

Title (en)

METHOD AND CONTROLLER FOR OPERATING A GAS BURNER APPLIANCE

Title (de)

VERFAHREN UND STEUERGERÄT ZUM BETRIEB EINES GASBRENNERGERÄTS

Title (fr)

PROCÉDÉ ET APPAREIL DE COMMANDE POUR FAIRE FONCTIONNER UN APPAREIL À BRÛLEUR À GAZ

Publication

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Application

EP 21174098 A 20210517

Priority

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Abstract (en)

Method for operating a gas burner appliance (10), the gas burner appliance comprising: a combustion chamber (11) in which a defined gas/air mixture is combusted after combustion has been started; a mixing device (25) to provide said gas/air mixture by mixing an air flow provided by an air duct (15) with a gas flow provided by a gas duct (16); a fan (14) to provide the air flow or the flow of the gas/air mixture; a gas safety valve unit (19) assigned to the gas duct to open or close the gas duct; a gas flow modulator (18) or a gas flow regulator (28) assigned to the gas duct to keep a mixing ratio of the defined gas/air mixture constant over the modulation range of the gas burner appliance; an absolute pressure sensor (21) positioned between the gas safety valve unit and the mixing device, wherein the gas burner appliance is operated to determine the air flow resistance of the same by executing the following steps before combustion becomes started: Measuring a first absolute pressure by the absolute pressure sensor (21) when the gas safety valve unit (19) is closed and when the fan (14) is stopped. Measuring a second absolute pressure by the absolute pressure sensor (21) when the gas safety valve unit (19) is closed and when the fan (14) is running. Determining a pressure difference between the first absolute pressure and the second absolute pressure. Determining on basis of the pressure difference the air flow resistance of the gas burner appliance. Fig. 1

IPC 8 full level

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Citation (applicant)

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