

ABSTRACTImproved Air Conditioner - Heat Reclaim

The present invention relates to an improved air conditioner unit that cools the surrounding like conventional systems but uses the hot gas normally discarded away from the surrounding for heating purposes and more particularly the said air condition unit together with the heater are of unitary body. Said air conditioner unit comprises; an evaporator made up of finned coil with refrigerant flowing in the coil for absorbing heat to cool the area around the coil; a compressor to compress the refrigerant thus increasing its heat that allows the refrigerant to be pumped out at greater pressure; a condenser for reducing the heat and pressure of the refrigerant; metering device to regulate the refrigerant flowrate to the evaporator; characterized in that; an accumulator is added before the compressor to control the amount of refrigerant flowing to the said compressor; a water tank with a pipe containing the refrigerant flowing from the compressor immersed into the tank filled with water for the purpose of heating the water; a thermal expansion valve used as the metering device.

Most illustrative diagram: Figure 3