

Title (en)
BOOSTED AIR SOURCE HEAT PUMP

Title (de)
AUFGETRIEBENE LUFTWÄRMEPUMPE

Title (fr)
POMPE A CHALEUR AVEC ENTREE D'AIR SURCOMPRIME

Publication
EP 0883784 A1 19981216 (EN)

Application
EP 97906778 A 19970226

Priority
• US 9703021 W 19970226
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Abstract (en)
[origin: WO9732168A1] A boosted air source heat pump system is presented having a primary compressor (24), a booster compressor (22) and an economizer (28). On activation of the heat pump system, the primary compressor (24) is operated. When the primary compressor (24) cannot meet the demand, the booster compressor (22) is activated, but only upon receipt of a signal enabling the operation of the booster compressor (22). The booster compressor (22) is preferably a variable speed booster, and its speed is controlled to be at or between an absolute minimum speed at an absolute maximum speed. The booster (22) may be on the low side or the high side of the primary compressor (24). The operation of the economizer (28) may be modulated to meet the demand on the system.

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