIBRATION

After each change of Cellex media, perform a temperature check to ensure that calibration of unit has not changed.

The temperature displayed on the display is an average of the temperature throughout the media chamber. Because the media is fluidized by the movement of forced air, there are zones throughout the chamber. The temperatures measured in each zone may vary by ± 8°F or ± 13°C.

Once the Cellex has been changed and operated at 50% for 1 hour, turn off the unit and immediately remove the lid to the unit. With a calibrated thermometer, take a temperature reading in the following zones — approximately half way down from the top of the media.

Calculate the average temperature by adding all five readings together and dividing by 5. The resultant number should reflect the set temperature ± 2°F or ± 17°C.

Pulse Mode Test

Tools & Equipment Required
Calibrated Stop Watch

Pulse Mode Test Procedures
Reset the factory defaults. Refer to the section entitled “Resetting Fluido DHT Factory Default Settings” on page 15.
Press the “PULSE MODE” button, the Blue LED should illuminate. Press the “TREATMENT START” button.
Using the calibrated stop watch, time the pulses of the unit while it is running. Record the readings taken and verify the settings you entered for the pulse.
The unit should pulse at approximately four seconds on, after reaching its maximum blower speed, and four seconds off.

Treatment Time Test

Tools & Equipment Required
Calibrated Stop Watch

Treatment Time Test
With the unit On, press and release the “Time” button. Using the down arrow, adjust the time to “1:00”.
Press “TREATMENT START” and time with the Calibrated Stop Watch. Record the reading.

Treatment Time Spec . . . . . . . . . 1 minute ± 1 second

Air Speed Test

Airspeed Test Procedures
Turn unit On. Press “Treatment Start”. While unit is running, press the “Air Speed” button. Use the Up and Down arrows to adjust the air speed to 100% and back down to 5%. Listen for the increase and decrease in the blower speed. Look for increased and decreased fluidization of the medium in the reservoir.

NOTE:
For proper operation and setting of the unit parameters outside the Factory Defaults, refer to the User Manual for the Fluido DHT.
Sleeves and Cellex®

WARNING

• Unplug the unit from the power source before attempting any removal or replacement procedures to prevent electrical shock.
• Follow electronic repair protocols for grounding to prevent damage to the electronic components from static electricity.

Refer to the Fluido DHT User Manual for the proper removal and replacement of the following items:
  • Unit End Sleeves
  • Unit Top Sleeves
  • Cellex Medium
  • Intake Filters

Control Panel PC Board

Tools & Equipment Required
Small Flat Blade Screwdriver
5/16 Open End Wrench

Removing the Control Panel PC Board
1. Remove the three retaining screws from the Control Panel Bezel.
2. Carefully remove the Bezel from the Control Panel.
3. Remove the four retaining nuts securing the Control Panel to its mounting base (two on each side).
4. Remove the Control Panel from the mounting base.

5. Remove the five wiring harnesses from the PC Board.

**Replacing the Control Panel PC Board**

To replace the control panel PC board, reverse steps 1 through 7 of “Removing the Control Panel PC Board” starting on page 17.

**NOTE:** Keep in mind the following when replacing the Control Panel PC Board:

- Attach the connector with the two brown wires to the heater terminal.
- Attach the connector with one brown wire and one blue wire to the line terminal.
- Attach the connector with one black wire and one white wire to the motor terminal.
- Attach the small, three-wire connector wires to the speed terminal.
- Attach the small, two-wire connector to the temperature terminal.
REMOVAL AND REPLACEMENT

Fluido Heater

Tools Required
- 1/8 and 5/32 Allen Wrenches
- 3/8 Wrench
- Wire Cutters

Removing the Fluido Heater

Before attempting to remove the Fluido Heater, you must complete steps 1 through 3 of “Removing the Muffler and Muffler Cover” on page 22. Next, complete steps 1 through 2 of “Removing the Fluido Motor” on page 17.

1. Remove the gasket from the motor and support assembly.
   NOTE: Once the gasket is removed, always replace with a new gasket.

2. Remove the two bolts that secure the motor housing mount bracket with the 1/8 Allen Wrench. Remove the motor housing mount bracket from unit.

3. Remove the two pieces of insulation.
   NOTE: Make sure that the insulation is placed back into the unit correctly or the insulation may burn.

4. Slowly remove the heater enclosure assembly.

5. Using a 3/8 wrench, remove the three (two blue and one brown) harnesses from the heater enclosure assembly.

6. Using wire cutters, cut the wire between the brown and black wire from the heater enclosure assembly.
REMOVAL AND REPLACEMENT

Replacing the Fluido Heater
To replace the Fluido heater, reverse steps 1 through 6 of “Removing the Fluido Heater” on page 19 (i.e., instead of cutting wires, simply solder or reattach them). Ensure all connections are insulated.

NOTE: Make sure that the insulation is placed back into the unit correctly or the insulation may burn.

Fluido Diffuser

Tools Required
Wet/Dry Vacuum #2 Phillips Screwdriver 1/8 Allen Wrench

Removing the Fluido Diffuser
1. Remove lid completely from unit.
2. Using the wet/dry vacuum, remove the Cellex from the tub.
3. Remove the seven screws from the perforated metal at the bottom of the tub.
4. Using the wet/dry vacuum, remove the newly exposed, excess Cellex.

NOTE: When vacuuming, be careful not to damage the temperature sensor.

5. Remove the rubber tub insert closest to the control panel. Then, remove the other rubber tub insert.
6. Using the wet/dry vacuum, remove the newly exposed, excess Cellex.

CAUTION
Make certain to vacuum the screw heads at the base of the tub. This will ensure that Cellex will not fall in the standoff’s holes, and you will not round out the heads of the screws.

CAUTION
Make sure to remove the excess Cellex from the heads of the hex screws to avoid rounding out the heads of the screws.

7. Remove the ten hex screws from the bottom of the tub.
9. Remove the perforated metal.
10. Remove the diffuser baffle.
11. Remove the diffuser foam.

12. Remove bottom (and final) piece of perforated metal.
13. Using the screwdriver, remove the ground screw.

Fluido Motor

Tools Required
1/8 and 5/32 Allen Wrenches

Removing the Fluido Motor
Before attempting to remove the Fluido motor, you must complete steps 1 through 3 of “Removing the Muffler and Muffler Cover” on page 22.

1. Remove the five screws outside of the motor support plate, being sure to hold the plate while removing the last screw.

CAUTION
Hold the motor support plate before removing the last screw. Otherwise, the motor may fall from the housing.

2. With one hand, hold the motor while using your other hand to disconnect the motor wiring from the harness. See the following 2 figures.

Replacing the Fluido Diffuser
To replace the Fluido diffuser, reverse steps 1 through 13 of “Removing the Fluido Diffuser” on pages 20-21. After replacing the Fluido diffuser, trim excess foam with razor knife while stretching away from the tub.
CAUTION
Be careful not to damage the metal shaft on the end of the motor. See the following figure.

Replacing the Fluido Motor
To replace the Fluido Motor, reverse steps 1 and 2 of “Removing the Fluido Motor” on page 21.

Muffler and Muffler Cover
Tools Required
1/8 Allen Wrench

Removing the Muffler Cover and Muffler
1. Remove the 14 screws that secure the muffler cover.

Replacing the Muffler Cover and Muffler
To replace the muffler and muffler cover, reverse steps 1-3 of “Removing the Muffler Cover” on this page.

NOTE: After re-installing the muffler, remove the air filters to ensure that the muffler is not obstructing the air intakes.
**REMOVAL AND REPLACEMENT**

**Casters**

**Materials and Tools Required**
- 9/16 Wrench
- (4) Caster - 14135
- Base Frame- 14104
- (4) 3/8-16 Black Acorn Nuts - 14146

**Removing the Casters**
1. Make sure casters are locked by pressing the metal flap until the wheel does not move. This will prevent the shaft of the caster from moving while you are attempting to remove it.
2. Remove each of the four 3/8-16 black acorn nuts.
3. Lift the base to remove each of the shafts of the four casters from the unit.

**Replacing the Casters**
1. Make sure caster is locked before attempting to install.
2. Place one caster on each corner of the base, and attach with four 3/8-16 black acorn nuts.
## REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14105</td>
<td>BASE ASSEMBLY FLUIDOTHERAPY</td>
</tr>
<tr>
<td>14111</td>
<td>PATIENT TUB LID FLUIDO DHT</td>
</tr>
<tr>
<td>14113</td>
<td>LID LATCH FLUIDO DHT</td>
</tr>
<tr>
<td>14116</td>
<td>SCREW #2 X 3/8 PAN HD. PHIL.</td>
</tr>
<tr>
<td>14117</td>
<td>DISTRIBUTOR PLATE FLUIDO DHT</td>
</tr>
<tr>
<td>14118</td>
<td>PLEXIGLASS TRIM FLUIDOTHERAPY</td>
</tr>
<tr>
<td>14119</td>
<td>FOAM DISTRIBUTOR PLATE FLUIDOTHERAPY</td>
</tr>
<tr>
<td>14120</td>
<td>TUB DRAIN PLUG FLUIDOTHERAPY</td>
</tr>
<tr>
<td>14122</td>
<td>6-32 X 1/2 OD X 1 LG CERAMIC STD. OFF</td>
</tr>
<tr>
<td>14123</td>
<td>6-32 X 1/2 OD X 1-1/2 LG CERAMIC STD.</td>
</tr>
<tr>
<td>14124</td>
<td>GASKET TUB LID FLUIDOTHERAPY</td>
</tr>
<tr>
<td>14125</td>
<td>MANUAL USER FLUIDOTHERAPY</td>
</tr>
<tr>
<td>14128</td>
<td>MANUAL SERVICE FLUIDOTHERAPY</td>
</tr>
<tr>
<td>14130</td>
<td>SLEEVE ASSEMBLY FLUIDO DHT</td>
</tr>
<tr>
<td>14135</td>
<td>CASTER TENTE 006874 FLUIDO DHT</td>
</tr>
<tr>
<td>14136</td>
<td>FOAM MUFFLER FLUIDO DHT</td>
</tr>
<tr>
<td>14137</td>
<td>MUFFLER COVER FLUIDO DHT</td>
</tr>
<tr>
<td>14139</td>
<td>BOTTOM W/ MOTOR HOUSING FLUIDO DHT</td>
</tr>
<tr>
<td>14146</td>
<td>ACORN NUT FLUIDO DHT</td>
</tr>
<tr>
<td>14148</td>
<td>SCREW 10-32 X 3/4 BUTT. HD. SOC</td>
</tr>
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<td>14150</td>
<td>SCREW 10-32 X 1 BUTT HD SOC</td>
</tr>
<tr>
<td>14151</td>
<td>SWITCH PLATE GASKET FLUIDO DHT</td>
</tr>
<tr>
<td>14154</td>
<td>SCREW 10-32 X 1/2 BUTT HD SOC</td>
</tr>
<tr>
<td>14161</td>
<td>HEX STANDOFF 6-32 X .875 ALUM.</td>
</tr>
<tr>
<td>14162</td>
<td>MULTI STACK ADAPTER</td>
</tr>
<tr>
<td>14166</td>
<td>USER INTERFACE COVER FLUIDO DHT</td>
</tr>
<tr>
<td>14168</td>
<td>PLASTIC COVER FLAT FLUIDO DHT</td>
</tr>
<tr>
<td>14169</td>
<td>SLEEVE RETAINING CLIP FLUIDO DHT</td>
</tr>
<tr>
<td>14170</td>
<td>POWER CORD FLUIDO DHT</td>
</tr>
<tr>
<td>14171</td>
<td>SWITCH PLATE FLUIDO DHT</td>
</tr>
<tr>
<td>14174</td>
<td>GASKET MOTOR MOUNTING PLATE</td>
</tr>
<tr>
<td>14175</td>
<td>ELBOW SLEEVE FLANGE FLUIDO DHT</td>
</tr>
<tr>
<td>14188</td>
<td>SPONGE GASKET 3/4&quot;X1/4&quot; ADHES.</td>
</tr>
<tr>
<td>14189</td>
<td>HARNESS CONTROL POWER SWITCH</td>
</tr>
<tr>
<td>14202</td>
<td>HARNESS CONTROL TO HEATER SUB</td>
</tr>
<tr>
<td>14203</td>
<td>HARNESS HEATER TO INDICATOR</td>
</tr>
<tr>
<td>14204</td>
<td>HARNESS FUSE TO RECEPTACLE</td>
</tr>
<tr>
<td>14206</td>
<td>HARNESS RECEPTACLE TO POWER SWITCH</td>
</tr>
<tr>
<td>14207</td>
<td>HARNESS O.T. TO STAT H.E.</td>
</tr>
<tr>
<td>14208</td>
<td>HARNESS MOTOR SPEED CONTROL</td>
</tr>
<tr>
<td>14209</td>
<td>LINE FILTER BRACKET</td>
</tr>
<tr>
<td>14211</td>
<td>HARNESS CONTROL INTERCONNECT</td>
</tr>
<tr>
<td>14213</td>
<td>HARNESS GROUND 7&quot;</td>
</tr>
<tr>
<td>14214</td>
<td>HARNESS GROUND 24&quot;</td>
</tr>
<tr>
<td>14215</td>
<td>HARNESS TEMP SENSOR</td>
</tr>
<tr>
<td>14219</td>
<td>1/4-20 X 5/8 SANDWICH MOUNT</td>
</tr>
<tr>
<td>14220</td>
<td>10 x 24 INSULATION MOTOR HOUSING</td>
</tr>
<tr>
<td>14221</td>
<td>5&quot; X 4&quot; INSULATION MOTOR HOUSING</td>
</tr>
<tr>
<td>14222</td>
<td>5&quot; X 5&quot; INSULATION MOTOR HOUSING</td>
</tr>
<tr>
<td>14223</td>
<td>9&quot; X 9&quot; INSULATION MOTOR HOUSING</td>
</tr>
<tr>
<td>14225</td>
<td>HARNESS FUSE TO POWER SWITCH 230V</td>
</tr>
<tr>
<td>14226</td>
<td>HARNESS POWER SWITCH TO LINE FILTER</td>
</tr>
<tr>
<td>14227</td>
<td>HARNESS O.T. STAT TO H.E.</td>
</tr>
<tr>
<td>14228</td>
<td>HARNESS LINE FILTER GROUND TO CHASSIS</td>
</tr>
<tr>
<td>14229</td>
<td>ELBOW SLEEVE ASSEMBLY</td>
</tr>
<tr>
<td>14230</td>
<td>INLET FILTER 19155K22</td>
</tr>
<tr>
<td>14231</td>
<td>FILTER NYLON MESH 3-5/8&quot; SQ.</td>
</tr>
<tr>
<td>14232</td>
<td>GLIDE ETS 32 X 50 D80153</td>
</tr>
<tr>
<td>14233</td>
<td>USER INTERFACE BRACKET PAINTED</td>
</tr>
<tr>
<td>14234</td>
<td>MOTOR HOUSING SUPPORT PAINTED</td>
</tr>
<tr>
<td>14235</td>
<td>FOAM INSERT</td>
</tr>
<tr>
<td>14236</td>
<td>MOTOR SUPPORT PLATE PAINTED</td>
</tr>
<tr>
<td>14237</td>
<td>SET SCREW 6-32 X 3/4 91375A151</td>
</tr>
<tr>
<td>14238</td>
<td>SPACER NYLON 1/2 ODX1/4 ID X 5/8 94639A143</td>
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<tr>
<td>14239</td>
<td>SCREW #1 X 3/8&quot; 90253A033</td>
</tr>
<tr>
<td>14240</td>
<td>POP RIVET 1/8 X 5/8 ALUMINUM 97447A135</td>
</tr>
<tr>
<td>14241</td>
<td>CAPTIVE STUD 6/32 X 3/8 93580A016</td>
</tr>
<tr>
<td>14244</td>
<td>RIVNUT 10-32 S10P175</td>
</tr>
<tr>
<td>14245</td>
<td>STRAIN RELIEF PLATE FLUIDO DHT</td>
</tr>
<tr>
<td>14247</td>
<td>230V. MOTOR HOUSING ASSY.</td>
</tr>
<tr>
<td>14251</td>
<td>HYDRAULIC LIFT (CHROME) 4500</td>
</tr>
<tr>
<td>14253</td>
<td>FUSE HOLDER SCHURTER</td>
</tr>
<tr>
<td>14254</td>
<td>INLET AC FAST CONNECT</td>
</tr>
<tr>
<td>14255</td>
<td>10 AMP. 5MM X 20MM (FUSE)220V 3 AG SLOW BLOW</td>
</tr>
<tr>
<td>14259</td>
<td>2-56 X 1/4&quot; PAN HD.PHIL.PLT.</td>
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<td>MOTOR ASSY. 120V</td>
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<tr>
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<tr>
<td>14261</td>
<td>MOTOR ASSY. 230V</td>
</tr>
<tr>
<td>14262</td>
<td>HARNESS RECP. TO SWITCH PLATE</td>
</tr>
<tr>
<td>14263</td>
<td>HARNESS RECP. GROUND TO GROUND</td>
</tr>
<tr>
<td>14268</td>
<td>TOP DIFFUSER FLUIDO DHT</td>
</tr>
<tr>
<td>14269</td>
<td>DIFFUSER AIR BAFFLE FLUIDO DHT/24 GA. CARBON</td>
</tr>
<tr>
<td>14270</td>
<td>DIFFUSER AIR BAFFLE FLUIDO DHT/ADHESIVE BACKED FOIL</td>
</tr>
<tr>
<td>14272</td>
<td>HOUSING BRACE SPACER</td>
</tr>
<tr>
<td>14274</td>
<td>HOUSING BRACE (PAINTED #)</td>
</tr>
<tr>
<td>14275</td>
<td>FOAM INSERT</td>
</tr>
<tr>
<td>14276</td>
<td>POWER SWITCH</td>
</tr>
<tr>
<td>14277</td>
<td>ADAPTER 1/8 NPT 15090-1</td>
</tr>
<tr>
<td>14279</td>
<td>HEATER INDICATOR LIGHT BLUE 230V</td>
</tr>
<tr>
<td>14285</td>
<td>POP RIVET 1/8&quot;</td>
</tr>
<tr>
<td>14286</td>
<td>FICHE PAPER 10 MIL THK.</td>
</tr>
<tr>
<td>14287</td>
<td>FITTING ADAPTER 1/8 TO 10-32 15090-1</td>
</tr>
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<td>14288</td>
<td>HEATER INDICATOR LIGHT BLUE 120V</td>
</tr>
<tr>
<td>14291</td>
<td>THERMAL OVER TEMP SWITCH</td>
</tr>
<tr>
<td>14299</td>
<td>CONTROL PNL. ASSY 120V</td>
</tr>
<tr>
<td>14300</td>
<td>MOTOR ASSY 230V</td>
</tr>
<tr>
<td>14301</td>
<td>MOTOR ASSY 120V</td>
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<tr>
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<td>MOTOR HOUSING WARNING LABEL</td>
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<tr>
<td>14304</td>
<td>1&quot; ALMN. STANDOFF</td>
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<td>31498</td>
<td>900 WATT HEATER FINNED STRIP 120V</td>
</tr>
<tr>
<td>31506</td>
<td>900 WATT HEATER FINNED STRIP 230V</td>
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<td>230V HEATER ASSEMBLY</td>
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<td>14308</td>
<td>120V HEATER ASSEMBLY</td>
</tr>
</tbody>
</table>
Apply small bead of clear silicone around perimeter of base.
Control Panel Assembly- 120V and 230V

Note:
(1) Set selector switch for desired voltage- 115V or 230V
(2) For 115V- use Fuse #71952
   For 230V- use Fuse #20666
Apply small bead of clear silicone around perimeter of window

Slip outer edge of sleeve assembly under flange and secure with screws.

Lid Assembly-
120V and 230V
Apply silicone sealant around components after assembly.
Apply silicone sealant around components after assembly.
Wiring Diagram - 120V

Connect to user interface or mounting screw interface.
Heater Enclosure Assembly - 120V
Motor & Support Assembly - 120V

Apply light grease to outer side of gasket to ease assembly.
Apply light grease to outer side of gasket to ease assembly.
Apply silicone sealant around components after assembly.
Apply silicone sealant around components after assembly.
DIAGRAMS

Motor Housing Assembly-
120V

Fluido DHT™ Dry Heat Therapy Unit
Motor Housing Assembly-120V

- Fit P/N 14221 snug against inside wall and tuck under flange.
- Break tab off ground lug side.
- Apply thin film of clear silicone between P/N 14139 and P/N 14245.
- Fit P/N 14221 snug against inside wall and tuck under flange.
Apply thin film of clear silicone between P/N 14139 and P/N 14245.

Fit P/N 14221 snug against inside wall and tuck under flange.

Break tab off ground lug side.
Final Assembly-120V

Trim all three edges 1” x 60” before assembly.
Trim all three edges 1” x 60” before assembly
Trim foam along outside edge of housing after assembly
Trim foam along outside edge of housing after assembly.
Final Assembly-120V

Install as shown 4 places

Install sleeve retainer clip as shown 4 places
Final Assembly - 230V

Install as shown 4 places

Install sleeve retainer clip as shown 4 places
Chattanooga Group ("Company") warrants that the Fluido DHT units ("Product") are free of defects in material and workmanship. This warranty shall remain in effect for two years (24 months) from the date of original consumer purchase. If this Product fails to function during the two year warranty period due to a defect in material or workmanship, Company or the selling dealer will repair or replace this Product without charge within a period of thirty (30) days from the date on which the Product is returned to the Company or the dealer.

All repairs to the Product must be performed by a service center authorized by the Company. Any modifications or repairs performed by unauthorized centers or groups will void this warranty.

The warranty period for replaceable intake filter(s) is 90 days.

The warranty period for sleeves is one year (12 months).

To participate in warranty coverage, this Product’s warranty registration card (included with Product) must be filled out and returned to the Company by the original owner within ten (10) business days of purchase.

This Warranty Does Not Cover:
- Replacement parts or labor furnished by anyone other than the Company, the selling dealer or a certified Company service technician.
- Defects or damage caused by labor furnished by someone other than Company, the selling dealer or a certified Company service technician.
- Any malfunction or failure in the Product caused by product misuse, including, but not limited to, the failure to provide reasonable and required maintenance or any use that is inconsistent with the Product User’s Manual.

**COMPANY SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

To Obtain Service From Company or the selling dealer under this warranty:

1. A written claim must be made within the warranty period to the Company or the selling dealer. Written claims made to the Company should be sent to:
   - 4717 Adams Road
   - P.O. Box 489
   - Hixson, TN 37343 US
   - Telephone: (423) 870-2281
   - Tel (International): +1 (423) 870-7200
   - Facsimile: (423) 870-7200
   - Fax (International): +1 (423) 870-2046

   and

2. The Product must be returned to the Company or the selling dealer by the owner.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

The Company does not authorize any person or representative to create for it any other obligation or liability in connection with the sale of the Product. Any representation or agreement not contained in the warranty shall be void and of no effect.

**THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

When the Fluido DHT unit requires service, or preventive maintenance, contact the selling dealer or Chattanooga Group Service Department.

All units returned to the factory for service must include the following;

**WARRANTY REPAIR/OFF OF WARRANTY REPAIR**

1. Written statement containing the following information;
   - RGA Number- Obtain from Factory
   - Unit Model Number
   - Unit Serial Number
   - Contact person with Phone and Fax Numbers
   - Billing Address (for Out of Warranty Repair)
   - Shipping Address (Where to Ship Unit after Repair)
   - Detailed Description of Problem or Symptoms

2. Copy of original invoice issued at purchase of the unit.

3. Ship unit to Factory in the original container with all accessories and information as required in item 1 above to:

   Chattanooga Group
   4717 Adams Road
   Hixson, TN 37343
   Phone: USA: 1-800-592-7329
   Canada: 1-800-361-3661
   Outside USA: +1-423-870-7200
   FAX: 1-423-875-5497
   FAX (International): +1-423-870-2046
   Web Address: www.chattgroup.com

Service to these units should be performed only by Service Technicians Certified by Chattanooga Group.