
BUBBLE BUDDY™

Operating Instructions

P/N 100189 (110 VAC)

Thank you for purchasing this BUBBLE BUDDY™

- **As you will notice from the table of contents, the manual for your new product is quite extensive.**
- **To guarantee perfect and successful work with this machine, please take some time to read the manual carefully.**
- **And finally, we believe you will enjoy years of great bubble effects if you care for and maintain your BUBBLE BUDDY™.**

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1. Set of Equipment Supplied

- **Bubble Buddy™**
- **Hanging Bracket**
- **Remote with cycle-timer and 25' (7.6m) cord OR DMX Control**
- **Power cord**
- **Operating Instructions Booklet**

2. Accessories and Parts

- **Bio-Bubble Fluid™ P/N 150810 and Bubblessence™ P/N 150131 (available in quarts (0.95 liter), gallons (3.8 liter), 5-gal. (19 liter) cubitainer & 55-gal. (208 liter) drum)**
- **Director Junior Fan (P/N 100130)**
- **Universal DMX relay (15 A, 1-channel) 3-pin XLR connection P/N 250041**
- **Bracket, clamps with bolts, C-clamp and safety cable P/N 250155**
- **Wireless Remote Control (P/N 250010)**
- **DMX Control with phono plug (P/N 250038)**

Please check whether all the products you ordered are supplied.

3. Description of the Bubble Buddy™

The Bubble Buddy™ produces a steady stream of small, uniform, 1" (2.5cm) bubbles. The size and uniformity of the bubbles, makes them unique and fun to watch. You can use the Bubble Buddy™ with an optional Universal DMX Controller, or ask to substitute the Remote for the DMX controller. Use the long distance Director Jr. Fan™ for 40' (12m) launch of bubbles or the Director Fan™ for 70' (21m) distance. The Bubble Buddy™ comes with a 25' (7.6m) remote and cycle-timer.

4. Safety Instructions

WARNING: Read and understand all labels and operating instructions before attempting installation.

- o Never open the machine without disconnecting power lead first! **Risk of electrical shock-** This device is supplied with a grounding conductor. To reduce risk of electrical shock, connect only to properly grounded, grounding type receptacles. Never remove the third prong from the plug.
- o Do not overfill your Bubble Buddy™. Overfilling will cause the unit to leak, and present the danger of electric shock.
- o Keep this device dry.
- o Keep the Bubble Buddy™ upright and level.
- o Turn off or unplug when not in use.
- o This machine is not waterproof or splash proof.
- o No user serviceable parts inside. Refer to your dealer or other qualified service personnel.
- o For indoor use only. Not designed for outdoor use.
- o For adult use only. The Bubble Buddy™ must be installed out of the reach of children. Never leave the unit running unattended.
- o Never aim the output at open flames.
- o Extended use in one location without a fan, will make all surfaces slippery.
- o Position output of bubbles away from persons.
- o Unplug the machine when refilling the liquid or cleaning the system.
- o Do not transport with liquid. If the machine gets wet, do not use until it is completely dry.
- o Do not store Bubble Buddy™ in freezing conditions.

5. Operating the BUBBLE BUDDY™

5.1 Selecting the Location

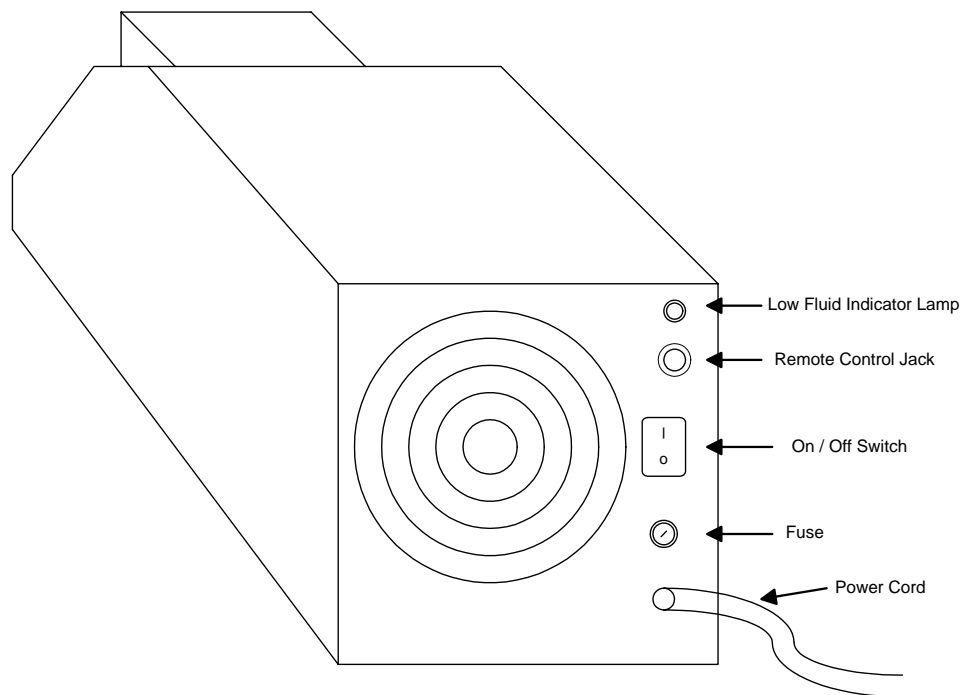
Place bubble machine on a flat surface, or hang it in a horizontal position only. Keep the Bubble Buddy™ upright and level. Allow an open area in front of the machine for the bubbles to disperse. Use a fan such as the Director Junior™ pointing up from below to disperse bubbles further. If hanging, ask for the fan mounts to hang also. This gives an array of bubbles displayed much further and will reduce residue.

5.2 Electrical Power Requirements

This machine requires a well-grounded 110VAC circuit for operation. The Bubble Buddy™ draws approximately 2 amps at 110 VAC. For 230 VAC, a transformer is necessary. Do not plug into 230VAC without first using the transformer.

5.3 Hooking things up

Input stereo phono-plug into rear of machine. Turn on power to machine. To start/stop machine, use controls or cycle-timer on remote. (See section 5.5 and 5.9 if you are using the DMX Control.)



5.4 Operating the machine

1. Add Bio-Bubble™ or Bubblesence™ fluid by slowly pouring into front tray until $\frac{3}{4}$ full. Do not overfill! Bubblesence™ adds scent to create the fourth dimension in colorful bubbles.
2. When the power switch is turned on, the light on the switch will illuminate. You may use the on/off switch on the machine without the Remote Control (or the DMX Control) plugged in. When the machine is turned on without the remote, you will notice that the internal bubble drum and fan are activated. Bubbles are now produced. It is possible to control the bubbles with the optional wireless remote control (110VAC only) from 50ft – 75ft (15m – 30m).
3. For cycle-timing of the machine, you must use the Remote Control. The red “on/off” button must be depressed for “Timer” or “Bubble” functions to work. The fan and bubble drum come on when the timer cycle begins and goes off when the cycle ends. The fan and drum go on or off each time you press “Bubble” for short bursts of bubbles.

5.5 Optional DMX Control

With optional DMX control, you will be able to turn the Bubble Buddy™ on/off. (See section 5.9 for more details on DMX operation.)

5.6 Rest Period

This machine can be run continuously until the reservoir is empty. Unplug the machine when refilling the liquid or cleaning the system. Extended use in one location without a fan, will make all surfaces slippery. Periodically, check surrounding area for safety.

5.7 Shut down

Regular cleaning of the bubble wheel is required. To clean, add warm water to the tray and turn on machine, allowing the wands to be completely submerged over and over for ten minutes. Change the water frequently until clean wands appear. Then dry the machine with a paper towel prior to storage. Always draw out the fluid with a turkey baster or similar device. (See section 6, Service and Maintenance.) If unavailable, remove the two screws on each side near the front. Carefully pull up on the top, holding the base flat. When liquid tray is exposed, remove it and wash before replacing.

5.8 Troubleshooting

1. **If the unit does not light up when plugged in** (power switch), check power supply, then check fuse. Check connections. If this does nothing, disconnect power and call for service.

2. **When I plug in the remote stereo phono plug, it keeps running.** Check to be sure buttons on remote are not depressed. A small switch inside of the phono jack turns off the machine when plugged fully into socket.
3. **How do I attach the DMX?** (see section 5.9).
4. **When I plug in the remote, I have no control.** If the connection is loose, it is possibly broken. Wiggle the phono plug to check tightness. If loose, you may need a new circuit board.

5.9 Notes on Optional DMX operation

Each DMX'd unit will occupy a unique DMX address on the DMX chain. By adjusting the dip switches on the side of the DMX controller, the user may assign one address to the machine, giving you on/off control with one DMX channel (there is no timer on this DMX).

Step 1). Attach the DMX cable phono plug to the upper "in" female connector located on the back of the machine.

Step 2). The DMX address is configured by adding the dip switch numbers together to total the number required (binary numbers). For example, DipSwitch 1 + 6 = 33. Your DMX channel would be 33.

Dip Switch	1	2	3	4	5	6	7	8	9
Channel #	1	2	4	8	16	32	64	128	256

When you move the slide control or digital control to approximately the 50% position the fan will turn on.

0 – 50% = Off
 51– 100% = On

Attaching DMX cable: "Input" and "Output" designations on the DMX 5-pin XLR connectors are arbitrary (i.e., you can use the input plug for output and visa-versa). It is not necessary to attempt converting your DMX line's connector to female/male to match the appropriate socket on the plug. As long as it is looped in/out, it will work.

6. Service and Maintenance

Care of your Bubble Buddy™ will give you years of service. Note: cleaning your unit is going to pay off in constant good performance.

1. Regular cleaning of the bubble wheel is required. To clean, add warm water to the tray and turn on machine, allowing the wands to be completely submerged over and over for ten minutes. Change the water frequently until clean wands appear.
2. To access the tray, loosen the two thumbscrews and remove the two adjacent retention screws and lift the top. After cleaning, reinstall the retention screws and tighten the thumbscrews. **THE RETENTION SCREWS MUST BE IN PLACE IF THE MACHINE IS TO BE HUNG BY THE HANGING BRACKET.** Never hang without ALL of the screws in place.
3. Dry the machine with a paper towel prior to storage.
4. Do not transport or ship with bubble fluid inside the machine.
5. Disconnect the remote or DMX control box before moving. This may be broken if pulled or bumped.

7. Technical Data

Bubble Buddy™ Technical Data P/N 100189	
Dimensions	14" x 7" x 7" (36cm x 18cm x 18cm)
Weight	12 lb (5.5 kg)
Shipping Dimensions	16" x 10" x 12" (41cm x 26cm x 31cm)
Shipping Weight	14 lbs (6.4 kg)
Remote Controls	Remote Cycle-Timer or optional DMX
Electrical Requirements	110VAC, 2 A 230VAC with transformer only
Bubble Size	1" (2.5cm) uniform bubbles
Wands	2 wheels with 16 wands each
Reservoir	Holds 3.5 cups (0.8 liter)
Fluid Type	Bio-Bubble Fluid™ P/N 150810 and Bubblesence™ P/N 150131 (available in quarts (0.95 liter), gallons (3.8 liter), 5-gal. (19 liter) cubitainer & 55-gal. (208 liter) drum)
DMX (optional)	Optional 1-channel with phono plug
Remote Cycle-Timer (included)	On/off on manual momentary button Cycle-timer = 1 - 11 seconds. "on", 0.2 - 5 minutes. "off"
Limited Warranty	One year
Rev: 09/30/03	

8. Limited Warranty Conditions for the BUBBLE BUDDY™

- 1. Subject to the following conditions we will repair any defect or fault in the unit if it is caused by a proven factory fault and has been advised immediately after appearance and within 30 days of delivery to the end user. Insignificant deviations of the regular product quality does not guarantee replacement rights, nor do faults or defects caused by water, by generally abnormal environment conditions or Force Majeure.**
- 2. Limited Warranty Service will be done in the following way: Faulty parts will be repaired or replaced (our choice) with correct parts. Faulty units have to be shipped to us or sent to us at customer's expense. The RMA# has to come with the faulty unit.**
- 3. The customer loses all rights for limited warranty services, if any repairs or adjustments are done to the units by unauthorized persons and/or if spare parts are used, which are not approved by us. The right of limited warranty service is also lost if a fluid other than CITC Bio-Bubble Fluid™ or Bubblessence™ fluid has been used or if units are sent to us without removing fluid. Also non-compliance with the instructions in this manual or mistakes by incorrect handling/treating of the machine, any faults and damages caused by undue force will lead to a loss of limited warranty.**
- 4. Freight costs to CITC when under the limited warranty services are the responsibility of the customer. CITC will pay freight upon return.**
- 5. Limited warranty services do not cause an extension of the limited warranty time or the start of a new limited warranty time. The warranty of replaced parts ends with the limited warranty time of the whole unit.**
- 6. If a defect/fault can not be repaired by us in a satisfactory time, we will, within 30 days after sale of the unit, our choice either:**
 - Replace the whole unit for free or**
 - Refund the lesser value or**
 - Take back the whole unit and refund the purchase price, but not more than the usual market price at the time of refund.**
- 7. Further claims, especially for damages, losses etc. outside the unit are excluded.**

If you should send the unit for service, do not forget to remove any liquid from the fluid bottle. Obtain your RMA# by calling CITC. Payment arrangements for repair must be made before receiving RMA # in case unit is not covered under Limited Warranty.

Send unit to:

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