ABSTRACT

Provided is a supercritical fluid drying device, comprising: a chamber, including an upper chamber body and a lower chamber body, the lower chamber body being disposed below the upper chamber body and configured to be movable relative to the upper chamber body in the vertical direction, allowing the upper chamber body and the lower chamber body to be closed to form a sealed chamber; a connection assembly and a locking mechanism, the connection assembly being used for connecting the upper chamber body and the lower chamber body, and the locking mechanism being used for locking or unlocking the connection assembly; an isolation assembly, configured to prevent contaminants generated by the connection assembly and the locking mechanism from entering the sealed chamber when the upper chamber body and the lower chamber body are closed, and/or to prevent the contaminants from entering an open space between the upper chamber body and the lower chamber body corresponding to the sealed chamber when the upper chamber body and the lower chamber body are not closed. By arranging the isolation assembly between the connection assembly and the chamber, contamination of the sealed chamber is reduced or even prevented, thereby improving the cleanliness of the sealed chamber, improving the process result, and enhancing the process yield.