

Installation Procedures For Kleen.Air Filters

BakerCorp's vapor phase carbon adsorption systems (Kleen.Air filters) are designed for maximum simplicity of installation and operation. Follow these procedures to place your filter in operation for vapor phase pollution control applications:

- 1) A forklift or crane with adequate capacity is required to unload and move the filter unit. (See product specification sheet for shipping weights.)
- 2) Place the filter in the designated area. These units require no special bracing or supports for most applications. The only requirement is a flat surface capable of supporting the total weight of the unit.
- 3)
 - a. Most Kleen.Air filters are supplied with standard N.P.T. female connectors on both inlet and outlet. Camlock fittings are optional — if supplied, the inlet will be a female cam and the outlet a male cam. Inlet is normally at the bottom of the filter, with the outlet on top.
 - b. The Kleen.Air 1000R & 1500R come with 10" pipe connections. The Kleen.Air 4000R has 18" duct connections. (See product specification sheet for details.)
- 4) Connect your contaminated vapor stream to the inlet fitting on the filter, using a standard male threaded connection or male cam if so equipped.
- 5) Connect the vapor discharge line (if applicable) to the outlet fitting on the filter, using a standard male connection or female cam if so equipped.



Warning

- The carbon adsorption process is an exothermic (heat producing) reaction. In most cases, only a slight warming of the filter will take place, not enough to be noticeable. However:
 - Certain chemicals may oxidize (e.g. chlorine) or polymerize (e.g. Ketones) when adsorbed by the activated carbon bed. Great care must be taken to dissipate the heat produced by these reactions to prevent bed fires when adsorbing these types of contaminants.
 - Caustic impregnated carbon generates heat when contacted by air, which could result in temperature increases causing ignition, particularly at low flow rates and high concentrations.
- Wet activated carbon readily adsorbs atmospheric oxygen. Personnel must follow all applicable guidelines for entering oxygen-depleted areas before entering vessels or enclosed carbon storage areas.
- Do not exceed the maximum pressure rating for the filter at any time. Most flat-top filters are good for no more than 10-12 psig. Please see product specification sheet.

Please contact BakerCorp if further information is needed.

Filter Maintenance:

- The filter unit requires no maintenance during operation; except to ensure that the inlet/outlet lines do not become obstructed.
- The filter should always be installed and operated in a vertical upright position.
- Larger carbon filters are furnished with a condensate drain. Accumulated water should be manually emptied on a regular basis by opening the drain valve at the bottom of the filter.

Preparation for Service or Disposal:

When the carbon is determined to be "spent", disconnect the piping from the inlet and outlet connections. Blank the vessel connections with standard N.P.T. pipe plugs prior to servicing or transportation to the treatment/disposal facility.

Should any questions arise during installation or operation, please call BakerCorp for guidance and assistance.