

In September 2002 a Bauer device and filters along with a new heat-exchanger were installed in our ventilation-heating system. Piping and some of the devices have been working since 1972. For system maintenance we used inhibitors and expensive and time consuming chemical ablation earlier but it did not give satisfactory results.

Operation results of the Bauer device could be visually monitored: although circulation water seemed visible clear and transparent, a lot of blackish rusty deposit collected on filter elements. This is a sign of cleaning of the system.

Water sample taken before installation of the system in 09/2002 shows clear signs of corrosion processes:

Time of analysis	23.09.2002*	14.03.2003	28.01.2004	*Pre-installation water sample
Fe _{general} mg/l	3.38	0.60	0.19	Norm 0.2 mg/l
Iron Fe ²⁺ mg/l	2.45	0.33	0.19	
Iron Fe ³⁺ mg/l	0.93	0.27	-	
pH	7.77	8.22	8.51	
Oxidation properties mgO ₂ /l	90	2.2	3.1	

Post-installation water samples show remarkable reduction of corrosion.

We are very satisfied with the results of the Bauer device, since the system is treated and works without problems.

A clean heat-exchanger saves energy and reduces operation costs.

Tallinn, 14 November 2007

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