

Title (en)

MULTI-LINE APPARATUS SYSTEM REFRIGERANT FLOW CONTROL METHOD AND DEVICE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG DES KÄLTEMITTELFLOSSES EINES EINRICHTUNGSSYSTEMS MIT MEHREREN LEITUNGEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE CONTRÔLE DE DÉBIT DE FRIGORIGÈNE DE SYSTÈME D'APPAREIL MULTI-LIGNE

Publication

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Application

EP 16820687 A 20160426

Priority

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Abstract (en)

[origin: EP3182039A1] A method and a device for controlling refrigerant distribution of a multi-split air-conditioning system are disclosed in the present invention. The method includes: when the multi-split air-conditioning system enters a main heating mode, controlling the second electronic expansion valve to close; controlling an electronic expansion valve corresponding to a cooling indoor unit to perform an opening adjustment; when an opening of the electronic expansion valve corresponding to the cooling indoor unit reaches a maximum opening, calculating a target opening of the second electronic expansion valve according to a total opening and the maximum opening of the electronic expansion valve corresponding to the cooling indoor unit; and controlling the second electronic expansion valve according to the target opening. With the method for controlling refrigerant distribution of the multi-split air-conditioning system in embodiments of the present disclosure, the cooling effect of the cooling indoor unit is ensured and the liquid strike on the compressor may be avoided under the main heating mode, and the compressor is ensured to operate safely and reliably.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] US 2015168037 A1 20150618 - ARIYAMA TADASHI [JP], et al
- [A] EP 2833086 A1 20150204 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2017005036A1

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