

Industrial Steam Two-Compartment Deaerator
vs.
BFS Industries Class "S" Deaerator

The **Industrial Steam Two-Compartment** design evolved from the atmospheric type deaerator design originated by Schaub Engineering and copied by Domestic and Industrial Steam. This atmospheric type deaerator was never accepted, possibly because of its poor performance and therefore Schaub went out of business and Domestic discontinued its use. Industrial Steam, we suspect, had a similar problem and opted to market a pressurized deaerator by merely pressurizing their atmospheric design.

The double tank design manufactured by Industrial Steam touts huge storage capacities which is in reality a total capacity of both compartments. The fallacy of this is that one of the compartments contains undeaerated water and is therefore unusable as boiler feedwater. It is questionable why this is an advantage since if undeaerated water is acceptable, why not then merely install a "quick opening by-pass" feeding directly from the city water line into the deaerator. A "recycle pump" is also required by design to move the water from one section to another.

All in all, this system is a make-shift of its predecessor, which requires additional equipment, maintenance, expenditures, and space with absolutely no advantage. A BFS deaerator on the other hand, will store only fully deaerated water and maintain it for immediate use. When comparing BFS and Industrial Steam, it should be determined how much "**fully deaerated**" water is required and what each deaerator design actually offers.

It should also be pointed out that all respected, time-proven deaerator manufacturers such as Permutit, Chicago Heater, Crane Cochrane and Garver, to mention just a few, utilize a single compartment Spray/Scrubber type design.