

magic tan



**Model
MT3000™**

Owner's Manual

Model MT3000™

Owner's Manual

magic
tan

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MagicTan Corporation
Cleveland, Ohio
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WARNING: Adjustments and/or modifications to the unit must be made by trained and qualified personnel only!

Serial Number: _____

Manufacturer's Date: _____

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Section 1: Introduction

MT3000[®] Overview

Your MagicTan, Model MT3000™ is a revolutionary, fully-automated tanning spray machine, which uses state-of-the art misting technology and *sunless* tanning solutions to provide instant, even, natural-looking tans. In less than one minute, using 36 (or 40), non-moving spray heads, your MagicTan, Model MT3000™ uniformly sprays a fine mist of sunless tanning solution (a safe, FDA approved substance) and an aloe-based bronzing solution over your client's entire body, creating an even, golden brown tan that will continue to deepen throughout the day. The entire process is achieved without the use of lotions, so there is no mess and no uneven streaks and/or blemishes left on the body. In addition, the process is entirely UV-free, which allows those clients that are sensitive to sunlight and/or blemish or freckle easily to finally receive the perfect tan they've always wanted.

Your MagicTan, MT3000 Features:

- ◆ **100% UV-Free Tanning Technology** – a safe alternative to traditional UV tanning machines.
- ◆ **36 (or 40) Spray heads**: More spray heads than any other sunless tanning machine on the market allows for a more accurate, uniform tan.
- ◆ **Non-Moving Spray Heads**: Lower operational costs by reducing mechanical failures, maintenance, and downtime.
- ◆ **Compact Design**: Space-saving design simplifies integration and installation.
- ◆ **Fast/Easy-to-Use**: Simply enter the MT3000 booth, press the start button, and relax while the misting process completes in less than one minute.

How it Works

The MT3000™ is a technologically advanced, hydromechanical tanning system that mixes air and a DHA (Dihydroxyacetone) based tanning solution into a fine mist. The mist is then sprayed, via 36 (or 40) spray heads onto the body to produce an even tan.

Each row of 4 spray heads connects to individual air and solution solenoid valves. The air and solution solenoid valves are controlled by the MT3000's Integrated Electronic Controller (IEC), which sequentially cycles the spray valves on and off from the bottom row of spray heads to the top row for approximately 14-seconds per side. Daily operational controls such as bank adjustment, internal light, booth washdown, low solution indication, and tanning cycle usage are easily accessed via the unit's User Interface Controller (UIC).

During the misting (tanning) process, fresh air is ventilated into the MT3000 through a return vent, while mist residue is purged via the system's exhaust vent. A sprinkler is included to wash down the inside of the MT3000 after use. A floor drain removes excess mist during and after the misting and wash down processes. (See figures 1 & 2.)

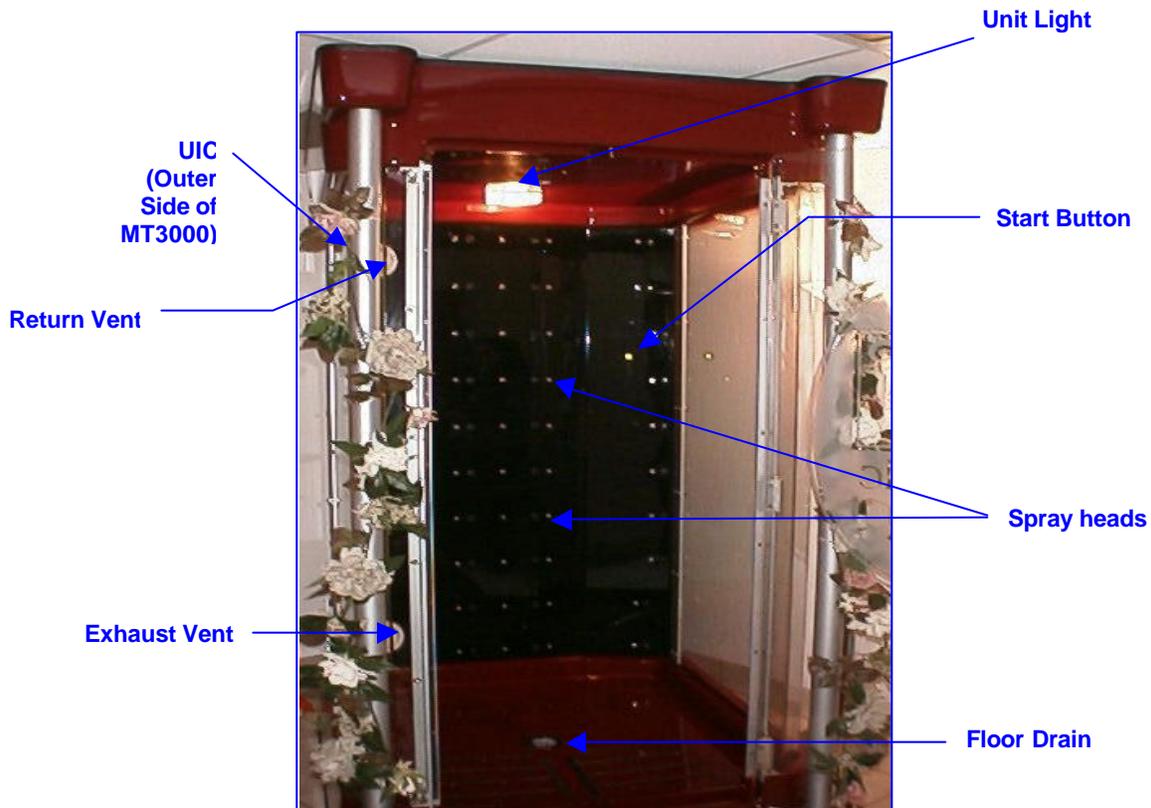


Figure 1: MT3000 Front View

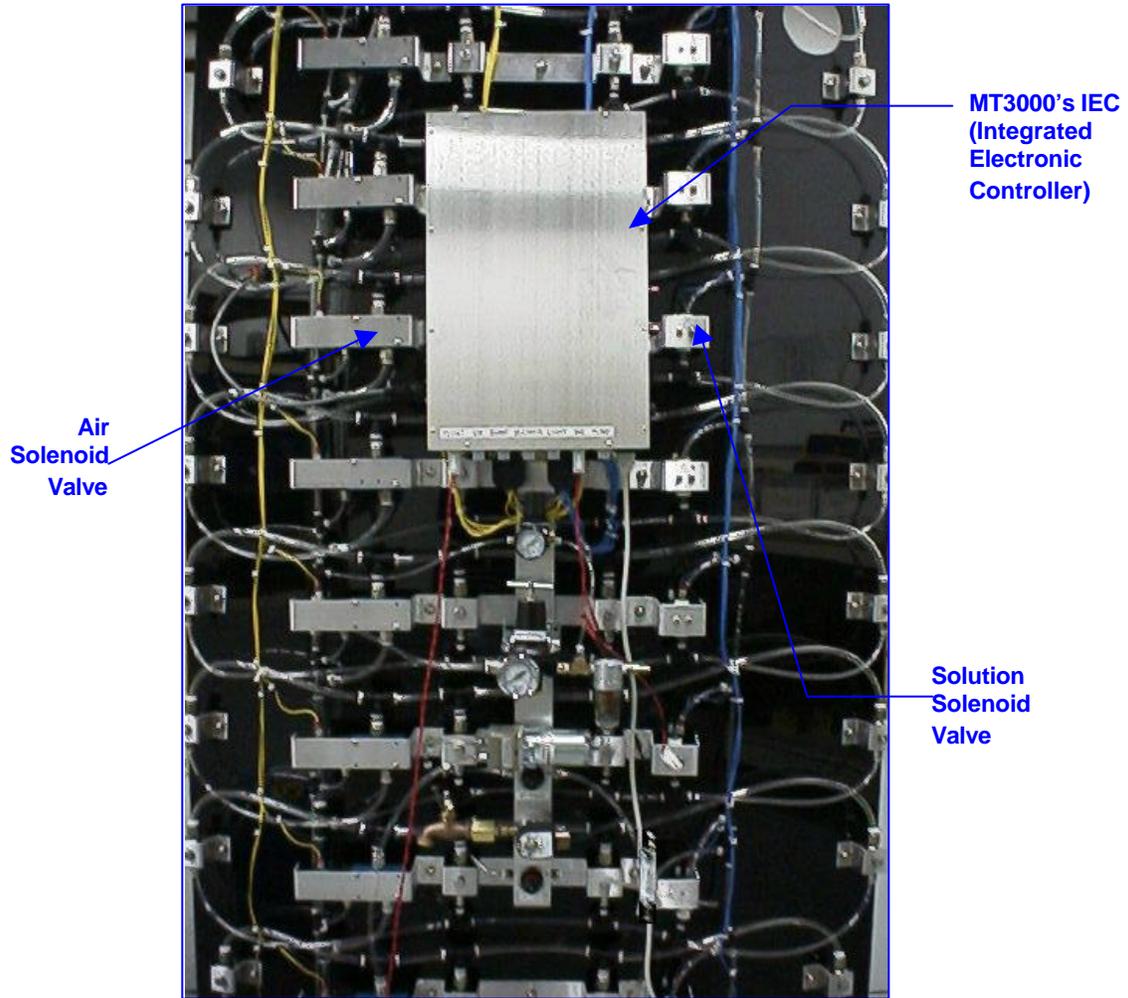


Figure 2: MT3000 Back Panel View

Typical MT3000[®] System Arrangement

A typical MagicTan, Model MT3000 system arrangement is shown in Figure 3. Refer to the MT3000's Installation document for system clearance requirements and further installation information.

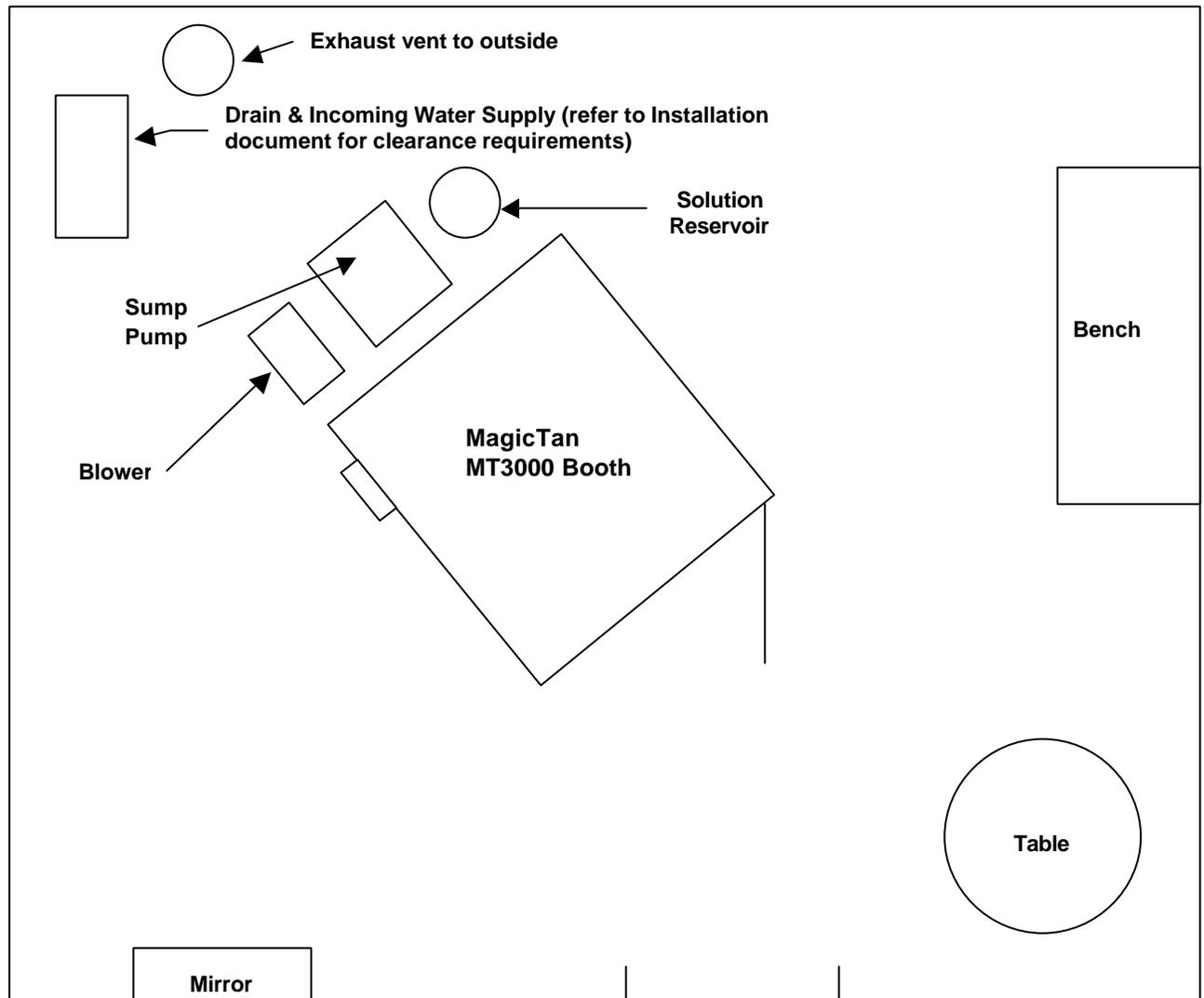


Figure 3: MT3000 Typical System Arrangement

Specifications

	Size	Capacity	Voltage	Accessories	Warranty	Colors	Wt.
MT3000	(4' X 5' X 7' 9")	Solution: 5 gallon reservoir (110-120 tan cycles)	110 /220 VAC 20 Amp	N/A	Limited Lifetime	Burgundy (other colors available upon request)	450 lb.
Air Compressor	Varies	8.6 scfm @ 40 psi 20 gallon receiver Min.	110/220 VAC 25 Amp Min. Dedicated	50 ft. Hose	Manufacturer's Warranty	N/A	100 lb.

Getting Started/Tanning

The MT3000 uses a 4-position tanning stance to achieve optimum coverage. See figure 4 (A-D), page 8.

4-Position Tanning Stance

Follow These Steps When Tanning Using the 4-position Tanning Stance:



CAUTION: Slippery Conditions. To avoid slipping, use extreme caution after applying barrier cream to hands and feet.

Step 1. Once in the MagicTan tanning area, disrobe.

Step 2 Put on hair cap and booties (if booties are available).

Step 3. Apply barrier cream to palms, cuticles of fingers, fingernails, and bottom of feet (if not using booties). In addition, it is suggested to apply a light amount of barrier cream to dry skin areas, such as elbows and knees. Wipe off any excess barrier cream with a tissue or towel if needed.

Step 4. Open the MT3000 door, then walk into the unit and close the door.

Step 5 Get into the proper 1st tanning position stance (see figure 4A), standing as close to the MT3000 door as possible (i.e., away from the spray nozzles).

Step 6. Once in the proper position, press the green start button (located on the nozzle panel) to begin the misting cycle. **Note:** *Each misting cycle lasts for 14 seconds and starts from the bottom to the top.*

Step 7. Once the first misting cycle is complete (i.e., stops spraying), quickly get into the 2nd tanning position stance (see figure 4B) and again stand as close to the MT3000 door as possible. **Note:** *There is a 4-second delay between each misting cycle to allow time to get into the next tanning position.*

Step 8. After a 4-second delay, the MT3000 begins the 2nd position misting cycle.

Step 9. Once the unit ends the 2nd position misting cycle (i.e., stops spraying), quickly get into the 3rd tanning position stance (see figure 4C) and again stand as close to the MT3000 door as possible.

Step 10. After a 4-second delay, the MT3000 begins the 3rd position misting cycle.

Step 11. Once the 3rd position misting cycle is complete (i.e., stops spraying), quickly get into the 4th tanning position stance (see figure 4D) and again stand as close to the MT3000 door as possible.

Step 12. Once the 4th position misting cycle is complete (i.e., stops spraying), step out of the unit.

Step 13. Remove hair cap and booties, then discard them.

Step 14. Wipe barrier cream off hands using a towel or tissue. (To avoid potential streaking, make sure the towel or tissue is not the same one used to remove excess barrier cream prior to tanning.)

Step 15. With a soft towel, and different from the one used to wipe off the barrier cream with, towel dry the body.

Step 16. Get dressed!

1



Palms facing towards spray booth floor with fingers open.

Figure 4(A): 4-Position Stance 1st Position (Front Facing Towards Spray Nozzles)

2



Figure 4(B): 4-Position Stance 2nd Position (Front Facing Right-Side Panel)

3



Figure 4(C): 4-Position Stance 3rd Position (Front Facing Left-Side Panel)

4



Palms facing towards spray booth floor with fingers open

Figure 4(D): 4-Position Stance 4th Position (Back Facing Towards Spray Nozzles)

Section II: Operation

MT3000[®]'s Operational Controls/Connections

The MT3000's operational controls and connections are located on the MT3000 in four locations:

- ◆ the UIC (User Interface Controller)
- ◆ the IEC (Integrated Electronic Controller) and,
- ◆ the MT3000's back panel (Fluid/Air)
- ◆ Other External Connects.

MT3000's UIC (User Interface Controller)

The MT3000's UIC (see figure 5) is located on the outer side of the MT3000 (see figure 6). The UIC's controls are used during daily MT3000 operations. Table 1 lists the controls on the UIC and describes their functions.

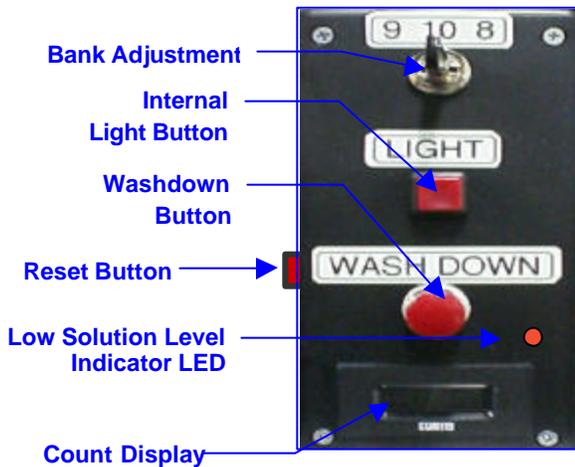


Figure 5: MT3000's UIC

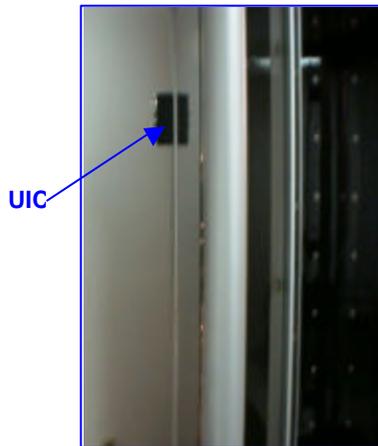


Figure 6 UIC Location (side of unit)

UIC CONTROL	DESCRIPTION
Level 1/2/3	Controls the number of banks to turn on during the misting process. Level 1 sprays using 9 banks, level 2 with 10 banks, and level 3 using 8 banks.
Internal Light	Toggle switch used to turn the MT3000's light on and off.
Washdown	When pressed, cleans out the residual mist from the MT3000.
Reset Button	Resets the MT3000 after each tanning session. If a T-Max or FST Timer is available, then the Reset Button does not have to be used.
Low Solution Indicator LED	When lit, indicates tanning solution low (see page 17 for instructions on how to add tanning solution).
Count Display	Displays the number of tanning cycles. Each tan requires 4 cycles. Divide the number displayed on the count display by 4 to get the number of tans taken.

Table 1: Description of UIC Controls

MT3000[®]'s IEC (Integrated Electronic Controller) External Controls/Connections

The MT3000's IEC is located on the back of the MT3000. Figure 7 shows controls and connections of the IEC. Table 2 describes the functions of the IEC's controls/connections.



WARNING: ELECTRIC SHOCKHAZARD. 110/220 VAC! Always disconnect power before opening the Integrated Electronic Controller (IEC) cover!!

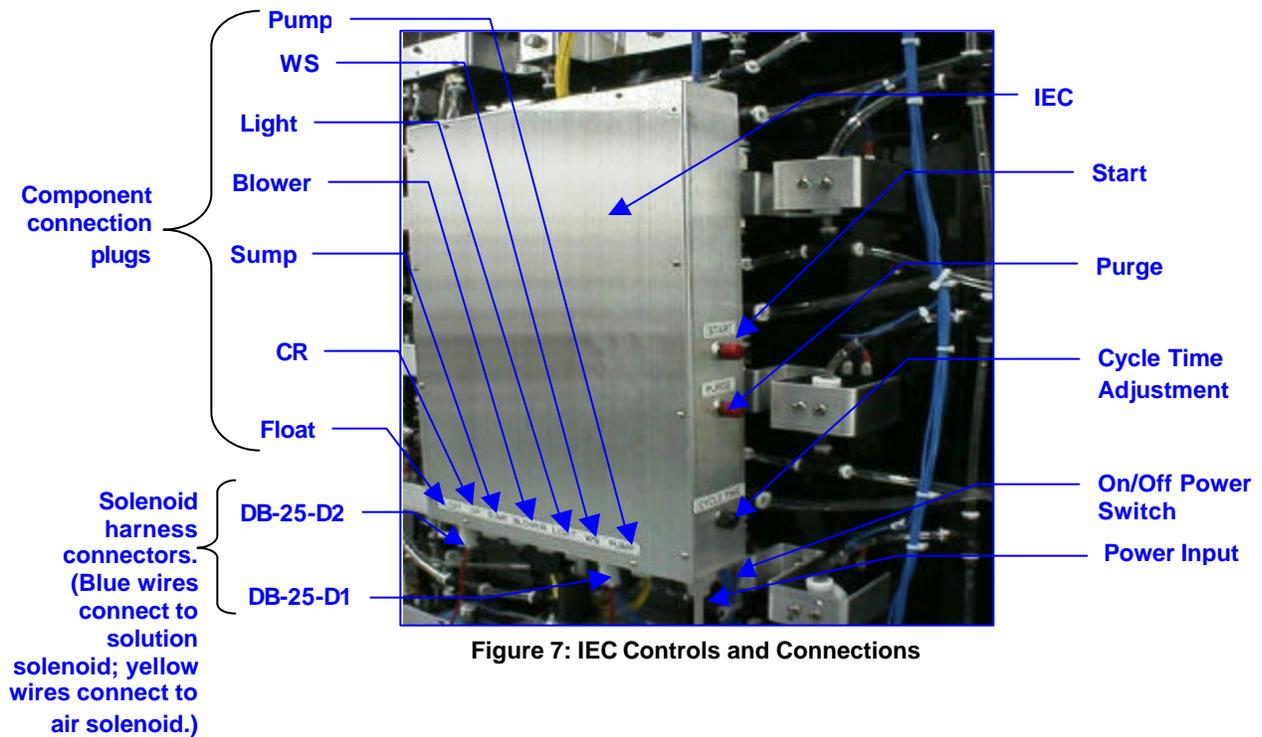


Figure 7: IEC Controls and Connections

CONTROL/CONNECTON:	DESCRIPTION:
Start	When pressed, starts the MT3000 misting process.
Purge	When pressed, passes solution through the nozzles (without air) for system priming.
Variable Cycle Time	Controls the misting process cycle time. Turning the Cycle Time Knob <i>clockwise</i> , shortens the misting process cycle time. Turning the Cycle Time Knob <i>counterclockwise</i> , lengthens the misting process cycle time. The 4' O'clock position adjusts the MT3000 for a 4-cycle session. Each cycle takes 14 seconds to complete (front, right side, back, left side).
Float	Connects to the pick-up tube that is inserted in the solution bucket. When solution level is too low, the float switch turns the MT3000 off and the solution indicator LED lights. (See figure 5 on page 9 for solution indicator LED location and page 17 for instructions on how to add solution.)
CR	Cycle Reset connection used to interface with either the Reset Button (located on the MT3000's outer side control unit, see figures 5 & 6); or a T-Max or FST Timer
Sump	Connects the safety overflow switch from the sump pump.
Blower	Used to turn the blower on to remove residual mist from the unit.
Light	Used to turn the MT3000 unit light on and off.
WS	Used to turn the water solenoid valve on and off during the washdown process (cleaning of the unit).
Pump	This switch connects to the tanning solution pump.
DB-25-D2	Connects to Wiring Harness for air/solution banks 6-9.
DB-25-D1	Connects to Wiring Harness for air/solution banks 1-5.
On/Off	Toggle switch used to turn the MT3000 on and off. Putting the switch in the (O) position, turns the unit off, while the () position, turns the unit on.
Power Receptacle	Receives power plug connection (110/220 VAC).

Table 2: Description of IEC Controls/Connections

Controls on the MT3000[®] Back Panel (Fluid/Air Controls)

Fluid/Air Controls are located on the back of the MT3000 below the Integrated Electronic Controller (see page 3 for IEC location). These controls are used to set the amount of solution and air applied during the misting process. See figures 8 & 9 for location of fluid/air controls and table 3 for their descriptions.

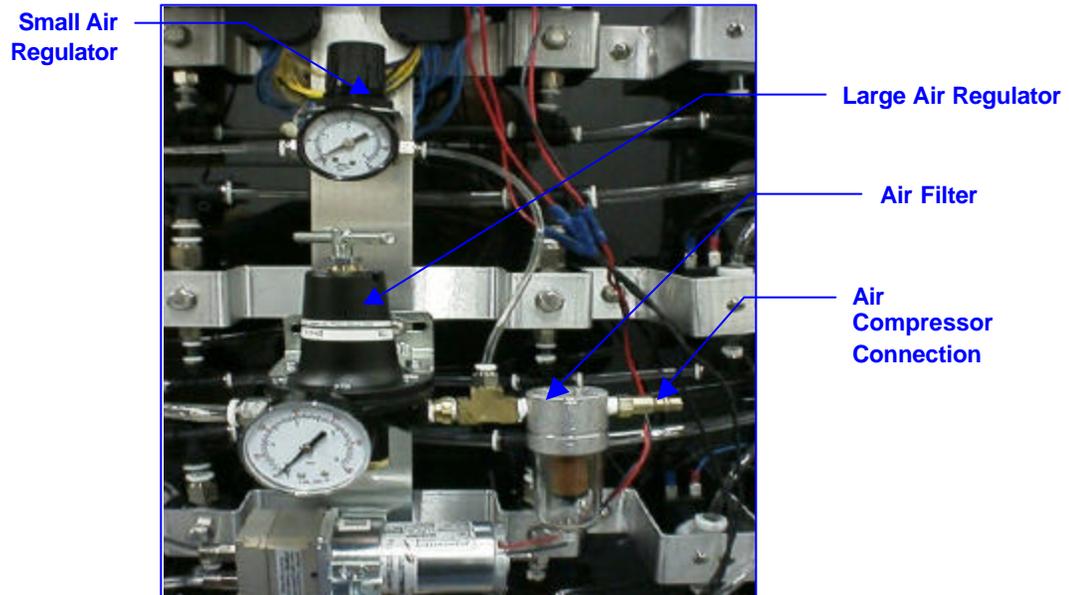


Figure 8: Location of Fluid/Air Controls (A)

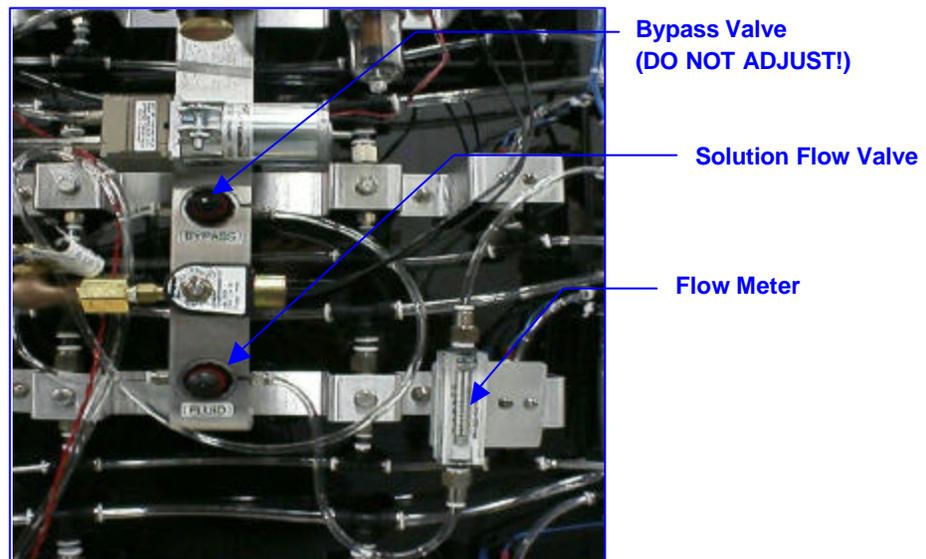


Figure 9: Location of Air/Fluid Controls (B)

Control	Description	Desired Setting
Air Pressure Regulator (small)	Controls the pilot pressure to the air solenoids.	40 psi
Air Pressure Regulator (large)	Controls the atomization of the solution solenoids.	37 psi while spraying.
Air Compressor Connection	Quick disconnect air supply from air compressor	N/A
Air Filter	Used to drain excess water (see Maintenance section, page 23, for instructions).	N/A
Flow Meter	Used to measure solution flow rate (gph) through the system.	8 gph. (May vary depending on solution type.)
Flow Rate	Bypass: valve that controls the recirculation flow rate and line pressure.	Set at Factory. Do not adjust the bypass valve!!
	Fluid: valve that controls the solution flow rate.	See pages 15 & 16 for fluid settings/adjustments.

Table 3: Description of Fluid Controls

Other External Connections

Other external connections are located at the back of the MT3000™ and consist of:

- ◆ a Vent Hose/Discharge Blower Connection, and
- ◆ a Sump Pump Discharge Connection.

See figure 10 for location of the above external controls and table 4 for their descriptions.

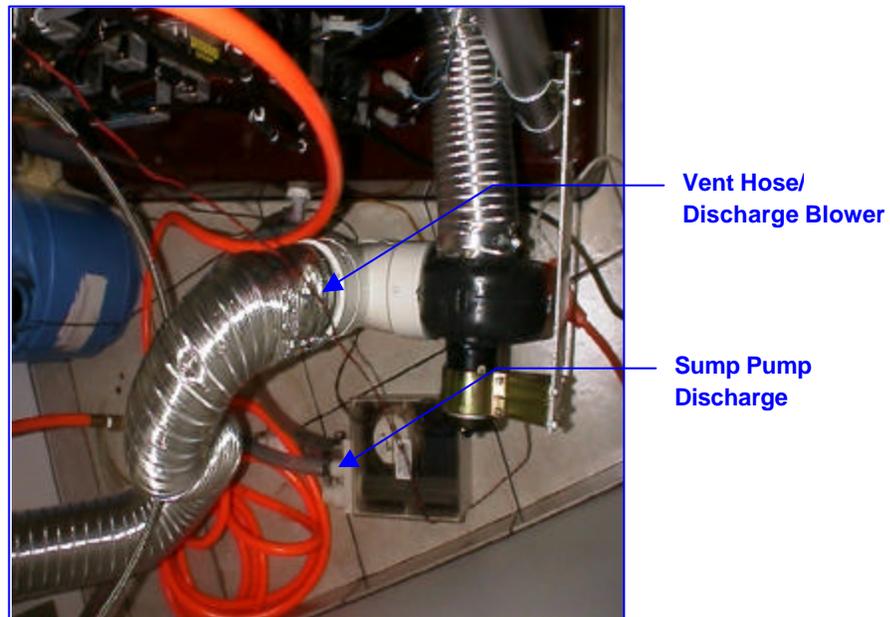


Figure 10: Location of Other External Connections

Control	Description
Vent Hose/Discharge Blower	Used to direct exhaust outside the building. 4" diameter dryer vent hose.
Sump Pump Discharge	Used to discharge excess mist to wastewater drain. 3/4" Tubine.

Table 4: Description of Other External Connections

Settings And Adjustments

Table 5 describes recommended settings for the various setting and adjustments on the MT3000™. **Note:** *It is advisable to consult a MagicTan representative before attempting to change any of the desired settings and adjustments on the MT3000. DO NOT ADJUST BYPASS VALVE.*

Control	Description	Desired Setting
Air Pressure Regulator (small)	Controls the pilot pressure to the air solenoids.	40 psi while spraying.
Air Pressure Regulator (large)	Controls the atomization of the solution.	37 psi while spraying. See page 16 for additional information.
Flow Meter	Used to measure solution flow rate (gph).	8 gph. (May vary depending on solution type.) Used to adjust the fluid valve.
Flow Rate	Bypass: valve that controls the recirculation flow rate.	Set at factory. Do not adjust the bypass valve!!
	Fluid: valve that controls the solution flow rate.	Adjust until flow meter reads 8 gph while purging the first bank of nozzles.
Variable Cycle Time	Controls the misting process cycle time	Turning the cycle time knob <i>clockwise</i> , shortens the misting process cycle time. Turning the cycle time knob <i>counterclockwise</i> , lengthens the misting process cycle time (see figure 7, page 10, for cycle time knob location). Set the cycle time so that it takes 14 seconds to spray from bank 1 to bank 9. This is typically achieved by setting the cycle time knob at the 4 O'clock position.

Table 5: MT3000 Settings & Adjustments

Adjusting Large Regulator Air Flow



IMPORTANT: Do NOT Adjust without first contacting a MagicTan Representative.

Follow These Steps to Adjust the Large Regulator Air Flow:

Step 1. Loosen lock nut on top of the large regulator to adjust air flow (see figure 8, page 12, for large air regulator location).

Step 2. Press the *Start* Button on (IEC). (See figure 7, page 10, for location.)

Step 3. Check the gauge reading on the Large Air Regulator. It should read 37 psi while the system is spraying. If the gauge does not read 37 psi, then adjust the setting by turning the “T” handle located on top of the large air regulator until the gauge reads 37 psi. Counterclockwise reduces air pressure; clockwise increases air pressure. The system should maintain spraying at 37 psi throughout the complete cycle.

Note: *Always make the adjustment while the system is running/spraying.*

Purging/Adding Tanning Solution

★ **IMPORTANT:** Purge the MT3000[®] before initial operation.

The purging process removes the air from the MT3000's solution line tubes and replaces it with tanning solution. Purging is required before initial operation and when changing to a different type of solution.

Follow These Steps to Purge Your MT3000 for the First Time (refer to figures 11 and 12, page 18):

Step 1. Turn *Power* switch On.

Step 2. Place the pickup tube into the solution reservoir.

Step 3. Press and hold the *Purge* button. Once *Purge* is pressed, the MT3000's first solution solenoid valve opens and fills the solution lines with tanning solution. Continue to hold the *Purge* button until solution is flowing evenly out of each of the nozzles on the first bank, and then release the *Purge* button.

Note: the outer nozzles take longer to purge than the inner nozzles.

★ **IMPORTANT:** Visually inspect the solution lines to make sure there are no air bubbles. Air bubbles degrade the spray quality of the MT3000.

Step 4. Press and hold *Purge* a second time to fill the MT3000's second solution solenoid valve with tanning solution. Release the *Purge* button once tanning solution is flowing evenly out of each of the nozzles on the second bank.

Step 5. Continue to press and hold *Purge* until all banks are filled with tanning solution.

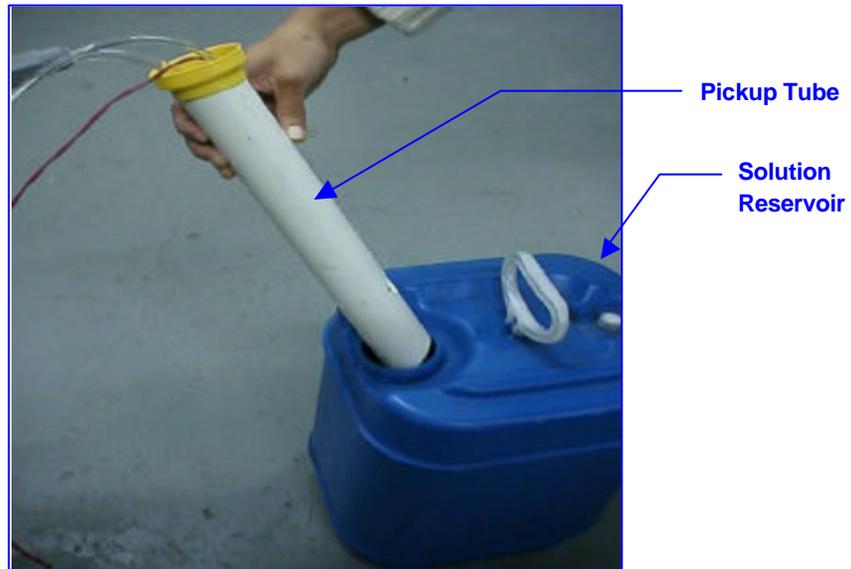


Figure 11: Pickup Tube & Solution Reservoir

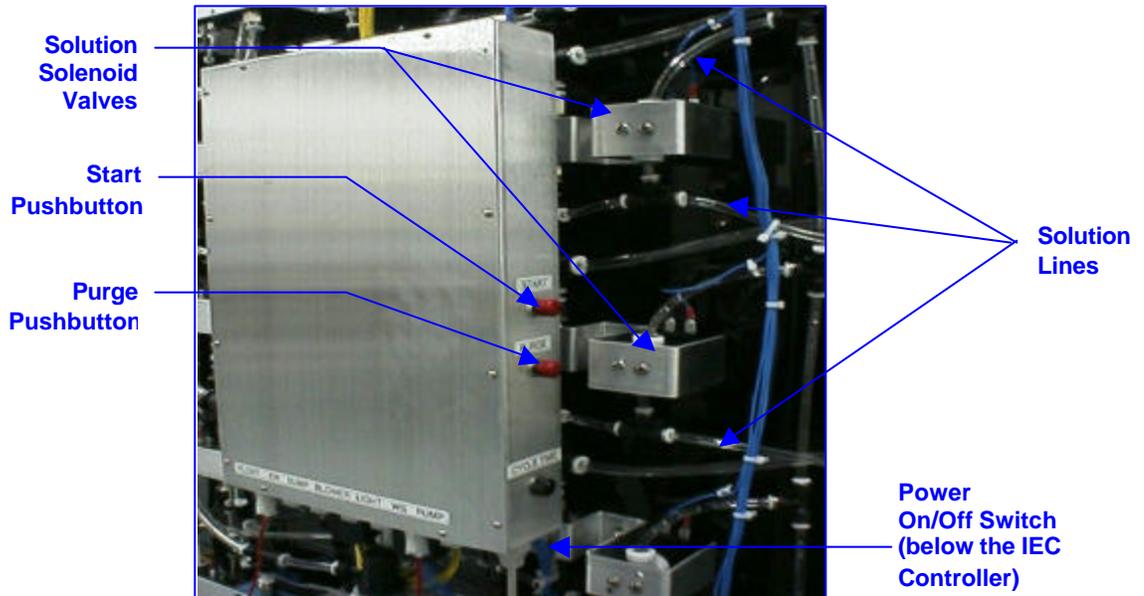


Figure 12: Location of Purge Pushbutton, Solution Lines, & Solution Solenoid Valves

Changing the Solution Reservoir with the Same Solution

The solution reservoir will need to be replaced when the low solution indicator lights (see figure 5, page 9, for low solution indicator light location.)

Follow These Steps to Change the Solution Reservoir with the Same Solution:

Step 1. Pull the pickup tube assembly (see figure 11, page 18) from the current solution reservoir.

Step 2. Remove the cap from the new solution reservoir, then drop in the pickup tube assembly.

Step 3. Tighten the cap on the old solution reservoir.

Note: *There will still be solution left in the old solution reservoir, which can be poured into the new solution reservoir, once there is sufficient room in the new solution reservoir.*

Step 4. Purge the first bank of nozzles to remove any air caused by lifting the pickup tube from the solution bucket. Follow the instructions as described on page 17 for the first bank only.

Note: *There will still be solution left in the old solution reservoir, which can be poured into the new solution reservoir, once there is sufficient room in the new solution reservoir.*

Changing the Solution Reservoir with Different Solution

Follow These Steps to Change the Solution Reservoir with Different Solution Or to Clean Out Fluid Lines with Water:

Step 1. Turn *On* Power switch on the IEC (bottom). See figure 12, page 18, for Power On/Off switch location.

Step 2. Purge system with *warm* water by placing the pickup tube (see figure 11 on page 18) into a bucket of water, then follow the purging instructions as described on page 17 until all solution lines are cleaned and filled with water.

Step 3. Wipe off the pickup tube assembly, then place it into the new solution reservoir.

Step 4. Purge system with the new solution as described on page 17.

Section III Troubleshooting

If a problem occurs with your unit, please review the troubleshooting section below. If problems continue, please call your nearest MagicTan distributor for assistance.

If this happens	Do this:
Unit will not start.	<ul style="list-style-type: none"> ◆ Make sure the machine is plugged in and powered On. (The internal light will be lit if powered.) ◆ Make sure the reset mechanism is working properly (T-Max, FST Timer, or remote pushbutton reset) ◆ Turn Off power for 10 seconds, then turn power back On to reset circuit board. (See page figure 7, page 10, for power switch location.)
Low Level Indicator is On	<ul style="list-style-type: none"> ◆ Replace solution reservoir (see page 19 for instructions).
Machine “squirts” out solution in stream without mist.	<ul style="list-style-type: none"> ◆ Check air pressure on the large and small regulator gauges located on the back of the MT3000™ (see figure 8 on page 12 for locations). The small gauge should read 40 psi. The large gauge should read 37 psi while spraying. If air pressures are lower, check air compressor connections and its circuit breaker. Also, see page 16 on how to adjust the large air regulator air flow. ◆ Bleed any water out of the air compressor tank. Refer to the air compressor's owner's manual for instructions.
No solution coming out of nozzles-- just air.	<ul style="list-style-type: none"> ◆ Press the Purge button (see figure 7, page 10 for Purge button location). If no solution comes out of nozzles, contact your MagicTan Distributor. Make sure there is NO air in the solution lines (see Purging Section, page 17).
Light will not turn On.	<ul style="list-style-type: none"> ◆ Replace light bulb. Contact local distributor for replacement bulbs.

Section IV Maintenance

System Cleaning

The MT3000[®]

- ◆ The MT3000 should be cleaned at least once a day. To clean the unit, press the Washdown button located on the UIC (outer side of unit).
- ◆ Periodically wipe unit down with a soft towel or squeegee.

Solution Lines

- ◆ Solution lines should be cleaned (purged) with *warm* water once every 2 months for optimal performance. It is best to do this just before changing the solution bucket. (See page 17 for purging instructions.)

Floor Drain

- ◆ Remove any lint or fuzz from the floor drain screen.
- ◆ Once a week, pour a gallon of hot, soapy water down the floor drain.

Component Maintenance

Air Filter

- ◆ Drain air filter periodically (see figure 8, page 12, for air filter location). To drain the air filter either (depending on the type of air filter installed) push up on the pin (located on the bottom of the air filter) and hold until all the water drains; or loosen (with your thumb) the screw (located on the bottom of the air filter) until all the water drains, then tighten the screw.

Air Compressor

- ◆ Follow air compressor owner's manual for required maintenance.
- ◆ The air compressor tank will need to be drained periodically. Water will build up in the tank from moisture it collects from incoming air. See the air compressor's owner's manual for draining the air tank.

Replacement Parts

- ◆ Contact your nearest MagicTan distributor for replacement parts.