

APPARATUS FOR TREATING EFFLUENT GAS STREAM

Abstract

An apparatus for treating effluent gas stream includes a main body and a separation unit. The main body includes a first inlet segment to receive a guiding fluid, a second inlet segment to receive an effluent from manufacturing processes, and a channel portion in fluid communication with the first and the second inlet segments. A dimensional difference is provided between the first inlet segment and the channel portion, such that when the guiding fluid flows from the first inlet segment into the channel portion, a centripetal suction is generated based on the dimensional difference. The separation unit includes a discharge portion connected downstream of the channel portion, defining a second flow path that follows a first flow path defined by the channel portion. The separation unit further includes a negative pressure source connected to the discharge portion and generating a reverse negative pressure to the second flow path.

FIG. 2