

Title (en)

METHOD FOR OPERATING A FAN ASSISTED, ATMOSPHERIC GAS BURNER APPLIANCE

Title (de)

VERFAHREN ZUM BETREIBEN EINER MISCHROHRBRENNERANWENDUNG MIT GEBLÄSE

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN BRÛLEUR DE GAZ ATMOSPHÉRIQUE ASSISTÉ PAR VENTILATEUR

Publication

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Application

EP 16200264 A 20161123

Priority

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Abstract (en)

[origin: EP3327351A1] Method for operating a fan assisted, atmospheric gas burner appliance (10), wherein said gas burner appliance (10) comprises a burner chamber (11) in which a gas/air mixture can be combusted, a heat exchanger (12) for heating water by combusting said gas/air mixture, an air pipe (15) or air duct for providing the air of the gas/air mixture, a gas pipe (16) or gas duct for providing the gas of the gas/air mixture, an exhaust pipe (17) or exhaust duct through which exhaust flowing out of said burner chamber (11) can emerge into the ambient of the gas burner appliance, a fan (19) being assigned to the exhaust pipe (17) or to the air pipe (14) and a gas valve (18) being assigned to the gas pipe (16), wherein for modulation of the burner load the valve position of the gas valve (18) is changed, a flame ionization sensor (24) providing a measurement signal. During active combustion of the gas/air mixture while the fan (19) is running at a first fan speed and while the valve position of the gas valve (18) is at first valve position, the fan speed of the fan (19) will be decreased to a second fan speed, the valve position of the gas valve (18) will be kept constant or almost constant and the change of the measurement signal of the flame ionization sensor (24) will be monitored. If the change of the measurement signal of the flame ionization sensor (24) is smaller than a threshold after the decrease of the fan speed of the fan (19) to the second fan speed, an actual gas supply pressure in the gas pipe (16) being smaller than a nominal gas supply pressure or an obstructed exhaust pipe (17) and/or obstructed air pipe (15) is detected. If the change of the measurement signal of the flame ionization sensor (24) is greater than the threshold after the decrease of the fan speed of the fan (19) to the second fan speed, an actual gas supply pressure in the gas pipe (16) corresponding to the nominal gas supply pressure and an unobstructed exhaust pipe (17) and unobstructed air pipe (15) is detected.

IPC 8 full level

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