Why Snowbreeze is a Must for every house

1
Snowbreeze is an air-conditioner, not a cooler. It dehumidifies the air like any other AC. Briefly stated, it amounts to burying in an ice tank a sixty feet long aluminium pipe of one-and-a-half inch diameter through which compressed air is kept running at high speed.

2
Immediately, its most important benefit is relief from massive load shedding and power breakdowns which have become a normal feature of life throughout India. It needs very little power, only 23 watts — less than half of what is used by a light bulb. In the absence of electricity supply it can run merrily for days on an inverter or even a car battery.

3
Humidity is reduced in proportion to the maximum fall in air temperature.

4
This unit of Snowbreeze consumes two to 2.5 kilograms of ice per hour to cool a 10x12 feet room by six to seven degrees centigrade and the air in front of its fan by ten degrees centigrade.

5
It is energy conserving. Normal air-conditioning consumes many times more power than is used in making ice for the same purpose.

6
Snowbreeze is completely nonpolluting, unlike normal air conditioners which poison the atmosphere with hot emissions of foul gases.
Its cooling capacity is somewhat lower than that of an AC. The objective is relief from heat, not luxury. It brings down the room temperature by seven degrees centigrade.

It is also an ideal replacement for desert coolers which are clumsy, noisy, messy, water guzzling and cumbersome to run, besides being utterly useless in monsoon months and even in summer when water is not available to run them. They block windows and make the room humid and dark.

The overall cost of running a Snowbreeze AC may not be much higher than that of operating a desert cooler.

It is as cheap to make as a desert cooler and is intended to be a cottage industry product. Two carpenters can fabricate it in two days – using a few sheets of plywood and aluminium, a six-inch exhaust fan and a plastic bucket.

Ice is home deliverable in most places. It can be stocked in a thermocol box or a fridge.

Snowbreeze is a light-weight device. It can easily be moved from room to room.

It can be a boon to low cost hospitals, guest houses, dormitories and the like.
It is ideal for working couples or single people who spend most of the day at work and need relief from heat in the night. As long as their fridge is reasonably provisioned with ice, they have nothing to worry.

No heat expulsion: conventional air conditioning expels heat from the room it cools into surrounding areas and causes discomfort to others. Ice cooling absorbs all the heat within the ice.

The urban furnace challenge: Our policy makers envisage that within a few decades seventy percent of the people of India should be living in cities, against thirty percent now. It is a frightening scenario since in summer our cities would turn into blazing furnaces of concrete and metal on an unimaginable scale. In such a situation people would be desperately looking for cooling remedies. The cheaper, though milder, mode of cooling offered by ice may be one of the obvious solutions. It should specially appeal to institutions which would prefer portable air conditioners that can be moved from room to room, like middle-level hospitals, nursing homes, guest houses, student dormitories and so on.

Snowbreeze can be built in different shapes and sizes to suit different needs.

To obtain optimal performance from Snowbreeze its drums and icejacket have to be filled up at the start. But ice and cold water from a well stocked fridge can adequately cope with three to four-hour power breakdowns. Its performance remains constant till the temperature of the melted water rises upto 15°C.
Its usage can be tailored to suit the user’s purse and environment. The cold water in it continues to cool the air in the room by a few degrees for about two hours after the temperature of the melted water has crossed 15°C.

It can be a life-saver for aged people with limited means who can use it selectively to cope with hours of extreme heat.

Filling the ice jacket with ice is optional, depending on the need. It can take seven kilograms of ice, about the same as each of the ice boxes.

Ice can be preserved for at least twelve hours in feather weight thermocol boxes which are very cheap.

Unlike desert coolers which waste enormous amounts of water, and create slippery puddles and streams on the floor around them, Snowbreeze conserves every drop as pure potable water.

The overall total cost of fabricating this unit of Snowbreeze in your house could vary between Rs.3000 and Rs.10,000 ($60 to $200).