

REFERENCE – heating water Neue Mitte Hagenberg, 4232 Hagenberg, Austria



©Rupert Steiner



Products: ACTIV 6/4"
HS-F 6/4" heating protection filter

Gerhard Müller, General Manager Sales, Engineering & Innovation reports:

„The basic data for this system are:

District heating – heat exchanger 85 kW, stainless steel, copper, soldered
System volume: approx. 2,5 m³
Materials: steel, brass, plastic
No buffer tank

The problem:

The business premises and apartments were no longer warm and the desired room temperatures were not achieved.

The solution:

I remediated this system with the company Ing. Gerold Steininger in Pregarten and installed an EWO ACTIV device in 6/4 "and a 6/4" heating protection filter.

The basis for this was an initial analysis of the existing heating water.

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The following further analyzes were carried out:

1. Follow-up analysis on June 8, 2020 - our devices were in operation for about 10 days
2. Follow-up analysis on November 16, 2020 - here the values are already TOP, the ammonium content has changed compared to the analysis from June 8, 2020. will be reduced again in the future.
3. Another control analysis will be carried out at the end of March 2021

What has happened in time since the remediation:

It's cozy and warm again in the business premises and apartments!

Since then, district heating has had optimal heat emission from the heat exchanger.

The magnetic rod built into the EWO ACTIV device was cleaned every 4 weeks, the magnetite deposits on the magnetic rod are less and less.

The heating protection filter used here has a special construction, which means that dirt can partially be rinsed out during operation. This was done every 4 weeks.

On Tuesday, December, I was there. The heating water is optically clear, no suspended matter, pH 9.73.

Few deposits on the magnetic rod, hardly any suspended matter when rinsing out the heating protection filter

Here you can see very well how our EWO® technology works after a short time.“



11 December.2020

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EWO Wassertechnik GmbH



Wasser - Analyse Nr. : 200618 201120

Auftraggeber	Firma : Ing. Steininger, 4230 Pregarten	Probe	: Heizwasser		
Kunde	Name : Neue Mitte Hagenberg, 4232 Hagenberg	Anlage	: Fernwärme		
	Hauptstraße 90	Entnahmestelle	: Verteiler		
Probe Entnahme	Datum : 03.06.2020 12.11.2020	Wasserinhalt m³	: 2,00		
Probe Eingang	Datum : 05.06.2020 13.11.2020	dav. Puffer m³	: -		
EWO Gerät installiert	: ACTIV 6/4" Jun.20	Heizleistung kW	: 85		
		verb. Materialien	: St. C-St Cu Kunstst.		
Analyse am	Datum :	23.01.2020	08.06.2020	16.11.2020	
Sensorische Prüfung		Sollwert	Externe Analyse*	1. Folgeanalyse	2. Folgeanalyse
Farbe		klar	rostbraun	klar	klar
Geruch		neutral	aromatisch	l. chemisch	neutral
Bodensatz		keiner	ohne	schw. Flocken	w. br. Flocken
Temperatur		20°C	20°C	22,1	20,5
Parameter					
pH Wert	pH	8,2 - 10	7,70	8,42	9,76
Leitfähigkeit	µS/cm	<500	496	120	158
Redox Wert	mV	50 - 200		61	83
Gesamthärte	°dH	-	13,60	1,04	1,12
Gesamthärte	mmol/l	-		0,19	0,20
Eisen gelöst (Fe)	mg/l	<0,1	90,40	0,009	0,009
Zink (Zn)	mg/l	-	3,39		
Kupfer (Cu)	mg/l	<0,1	2,96	0,006	0,006
Aluminium (Al)	mg/l	-	0,05		
Magnesium (Mg)	mg/l	-	18,70		
Chlorid (Cl)	mg/l	<30	21,80	1,54	1,74
Phosphat (PO4)	mg/l	-	<1,00		
Sulfat (SO4)	mg/l	<30	21,50	5,36	8,31
Ammonium (NH4)	mg/l	<0,1	0,30	0,69	0,49
Nitrat (NO3)	mg/l	<30	9,70	<10	<10

*Externe Analyse vor der Anlagensanierung

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