

ABSTRACT

SELF COOLING DEVICE FOR BEVERAGES

5 A self-cooling device to cool a beverage, the device comprising a compressor, a motor, a network of capillaries, containing a refrigerant, said network having a reservoir for the refrigerant, a power source of electrical energy, several temperature gauging devices, a micro-processor, a simple user interface for temperature setting, and an on/off switch.

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The self-cooling device can be incorporated into a few embodiments, to cool a beverage container instead of cooling the beverage which is poured into the self-cooling device.

15 The self-cooling device is actuated by turning on the on/off switch. The power source provides electrical energy to start the motor driving the compressor, sending the refrigerant from the reservoir through the network of capillaries running through both the interior and exterior walls of the device, before returning said refrigerant to the reservoir. In the process, the refrigerant
20 transfers heat away from the interior wall of the device which then indirectly cools the beverage, after which the refrigerant transfers the heat into the ambient air, before returning to the reservoir.

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[Fig. 1]