

Title (en)

DETECTION APPARATUS AND METHOD FOR REFRIGERANT LEAKAGE OF AIR SOURCE COOLING ONLY SYSTEM

Title (de)

VORRICHTUNG UND VERFAHREN ZUR DETEKTION VON KÄLTEMITTELLECKAGEN EINES LUFTQUELLENKÜHLSYSTEMS

Title (fr)

PROCÉDÉ ET APPAREIL DE DÉTECTION DE FUITE DE RÉFRIGÉRANT D'UN SYSTÈME DE REFROIDISSEMENT PAR AIR SEULEMENT

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Application

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Abstract (en)

The present invention relates to a device and a method for detecting a refrigerant leakage of an air source cooling-only system, wherein the detection method comprises S1: obtaining an operating parameter of an air-cooled cooling-only air source cooling-only system, wherein the operating parameter comprises at least a compressor speed or capacity; S2: comparing the operating parameter with a preset operating parameter interval; S3: updating a cumulative score when the operating parameter falls within the preset operating parameter interval; and S4: determining that a refrigerant leakage has occurred when the cumulative score exceeds a predefined cumulative score, and returning to step S1 when the cumulative score does not exceed the predefined cumulative score. The device and the method for detecting a refrigerant leakage of an air source cooling-only system according to the present invention are simple and reliable, easy in implementation, convenient in application and so on, and can provide automatic detection of a refrigerant leakage, improving the operating efficiency and safety of modules.

IPC 8 full level

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Citation (search report)

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