

Title (en)

Wall-mounted gas boiler with premixing burner, particularly for domestic use.

Title (de)

Wandgasheizkessel mit Vormischbrenner, insbesondere für den Hausbedarf.

Title (fr)

Chaudière-eau à gaz mural avec brûleur de prémélange, en particulier pour usage domestique.

Publication

**EP 0493345 A2 19920701 (EN)**

Application

**EP 91830573 A 19911218**

Priority

IT 4861090 A 19901221

Abstract (en)

This invention relates to a wall-mounted gas boiler, particularly useful for domestic employment, of the type comprising a pre-mix burner (13), a heat exchanger (12), a circuit (8) for allowing the combustion air to circulate, means (5) for causing said air to circulate, a chamber (18) for mixing air with the gas, in which chamber an opening (19) is provided, upstream of said mixing chamber (18) in the circuit (8) for the circulation of air, said opening being closed by valve means (20) and allowing the dilution air to flow towards the openings (21) without becoming mixed with the gas at the point corresponding to the mixing chamber (18), means (22, 23 and 24) being provided for changing the amount of gas introduced in proportion to the flowrate of the air flowing through the same. The boiler according to this invention can also be provided with a single-piece container (2) having a pressurized inner chamber (9), inside which both the burner (13) and the heat exchanger (12) are arranged, and an outer depressurized chamber (8) through which the air sucked in by the fan (5) flows, the outflow of smokes from the inner chamber (9) and the inflow of air into the outer chamber (8) occurring through an upper coaxial pipe (14); a closure member (3) of the container, said member being provided with a double seal for closing both the inner chamber (9) and the outer chamber (8) tightly; and a lower Archimedean screw (4) inside which the fan (5) is housed. <IMAGE>

IPC 1-7

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IPC 8 full level

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