How to Make A Mini-Snowbreeze

1

With half its size Mini-Snowbreeze can be as effective as the main unit for a small room or for a shorter duration.

2

Mini-Snowbreeze has all the features of Snowbreeze-1
Air is sucked by the fan through a half inch slit at the bottom of the duct.

A tight-fitting aluminium drum (8” dia x 10” depth) is pushed into the grooves casing.
The drum is sealed with a lid to prevent air from touching the ice. The compacted unit is lowered into a plastic bucket with a 10” diameter bottom and 13” deep and fixed with 3” high props.
An aluminium ring, 1.5” wide, that constitutes a groove. Notice the 2” long air passage cut at one end of it.

Half inch width of the ring is folded down to form fins that rub against the surface of the drum.
An air duct is made by pasting 4” wide aluminium sheets between two 1” thick sticks of wood. 20 slits are made in each sticks at half-inch intervals. The duct is fixed upon the base of the grooves and aluminium rings fixed in the 40 slits.

A nail is hammered into each slit to hold the aluminium ring.
One of four 1" long pipe pieces of half-inch diameter glued to a ring with Fevicol to support the ring above it.

The grooves casing is wrapped by an aluminium sheet.
The bucket is fitted with a tap to drain out melted ice in the ice jacket and water condensed from the air.

The entire kit of mini-snowbreeze except the bucket can be packed and shipped in a violin-sized carton for assembly by the user.