

**Regenerative Apparatus for the Recovery of Volatiles**

The Regenerative Apparatus for the Recovery of Volatiles is a patented apparatus that will remove volatile organic chemicals from air and other gasses. This apparatus specifically provides for the collection of volatile chemicals and their conversion from a vapor state to a containable liquid that can be easily dispensed as a recycled product. The apparatus employs a two step process. The first step, adsorption of the volatiles, can be accomplished with any media that is compatible with uniform dielectric heating. The adsorbents become saturated with the volatile chemical during this step of the process. In the second step, the volatile chemicals are removed from the adsorbent. The apparatus contains a unique microwave applicator to provide heat for this removal. Specifically, the energy needed to desorb the media is projected into a cylindrical vessel that contains the saturated adsorbent. The recycle value of the recovered volatile organic chemicals can potentially yield a profit for the users of this device.

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