

This invention relates to heat engineering, in particular, to heating air supplied to the boiler units for the process of fuel burning. The method of preliminary heating of the blast air is in mixing it with the heated combustion products, at that the blast air is taken from the atmosphere and the combustion products are obtained by means of autonomous burner unit; at that the temperature of mixed flow is controlled through variation of temperature of combustion product. Method, together with the possibility of its realization in any boiler units, makes it possible to improve effectiveness of burning fuel, this leads to increase in economy .