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# **SUPER FOAM DOME™**

## **Operating Instructions**

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**P/N 100211 (120 VAC)**

## **Thank you for purchasing this SUPER FOAM DOME™**

- **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 foam effects if you care for and maintain your SUPER FOAM DOME™.**

**CITC**

**1420 80<sup>th</sup> St. SW #D**

**Everett, WA 98203**

**(888) 786-CITC**

**[www.citcfx.com](http://www.citcfx.com)**

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# 1. Set of Equipment Supplied

- 1 Super Foam Dome™ Unit
- 1 Super Foam Dome™ pump with fittings
- 4' garden hose with male end for pump intake
- GFI Box Assembly
- 25' plastic tubing w/2ea push-con fittings
- Kit: Gloves, safety goggles and bolts
- “Keep Foam Fun” Safety Banner
- Instruction booklet, catalog, warranty card
- Shield set
- Note: you will need to provide a 55 gal. plastic barrel with at least a 2” opening

# 2. Accessories

- Foam Dome™ Fluid Concentrate P/N 150135
- Foam Dome™ Outdoor Fluid Concentrate P/N 150125  
Note: mix 1 gal. concentrate with 50 gallons water
- Foam Dome™ Fluid Ready-to-Use P/N 150110 (gallon)
- Tower Stand System (includes 2 telescope towers with 10' truss and T-bars P/N 250135)

Please check whether all the products you ordered are supplied.

# 3. Description of the Super Foam Dome™

The Super Foam Dome™ makes massive amounts of foam (500 cubic feet per minute (14m<sup>3</sup>/min)) quickly and harmlessly with its high-powered quiet fan. It will actually fill a 20' x 20' x 6' pit in less than 5 minutes. The improved white modulator has a thicker, higher output of foam. You can dance in it, ride through it and make clouds and snow effects with it. The Super Foam Dome™ uses a clean, white, harmless, biodegradable fluid, which will last 5 to 10 minutes in dry conditions and dry in six to eight hours. The Super Foam Dome™ is great for nightclubs, amusement park rides and special events. It works well in combination with colored lighting. The Super Foam Dome™ should be deployed over a non-skid surface such as indoor/outdoor carpeting.

## 4. Safety instructions

- o **RISK OF ELECTRICAL SHOCK:**
  1. Keep all electrical appliances away from the foam area.
  2. Do not touch Super Foam Dome™ or GFI switching device when wet.
  3. This device is to be used on normal distribution systems 120 VAC/60Hz/20A. This device is designed to be used with the supplied Ground Fault Interrupter (GFI). The GFI has a grounding conductor. To reduce risk of electrical shock, connect only to a properly grounded, grounding type receptacle. Never remove the third prong from the plug on the GFI, the pump or the Super Foam Dome™ unit (fan).
  4. Be aware of foam accumulations near the Super Foam Dome™ electrical source/power box. Since the Super Foam Dome™ is a very high output unit capable of extreme volumes of foam, place in an area, which allows full relief of foam from nozzle (front outlet) in all directions.
  
- o **NOTES ON GROUND FAULT INTERRUPTER (GFI):**
  1. This GFI is a safety device, do not use the test and reset buttons as an on/off switch.
  2. All Ground Fault Circuit Interrupters (GFI) do not protect against electrical shock resulting from contact with both current-carrying conductors of an electrical circuit.
  3. Do not connect any extension cord longer than 100 feet to the GFI output to avoid the possibility of nuisance tripping.
  4. Test frequently and before each use to ensure proper operation, by following operating instructions in section 3.2.
  5. DO NOT USE where water may enter GFI case.
  6. DO NOT MODIFY OR IMMERSE this device.
  7. DO NOT EXCEED electrical rating.
  
- o **SLIP HAZARD:** After turning on the switch on the GFI, the machine will slowly start spraying small amounts of fluid, saturating the modulator with fluid. Once saturated, large volumes of foam will appear and continue to increase in size all around the modulator. The slippery substance of foam on a slick floor can create a dangerous environment, which could cause someone to fall. For safety reasons, the makers of the Super Foam Dome™ require using this machine or Foam Dome™ Fluid on a non-slip surface such as indoor/outdoor carpeting, turf, or asphalt.
  
- o **WARNING:** NEVER plug pump in without Super Foam Dome™ unit (fan) being on. Electrical damage to your motor will occur and as this would immediately void the one-year warranty.
  
- o **GLASS:** No glassware or breakables allowed in foam area. If glass breaks in foam area, evacuate all persons immediately until cleaned up.
  
- o **SUPERVISION:** No pushing, shoving or horseplay allowed. No diving, running or body bowling. Intoxicated individuals should leave foam area.
  
- o **EXPOSURE TO FOAM:** Avoid prolonged eye contact. Wash eyes with water if irritated. Always rinse body after having contact with foam just as you would after contact with soap, to prevent excess drying of skin. If irritation or allergic reaction occurs, individual should leave foam area immediately and wash irritated area. Do not wear soaked clothing for more than 4 hours without rinsing.

## 5. Operating the Super Foam Dome™

**WARNING:** FAILURE TO FOLLOW ALL SAFETY RULES AND INSTRUCTIONS LISTED BELOW MAY RESULT IN SERIOUS INJURY TO YOURSELF OR OTHER PARTICIPANTS OF THIS EFFECT.

### 5.1 Selecting the location

1. The slippery substance of foam on a slick floor can create a dangerous environment, which could cause someone to fall. For safety reasons, the makers of the Super Foam Dome™ require using this machine or Foam Dome™ Fluid on a non-slip surface such as indoor/outdoor carpeting, turf, or asphalt.
2. Make sure unit is in a well-supported and secure location before supplying power and fluid to unit. Shield should be facing the floor with the modulator (sock) pointing straight down. Never point modulator upward as this would cause electrical damage and ruin your unit.
3. The height of the machine above the drum decides how fast it will pump fluid. The higher the machine, the slower the fluid will flow through to the Super Foam Dome™. This unit is designed to be suspended 12' to 16' above the floor with the fluid on the floor. Never place fluid reservoir level with or higher than the Super Foam Dome™ as this will cause siphoning and dripping and will not stop fluid when turned off.

### 5.2 Electrical Power Requirements

1. This machine requires a grounded 120VAC/20A circuit for operation. The Super Foam Dome™ draws approximately 20 amps at 120 VAC. During Super Foam Dome™ operation this circuit should be dedicated to the Super Foam Dome™. If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.
2. **You must have both units connected through the Ground Fault Interrupter (GFI) in order to use this device.**
  1. Plug GFI into a well-grounded 120VAC/20A circuit. If you have any doubt about the circuit's safety ground, plug-in testers are available to test the outlet. If in doubt, discontinue trying to power this unit until the outlet can be checked by an electrician.
  2. With the power switch in the OFF position, verify that the red LED in the plug turns on.
  3. Press the test button, and verify that the red LED in the plug turns off.
  4. Press and release the reset button, and verify that the red LED indicator turns on.
  5. The GFI is now ready for use.

**WARNING:** If the GFI fails to trip (turn off) when the test button is pressed, or fails to reset (turn on), the device is defective and should be replaced.

  - o **NOTE:** If the GFI tests properly without a load applied, but trips each time a load is connected, then the load has a ground fault condition and needs to be repaired or replaced. **DO NOT BYPASS THE GFI IF THIS CONDITION OCCURS, A REAL SHOCK HAZARD MAY EXIST.**

3. **IMPORTANT!** Be aware of foam accumulations near the Super Foam Dome™ electrical source/power box. Since the Super Foam Dome™ is a very high output unit capable of extreme volumes of foam, place in an area, which allows full relief of foam from nozzle (front outlet) in all directions.

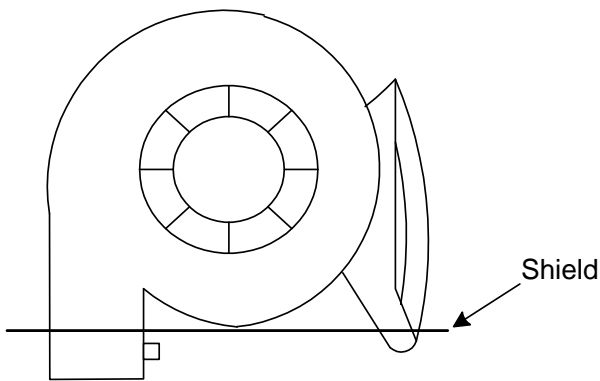
### 5.3 Hooking things up

1. Unpack crate and remove packing materials. Inspect Super Foam Dome™, pump and GFI for any damage and notify CITC immediately if any problems occurred during shipping.
2. Hanging clamp is located behind the handle in the back. The safety cable is for properly hanging the unit. Locate in open area for foam to drop to the floor. Before hanging, test the fan in the Super Foam Dome™ unit to check for quiet operation. Hang vertically so the fluid nozzle is facing down toward the floor. The fan unit should spin freely without rubbing.
3. Mix fluid according to instructions. Never use concentrated fluid in this machine! Use either a plastic 50-55 gal. drum (metal will rust), or use a clean trash container heavy enough to hold that much water. Note: Water weight is 500 lbs! While using eye protection and rubber gloves, clean container if necessary and fill with 50-55 gals. of warm water first, then the 1 gal. of concentrate (use 12.8 oz of concentrate for 5 gal test). Mix by stirring without agitating. See warning statement (below) about proper safety features. Lower the hose from pump with hose attached to the pump into drum full of Super Foam Dome™ Fluid. Connect hose from the pump to the input hose connection on the Super Foam Dome™. Be sure rubber washers are always in place inside the hose connection before connecting. DO NOT SUBMERGE THIS PUMP.

**WARNING when mixing Concentrate: USE ONLY AS DIRECTED. Handle concentrate with care.** Avoid contact with eyes. Concentrate is irritant to eyes. Wear eye protection and gloves when mixing. If concentrate contacts eyes, immediately wash with plenty of water, lifting eyelids for 15 minutes. Consult a physician. If contact with skin, wash with water. Prolonged contact with skin may cause irritation. Wash with water. If clothing is wet with material, change to clean clothes and wash affected skin. Not food quality. Do not ingest. If ingested, treat as dish soap. Odor from this product may be irritating to some individuals. Discontinue use and remove to fresh air. As with all surfactants, care must be used at all times. Rinse with plenty of water if contact occurs. Contact CITC for further questions or copies of the MSDS at 1-888-786-CITC or see it posted on our website at [www.citcfx.com](http://www.citcfx.com) under MSDS.

4. When running the hose from the pump back to the Super Foam Dome™, run the power cord from the Super Foam Dome™ unit (fan) with the hose all the way back to the Super Foam Dome™ making sure to keep them separated. The pump and the Super Foam Dome™ will then both be plugged into the GFI. Be sure the power switch is in the OFF position before plugging in the pump. When powering up the Super Foam Dome™ unit (fan), note that the fluid will take some time to travel out before foam is produced. Never plug the pump into a wall outlet. It must be plugged into the outlet on the GFI to insure that the pump does not come on unless the fan is on.

5. It is important to deploy the plastic shield enclosed in the unit. This plastic shield prevents most of the foam or bubbles from being sucked back inside the Super Foam Dome™ fan intake. Slide the shield half #1 onto the fan outlet, behind the modulator (sock) and under the tip of the molded handle located on the blower and molded strip under machine. Slide the shield half #2 onto the other side so that they come together. A hole lines up with hole from the other shield. Place the small bolt through the hole to connect the washer and nut. Tighten the nut securely, locking the shield in place.



6. Make sure unit is supported and secure before supplying power and fluid to unit. Shield should be facing the floor with the modulator (sock) pointing straight down. Never point modulator upward as this would cause electrical damage and ruin your unit.

#### 5.4 Operating the machine

1. Review electrical connections: The red power switch should be OFF. The GFI should be plugged into a properly grounded outlet. Plug both the Super Foam Dome™ and the pump from the barrel into the GFI. Both units need to always come on at the same time.
  - o **Warning:** You must have both units connected through the GFI in order to use this device. Do not attempt to use the Super Foam Dome™ without the GFI as shock or shorts could occur.
  - o **Never turn on the pump without the Super Foam Dome™ fan.** This will cause fluid to pour from fan area to floor. Unplug the pump if needing to test only the fan. When done, switch GFI off and plug pump in to GFI to operate the system by switching on the pump and Super Foam Dome™ fan at the same time. **Never operate without all lines and hoses attached.**
2. Unit will turn on when you switch on the red power switch on the GFI. The machine will slowly start spraying small amounts of fluid, saturating the modulator with fluid. Once saturated, large volumes of foam will appear and continue to increase in size all around the modulator.
3. Note: This unit has a GFI (Ground Fault Interrupter) for electrical safety purposes. Do not remove this or open the GFI box, as this may cause serious electrical shock. Keep machine in a downward vertical position to allow fluid to flow out the front nose area (slightly tilted toward front). Do not run pump if fluid is unavailable. This may damage the pump.

4. The pump uses 5 gallons in about 5 minutes. A 55-gallon drum of fluid will last about 55 minutes. The Super Foam Dome™ will produce 500 cubic feet (14m<sup>3</sup>) per minute of foam, filling a 20' x 20' x 6' volume in less than five minutes.

## 5.5 Clean up

- 1 Place a bucket under the modulator to catch falling water, and run 1-gallon fresh water through system each night to clean and freshen equipment. Unplug GFI from power source. Wipe off output end and any excess foam. Make sure no fluid has dripped or splashed on the electrical components. Blow-dry with an air hose if necessary.
- 2 Clean up of the foam is easy. Some water may need to be mopped and removed. Use of a wet/dry vacuum may be needed.
- 3 Foam Dome™ Fluid is non-toxic, clean, easy to use and can be very fluffy. Fluid will not damage clothing. When mixing concentrate avoid eye contact and wash with water if eye or skin contact has occurred. Contact your local dealer or CITC with any questions you might have.

## 5.6 Troubleshooting

- o **If unit does not start:** Are the electrical connections tight? Check electrical power for properly grounded outlet. Check GFCI box (see instructions in section 3.2). Check power cord going to GFCI box for cuts or separation
- o **If the fan is not operating:** Check Fan separately by disconnecting the pump from the GFCI. Does the fan rotate? Has foam gotten inside the unit? Is it wet? If so, disconnect the hose and blow out the unit with an air line. If not available, discontinue use until completely dry.
- o **If the fan rotates, but is not very fast:** Power loss will cause this unit to not function properly. Try plugging the fan into another outlet that is closer. Change the power switch on the unit to the faster speed. Does it rotate faster? You need to change to a heavier (minimum 12 awg) extension cord. Is the power supply dedicated solely to this unit? Are you sharing power with other equipment? Try disconnecting any other loads on the same circuit. If the fan rotates faster, then you need a dedicated power source.
- o **If you are not getting fluid to the Super Foam Dome™ unit:** Check pump separately by disconnecting from the hose and by disconnecting the fan from the GFCI and turning on the unit for a short time. If pump does not work, check another power outlet. If it still does not work, replace unit by calling for assistance.
- o **If the unit was foaming, then stops:**
  - o Check the intake hose of the pump in the bottom of the barrel. Is there sufficient fluid? Is there dirt in the bottom of the barrel? Keep the barrel clean and occasionally check to be sure dirt is not getting inside the barrel, as this will clog the pump. Shut off all power, disconnect the pump from the GFCI and remove the

pump from the barrel. Disconnect the hoses and check for debris or dirt that may be clogging the unit. Connect the suction hose to the pump and plug in the pump separately to see the output, catching the output in a bucket. The output should be open and free.

- o Check the nylon tubing going to the Super Foam Dome™ unit. Is it crimped or bent in a 90 degree angle? Change the tubing.
- o Check the connection to the Super Foam Dome™ unit. There is a screen that will capture dirt from entering the nozzle. Disconnect the tubing and clean the screen at the connection. Reconnect and try again.
- o If still clogged at the nozzle, remove unit to outside, connect a high pressure hose to the nozzle connection. While holding the unit in it's hung position so the water will run down and out of the unit, (not up or in the unit), turn on the water to pressurize the nozzle inside and clean the nozzle. You should have plenty of pressure and volume to remove any clogged item. If still clogged, send the unit back to be serviced.
- o **If the modulator appears to yellow or change color:** Have you been rinsing the unit after each use? Dark areas that are warm are easy for bacteria to grow. Rinse and let the fan blow out the modulator after each use. Never leave the modulator (sock) wet or dripping with solution.

## 6. Service and Maintenance

### 6.1 Super Foam Dome™ Pump Information

The Super Foam Dome™ pump has built-in thermal overload protection, which means the unit will automatically shut-off when it senses it could reach an overheat level. Once cooled down, it will reset and is ready to pump again. Once the area to be drained reaches a maximum of 1/8", unplug the pump or add more foam.

**Power cord must always be plugged into the GFI. NEVER place pump in fluid!** Unplug or switch off the unit when fluid has drained to 1/8".

### 6.2 Getting the most from your Super Foam Dome™ Pump

Optimum performance is reached at a maximum 25' hose length. The pump continues to work at longer lengths.

Make sure the fluid runs smoothly through the hose with no kinks or obstructions! If there is little or no movement of fluid, that means either there is an air lock or something is clogging the unit. If the hose is not properly attached or have good rubber washers, it will reduce the foam output. If the unit is clogged, tip the pump upside down to eject any foreign object, then flush with fluid.

## 7. Technical Data

Super Foam Dome™ 120V Technical Data P/N 100216	
Super Foam Dome™ Dimensions	19" x 19" x 19" (48cm x 48cm x 48cm)
Super Foam Dome™ Weight	28 lbs (12 kg) (plus pump: see below)
Super Foam Dome™ Power	1 hp: 120 VAC, 60 Hz, 20 A
Super Foam Dome™ Power Cord	25' (7.6 m)
GFI switch box	Two outlets with lighted power switch
GFI Power Cord	8' (2.5m)
Fluid pump	High-pressure diaphragm pump 45 psi (3.1 bar) / 1.4gpm (5.3 lpm)
Wt/Dims fluid pump	5lbs (2.3 kg) / 7"x5"x5" (18x13x13cm)
Pump Power	120 VAC, 60 Hz, 0.7 A
Pump Power Cord	6ft (1.8 m)
Type of Fluid	Super Foam Dome™ fluid/water mix
Output	500 cubic feet per minute (14m <sup>3</sup> /min)
Fluid Consumption	Approx 1 gallon per minute (3.8 l/min)
Hose	5/8" x 25' (1cm x 7.6m) plastic
Barrel supplied by user	55gal (209 liter) plastic
Limited Warranty	One year
Rev: 1/16/04	

## 8. Limited Warranty Conditions

This limited warranty guarantees to the original purchaser that this product shall be free of defects in material and workmanship, under normal use, for a period of one year from the date of purchase shown on the sales receipt. This warranty covers parts and labor providing the product is returned to CITC in the original shipping carton and packaging. The warranty for electrical is a (90) NINETY DAY limited warranty.

Damage resulting from shipping, accidents, misuse, negligence, unauthorized repairs or modification is not covered by this warranty. Using any fluid other than what is recommended for this machine will void warranty. No liability is accepted for injury or for loss, damage or expense resulting from any interruption whatsoever in the operation of the product or from any consequential loss arising there from. No liability is accepted for normal wear and tear.

We wish to satisfy YOU, our customer, and have implemented many measures to prevent problems and assure customer satisfaction. However, should you need a missing part or have a functional problem with your product, please call (888) 786-CITC from 7:30 am – 4:00 pm (Pacific Time) Monday – Friday, except for holidays. Our customer service department will respond to your problems immediately.

Please have the following information available when you call:

Model and Serial Number

Where and when the product was purchased

Nature of the problem

Subject to the following conditions, CITC will repair any defect or fault in the unit if it is caused by a proven factory defect within one year 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:

1. Faulty parts will be repaired or replaced (manufacturer's choice) with correct parts. Faulty units must be shipped to CITC at customer's expense. An RMA# must come with the unit.
2. 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 CITC. The right of limited warranty service is also lost if a fluid other than appropriate CITC fluid has been used or if units are sent to in with full fluid bottles.
3. Exposure to outside elements voids Warranty. Unit cannot be used outdoors or in wet weather without complete protection against the elements. Even then, high salty or humid conditions will cause instant corrosion of connectors and will void Warranty.
4. Freight costs to and from CITC when under the limited warranty services are the responsibility of the customer. Customer must place appropriate insurance on return of product. However, if product is returned due to factory defect within the first 30 days of receipt, CITC will cover the cost of returning the repaired unit to the customer.
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, either:

Replace the whole unit for free or take back the whole unit and refund the purchase price.

7. Further claims, especially for damages, losses etc. outside the unit are excluded.
8. Your limited warranty coverage is based on completion of the warranty card and returning it with your proof of purchase within 30 days of purchase.

**Your limited warranty coverage is based on completion of the warranty card and returning it with your proof of purchase within 30 days of purchase. If you should send the unit for service, do not forget to remove any liquid from the fluid bottle, and place unit in original box. 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:**

**CITC  
RMA # XXXXXXX  
1420 80<sup>th</sup> St. SW #D  
Everett, WA 98203  
Tel: (888) 786-CITC or (425) 776-4950  
Fax: (425) 776-5129  
Website: [www.citcfx.com](http://www.citcfx.com)  
E-mail: [info@citcfx.com](mailto:info@citcfx.com)**



1420 80<sup>th</sup> St. SW #D, Everett, WA 98203  
425-776-4950 ✧ FAX: 425-776-5129  
[www.citcfx.com](http://www.citcfx.com) ✧ [info@citcfx.com](mailto:info@citcfx.com)

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