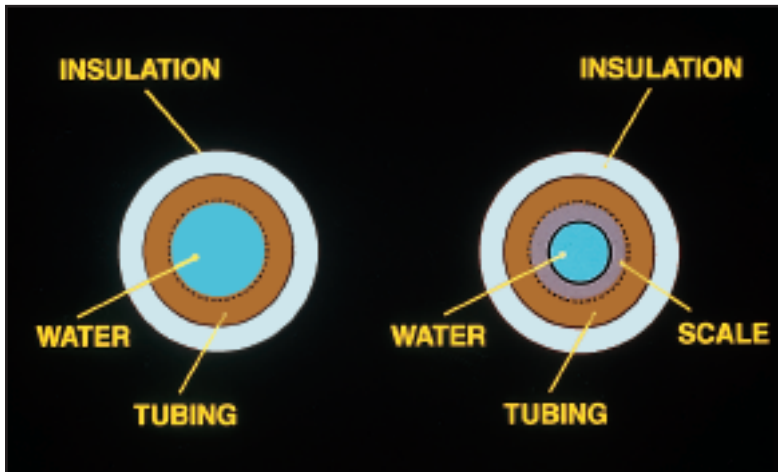


HOTLINE



EMSCO Filter Systems



Filter systems provide easy solution for elimination of maintenance problems with induction system water quality

You have a perfectly good water system attached to your induction equipment so your system's water requirements are being satisfied... maybe. Yes, you probably have the flow your system needs so it is being cooled properly. But have you ever thought about the type of water that was flowing through your system? And what it might be doing to your equipment? Water quality becomes an issue, in particular, when you use city water and/or have an open cooling system.

Dirt, debris, and non-dissolved solids in the water can pose a problem, if not immediately then over time and when you least expect it. Even in a closed water system, non-dissolved solids in the water can build up on the walls of your system reducing its cooling efficiency over time.

EMSCO provides custom designed water filter systems for both induction and non-induction furnace applications. Your system is designed to meet your demands and requirements, capable of removing all non-dissolved solids down to 50 microns. **EMSCO** specializes in **full flow** filter systems. This means all the water that flows through the water system is filtered **all the time**.

This design does not allow any of the water in the system to bypass the filter during normal operation. Traditional water systems use a side stream filter system that only lets up to 20% of the water in the cooling system flow through the filter system at any given time.

This means there remains the possibility of dirt in the water system that can clog up cooling passages, reduce the efficiency of the cooling system and cause possible equipment damage. **EMSCO** custom designed filter systems eliminate these problems altogether.



BULLETIN M13/1M/0408

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Options

- **Bag-type Filter Systems** feature either an audible alarm system to indicate when to change the filter bag or bags, or a manual system using differential liquid filled pressure gauges.
- **Centrifugal Filter Systems** offer an automatic programmable blow-down or bleed system to remove dirt from the filter system without taking it out of service, or a manual blow-down or bleed system to remove dirt from the system.
- **Automated Bag-type Filter Systems** are designed to change automatically from one filter system to another standby filter system whenever it is necessary to change filter bags. This system also activates an alarm telling you to change the filter bag in the off-line filter. When this system is used it is never necessary to interrupt the filtration of the water in the cooling system for maintenance or when changing the filter bags.



All **EMSCO** filter systems, ranging from 3 GPM to 4000 GPM can be designed to be either retrofitted into existing water systems or incorporated into new water systems designed, and built by **EMSCO**. Additionally, **EMSCO** also offers laboratory analysis of both water samples and the solids removed from the water samples. These laboratory analysis reports will help determine the filter system best suited to your water system, as well as revealing any possible problems with your water system. If you have doubts or questions about the quality of the water flowing through your melt system, consult **EMSCO**.



EMSCO is ready when you need us...every day.

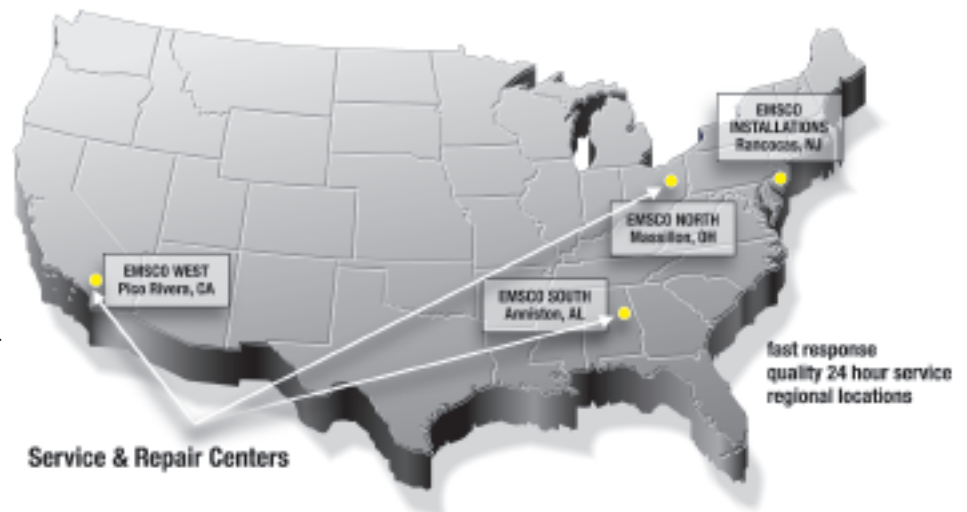
EMSCO's Commitment to you

KNOWLEDGE: EMSCO will begin each project with a customer-focused understanding of the problem to be solved and a soundly engineered approach to the solution.

COST: EMSCO will, when possible, offer more than one level of service and will explain the costs and compromises associated with each. Every option we propose will meet industry standards for safety.

QUALITY: EMSCO will understand and meet the quality expectations agreed to at the start of the project. Warranties will be explained and will set the standard for the industry.

OUR GOAL: EMSCO will provide quality services at reasonable prices so that our customers have the competitive edge in their markets.



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