



# FLO KING PERMACORE REUSABLE CARBON BAG DISASSEMBLY AND CLEANING INSTRUCTIONS

*Always wear proper protective gear such as gloves, aprons and goggles. Solution safety procedures must be followed to prevent injury or damage to personnel and the environment.*

## DISASSEMBLY & CLEANING INSTRUCTIONS

When shipped by the factory, the Permacore Reusable Carbon Bag is filled with carbon and ready to use. When the carbon is spent, you must disassemble and clean the bag, then refill with carbon and reassemble the bag. To disassemble and clean:

1. Remove carbon bag from Flo King pump by loosening thumb screws (filter screws) on pump. Allow bag to drain in bucket.
2. Untie two knots on strings at top of bag. Use pointy implement if necessary to help untie knots.
3. Fully loosen string and then open top of bag.
4. Remove Carbon Retainer Ring (white ring) from top of bag.
5. Empty carbon from bag. Make sure to dispose of carbon in accordance with applicable environmental regulations.
6. Loosen nut at bottom of bag.
7. Remove filter cartridge from bag.
8. Slide plastic web off of filter cartridge.
9. Unroll filter blanket from cartridge core. Most users then lay blanket on piece of grating over suitable tank, drum, reservoir or wastewater treatment pit and spray each side using an ordinary hose and spray nozzle (or, if available, pressure spray washer). Normally, this is sufficient for cleaning; however, some contaminants may build up and not flush out completely. In many applications, these contaminants can be removed easily by placing "Magnum" filter blanket in an appropriate chemical solution.

**CAUTION:** *Never mix cyanide-laden materials with acids; this combination produces hydrogen cyanide gas, which is lethal if inhaled! The process solution to which the "MAGNUM" blanket has been exposed must be compatible with the acid from a SAFETY and USE standpoint.*



Clean blanket.



Re-roll blanket around core.



(L-r) Place plastic loading slats over filter. Then slide web over slats and pull down. Remove slats and cartridge is ready to reuse.



## FLO KING PERMACORE REUSABLE CARBON BAG REASSEMBLY INSTRUCTIONS

### REASSEMBLY INSTRUCTIONS (REFER TO PHOTOS ON PAGE 3)

1. Insert filter cartridge into bag. Make sure to keep cartridge in center of bag.
2. Tighten nut at bottom of bag onto threaded end of filter cartridge (Fig. 1).
3. Fill bag with carbon until it reaches bottom of Permacore Head—about 1-1/2" (4 cm) from top of filter cartridge (Fig. 2). **Caution: Do not overfill bag and do not allow carbon to get into center of filter cartridge!**
4. Stretch Carbon Retainer Ring over Permacore Head (Fig. 3).
5. Lower Carbon Retainer Ring until it is positioned just above carbon on lower groove of Permacore Head (Figs. 4 and 5).
6. Cross strings on top of bag to prevent bag seams from pulling apart. Pull string on right side of Bag about 3" (8 cm) longer than string on left side of bag (Fig. 6). Wrap strings once around top of bag (Fig. 7).
7. Position bag so that vertical seam on bag is on your left. Loosely tie square-knot as close as possible to vertical seam on bag (Fig. 7).
8. Slowly pull string tight while pushing square knot toward Permacore Head (Fig. 8). *(Note: It is advisable to use gloves to pull string tight. An even better idea is to make an improvised tool as shown in Fig. 8, using 1/2"-diameter pipe with a couple of drilled holes. Thread bag strings through pipe holes to improve leverage, then use tool as a handle to help tighten bag strings.)*
9. If necessary, use a pointy tool, like scissors, to lift and move material at top of bag closer to Permacore Head in order to fully close bag and prevent carbon from escaping (Fig. 9).
10. Pull strings until tight against top of bag. Then use a strong jerking motion to fully tighten knot.
11. Wrap strings around top of bag a second time, then tighten and tie another square knot for additional security.
12. Tie strings together to make a loop for use as a handle. The handle is helpful when lowering bag into solution for carbon treatment.



# REASSEMBLING FLO KING PERMACORE REUSABLE CARBON BAG: STEP BY STEP



**Fig. 1.** Insert filter cartridge into bag and tighten nut at bottom.



**Fig. 2.** Fill with carbon to bottom of Permacore Head.



**Fig. 3.** Gently stretch Carbon Retainer Ring over Permacore Head.



**Fig. 4.** Lower Ring to bottom groove of Permacore Head.



**Fig. 5.** Carbon Bag should now look like this.



**Fig. 6.** Pull string on right side of bag about 3" longer than on left.



**Fig. 7.** Wrap strings around top of bag. Loosely tie square knot.



**Fig. 8.** Use gloved hand or tool to help tighten string.



**Fig. 9.** Use pointy tool to move bag material close to Head.