

The invention relates to a dark radiator comprising a burner (1, 5, 6, 7), a fan (2) and a radiant tube (3) which is connected to an exhaust gas discharge line, wherein the burner (1) is connected to a fuel gas supply, wherein the fan (2) is designed to supply the burner (1) with combustion air, wherein the burner (1) is designed to output a flame into the radiant tube (3, 3'), wherein the fuel gas supply is connected to a hydrogen source.