

# HEX

## 3000

## Series

### OWNERS MANUAL

READ THIS MANUAL THOROUGHLY BEFORE  
ATTEMPTING TO USE THE EQUIPMENT  
IF YOU HAVE ANY QUESTIONS CALL THE  
DISTRIBUTOR AT TEL # BELOW BEFORE ANY USE.  
ALWAYS KEEP NEAR THE UNIT FOR EASY ACCESS

Distributor Name: \_\_\_\_\_

Distributor Tel: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Manufactured by:  
Tanses Technologies Inc.  
4450 Hwy 13, Fabreville  
Quebec, Canada H7R 6E9  
Tel: 450-622-4004  
Fax: 450-622-1540

[www.HEXtanning.com](http://www.HEXtanning.com)

## WARRANTY AGREEMENT FOR HEX DISTRIBUTORS

Tanses Technologies, known as manufacturer herein, warrants their indoor tanning equipment to be free from manufacturing defects for a period of one year on parts from the date of purchase excluding: acrylics, lamps, gas springs, ignitors and starters. HEX agrees to repair or replace defective components during one year from the time of purchase by the original customer/ end user/ salon operator, known as Customer herein. This warranty also applies to Customers that have purchased direct.

The distributor is responsible for providing adequate and timely warranty service to the Customer. All claims must be channeled through the distributor. The distributor is responsible for the cost incurred in providing such warranty service. The distributor is allowed to extend the warranty at their cost. At no time is HEX ever liable for any cost incurred by the distributor performing such warranty service, nor warranty service performed during distributors extended warranty period.

The parts exchange policy is as follows. During the warranty period, only defective parts shall be sent to HEX warehouse prepaid for inspection. HEX reserves the right to repair or to replace the defective part(s) and to choose the return mode of transportation, not exceeding ten days. Please provide: Customer name, equipment model and serial number, and a copy of our invoice (or this form) with the part(s). HEX should be advised prior to major repairs on equipment under warranty.

This warranty is null and void under the following circumstances: equipment damage caused by: weather, misuse, maintenance negligence, poor or improper installation, tampering with the internal circuits, improper repair or displacement performed by unqualified and/or unauthorized personnel, mechanical and electrical alterations, supply of any voltage other than the values indicated on the nameplate, transportation, or handling. This warranty does not cover costs associated with: time, labor, Customer downtime, external timing controls, lost revenues, or inconvenience.

If you have any questions concerning the use and maintenance of HEX tanning equipment after reading the manual, please forward your questions to Tanses by calling (450) 622-4004, or by email [kirk@HEX.com](mailto:kirk@HEX.com).

### **Section to be filled out and retained by Customer and Distributor:**

Customer's name.....

Model..... Serial #.....

Date purchased..... Invoice #.....

Distributor's name.....

**TANSES TECHNOLOGIES INC.**  
4450 Hwy 13, Fabreville, Quebec, Canada H7R 6E9  
Tel: (450) 622-4004 Fax: (450) 622-1540  
[www.HEX.com](http://www.HEX.com)

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Customer's name.....

Model..... Serial #.....

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#### TANSES TECHNOLOGIES INC.

4450 Hwy 13, Fabreville, Quebec, Canada H7R 6E9

Tel: (450) 622-4004 Fax: (450) 622-1540

[www.HEX.com](http://www.HEX.com)

## Warranty Registration & Questionnaire

Please fill out the following form and return it along with the completed Warranty Agreement.

1. What was the determining factor in purchasing your unit(s)? (Circle all that apply)

Availability	Reputation	Distributor	Looks
Quality	Experience	Price	Ad Claims

2. What do you like the least?

\_\_\_\_\_

3. I want to be included on your mailing list for new product announcements.      YES    NO

4. I want to be included on your mailing list for specials.      YES    NO

5. Would you like to receive promotional material on equipment parts?      YES    NO

6. Is your salon/ parlor/studio combined with any other business?      YES    NO

If so, Indicate the business type

Nails care	Gym	Health Spa	Hair Styling
Video rental	Swimwear/ Clothing	Other: _____	

7. Your top 3 brands of lamps. \_\_\_\_\_

8. Your top 3 brands of tanning equipment.

\_\_\_\_\_

9. How many salons do you own or in partnership with? \_\_\_\_\_

10. What is your favorite tanning industry magazine? \_\_\_\_\_

11. What is the average bed/salon ratio? \_\_\_\_\_

12. I prefer correspondence by:      MAIL      E-MAIL

E-mail Address \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Thank-you again  
Marketing Dept.

# TABLE OF CONTENTS

- 1) INTRODUCTION
- 2) HOW TO READ THE MANUFACTURERS LABELS
- 3) EXPOSURE TIME SCHEDULES
- 4) RECEIVING THE UNIT
- 5) MODEL SPECIFICATIONS
- 6) REMOVAL AND INSTALLATION OF THE ACRYLIC SHEET
- 7) INSTALLATION OF LAMPS
- 8) INSTALLATION OF STARTERS
- 9) MOUNTING CANOPY TO THE BASE
- 10) MOUNTING GAS SPRINGS
- 11) MOUNTING BODYFAN & CONNECTORS
- 12) INSTALLATION OF HP FACIAL TANNERS
- 13) POWER TRAYS, CONNECTORS, TIMER, HOUR COUNTER
- 14) EYE PROTECTION
- 15) CLEANING AND MAINTENANCE
- 16) WARRANTY
- 17) LIFE EXPECTANCY OF THE PARTS
- 18) TROUBLESHOOTING
- 19) ELECTRICAL DIAGRAMS

## 1) INTRODUCTION

Tanning is a process where a certain wavelength of the ultraviolet light is responsible for temporarily darkening of the skin, whether in the outdoor sun or indoors, using artificial methods. Indoor tanning can be achieved by using the proper spectrum of the ultraviolet radiation emitted by lamps of either low pressure (fluorescent lamps) or high pressure (metal halide, halogen quartz lamps).

Chemists are able to mix the proper fluorescent powders to produce the light emission similar to ultraviolet regions of the sun.

The ultraviolet region can be subdivided into 3 regions:

- 1) UVA region (long wavelength) 320nm to 400nm.  
Responsible for quickly darkening of the skin without burning;  
It fades quickly, used mainly for cosmetic darkening of the skin.  
Does not protect skin against sun's harmful rays.
- 2) UVB region (medium wavelength) 280nm to 320nm  
Responsible for reddening of the skin, erythema, and starts the process of tanning. It can cause terrible burning if the exposure is not controlled through an exposure timing process. Harmful for the eyes such that protective eye wear should be used at all times.
- 3) UVC region (short wavelength) 160nm to 280nm. This is mainly the germicidal region and causes burns. It has no tanning value other than harm. This region is eliminated from tanning lamps except high pressure lamps which may emit a small percentage of UVC that is why all high pressure, quartz lamps should be shielded with proper filters to eliminate any UVC.

You, as an owner of this sun tanning equipment, should follow the exposure schedules prepared by the equipment manufacturer under the guidelines of FDA (Food and Drug Administration) in order to avoid any injuries at a short or long term.

## **2) HOW TO READ THE MANUFACTURERS LABELS**

### **SERIAL NUMBER LABELS**

All serial number labels are manufactured of aluminum foil with pressure sensitive adhesive for mounting on the rear panel of the unit. The adhesive and the manufacturer of the labels are both registered and approved by CSA, NRTL.

All the labels indicate the name and the address of the manufacturing company, the CSA logo and CSA file numbers, indicated with LR numbers.

Model name, power input in watts.

Voltage input in 220VAC single phase.

Power factor in percentages lagging and not below 90%

Power cycle is in 60 Hz for North America

A total of 10 characters are used to identify the unit.

#### **Serial numbers**

1<sup>st</sup> character

T = HEX

2<sup>nd</sup> to 3<sup>rd</sup> character

Number of lamps

4<sup>th</sup> to 6<sup>th</sup> character

Unit assembly for the given year

7<sup>th</sup> and 8<sup>th</sup> character

Production month

9<sup>th</sup> and 10<sup>th</sup> character

Production year

For example

**T 32 356 0105**

HEX 32 lamps bed, unit # 356, month=Jan, year 2005

For units with HP facial tanners up to 3 characters may be appended to the end of the serial number.

F4 = 1 facial tanner cassette w/ 400 watt HP lamp

F8 = 1 facial tanner cassette w/ 2-400 watt HP lamps

2F4 = 2 facial tanner cassette w/ 400 watt HP lamp each

2F8 = 2 facial tanner cassette w/ 2-400 watt HP lamp each

F5 = 1 facial tanner cassette w/ 500 watt HP lamp

For example

**T 32 356 0105 F4**

HEX 32 lamps bed, unit # 356, month=Jan, year 2005, facial cassette w/ 400 watt



## WARNING LABELS

CERTIFIED ONLY TO THE CANADIAN ELECTRICAL CODE  
(In FRENCH, BILINGUAL TRANSLATION)

DISCONNECT SUPPLY BEFORE REMOVING COVER.  
(DEBRANCHER LE CORDON D'ALIMENTATION AVANT D'OUVRIR LE COUVERCLE.)

DO NOT EXPOSE EYES TO THE LAMPS  
(NE PAS EXPOSER LES YEUX AUX RAYONS DES LAMPES)

“CAUTION; CONNECT ONLY TO A CIRCUIT PROTECTED BY A CLASS A GROUND FAULT CIRCUIT INTERRUPTER”.

Warning #2 on the upper right corner of the canopy extrusion printed on Mylar in blue.

### WARNING:

- As with natural sunlight, overexposure can cause eye injury and sunburn.
- Repeated exposure may cause premature aging of the skin and skin cancer.
- Medications or cosmetics applied to the skin, may increase sensitivity to ultraviolet light.
- A person who does not tan in the sun most likely will not tan from the use of this device.
- A person having a history of skin problems should consult a physician before use.
- Overexposure should be avoided.
- Children, the elderly or fair skinned people who always burn easily and either never tan or tan minimally should not use this equipment.
- Min. use distance=7.6cm (3.0”) from canopy

Warning #3 next to warning #2 printed on Mylar in blue with a radiation logo

**WARNING!!! ULTRAVIOLET RADIATION-FOLLOW INSTRUCTIONS  
FAILURE TO USE PROTECTIVE EYEWEAR MAY RESULT IN SEVERE BURNS.  
OR OTHER EYE INJURY- IF DISCOMFORT DEVELOPS, DISCONTINUE USE AND CONSULT A  
PHYSICIAN.**

Warning #4 placed on the front bar for FDA purposes and distribution into the USA.

**DANGER- Ultraviolet Radiation.** Follow instructions. Avoid overexposure. As with natural sunlight, overexposure can cause eye and skin injury and allergic reactions. Repeated exposure may cause premature aging of the skin and skin cancer. **WEAR PROTECTIVE EYEWEAR: FAILURE TO MAY RESULT IN SEVERE BURNS OR LONG-TERM INJURY TO THE EYES.**

Medications or cosmetics may increase your sensitivity to the ultraviolet radiation. Consult a physician before using sunlamp if you are using medications or have a history of skin problems or believe yourself especially sensitive to sunlight. If you do not tan in the sun, you are unlikely to tan from the use of this product. Do not remove this label. You may be liable if you do so.

Warning #5 is the exposure time schedules for a particular unit and the lamp  
See Section 3 for more info.

Label #6 is the directions for use.

**DIRECTIONS FOR USE:**

- Proper eye wear should be used all at times.
- Set the timer for the desired dosage by referencing the Recommended Exposure Schedule attached to the unit.
- Lay down on the bed section and lower the canopy section until there is 3.0" (7.6cm) between your body and the canopy.
- At the termination of the session the equipment will turn itself off.
- Do not Overexposure
- One person at a time may use this equipment.

Label#7 under each exposure schedule

The above schedule provides for up to 3 sessions the first week at 48-hour intervals, gradually increasing in following weeks until the maximum time is achieved (approximately 4 weeks). Weekly or bi-weekly exposures should provide for maintenance of your tan.

### **3) EXPOSURE TIME SCHEDULES**

Due to the dangers involved in sun tanning; sun burn in the short term, premature skin aging and skin cancer in the long term. We have prepared a time exposure schedule for every model of our equipment, under the guidelines of the FDA.

Every unit should be operated by a perfectly functioning timer and overexposure should be avoided.

Our time exposure schedules are prepared for Skin type 2 which burn easily. Any person who does not tan in the sun should not be using this equipment. Elderly or the children should only be using this equipment under the instructions of a physician.

Anybody that develops a rash or may experience discomfort should stop using this equipment and consult a physician.

Anybody who is taking photosensitive drugs should not be using this equipment.

**All warning labels should be legible at all times.**

If any of the labels are removed or damaged; immediately call your distributor for a replacement label. If you remove any of the warning labels by mistake or intentionally, the equipment conformance to CSA and FDA standards are void, resulting in substandard equipment.

In order not to exceed the exposure while lying on the acrylic, do not lower the canopy section any closer than 3.0 inches from the body.

48 hour interval is recommended between sessions. It may take up to 2 sessions before any results appear. Once tanned, use the equipment biweekly up to the max time to maintain desired tan.

SUNLAMP EXPOSURE TIMES IN MINUTES FOR Philips- Performance 100W lamps and Heraeus OH-400S facial lamps. Skin type-2 In models:

**T-16, T-20, T-24, T-28, T-32 (Max. Exposure time is 25 minutes)**

WEEK	1	1	1	2	2	2	3	3	3	4	4	4
SESSION	1	2	3	1	2	3	1	2	3	1	2	3
MIN. PER SESSION	5	5	10	10	15	15	20	20	20	25	25	25

The above schedule provides for up to 3 sessions the first week at 48-hour intervals, gradually increasing in following weeks until the maximum tan is achieved (approximately 4 weeks). Weekly or bi-weekly exposures should provide for maintenance of your tan.

**This product is certified to comply with 21 CFR 1040.20**

SUNLAMP EXPOSURE TIMES IN MINUTES FOR Philips TL 100W/10-R (RULA) 100W lamps and Heraeus OH-400S facial lamps. Skin type-2 In models:

**T-16, T-20, T-24, T-28, T-32 (Max. Exposure time is 25 minutes)**

WEEK	1	1	1	2	2	2	3	3	3	4	4	4
SESSION	1	2	3	1	2	3	1	2	3	1	2	3
MIN. PER SESSION	5	5	10	10	15	15	20	20	20	25	25	25

The above schedule provides for up to 3 sessions the first week at 48-hour intervals, gradually increasing in following weeks until the maximum tan is achieved (approximately 4 weeks). Weekly or bi-weekly exposures should provide for maintenance of your tan.

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SUNLAMP EXPOSURE TIMES IN MINUTES FOR Voltarc 5.0 (P/N 16808) 100w lamps and Heraeus OH-400S facial lamps. Skin type-2. In models:

**T-16, T-20, T-24, T-28, T-32 (Max. Exposure time is 12 minutes)**

WEEK	1	1	1	2	2	2	3	3	3	4	4	4
SESSION	1	2	3	1	2	3	1	2	3	1	2	3
MIN. PER SESSION	3	5	5	5	8	8	10	10	10	12	12	12

The above schedule provides for up to 3 sessions the first week at 48-hour intervals, gradually increasing in following weeks until the maximum tan is achieved (approximately 4 weeks). Weekly or bi-weekly exposures should provide for maintenance of your tan.

**This product is certified to comply with 21 CFR 1040.20**

SUNLAMP EXPOSURE TIMES IN MINUTES FOR Goldarium S-Plus, by Cosmedico 100W lamps and Heraeus OH-400S facial lamps. Skin type-2 In models:

**T-16, T-20, T-24, T-28, T-32 (Max. Exposure time is 15 minutes)**

WEEK	1	1	1	2	2	2	3	3	3	4	4	4
SESSION	1	2	3	1	2	3	1	2	3	1	2	3
MIN. PER SESSION	3	5	5	8	8	10	10	10	15	15	15	15

The above schedule provides for up to 3 sessions the first week at 48-hour intervals, gradually increasing in following weeks until the maximum tan is achieved (approximately 4 weeks). Weekly or bi-weekly exposures should provide for maintenance of your tan.

**This product is certified to comply with 21 CFR 1040.20**

SUNLAMP EXPOSURE TIMES IN MINUTES FOR Cosmolux VHR by Cosmedico 160W lamps and Heraeus OH-400S facial lamps. Skin type-2 In models:

**T-16, T-20, T-24, T-28, T-32, TX-32 (Max. Exposure time is 10 minutes)**

WEEK	1	1	1	2	2	2	3	3	3	4	4	4
SESSION	1	2	3	1	2	3	1	2	3	1	2	3
MIN. PER SESSION	2	2	3	5	5	7	7	8	8	10	10	10

The above schedule provides for up to 3 sessions the first week at 48-hour intervals, gradually increasing in following weeks until the maximum tan is achieved (approximately 4 weeks). Weekly or bi-weekly exposures should provide for maintenance of your tan.

**This product is certified to comply with 21 CFR 1040.20**

SUNLAMP EXPOSURE TIMES IN MINUTES FOR Cosmolux VHR by Cosmedico 160W or compatible VHR-200 lamps and Heraeus OH-400S facial lamps. Skin type-2 In models:

**T-32, TX-32, TX-32-F8, TX-32-2F8 (Max. Exposure time is 10 minutes)**

WEEK	1	1	1	2	2	2	3	3	3	4	4	4
SESSION	1	2	3	1	2	3	1	2	3	1	2	3
MIN. PER SESSION	2	2	3	5	5	7	7	8	8	10	10	10

The above schedule provides for up to 3 sessions the first week at 48-hour intervals, gradually increasing in following weeks until the maximum tan is achieved (approximately 4 weeks). Weekly or bi-weekly exposures should provide for maintenance of your tan.

**This product is certified to comply with 21 CFR 1040.20**

#### **4) RECEIVING THE UNIT**

Your sun tanning equipment goes through a number of tests at different stages of the manufacturing process for quality assurances and good manufacturing practices, as required by CSA and FDA regulations. CSA also conducts their inspections at the factory with surprise tests to ensure proper manufacturing techniques.

Once your unit has gone through the final assembly stage it is tested for proper ground. 1500 Volts are applied to the unit for a minimum of 1 min, according to CSA regulations. Next, the unit is turned on and allowed to run for a full session, at this point the timer is checked for its accuracy and that the unit will turn off once the session time has expired. Meanwhile; the lift mechanism is checked for proper support. Once all the components are reviewed by our quality control supervisor and determined to be in excellent working order, the serial number is logged onto our CSA log book and packaging may proceed.

When you receive your unit, check for damages on the packaging; if you see any signs of damage, ask the transport company personnel to mark it on the receiving documents for future damage claims.

The unit is packaged in multiple cartons to ease unloading and transferring.

The unit arrives with lamps, starters and acrylics already installed.

## 5) MODEL SPECIFICATIONS

The T-16, T- 20, T- 28 T- 32, and TX- 32 series are from the same family such that they share similar parts: same chassis, same length, and same lamp to the acrylic distance.

Bed length: 90"  
Bed width: 35.5"

The units are available in 100 and 160 watt ballast configuration.  
The TX-32 is also available in a 180 watt ballast version.

100 watt ballast type is equipped with medium bi-pin F71 100 watt lamps.  
Refer to Section 3 for compatible lamp types.

160 watt ballast type is equipped with medium bi-pin F71 160 watt lamps.  
Refer to Section 3 for compatible lamp types.

180 watt ballast type is equipped with medium bi-pin F79 180 watt lamps.  
Refer to Section 3 for compatible lamp types. 180Watt @ 220 volt input.

Up to four 400 watt high pressure facial tanner lamps are available on all models.

Each HP facial lamp is run by a 400 watt ballast.  
Refer to Section 3 for compatible lamps types.

Running the unit at higher voltages will result in; higher wattage consumption, increased lamp output and a reduction in lamp life expectancy.

The unit will run hotter and the room temperature will be higher.  
FDA time schedules are also made for 220 volts operation only.  
Higher voltage can also cause breaker tripping due to higher wattage consumption.

These are highly inductive systems that will consume more amperage at higher voltages, opposite of resistive systems such that some electricians may be puzzled.

**There is a different exposure time schedule for different lamps. Use only the lamps recommended by the warning label on your equipment; doing contrary will be against any conformance to FDA, CSA.**

## 6) REMOVAL AND INSTALLATION OF THE ACRYLIC SHEETS

**ALWAYS REMOVE THE POWER PLUG FROM THE WALL OUTLET BEFORE REMOVING OR INSTALLING THE ACRYLIC SHEETS.**

Please note that the acrylic in the canopy sections is 1/8" thick, while the acrylic on the bed section is 3/16" thick (THICKER). All acrylics are flat such that they can be easily sourced.

### Canopy Section

Acrylic Size: 29.875" X 86.375" 1/8" Thick

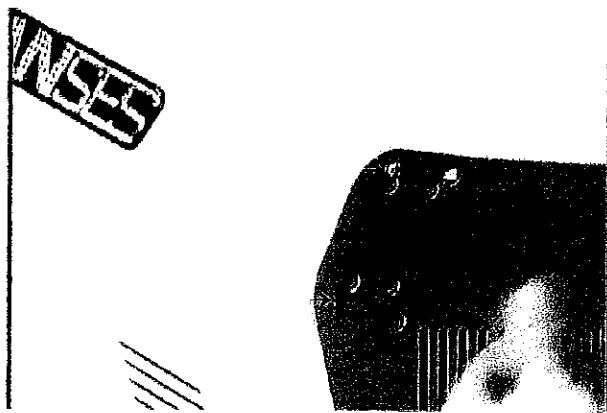
### Bed Section

Acrylic Size: 29.875" X 86.375" 3/16" Thick

## Acrylic Sheet Removal

### Step 1: Remove U-bar

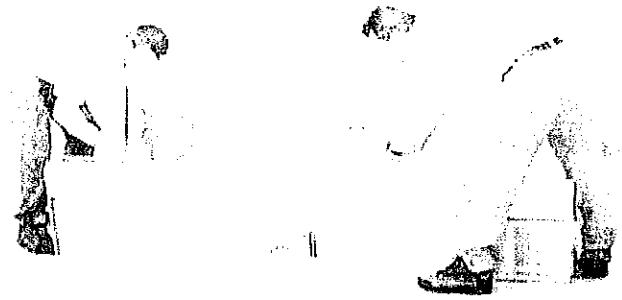
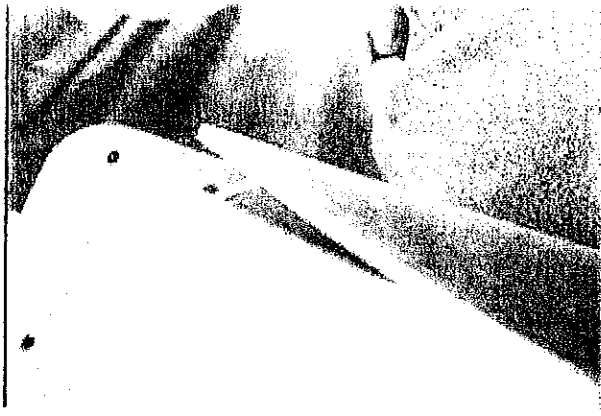
- Bring the canopy section to its maximum height.
- Remove 2 screws found on both ends of the U-Bar using 3-32 Allen Key (black ends) or #8 Philips (silver ends)
- Detach the U-bar from the unit.



### Step 2: Remove Acrylic

- From the holes located on the end plates, gently lift the corner of the acrylic sheet using a flat head screwdriver.
- While pressing firmly in the center of the acrylic sheet with one hand, lift the corner of the acrylic sheet using the other hand.
- Continue the above action until you have reached the other end of the bed. Once completed, lift the Acrylic sheet away from the unit.

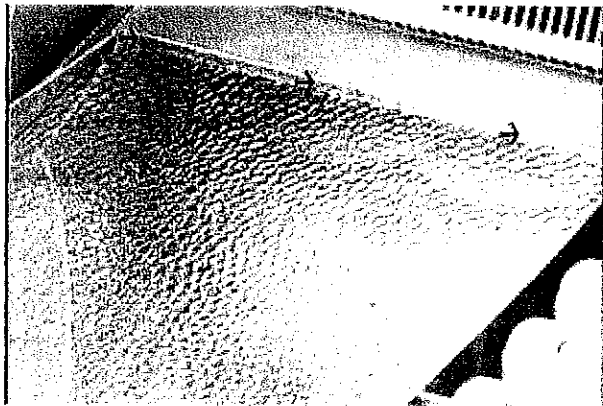




## Acrylic Sheet Installation

### Step1: Seat Acrylic Sheet

- Slide one end of the Acrylic sheet into the support found at the back end of the unit.
- While pressing firmly in the center on the acrylic sheet, secure the other end against the front support.



### Step2: Install U-bar

- Attach the U-bar to the front of the unit
- Secure using 2 screws of size 8-32 on both ends.

Make sure your replacement Acrylic sheet is of the same quality and thickness as the one installed by the factory. Consult your sales representative the specs info.

**-DO NOT** use cracked acrylics as it will pose a danger to the user.

- Replace acrylics that are discolored, badly scratched or cracked.  
Old acrylics will reduce the UVA and mainly UVB transmission of the lamps.

## **7) INSTALLATION OF LAMPS**

### **Installing Medium Bi-pin Lamps**

**ALWAYS REMOVE POWER PLUG FROM THE WALL OUTLET BEFORE REMOVING OR INSTALLING LAMPS, STARTERS AND ACRYLIC SHEETS.**

To have access to the lamps, you must first remove the Acrylic sheet. For more information on removing the acrylic sheet see section 6.

These lamps are installed by sliding both ends of the medium bi-pins into the lamp sockets at the same time and rotating the lamp for a quarter turn until hearing a click sound. Forcing the lamp to be rotated before the both ends are fully in can result in broken pins.

Using the reflector lamps such as Cosmolux VHR; make sure the lamp label is on the outside and is visible to the user.

**Make sure the Danger warning label on the lamps are visible to the user in order to conform CSA and FDA regulations.**

-Your low pressure lamps will be performing their best in the first 50 hours of use. Their tanning power (Ultraviolet radiation intensity) begins to gradually decline and at 600 hours, when the lamps are down to 70% of initial intensity it is more economical to replace them.

You can use a UV meter to monitor lamp intensity.

## 8) *INSTALLING STARTERS*

Starters are responsible for lighting of the fluorescent lamps.  
If a defective starter is kept in place; it may cause damage to lamps and/or ballasts.

To replace starters:

- A) Remove power plug from the power source,
- B) Remove the acrylic sheet. See Section 6 for details.
- C) The starter of each lamp is behind the fan side or the female socket side,  
Simply rotate the starter a ¼ turn and it will be freed from the socket.
- D) To replace push into the socket and rotate 1/4 turn.

### Starter Type

100 and 160 watt units are supplied with regular glo-bottle starters.  
180 watt units are supplied with electronic starters.

**ALWAYS REPLACE THE STARTERS WITH THE RECOMMENDED  
TYPE IN ORDER TO KEEP CONFORMANCE TO THE STANDARDS.  
CONSULT YOUR SALES REP FOR SPECS**

## 9) MOUNTING THE CANOPY TO THE BASE

Follow the instructions listed below to mount the canopy to the base.

### Step 1: Base Section

- Position the base of the unit in the desired location.
- Leave sufficient room to work around the unit.

### Step 2: Side plates

- Attach the side plate to the rear right end of the base.
- Secure using 2 bolts of size 3/8-16 and washer. Do Not Tighten.
- Repeat to the left side.



### Step 3: Canopy Section

- Slide the side mounting stud from one side of the canopy and into the center hole found on the side plate.
- Repeat to the other side.
- Tighten the bolts that connected the base to the side plate (Step: 2)
- Repeat to the other side.
- Secure the canopy to the side plates using 3 washers (2 silver 1 black) and a 3/8-16 locknut.



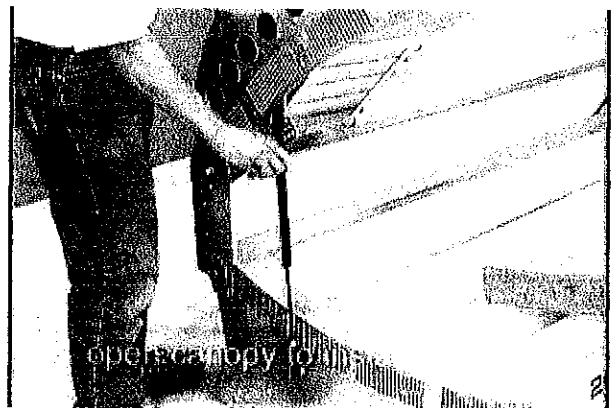
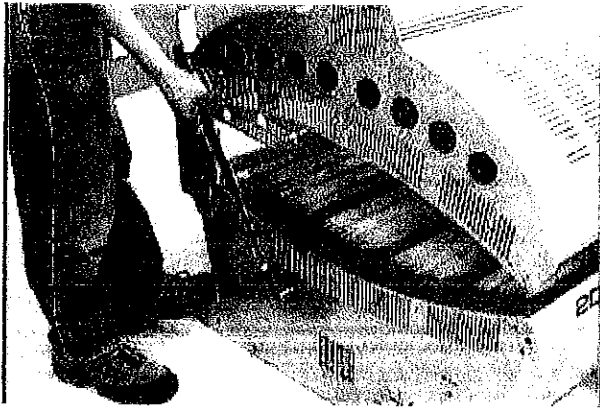
## 10) MOUNTING GAS SPRINGS

Each unit has one gas springs on each side, for a total of two gas springs. They should be installed properly in order to balance the weight of the canopy.

Follow the instructions listed below to install / remove the gas springs.

### Installing Gas Springs

- Press the ball joint found on the rod section in the ball stud found on the base section.
  - Repeat to the other side.
  - While one person raises the canopy, another can press in the ball joint found on the cylinder section of the gas spring into the ball stud found on the canopy section.
  - Repeat to the other side.
  - Ensure that the ball studs are well secured into the ball joints.
- Make sure the gas spring is installed cylinder section up.**



### Removing Gas Springs

- **Lift the canopy to its highest position.**
- Place a piece of 4" thick cardboard at both ends on the bed.
- While somebody is supporting the weight of the canopy, pull back the clip found on the ball joint using a flat head screwdriver. Doing so will release the ball stud from the ball joint, enabling you to remove the gas spring.
- Repeat on the other side.
- Repeat to lower section.

The lift system is adjusted for a salon room temp of 21 degrees to 30 degrees Celsius. If the room is cooler or the A/C is blowing directly onto the gas spring then your lift system may feel heavy causing the canopy to sink.

If the room temperature is too high it may cause the canopy to rise independently and at the same time may seem difficult to lower.

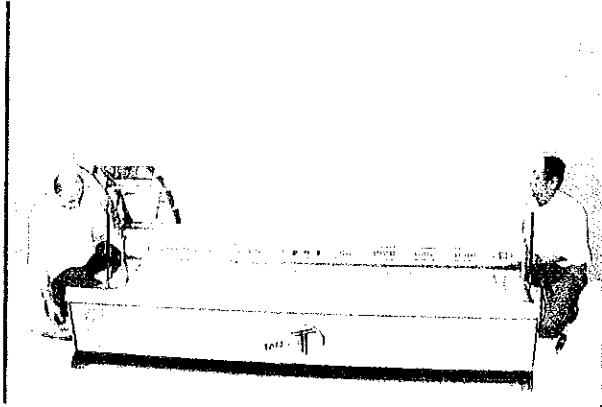
## 11) MOUNTING BODYFAN & CONNECTORS

### Installing Bodyfan

Follow the instructions below to install the Bodyfan to the unit.

#### Step 1: Bodyfan

- Bring the canopy section to its highest position.
- Mount the Bodyfan console to the side plates located at the back of the unit.
- Secure using 2 screws of size 8-32 and a washer for both right and left ends.

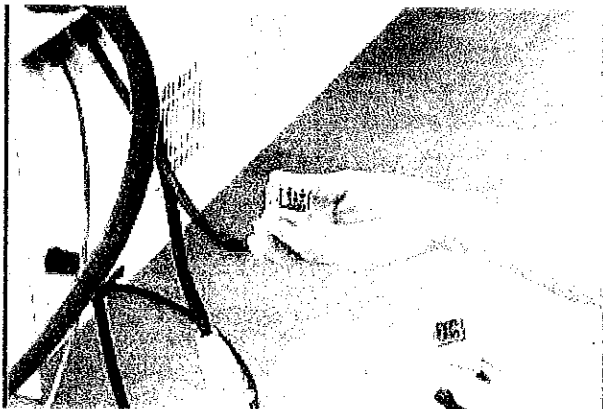


### Attaching Connectors

Follow the instructions below to install the connectors.

#### Step 1: Connectors

- Latch together all connectors found behind the unit.



## 12) INSTALLATION OF HP FACIAL TANNERS

Follow the instructions listed below to replace the HP facial lamps.

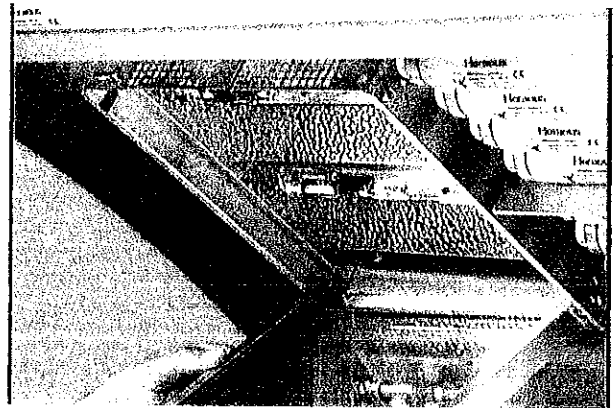
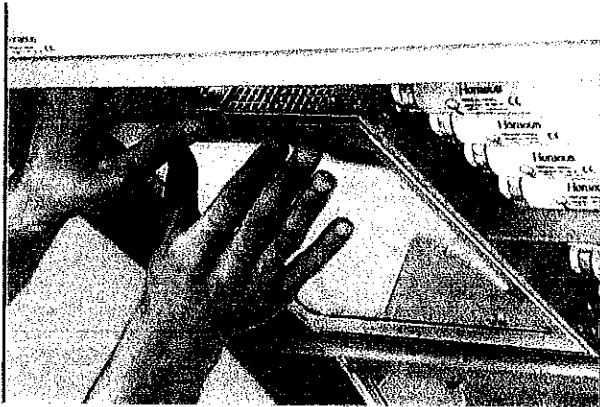
**\*\*\* CAUTION: The Facial Cassette and its contents operate under very high temperatures. Allow sufficient time for cooling before attempting to service. \*\*\*\***

### Step 1: Remove Acrylic Sheet

- In order to have access to the HP facial cassettes in the canopy section, you must first remove the acrylic sheet. See Section 6 for info.

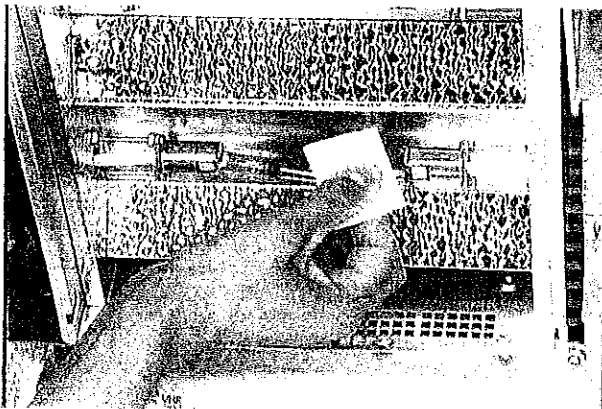
### Step 2: Remove Filter

- Unlatch the Filter from the facial cassette and allow it to slowly pivot open.
- Remove the Filter from the cassette and set it aside.



### Step 3: Remove lamp

- Using a cloth or tissue, grab the lamp in the center and push horizontally to the right, doing so will free up the left side allowing you to remove the lamp.



### **13) POWER TRAYS, CONNECTORS, TIMER, HOUR COUNTER.**

#### **100 watt system**

The contactor and relay is found in the canopy aluminum extrusion.

The ballasts and capacitors responsible for either the bed or canopy section are found in their respective aluminum extrusion.

#### **160 & 180 watt system**

The ballasts for either the bed or canopy section are found in their respective aluminum extrusion.

The contactors, capacitors, fan and control relay are placed in the back panel of the canopy section.

If one side (bed or canopy) lamps do not light up it may be a contactor coil not functioning properly.

During the operation of the bed if the timer shuts off the power to the contactor and one of the contactors is stuck at on position, that side will have all the lamps on; the user should stop using the equipment as the exposure timing will be dangerous.

**FOR PROFESSIONAL, QUALIFIED TECHNICIANS ONLY.  
POWER PLUG SHOULD BE REMOVED FROM WALL OUTLET BEFORE ANY  
INSPECTION OR REPAIR WORK.**

Quick disconnect type insulated crimping, connect the wires from the contactor to the timer and to the hour counter. Make sure that these wires do not get damaged during the front panel removal and replacement process.

Hour counter is used to help the user do periodical maintenance and replacement of the lamps and the parts.

Timers are electromechanical with a knob that can be dialed to the desired timing interval.

**Always follow the time exposure schedule provided with the equipment.**



## **14) EYE PROTECTION**

Ultraviolet light in the UVA and UVB region may cause damage to the eyes either as a short term burns or cataracts in the long term. In order to eliminate any risk of damage to the eyes ; each equipment is shipped with proper protective eye wear, that is in conformance to 21 CFR.1040.20. (FDA regulation) and CSA requirements.

The user should be wearing the eye protection goggles at all times while operating the equipment. The eye protectors are manufactured and marketed by:

**1992 SunCare Inc.**  
270 N. Canon Dr. Suite 1297  
Beverly Hills, CA 90210  
Tel: 1-800-SUN-CARE

- A) Adjust the length of attached elastic band by tying and knotting it securely behind your head.
- B) Place Peepers on your eyes for a secure, comfortable fit.
- C) Proper fit is essential when using the sun tanning equipment.

## **15) CLEANING AND MAINTENANCE**

Before cleaning:

**Remove the power plug from the wall outlet.  
Doing contrary may result in an electrical shock.**

The equipment should be cleaned thoroughly with a germicidal liquid between each user, in order to disinfect the equipment and to maintain proper hygienic conditions.

You should only apply the germicidal liquid to the acrylic after all the fans have stopped.

**If you begin spraying while the fans are on some of the germicidal spray may be sucked in and passes over the hot lamps causing micro cracks and premature failure.**

The germicidal liquid should not contain any ammonia, alcohol, abrasives.

Do not use excessive amounts of water.

HP Facial tanner Filters should be periodically cleaned using a germicidal spray and paper towel in order to reduce the dust build up. Failing to do so can reduce the UV transmission and causes filter temperatures to go up.

If the unit is accidentally soaked with water, **do not** plug the unit into the wall outlet until every component is dry.

Boxer fans should be cleaned of any dust build up every 3 months by vacuuming.

**Higher ambient temperature is the main cause of premature failure**

## **16) WARRANTY**

The equipment and its components are under warranty for 1 year from purchase date, under conditions. During the warranty period, defective parts will be replaced by the distributor/manufacturer.

Installing the unit under conditions that do not meet the manufactures specifications will void the warranty.

**Lamps, starters, ignitors, acrylic sheets, gas springs** are not covered under warranty.

The labor cost for replacement for the defective parts are not covered by the manufacturer.

**No consequential damages or loss of business is covered by our warranty.**

**See warranty agreement for more information.**

## **17) LIFE EXPECTANCY OF THE PARTS**

In order to maintain the unit in optimal running condition, the following provides the life expectancy and replacement schedule for the components. It does not entail the warranty period, other than that stated in the warranty agreement. (See section 14)

Sockets, contactors, capacitors, fans, timers should be replaced after 5 years or 10,000 hours for safe operation of this unit.

Ballasts should be checked for leakage at 10,000 hours and if necessary should be replaced.

Acrylic sheets should be replaced every 800 hrs to 1000 hrs, or once annually.

Gas springs have a life span of 1 to 3 years depending on the use and/or scratches on the rods surface.

**Make sure the gas spring is installed cylinder section up.**

Regular starters should be changed every other lamp change.

Electronic starters should last app. 5 years.

The steel and aluminum body parts have an indefinite life span as long as the environment is not corrosive.

The life expectancy of the electrical wiring is about 4000 hrs or 5 years.

All wiring should be checked by a qualified technician every three years against any heat or ultraviolet damage and if necessary replaced.

**All this data was obtained through 20 years of manufacturing and servicing similar sun tanning equipment.**

## **18) TROUBLESHOOTING**

### **1) Lamps flicker**

- A) Check power input voltage.  
A voltage reading under 215 VAC will cause the lamps to flicker.
- B) Allow the lamp phosphor to stabilize. May take up to 50 hours.

### **2) Some lamp(s) do not light up**

- A) Replace the starter(s)
- B) Replace the lamp(s)
- C) Check any disconnection at the connectors
- D) Check the wires entering the lamp sockets
- E) Wiggle the safety switches of the filters for the HP section in canopy (only with vertically installed facial lamps)  
Improperly seated filters or even defective safety switches may be the cause.
- F) Replace HP ignitor to see if it is the cause
- E) Check the coldest ballast after 5 minute of operation and check if the ballast is burned for this particular lamp. Replace if you see any burn signs.

### **3) Either bed or canopy side lamps do not light up**

- A) Check the connector connection behind the unit and verify that it is securely latched.
- B) Check the contactor of the side that does not work  
by pressing on the contactor with an insulated screwdriver.  
  
If the lamps come on as you press the contactor center square button with an insulated screwdriver the problem lies in the contactor coil.  
Replace the contactor.

When replacing the contactor, swap one wire to the new contactor at a time.

- C) Check power wires at the terminal block for the contactors.  
Any visual discoloration or melted wires need to be replaced.

### **4) Both bed and canopy lamps do not light up;**

- A) Check main salon breaker
- B) Check power outlet and power plug

- C) Check timer contacts; short the red and black 24 VAC wires that goes to T-max to see if the unit comes on.  
If the unit starts this means that your T3A timer is defective.
- D) Check small ice cube relay that is responsible for 24 VAC to T3A
- E) Check small 220 down to 24 VAC transformer.
- F) Check the contactor coils and wire connections to the contactors

**5) Lamps are on all the time, on one side (bed or canopy)**

- A) Check contactor responsible for that side against any jamming/sticking of the contactor plunger/contacts. Replace contactor.

**6) Unit is drawing a lot of current and breaker is jumping.**

- A) A capacitor or a bank of capacitors are either blown or their connections are loose. Capacitors; although bleed type, **may contain some electrical charge even a few minutes after removing from power source and you may get a dangerous electrical shock.**
- B) High leakage at a number of ballasts (Very rare)  
Replace ballasts.

**7) Overheating acrylic surface;**

- A) Blockage of air inlets and/or outlets.
- B) Excessive dust collection on the acrylic surface and/or fan blades
- C) Defective fans.  
The defective fan blades may seem be turning at slow speed due to air flow created by other fans.
- D) Lower input voltage causing lower fan speeds which is not adequate for proper air circulation.
- E) Input voltage over 220 Volts AC can cause extra light output and extra infrared (sensation of heat)
- F) Low air circulation and increased ambient air temperature in the cabin.

**8) Noisy fans**

Replace the fans immediately.

**9) Gas springs do not keep the unit canopy in upper position.**

Worn out or defective gas springs, Replace

**10) Canopy is difficult to open when the cabin is cold and lifts up by itself after a few tanning sessions.**

Adjust the gas spring upper mountings at an optimum level and try to keep the cabin temperature between 21 Degrees Celsius to 28 degrees Celsius as the excessive temperature change causes a drop or increase in gas pressure of the gas springs causing erratic lift characteristics.

**11) Noise at canopy movements**

A) Grease the gas spring mounting rod ends

