

TITLE OF INVENTION: AN EXTRACTION SYSTEM OF ENVIRONMENTALLY FRIENDLY KITCHEN FOR FUME PURIFICATION

ABSTRACT

An extraction system of environmentally friendly kitchen for fume purification, comprising an oil fume extraction system that generates negative pressure through a negative pressure device to inhale the oil fume in the kitchen; an oil fume condensation chamber, and a filter for cooling and condensing the oil fume is provided in the chamber; the oil fume condensation chamber is provided with an inlet of condensed air; a ventilation device inhales the air in the ventilation space and compresses by the compression device and sends to the vortex tube. The low-temperature air outlet of the vortex tube is connected to the inlet of condensed air of the oil fume condensation chamber; the oil fume condensation chamber is used to cool down the internal temperature through the low-temperature air generated by the vortex tube, keeping the filter in a low-temperature environment; the oil fume is cooled and collected when passing through the low-temperature filter, thereby greatly reducing the amount of oil fume emissions.

Fig. 1