

ABSTRACT

EVAPORATIVE CONDENSING APPARATUS

An evaporative condensing apparatus used in an air conditioner to reduce the power consumption of the air conditioner and improves its EER value. The evaporative condensing apparatus is based on the rule that the condensing temperature is directly proportional to the condensing pressure during the exchange of a cooling agent between liquid state and gas state. The evaporative condensing apparatus includes an evaporative condensing unit for condensing a gas state cooling agent into a liquid state, the evaporative condensing unit having a plurality of condenser coils and absorptive means covered on the condenser coils, a low compression ratio compressor controlled to pump a gas state cooling agent into the evaporative condensing unit, a water supply system having a control PC board and an electromagnetic valve controlled by the control PC board to let cooling water be delivered from a water source to the layer of absorptive material of each condenser coil, and a condenser fan controlled to draw currents of air through gaps in the condenser coils of the evaporative condensing unit in carrying heat away from the evaporative condensing unit.

FIGURE 2

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