

Title (en)

Reactive cooling and heating control system

Title (de)

Reaktives Kühlungs- und Heizungsregelsystem

Title (fr)

Système de commande réactive pour une installation de réfrigération et de chauffage

Publication

EP 0632234 B1 19980304 (EN)

Application

EP 94304776 A 19940630

Priority

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Abstract (en)

[origin: EP0632234A1] In a variable air volume system, chilled air is supplied from a cooler (10) to a number of zones (14, 16, 18). Zone controllers (30, 32, 34) send the supply air temperature detected by sensors (48, 50, 52) to a master controller (12) which issues a warning to all of the sensors when at least one of these temperatures drops too low, e.g. passed a trip temperature of one of the stages of the cooler (10). On receiving the warning, each zone controller (30, 32, 34) compensates by adjusting the air flow to its zone (14, 16, 18) using dampers (42, 44, 46). Different adjustments occur depending on whether the zone temperature is above or below a zone setpoint. The invention is also applicable to a heating system and to the monitoring of too great a rise in the temperature of supplied heated air. <IMAGE>

IPC 1-7

F24F 11/053; **F24F 3/044**

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP2102568A4; CN101952665A; CN107121991A; EP1852660A1; EP1736714A1; FR3142239A1; US8020777B2; WO2008082398A1; WO2006041599A3; WO2006137731A3; US10732651B2; US7455236B2; US7156316B2; US7455237B2; US7163156B2; US7025672B2; US7987023B2; WO2009105516A3; WO2005012806A1; US7168627B2; US8033479B2; US9618223B2; US9995497B2; US10126011B2; US10215437B2; US9846443B2; US10126009B2; US10151502B2; US10242129B2; US10915669B2; US11692730B2; US9798979B2; US10853733B2; US12055905B2; EP2102568B1

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