

The invention relates to shaft furnaces for lime burning. The furnace has metal frame of furnace with refractory lining, zone for cooling, burning and heating, smoke suction for outlet gases and gas duct. Suction of outlet gases is arranged as C-like box that is placed in horizontal position outside of the upper part of the body of the furnace. It has three rectangular suction branch pipes placed at angle 120° . Those are connected to the stem of the shaft and to C-like box. Construction of suction unit provides more uniform distribution of rate of gases flowing towards charge. This promotes uniform burning of lime and increase of stability of lining.