

Title (en)

A METHOD FOR DETECTING AIR IN A HEATING OR COOLING SYSTEM, AND A HEATING OR COOLING SYSTEM

Title (de)

VERFAHREN ZUR DETEKTION VON LUFT IN EINEM HEIZ- ODER KÜHLSYSTEM UND HEIZ- ODER KÜHLSYSTEM

Title (fr)

PROCÉDÉ DE DÉTECTION D'AIR DANS UN SYSTÈME DE CHAUFFAGE OU DE REFOIDISSEMENT, ET SYSTÈME DE CHAUFFAGE OU DE REFOIDISSEMENT

Publication

EP 4336105 A1 20240313 (EN)

Application

EP 23192993 A 20230823

Priority

IT 202200018183 A 20220906

Abstract (en)

An air detection process (15) for detecting air in a heating or cooling system (1) comprises one or more air detection steps (15.1, ..., 15.n) wherein, with a circulation pump (5) activated (F1) at a circulation speed, detecting a parameter (x) indicative of the water flow rate inside a hydraulic circuit (2) (F2), collecting a plurality of values (x_t) of the parameter (x) detected in a detection time interval (F3), calculating a variation (FlowRate_StdDev) of the plurality of values (x_t) collected in the detection time interval (F4), comparing the calculated variation (FlowRate_StdDev) with a variation threshold value (Threshold_var) (F5), and if the calculated variation (FlowRate_StdDev) is greater than the variation threshold value (Threshold_var), generating an notification signal of air presence in the hydraulic circuit (2) (F6).

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- EP 2918923 A1 20150916 - VAILLANT GMBH [DE]
- EP 1593916 B1 20120620 - WILO SE [DE]

Citation (search report)

- [A] EP 2918923 A1 20150916 - VAILLANT GMBH [DE]
- [A] EP 1593916 B1 20120620 - WILO SE [DE]
- [A] KR 20040081983 A 20040923 - LOTTE ENG & MACHINERY MFG CO

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