OPERATION AND
SERVICE GUIDE
O-530A
MARCH 2002

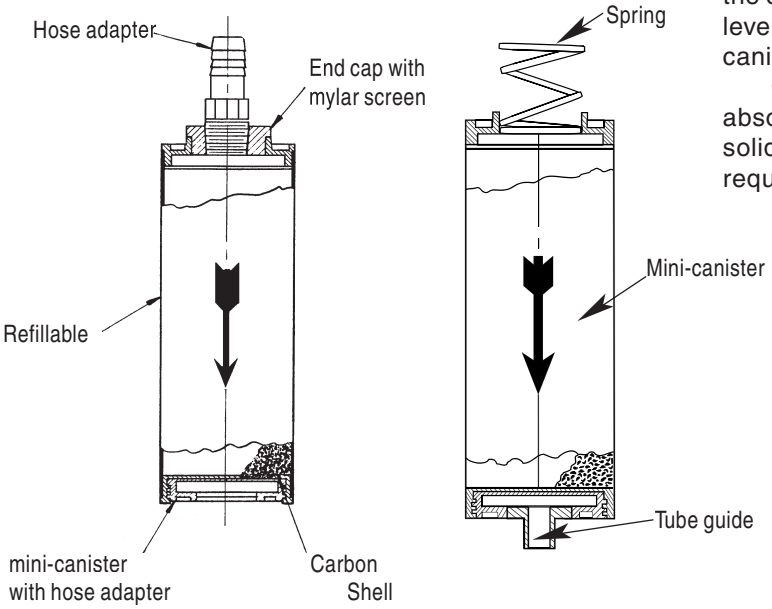
REFILLABLE BULK CARBON MINI-CANISTERS

MODELS
SF-4ABS to SF-40ABS

See Bulletin R-102 and Parts List P-4600

Activated granular carbon is an effective method of removing organic impurities from plating baths and purifying other chemical solutions. SERFILCO's refillable bulk Mini-Canisters are ideal for this type of application. Canisters are available in 4", 6", 10", 20", 30" and 40" lengths constructed of ABS plastic with Mylar screens on both ends. A screw type closure located on the outlet end of the unit facilitates carbon replacement. Units are available with 1/2" or 3/4" hose barb adapters. The unit is also available in CPVC for installing into the Series 'L' chamber with 3/4" threaded connections or the reinforced polypropylene Series 'GPO' chamber. The Series 'GSO' chamber features a clear styrene acrylonitrile shell with reinforced polypropylene cover. The Series 'GPO' and 'GSO' chambers are available in 10 or 20 inch lengths only, with 3/4" threaded connections. Installing a pre-filter chamber in front of the carbon canister will remove the bulk of the solid impurities, prolonging the life of the carbon. Carbon requires a low flow rate/contact time to properly activate. The quality of solution purification is controllable by the contact time between the solution and the carbon. Activated carbon is dependent upon factors such as type of carbon, type of solution, solution temperature, and degree of impurities in the solution. Adjust the flow rate for optimum absorbency through the Mini-Canister to 1-1/2 GPM maximum. Maximum tem-perature rating of the canister is 150°F.

Verify the compatibility of all components with the solution being purified, as well as the maximum operating temperature and pressure. Review the parts list and maintain an emergency inventory of replacement items to assure that the unit is returned to service with the least delay. Record model number for future reference. Specify number when ordering parts. Unit is shipped completely assembled and ready for installation. Activated granular carbon must be ordered separately.



INSTALLATION

We recommend that the Mini-Canister be installed to the outlet of a pre-filter chamber. Installing a tee and valve between the outlet of the pre-filter and the inlet of the Mini-Canister will allow by-pass of solution to permit flow rate and contact time between the solution and the carbon to be controlled (Fig. 1). The canister can be connected directly to the discharge of a pump (Fig. 2). For installation of the Mini-Canister in a chamber housing, refer to Figures 3 & 4. Be sure to use appropriate plastic piping for this type of installation.

Hose adapter Model

Attach suitable hose to the hose-barb adapter of the Mini-Canister with a hose clamp. Submerse canister completely into solution.

Chamber Model

This model is installed in a filter chamber in the pipeline, with the chamber normally supported by a flat surface under its base. Carefully note INLET and OUTLET connections. Install in proper direction of flow. Ball valves installed immediately before the inlet and after the outlet are suggested to prevent flooding when replacing expended carbon. A check valve installed on the chamber discharge line will prevent back siphoning when the system is shut down. Installing a hose from the vent valve back to the tank will prevent solution from spraying when venting the unit. Place guide with rubber gasket into base of chamber. Place chamber cover on top of spring and tighten knobs evenly. Open the vent valve on the chamber cover until trapped air escapes.

SERVICE

Remove the threaded outlet cap of the canister by turning counterclockwise. Fill canister with carbon. Tap the sides of the canister so that the carbon settles and the carbon level is slightly below the threads of the canister. Flush the canister with water until discharge runs clear.

Carbon requires replacement when it no longer has its absorbency property. A reduction in flow rate indicates solids contamination. The installation of a pre-filter will be required to avoid solids contamination of the carbon.

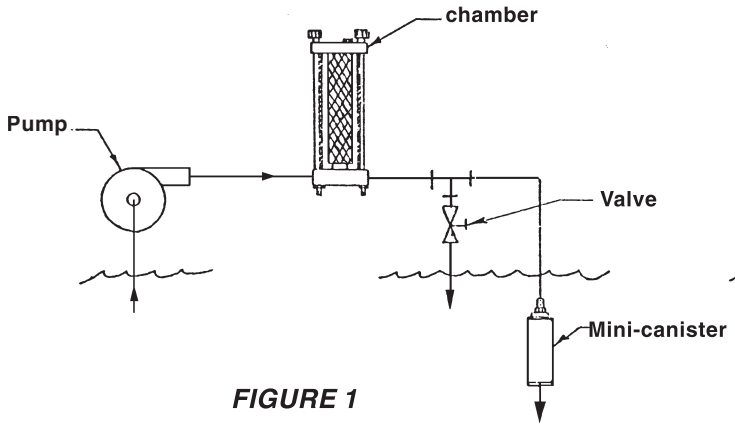
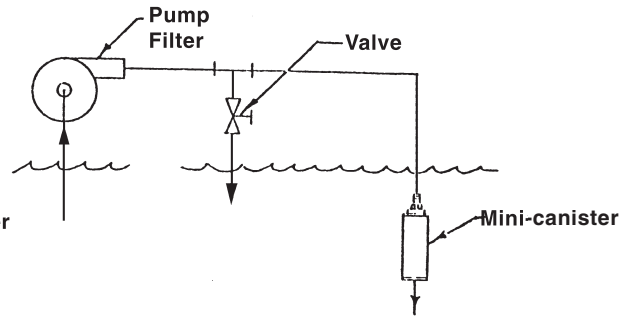


FIGURE 1



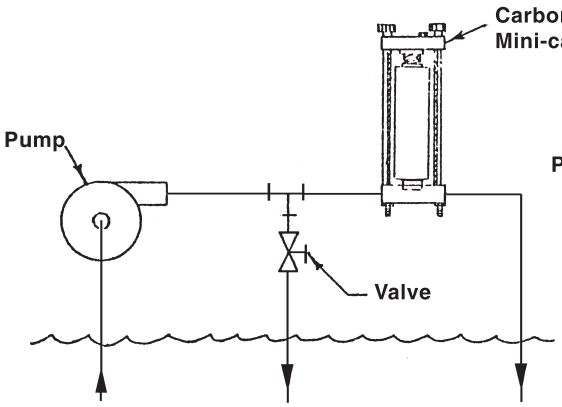


FIGURE 3
FIGURE 4

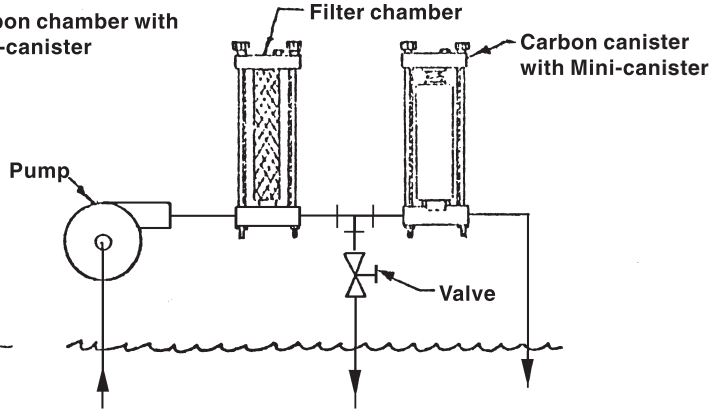


FIGURE 2

CAPACITIES

HOSE ADAPTER MODEL	FLOW RATE GPM	CARBON CU. IN	CONTENT LB.
SF-C4ABS-HB.5 or HB.75	1-1/2	21	0.36
SF-C6ABS-HB.5 or HB.75	1-1/2	31	0.54
SF-C10ABS-HB.5 or HB.75	1-1/2	52	0.9
SF-C20ABS-HB.5 or HB.75	1-1/2	105	1.8
SF-C30ABS-HB.5 or HB.75	1-1/2	157	2.7

ACTIVATED GRANULAR CARBON		ACID WASHED SULFUR FREE ACTIVATED GRANULAR CARBON	
WT. (LB)	PART NO.	WT. (LB)	PART NO.
10	99-0992	10	99-0993
40	99-0990	40	99-0989
50	99-0995	50	99-0996

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