

Air Diffusion Systems

A John Hinde Company

3964 Grove Avenue

Gurnee, Illinois 60031 USA

Phone: 847-782-0044 Fax: 847-782-0055

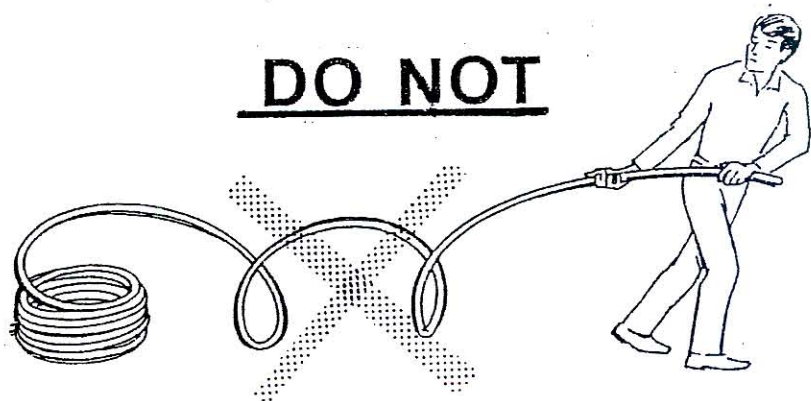
www.airdiffusion.com

INSTALLATION INSTRUCTIONS FOR "ADS" ICE MELTING SYSTEM

Your "ADS" Ice Melting System has been carefully engineered to provide maximum efficiency and long life. As in all engineered products, **INSTALLATION INSTRUCTIONS** must be carefully followed. While the Installation Instructions for your "ADS" Ice Melting System are simple and straightforward, attention to detail will insure many years of trouble free operation.

GENERAL INSTRUCTIONS:

1. With packing list in hand, check to make sure all components have arrived on site.
2. When assembling the Ice Melting System, avoid allowing dirt or dirty water to enter the tubing or components.
3. **DO NOT PULL** the "ADS" Aeration of Feeder Tubing from the roll. This will cause twists or kinks in the wire keel. Instead unroll the tubing as shown on the enclosed sheet.



4. The tubing should slip into the compression fittings with very little effort.

ASSEMBLY:

1. A. Unpack Compressor, Automatic Controls and Header.
B. Locate electrical outlet to be used for the compressor.
C. Connect header to compressor.
D. Attach Automatic Controls to wall in shelter, and position probe outside of shelter.
E. Mount compressor in ventilated shelter, to prevent movement.

NOTE: Compressor Installation and Maintenance Instructions will also be enclosed in compressor box, be sure to save for reference.

2. Locate all tools and fittings, shipped from "ADS". Assemble Uncoiling reel, as per instructions located with reel.

Ice Melting Instructions

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3.
 - A. Place "ADS" Weighted Feeder Tubing on Uncoiling reel, wire keel side facing down.
 - B. Unroll the "ADS" Feeder Tubing, starting with the outside end. **DO NOT PULL TUBING OFF THE TOP OF COIL.**
 - C.
 1. Cut end of tubing squarely and remove two inches of the wire keel.
 2. Cut tubing to desired length for your installation, and repeat C-1 instruction for both ends of all feeder tubing.

4.
 - A. Connect the feeder tubing to the Compressor Manifold
 1. Insert Tube Support into feeder tubing.
 2. Connect one end of the feeder tubing to the compressor manifold using a JACO Male Connector (See Installation Instructions for JACO Tube Fittings), insert the tubing into the fitting and tighten fitting.

5.
 - A. Unroll the "ADS" Weighted Ice Melting Tubing following the same procedure as in item 3 above.
 - B. Cut Ice Melting Tubing to desired lengths. (As per "ADS" system drawings)
 - C. Cut end of tubing squarely and remove two inches of wire keel.
 - D. Insert Tube Support into ends of the Ice Melting Tubing and Feeder Tubing.
 - E. Push each end of tubing into JACO Union Connector, and tighten as per JACO Instructions.
 - F. Turn on compressor to blow out any dirt which may have accumulated on the inside of the tubing.
 - G. Insert stainless steel clamp over end of tubing.
 - H. Insert End Plug into end of tubing and secure clamp.

6.
 - A. With the compressor turned on, drop the Ice Melting Tubing into the water as indicated on you "ADS" drawings. As the tubing sinks bubbles will rise to the surface. If there are no bubbles the tubing has a kink and will have to be raised from the bottom and straightened.

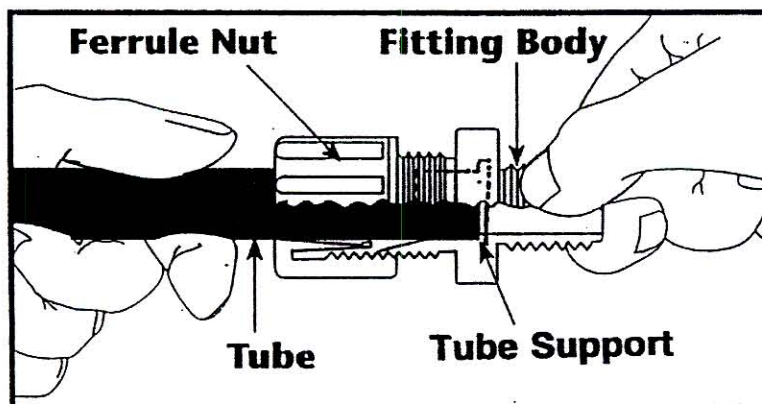
7.
 - A. Once the tubing is completely installed the pressure should be recorded and observed on a weekly basis. If the pressure is greater then 10 PSI contact our office for instructions.

NOTE: Make sure you have located your compressor so that all horizontal runs above the frost line are eliminated.
If your compressor is located on a dock or bulkhead, the discharge must point down. Weighted Feeder Tubing should be connected directly to this discharge nipple and drop immediately into the water.

INSTALLATION INSTRUCTIONS FOR JACO TUBE FITTINGS

1. Cut the tubing end squarely and remove two inches of the wire keel.
2. Insert Tube Support.
3. Insert the tubing through the back of the nut all the way through the nut assembly to the tube stop in the fitting body (see illustration). If the tubing does not enter the nut easily, loosen the nut one turn and then insert the tubing all the way to the tube stop in the fitting body.
4. Turn the nut hand tight.
5. Wrench tighten the nut $1\frac{1}{2}$ - 2 turns.
6. All nuts must be retightened when the system reaches projected operating temperature.

NOTE: Squeaking sound when tightening nut is normal. For pipe threaded connections, Teflon Tape must be used.



CAUTION: To insure proper assembly, tubing **MUST** be fully inserted into the fitting body to the tube stop.