



## TEST REPORT

Report Number: 101513567MIN-001

Project Number: G101513567

Testing performed on the  
IG-840

to

**Electro-Magnetic Radiation Measurement per Manufacturer Requirements  
Electro Field Measurement per Manufacturer Requirements**

For

**Tylo Helo World Group**

Test Performed by:  
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Date: February 4, 2014

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Date: February 4, 2014

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## 1.0 DESCRIPTION OF THE SAMPLE (EUT)

<b>Model:</b>	IG-840
<b>Type of EUT:</b>	Sauna
<b>Serial Number:</b>	SS29N002-0028
<b>Brand Name:</b>	Finnleo / Helo / Tylo
<b>Manufacturer:</b>	Suzhou SFactor Co., Ltd
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<b>Tests Performed:</b>	<input checked="" type="checkbox"/> Electro-Magnetic Radiation Measurement per Manufacturer Requirements <input checked="" type="checkbox"/> Electro Field Measurement per Manufacturer Requirements
<b>Test Work Started:</b>	February 3, 2014
<b>Test Work Completed:</b>	February 3, 2014



## 1.1 Equipment covered by this testing

### US Version

Model	Voltage	Amperage	Room Wattage
IG 810	120	11.8	1410
IG 820	120	13.2	1580
IG 825	120	17.0	2040
IG 830	120	17.0	2040
IG 840	120	18.3	2200
IG 870	120	14.3	1710
IG 880	120	17.3	2070

### European Version

Model	Voltage	Amperage	Room Wattage
IG 810	230	6.1	1410
IG 820	230	6.9	1580
IG 825	230	8.9	2040
IG 830	230	8.9	2040
IG 840	230	9.6	2200
IG 870	230	7.4	1710
IG 880	230	9.0	2070

**Note:** The worst case representative model: IG 840 was tested (see table above for power requirements)



## 2.0 TEST SUMMARY

TEST	RESULT
Electro-Magnetic Radiation Measurement	Pass
Electric Field Measurement Requirements	Pass



### **3.0 Description and Intended Function**

Infrared heat therapy rooms are designed to induce the end user to sweat and promote relaxation. Infrared heat is transmitted from the heating panels in the room and absorbed by the body. As the body absorbs the heat, the core temperature of the body rises. The body's natural cooling mechanism is to sweat and cause evaporation from the skin.

#### **3.1 Intended Location**

The product covered by this report is a household, indoor use, cord connected IR Sauna rooms.

#### **3.2 Technology**

The system is a wood room with infrared heating elements in the walls, benches, bench skirts, and floors. The heating elements are a patented carbon heating system.

#### **3.2 Operating mode of the EUT**

The sauna was tested, while exercised "Max. Time and Max. Temperature" mode with all lighting turned ON. All testing was conducted to measure how much EMR and EF the human body is being exposed during usage.



## 4.0 TEST RESULTS

### 4.1 Electro-Magnetic Radiation Measurement

Test result: **Pass**

Test Area	Measured EMF Level ( $\mu\text{T}$ )	Measured EMF Level (milligauss)	Limit (milligauss)	RESULT
Left side panel	0.08	0.8	2	Pass
Ceiling	0.08	0.8	2	Pass
Floor	0.07	0.7	2	Pass
Wooden bench	0.08	0.8	2	Pass
Back panels	0.07	0.7	2	Pass
Right panels	0.07	0.7	2	Pass
Control panel	0.08	0.8	2	Pass
Under the bench	0.08	0.8	2	Pass

- Notes:**
1. Measured levels are shown in milligauss and represent worst case maximum EMF level.
  2. EMF levels were measured inside the infrared sauna at different locations as indicated in the table above and at the point of body contact (zero distance).
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Test Setup Photos





## 4.2 Electric Field Measurement

Test result: **Pass**

Test Area	Measured EF Level (V/m)	Limit (V/m)	RESULT
Left side panel	2.8	10V/m	Pass
Ceiling	2.2	10V/m	Pass
Floor	0.7	10V/m	Pass
Wooden bench	1.5	10V/m	Pass
Back panels	2.1	10V/m	Pass
Right panels	1.3	10V/m	Pass
Control panel	2.2	10V/m	Pass
Under the bench	1.9	10V/m	Pass

- Notes:**
1. Measured levels are shown in V/m and represent worst case maximum EF level.
  2. EF levels were measured inside the infrared sauna at different locations as indicated in the table above. EF levels were measured at 10cm (3.94 inch) distance from the control panel and the ceiling. All other test points were tested at the point of body contact (zero distance).
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**Test Setup Photos**



## 5.0 TEST EQUIPMENT

DESCRIPTION	MANUFACTURER	MODEL	SERIAL NO.	INTERTEK ID	CAL DUE	USED
Field Monitor	NARDA	ELT-400	J-0039	12740	06/28/2014	<input checked="" type="checkbox"/>
B-Field Sensor	NARDA	BN 2300	J-0049	12769	06/28/2014	<input checked="" type="checkbox"/>
Electric Field Sensor	ETS Lindgren	HI-6005	44894	13471	11/12/2014	<input checked="" type="checkbox"/>