

IN-TANK TECHNOLOGY



INTRODUCTION TO FLO KING FOUR-IN-ONE SYSTEMS

Flo King in-tank technology for the metal finishing industry is a radical departure from conventional approaches. Traditionally, metal finishers have relied on out-of-tank systems, which use a tube or hose to draw solution outside the tank and “push” it through a filter cartridge or series of cartridges in a filter chamber. Leaks and spills due to corroded plumbing, loose clamps, leaky seals, etc., are commonplace.

Flo King eliminates those and many other concerns.

- Lightweight, in-tank **Flo King** systems provide flow rates of hundreds and even thousands of gallons per hour and can be stationed permanently on one tank or moved from one tank to another as needed.
- Since they employ no hoses, clamps, tubes, plumbing, filter chambers or *any* external apparatus, **Flo King** systems eliminate the possibility of leaks and spills. Solution never leaves the tank.
- **Flo King** systems are supplied complete, preassembled, and ready to operate, with no costly installation or floorspace required. Yet they take up only inches of in-tank space.
- **Flo King** filter changes are achieved quickly, without tools.
- **Flo King** systems can PUMP solution from one tank to another, FILTER in a variety of configurations, AGITATE to promote uniform chemical composition and temperature, and TREAT using carbon for the removal of organic impurities. That’s why we call it the “four-in-one system.”

HOW IT WORKS

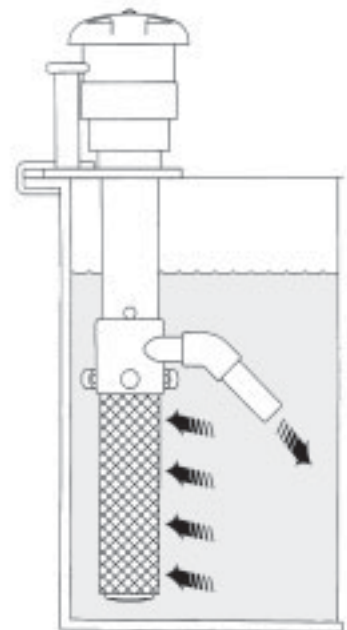
With vacuum-side, in-tank **Flo King** filtration, one or more filter cartridges are totally immersed in the tank and solution to be filtered. Solution is then “pulled” by vacuum through the cartridge(s), after which it travels a few short inches before being expelled from a directable discharge port on the pump body.

As this filtered solution is discharged at a high rate, agitation and solution circulation are achieved as a natural byproduct of filtration.

The **Flo King** system can be used with high-quality disposable or reusable filter cartridges. When dirty, the reusable blanket-like material is unrolled from the cartridge core. Many users then lay the material on a piece of metal or plastic grating over a suitable tank, drum or other reservoir and spray it clean using an ordinary hose and spray nozzle (or pressure washer, if available). While still wet, the blanket can be rerolled around the core (also reusable) and reused many times. The **Flo King** system is also readily used with carbon-containing attachments to remove organic impurities—in the tank, without messy, expensive, time-consuming batch treatment in a separate tank.

Vacuum-side **Flo King** filtration provides another important benefit: *particulate penetration deep inside the filter media*. With conventional pressure-side filtration, solution is essentially “pushed” through a filter cartridge. But with each and every **Flo King** system, solution is “pulled” through the cartridge by vacuum, providing particulate penetration and retention deep inside the filter media *where the filter fibers are more densely packed*. That translates to *very fine* filtration!

Now that you have had a brief introduction to our products, we invite you to take the next step and examine the rest of our catalog. Then contact the factory or the appropriate representative with the information requested on Bulletin 12.1. Once armed with facts about your specific application, we can recommend a system for you immediately!



Pioneers of In-Tank Filtration ★ www.floking.com

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