What is Claimed is:

1. An apparatus for treating gaseous pollutants, comprising:

a gas inlet part, comprising a gas inlet chamber, at least one gas inlet tube and a cleaning element, wherein the at least one gas inlet tube is substantially obliquely installed in the gas inlet chamber and communicates with the gas inlet chamber, the at least one gas inlet tube coupled to a gas source and receiving a gaseous pollutant from the gas source, the cleaning element comprising a moving element and a cleaning head, the cleaning head connected to one end of the moving element, and the cleaning head configured to be driven by the moving element to move down to clean dust, particles or dirt adhering to the gas inlet chamber;

a water curtain scrubber, coupled to a bottom of the gas inlet part, configured to provide a water curtain to flush the gaseous pollutant to prevent dust or particles of the gaseous pollutant from adhering to a wall surface of the water curtain scrubber;

a circulating water tank, comprising a water collection space, a barrier, a first upper opening, a second upper opening, and a third upper opening, the barrier disposed in the water collection space and dividing the water collection space into a first region and a second region, the first region and the second region communicating with each other at a bottom of the water collection space, the first upper opening and the second upper opening communicating with the first region, the first upper opening coupled to the water curtain scrubber, and the third upper opening communicating with the second region;

a first space, coupled to the second upper opening of the circulating water tank and receiving the gaseous pollutant, the first space defining an inflow region and a first top opening, and the first space comprising a plurality of sprays to capture particles in the gaseous pollutant;

a second space, coupled to the third upper opening of the circulating water tank and fluidly connected to the first space, the second space defining an outflow region, the first space disposed adjacent to the second space, the second space comprising a second top opening, and the first top opening is laterally connected to the second top opening so that the second space communicates with the first space; and

a flow-guiding device, installed in a first channel between the outflow region and the inflow region, the first channel extending in a direction, the flow-guiding device comprising a fluid supply tube and a flow-guiding tube, the fluid supply tube being in the shape of a cone with a wide top and a narrow bottom, the flow-guiding tube being in the shape of a cone with a narrow top and a wide bottom, the fluid supply tube and the flow-guiding tube being spaced apart from each other along the direction, and a second channel being positioned in the first channel and formed between the fluid supply tube and the flow-guiding tube, wherein the fluid supply tube supplies an injection fluid to the flow-guiding tube, whereby a pressure difference is generated between the first channel and the second channel, and the pressure difference drives the gaseous

pollutant to enter the outflow region from the inflow region.

2. The apparatus for treating gaseous pollutants according to claim 1, wherein the flow-guiding device is a non-mechanical flow-guiding device.