

Title (en)
HEAT PUMP WITH PULSE WIDTH MODULATION CONTROL

Title (de)
WÄRMEPUMPE MIT PULSBREITENMODULATIONSSTEUERUNG

Title (fr)
POMPE A CHALEUR AVEC COMMANDE A MODULATION DE LARGEUR D'IMPULSIONS

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Application
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Abstract (en)
[origin: WO2007070060A1] A heat pump is provided with a component that has a pulse width modulation control to adjust system capacity. Thus, by utilizing a pulse width modulation technique to control this component, the present invention is able to closely tailor the delivered capacity of the heat pump to that which is demanded, without cycling the unit. In one embodiment, the component has a suction pulse width modulation valve. In another embodiment, the component which is modulated is the compressor pump unit, and, in particular, a pair of scroll members that are allowed to move into and out of contact with each other. The pulse width modulation control device can also be utilized in combination with a heat pump having an economizer function and/or an unloader function.

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