Model No.

– 10946 –

Specifications

- **Center Height - 82 inches**
- **Footprint – 96 x 96 inches**
- **Hub-to-Hub - 110 x 110 inches**
- **Weight – 47 lbs.**

p/n 110946

REFUGE ICE THERMAL™

Instruction No. 105566

- Clam Customer Service Information -

NOTICE: Please contact Clam Customer Service direct at the email address or phone number below for any quality issues.

- Customer Service hours: 9am to 4pm, Monday – Friday CST
- Phone: 763-231-4120
- Fax: 763-231-4121
- Email: customerservice@clamcorp.com

***** Warranty cannot be honored without an original, dated receipt *****

IMPORTANT! PLEASE READ: Warranty Information

This product is warranted to the original retail purchaser (not transferable) to be free from manufacturers defects for one (1) year from the date of the original purchase. Warranty does not cover cracked windows, tent tears, or broken or bent poles due to high wind weather conditions or unattended use. The part will be replaced or repaired (manufacturer's option) if found defective within the one (1) year time frame. Warranty will be void if product has been subject to neglect, misuse, improper installation, misapplication, alteration, or accident including, but not limited to, improper maintenance or use of unauthorized parts or attachments. Please read this entire owner's manual to ensure proper installation, use, storage, and care for your Clam shelter.

To submit a Warranty Claim Request, please use one of the following methods:

- **Email: CustomerService@ClamCorp.com (Preferred Method)**
- **Call: 763-231-4120**
- **Write: Customer Service – Warranty Department**
  12135 Brockton Lane N.

Information needed to submit a warranty claim: If you need to submit a warranty claim, please e- mail Clam's Customer Service Department at customerservice@clamcorp.com. In your e-mail, please include your full name, address, phone number, a copy of your receipt, a brief description of the problem, and pictures to clearly show the area(s) of concern. Clam's warranty department will review your request and a Clam representative will contact you regarding your claim status. If instructed by warranty department, all returns must be returned with postage pre-paid.

- Limitation of Liability -

It is expressly understood that Clam Corporation's liability for its products, whether due to breach of warranty, negligence, strict liability, or otherwise, is limited to the repair of the product as stated above. Clam Corporation is not liable for any injury, loss, damage, or expense, whether direct or consequential, including but not limited to loss of use, income, profit, or damage to material arising in connection with the sale, installation, use of, inability to use, or the repair or replacement of Clam Corporation products. Clam Corporation reserves the right to make alterations or modifications in its products at any time, which in its opinion, may improve the performance and efficiency of the product. Clam shall not be obligated to make such alterations or modifications to products already in service.

SAFETY INSTRUCTIONS

⚠ WARNING

Please fully understand and follow all safety

instructions

outlined in this booklet. Failure to do so could result in severe injury.

- Do not use open flame heaters in your ice shelter. Open vents for cross ventilation.
- Ice Armor fabric will melt when contact is made with hot surfaces (i.e., heaters).
- Never leave shelter unattended when set up.
- Due to the increase in traffic (snowmobiles, autos, etc.) on area lakes, ice fishing can be hazardous at night. If you choose to fish at night or in poor visibility conditions, be sure to take precautions with lights or reflectors to show drivers your whereabouts.
- **Use external anchors during excessive wind (15+mph)**

Death from asphyxiation may result from use of oxygen depleting heaters. Open all vents for fresh air ventilation.

Injury or death may result from fire if tent fabric is exposed to open flame.

Tent fabric is not fireproof. Fabric will burn with extended exposure to open flame. Do not use open flame products inside tent. Tent fabric is treated with fire retardant. Application of any for foreign substance may render the flame retardant properties ineffective.

Nighttime: exterior reflectors must be visible to reduce risk of collisions.

This tent is made with flame resistant fabric, which meets CPAI-84 specifications.

PARTS LIST

Customer service hours:
9am – 4pm, (CST) Monday-Friday.

customerservice@clamcorp.com

ITEM #	DESCRIPTION	QTY.	PART NO.
1	HUB ASSY	5	103507
2	ICE ANCHOR	4	102457
3	EXTERNAL ANCHOR STRAP	4	104042
4	HUB & POLE KIT (4 POLES& 1 HUB)	5	109078
5	CARRY BAG	1	103718
6	BUCKLE ASSY W ITH STRAP	4	103244
7	INSTRUCTIONS/OWNER'S MANUAL	1	105566

Ice Anchors included in small carry pouch

Replacement parts can be ordered on-line at www.clamcorp.com

SET-UP INSTRUCTIONS

BEFORE ATTEMPTING TO USE THIS PRODUCT ON THE ICE go to www.clamcorp.com , click on your shelter model, and watch the set-up video provided. Then practice setting up and taking down at home in the comfort of a heated area such as a garage or basement. Repeat several times until comfortable. This will make your on-ice set-up much easier.

NO TOOLS ARE NEEDED FOR SET-UP OF YOUR CLAM HUB SHELTER.

1. Unzip the storage bag completely and remove the shelter. Use care not to misplace the anchor pouch **(Photo 1)**. It is advised to store your anchors and pouch in the storage pocket of Your carry bag.

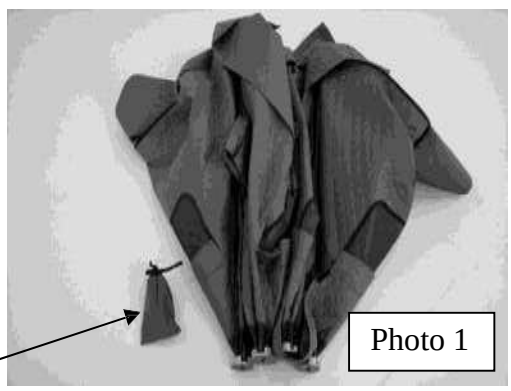


Photo 1

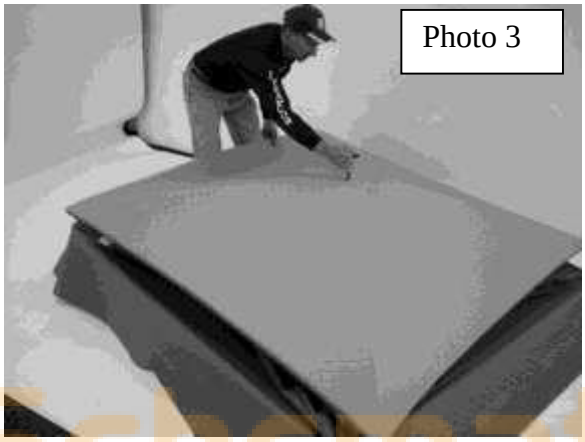
SET-UP INSTRUCTIONS

2. Open the shelter so that the gray top is facing upward. Lay the shelter as flat on the ice as you can, making sure that the tent is not twisted or overlapping any of the poles **(Photo 2)**. Do NOT force the shelter while unfolding.


Photo 2

3. Stand on the skirt of the shelter, grasp the blue loop sewn onto the eyelet in the center of the roof. Pull upward on the loop until the roof section pops up **(Photo 3).**

NOTE: The blue looped hub (roof) gets deployed FIRST on set-up and collapsed LAST on take down.


Photo 3

4. Grasp the loop sewn onto the eyelet in the center of one of the walls and pull outward until the wall pops out **(Photo 4).**


Photo 4

5. Walk around the entire shelter and pull each loop sewn onto the eyelet in the center of the wall until all sides are popped out **(Photo 5).**


Photo 5

ReelSchematic

SET-UP INSTRUCTIONS

6. Your shelter should be standing up completely **(Photo 6).** Anchor the shelter to the ice by using ice anchors and straps.



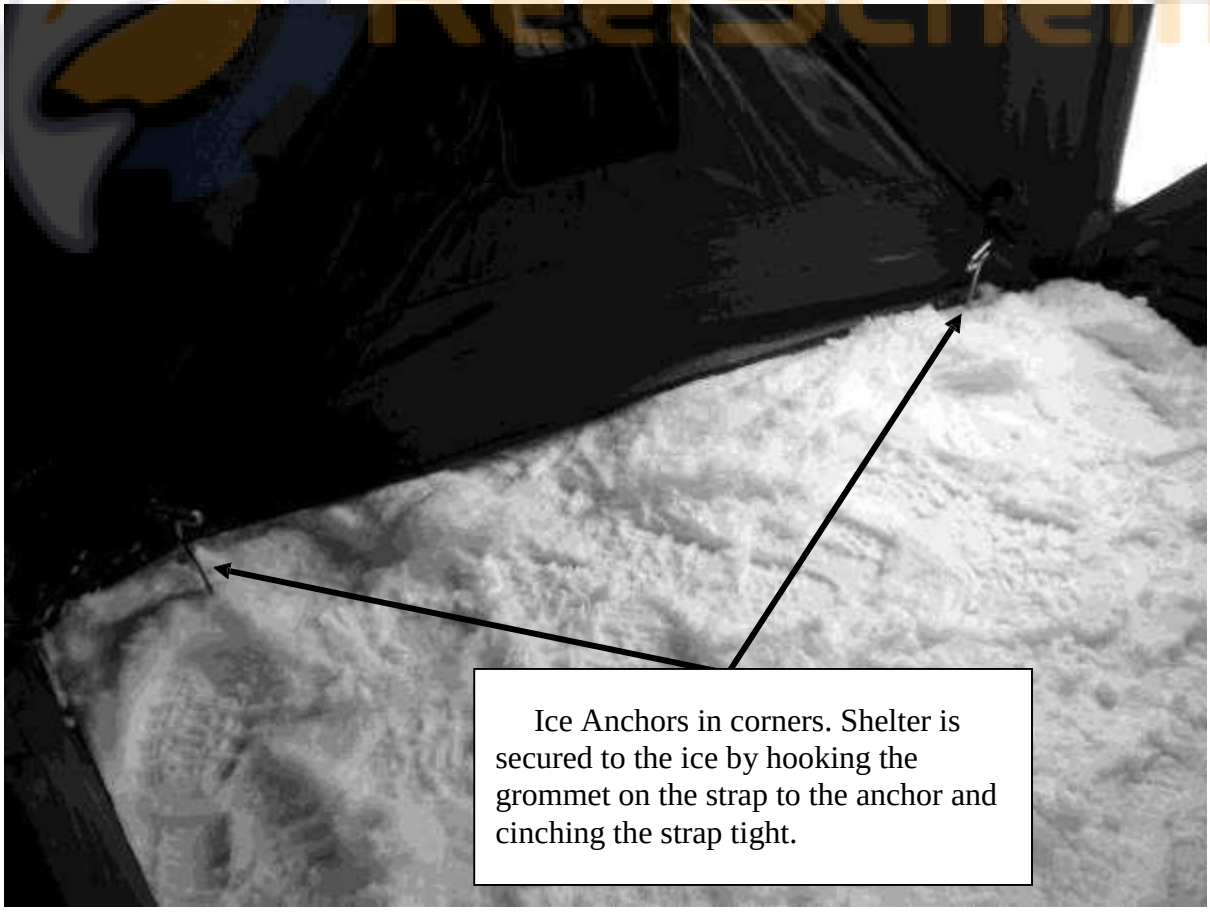
Photo 6

Screw ice anchors into the ice near the corners of the shelter using Clam's Ice Anchor Installation Tool PN 108348 (not included). Feed the adjustable strap grommet onto the ice anchor and cinch the strap tight **(Photo 7)**. Repeat for each anchor drilled into the ice. In windy condition, screw an anchor outside the shelter several feet away from the hub on the windward side and attach a strap found in the pockets under each side panel hub from the hub eye bolt to the remote anchor. Adjust strap so it is snug between hub and anchor. This will help keep the shelter in place and the walls from collapsing. If more anchors are needed, order PN 108064 (pack of two) via www.clamcorp.com.

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Photo 7



Ice Anchors in corners. Shelter is secured to the ice by hooking the grommet on the strap to the anchor and cinching the strap tight.

TAKE-DOWN INSTRUCTIONS

TAKE DOWN INSTRUCTIONS

1. Close all windows. Leave one or both doors open to allow air to escape.

2. Remove all internal ice anchors and store them in the provided pouch or in the carry bag side pocket. In windy conditions, remove ice anchor straps from anchors and store back in hub pockets prior to collapsing the roof and walls. Gather outside anchors and place back in pouch.

3. Push the center hub on any wall until it collapses inward **(Photo 8).** Continue pushing each wall inward until all the walls are collapsed. The shelter will fall to the ice on it's own.


Photo 8

4. Push the hub of the roof (blue loop) down until it collapses.

NOTE: The blue looped hub (roof) gets deployed FIRST on set-up and collapsed LAST on take- down.

5. The shelter will now be flat. Gather all corners of the shelter and fold together **(Photo 9).** Do NOT force the shelter when folding! Watch for entanglement of poles **(Photo 10)**.


Photo 9

6. Place the folded shelter and the ice anchor pouch back into the carrying case with the hubs toward the bottom end of the bag.

Make sure your ice shelter is completely dried out after each use and before storing. Store your ice shelter in a cool, dry place. Keep away from rodents.

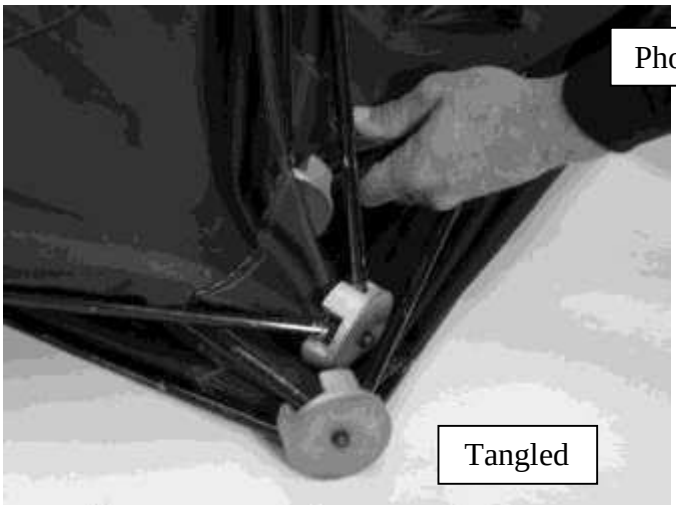

Tangled

Photo 10



Untangled

- Safety Instructions -

Please fully understand and follow all safety instructions as outlined. Failure to do so could result in severe injury or death.

- ***Do not use open flame heaters in your ice shelter. Injury or death may result from fire if tent fabric is exposed to open flame. The tent is not fireproof, but the fabric is treated with a fire retardant that meets CPAI-84 specifications. Application of any foreign substance may render the flame retardant properties ineffective. Ice Armor fabric will melt when contact is made with hot surfaces (i.e., heaters).***
- ***Death from asphyxiation may result from use of oxygen depleting heaters. Open all vents for fresh air ventilation.***
- ***Never leave shelter unattended when set up.***
- ***Due to the increase in traffic (snowmobiles, autos, etc.) on area lakes, ice fishing can be hazardous at night. If you choose to fish at night or in poor visibility conditions, be sure to take precautions with lights or reflectors to show drivers your whereabouts. Nighttime: exterior reflectors must be visible to reduce risk of collisions.***

⚠ WARNING

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Nighttime: exterior reflectors must be visible to reduce risk of collisions.

This tent is made with flame resistant fabric which meets CPAI-84 specifications.

For replacement parts, frequently asked questions, shelter information, videos, and all of your ice fishing needs visit our web site at www.clamcorp.com.

Due to Clam's continued product development, Clam reserves the right to change specifications without notice. For complete details, see the assembly and/or operating instructions that are provided and packaged with the purchased product.

FREQUENTLY ASKED QUESTIONS

Q: How do I set-up my hub shelter?

A: Go to www.clamcorp.com to watch an instructional video on the proper & simplest way to set-up and take-down a hub style shelter.

Q: I can see pin holes in my fabric:

A: There are a few explanations as to why those pinholes exist.

- Simply the color and/or black out coating being worn off the fabric due exposure in the elements and wear due to friction.
- The fabric used is a woven material and these pinholes are parts of the thread that the coating did not attach to. Either way this has no effect on the function of the fabric and is simply an appearance issue.

Q: There are cracks on the inside finish of the fabric:

A: It is normal when you fold up your shelter and lines develop in the fabric. The inside coating may even appear to be peeling. This is normal and will not affect the overall function of the icehouse.

Q: Will my Fish House leak because I can see pinholes in the fabric?

A: Quite the opposite, as you heat your house and the snow and ice begin to melt, the vapors can better escape the shelter through an uncoated fabric. When it snows or rains, the water molecules are larger than the vapor molecules and cannot pass through the fabric and into the house.

Q: Are patch kits available for my Fish Trap and Clam shelter?

A: Patch kits are available they can be purchased online www.clamcorp.com under "Parts/Info"

Q: How do I apply the patch material?

A: When applying a patch it works best to spray some adhesive (we recommend using 3M #77 or 3M #90 spray adhesive) on to both surfaces; the part of the tent where the patch is going to be applied and the patch itself. Wait until the adhesive begins to dry and becomes tacky, then place the patch on the tent, and they will stick together.

Q: Is there anything can be put on outside of the tent to prevent water from coming through, when we are using it? A: Customers have been known to spray or apply water repellant on the outside of the shelter that you would use for camping tents or boots. (Camp Dry would be an example of this type of product). These products will not damage your tent in anyway.

Q: What will help keep mice or rodents from eating my Clam Hub shelter?

A: Some of our customers have had success with the following ways to keep mice out.

- Keep your tent in a sealed plastic tote with DRYER SHEETS and or MOTH BALLS

Q: The zipper on my tent freezes up and or sticks; is there anything I can use to help prevent this from happening?

A: Yes, there are a couple of zipper lubricants out there that our customers and pro staff have had good luck with.

- Zipper Lube - A gel that you can apply just by squeezing it onto the zipper and moving the zipper back and forth. This brand can be found in the camping section of most sporting goods store.
- Silicone spray may also be used as well.

Q: Would it be best to completely dry my shelter out every time it gets used?

A: It is recommended to dry your tent out completely after each use, if not dried completely moisture left in the house may cause damage to your tent.

Q: How do I wash my shelter tent?

A: You can use a bleach and water solution (10 parts water to 1 part bleach) to get rid of the mildew smell. If you want to wash the tent you can use a standard soap to wash it.

*** Please note - We **do not** recommend placing your shelter tent into a washing machine for cleaning.

Q: Am I able to order parts and accessories from your website?

A: Absolutely, if you would like to order parts you can go to www.clamcorp.com under "Parts/Info"