

Title (en)  
HEAT PUMP SYSTEM

Title (de)  
WÄRMEPUMPENSYSTEM

Title (fr)  
SYSTEME DE POMPE A CHALEUR

Publication  
**EP 1490636 A1 20041229 (EN)**

Application  
**EP 03706656 A 20030304**

Priority  
• FI 0300158 W 20030304  
• FI 20020407 A 20020304

Abstract (en)  
[origin: WO03074953A1] A heat pump system, wherein the flowing speed of the heating circuit liquid is adjusted in the condenser to regulate the temperature of the heating circuit liquid. The system also includes a sub-cooling heat exchanger for sub-cooling the refrigerant after the condenser to the ground heat collection circuit liquid. Domestic hot water is produced in two phases: in the first phase water is pre-heated with the heat absorbed from the refrigerant in the condenser. A super-heat exchanger is provided for heating the domestic hot water to its final high temperature in the second phase. The super-heat exchanger includes a flowing tube which is used to control the position of the condensing point of the refrigerant vapor and to remove the excessive super-heat to a heat accumulator when domestic hot water is not used.

IPC 1-7  
**F25B 49/02**; **F25B 40/00**; **F25B 30/02**

IPC 8 full level  
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CPC (source: EP US)  
**F24D 17/02** (2013.01 - EP); **F24D 19/1054** (2013.01 - EP US); **F25B 30/02** (2013.01 - EP); **F25B 40/04** (2013.01 - EP); **F25B 49/027** (2013.01 - EP); **F25B 49/005** (2013.01 - EP)

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DOCDB simple family (publication)  
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