

A plant for pyrolysis of industrial and domestic wastes containing organic compounds relates to the chemical equipment, in particular to plants for pyrolysis of salts or alkalis melts in the volume. The reactor is made in the form of a torus disposed horizontally, partially filled with melt of fusible salts or alkalis. The unit for wastes incorporation represents several tangential gas-dynamic nozzles immersed into the melt and disposed regularly along the circle of the torus. Original orifices of nozzles are disposed in the near-bottom zone of the reactor. The nozzles may be equipped with injection devices and disposed at different angles relative to the horizontal plane of torus and radius thereof, and also on different diameters and levels. Distribution of heat and material flows in the volume of the melt being formed in reactor enhances efficiency of the plant for pyrolysis.