

Installation Procedures For Kleen.Water Filters

BakerCorp's liquid phase carbon adsorption systems (Kleen.Water filters) are designed for maximum simplicity of installation and operation. Follow these procedures to place your filter into operation for aqueous 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 filters require no special bracing or supports for most applications. The only requirement is a flat surface capable of supporting the weight of the unit when filled with water. **Note: The operational weight exceeds the shipping weight** — see product specification sheet for water capacity.
- 3) Most Kleen.Water filters come with standard N.P.T. female connectors on both inlet and outlet. Optionally, they may be equipped with camlock fittings — female on the inlet at the top of the unit and male at the outlet near the bottom. (See product specification sheet for sizes.)
- 4) Connect your contaminated liquid stream to the inlet fitting on the top of the filter, using a standard male threaded connection or male cam if so equipped.
- 5) Connect the liquid discharge line (if applicable) to the filter outlet fitting near the bottom of the filter, using a standard N.P.T. male connection or a female camlock if so equipped.

Note: The filter should be filled with water and allowed to soak for several hours before start-up to eliminate air pockets and channeling effects. Air must be vented at the top of the unit while filling with water.

Special Instructions for Flat-top Filters:

Baker's flat-top filters are not pressure rated. To avoid possible damage and leakage, these filters must be operated either under gravity flow or a slight vacuum at all times. (Dome top units are pressure-rated, typically for 75 psig. See product specification sheet for details.)



Warning

- **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 of the filter at any time. Please see product specification sheet.**

Please contact BakerCorp if further information is needed.

Maintenance of Kleen.Water Filters:

- The filters require no maintenance during operation, except to ensure that the inlet and outlet connections do not become obstructed.
- The filter should always be installed and operated in a vertical upright position.

Preparation for Disposal:

When the carbon is determined to be "spent", disconnect the piping from the inlet and outlet connections. Drain all liquid from the vessel, then blank the inlet and outlet connections with standard N.P.T. pipe plugs prior to taking any other action. The filter must be drained of any free liquid prior to beginning service or transporting the filter to the treatment/disposal facility.

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