

Clinebell Equipment Company

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General

Your new Block Ice Maker has been carefully packaged for safe shipment. If there is any visible damage to the shipping carton or cabinet, make a notation on the freight bill and file a claim with the carrier. The B-12 Block Ice Maker has been designed to use an 11-1/2" wide LEAK PROOF bag that will produce an 11 lb. block of ice. You can produce 12 lb. blocks of ice by adding weight to the weight box until it takes 12 lbs. Of water in the bag to tip the balance beam down in front. Follow the instructions in the section titled "Instruction – Bag Fill Device." If you choose to make a block larger than 12 lbs., you will need to use a wider plastic bag, decreasing the number of bags that the cabinet will accommodate.

Installation – Block Ice Maker

For an efficient work flow, the fill device has been attached to the side of the cabinet. The 1/2 HP condensing unit is located underneath the cabinet. Please keep in mind that this unit will create some additional heat and might need to be exhaust to the outside. The 1/2 HP condensing unit requires a 115 volt, single phase, and 60 cycle electrical circuit. The minimum circuit amp capacity is 13.7 amps, and the maximum fuse size is 20 amps. The block ice maker should be grounded for safety. (Applications outside of the U.S. may have other electrical requirements.) The B-12 cabinet should be set-up so that it slants slightly towards the front. The back legs should be propped up by approximately 1". This will allow for drainage during the defrost period.

Installation – Bag Fill Device

The fill device may be hooked up by means of a 3/8" O.D. copper or to a water valve by means of a food grade garden type hose. The fill device has one (1) bag rack on the front side, on which you place one 11-1/2" wide LEAK PROOF plastic bag. On the back of the fill device is one (1) container for weights, at the end of the balance beam. Place any, heavy, non-porous substance, (i.e., steel or rock), in the weight box and add water to each plastic bag hung on the bag rack on the front of the device, until the beam tips down in front with 11 or 12 lbs. of water in each bag.

Operation – Bag Fill Device w/Block Ice Maker

Set the specified plastic bag into the tray on the front of the fill device and secure it by piercing the top of the bag over the protrusions on the top of the device. Turn the water valve on and fill the bag with water until the balance beam tilts down. Turn the water valve off and quickly close the top of the bag, trapping as much air as possible in the bag. (When water freezes, it expands by 11%, this needing extra space inside the bag later in the process.) Lift the closed bag out of the fill device tray and seal it using a hog ring type pliers.

CAUTION: Watch for leaks from the bags as you remove them from the fill device. If a bag is leaking, discard the bag.

DO NOT place a leaking bag in the block ice maker cabinet.

NOTE: Always allow the plates to get cold before starting to place bags of water into the cabinet, as the cold plates will allow the bags of water to slide in easier. Take the filled and sealed bag by the top and place it into the cabinet starting on the right side of the back row. Take the second sealed bag by the top and place it next to the first bag. As you place the 2nd bag in the cabinet, slide a metal "L" shaped

divider under it, sliding the two (2) bags together slightly. Take the third (3rd) filled bag by the top and place it in the back row on the far left side of the cabinet. Place the 4th sealed bag next to the 3rd bag on the left hand side of the row and slide a metal “L” divider under it leaving a space between the 2 “L” shaped dividers. Place a 2 x 4 in this space to help when gently flexing the plates before harvesting the completed blocks. Continue this procedure until you have placed four (4) bags in each row.

Harvesting

1. To harvest the blocks of ice, gently flex the rows of plates with your hands or the 2×4. This will release the blocks of ice from the plates. Do so in the space left in the middle of each row. Now remove the blocks gently from the cabinet. Remove the blocks one row at a time, starting in the front of the cabinet. Continue flexing plates and pulling blocks in this manner to the back row of the machine.
2. CAUTION: Do not use force or pry bars to remove the blocks.
3. The bagged block is ready for storage in a refrigerated cabinet. 4. Repeat the instructions in the section titled “Operation- Bag Fill Device W/Block Ice Maker”.

Condensing Unit Operating Pressures

1. Suction gas temperature at start-up will be approximately 34 degrees and will reduce to -10 degrees when all water is frozen.
2. The high side pressure control is factory set.
3. The low side pressure control is factory set, at approximately 15 PSIG cut in and 0 PSIG cut out. Some controls have a low side differential. The differential setting should be set at approximately 15 PSIG to give a cut out of 0 PSIG. (The cut out is equal to the cut in, less the differential.)

Maintenance and Service

1. The machine plates must be defrosted occasionally. To defrost, harvest and refill the cabinet using the instructions in the section titled “Operating – Bag Fill Device W/Ice Maker”. Then, shut off the condensing unit and allow the machine to sit with the lid open for a few hours. When all frost is melted, the excess water will drain to the front of the cabinet. This method will utilize the heat of the water to help the defrost process. Turn the compressor back on and allow the bags of water to freeze as usual.
2. Keep the condenser clean by periodically brushing out the lint and dust between the fins. To do so, first unplug the electrical cord or turn off the power, to avoid injury on the rotating blade. The blades may also be sharp.
3. Order any replacement parts directly from the factory to insure correct operation. The address is shown on the front of these instructions.
4. If the machine is to be shut off for a prolonged period, be sure to defrost and wipe all interior surfaces dry so that they will not corrode.

If You Have any Problems in Filling or Harvesting Your B-56 Block Ice Maker,
Please Feel Free to Call Us.