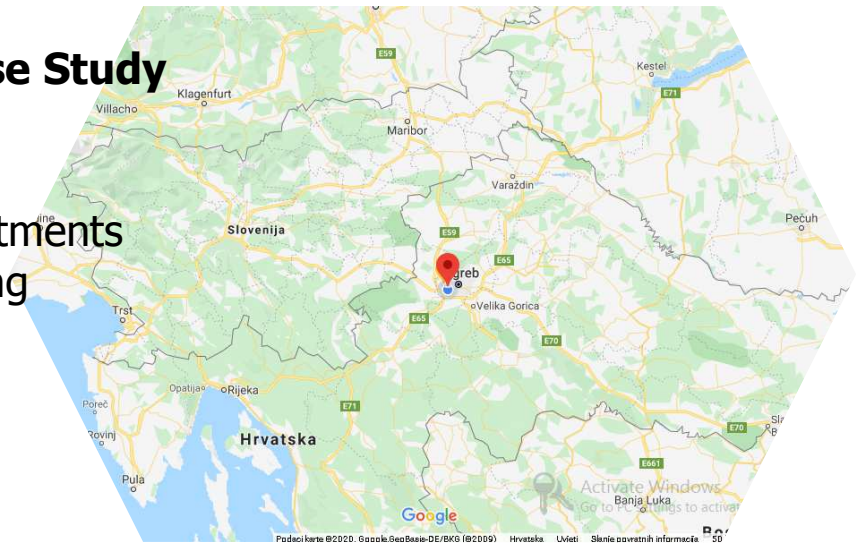




## Nobel Water Systems Case Study

### Residential Building, 29 apartments In Zagreb, Croatia – Softening Of the Sanitary Water



#### Summary

Location	Zagreb, Croatia
Address	Cirkovljanska street
Time of Installation	December 2019
Key Products	Installed Mechanical filtration 2" and EcoWater Systems - 2" Simplex Softener - 283I Ion-Exchange Resin



#### The facility

A residential building with 29 apartments, monthly water usage around 300m<sup>3</sup>. Heating delivered by Municipal Heating Plant with a heating station inside the building and heat exchangers in each flat for the purpose of sanitary water heating. Frequent failiures of the heat exchangers due to high water hardness – 24°dH. We treated the water mechanically and softening to the level of 3°dH. The economical result will be appart from avoiding frequent repairs and purchases of new heat exchangers, protection of all the water elements and discomforts from the

scale and other similar issues inside the households. The paying off the System in a few years with working costs included.

#### Sanitary water system

The table below sets forth the pre-treatment and water softener installed.

Municipal water come into the building system at 2" installation.

#### Process

Big particles are removed like rust and dust  
The softening of both municipal from 24 to 3°dH

#### Product

2" sed. filters 80mic  
2" Simplex softener 286I

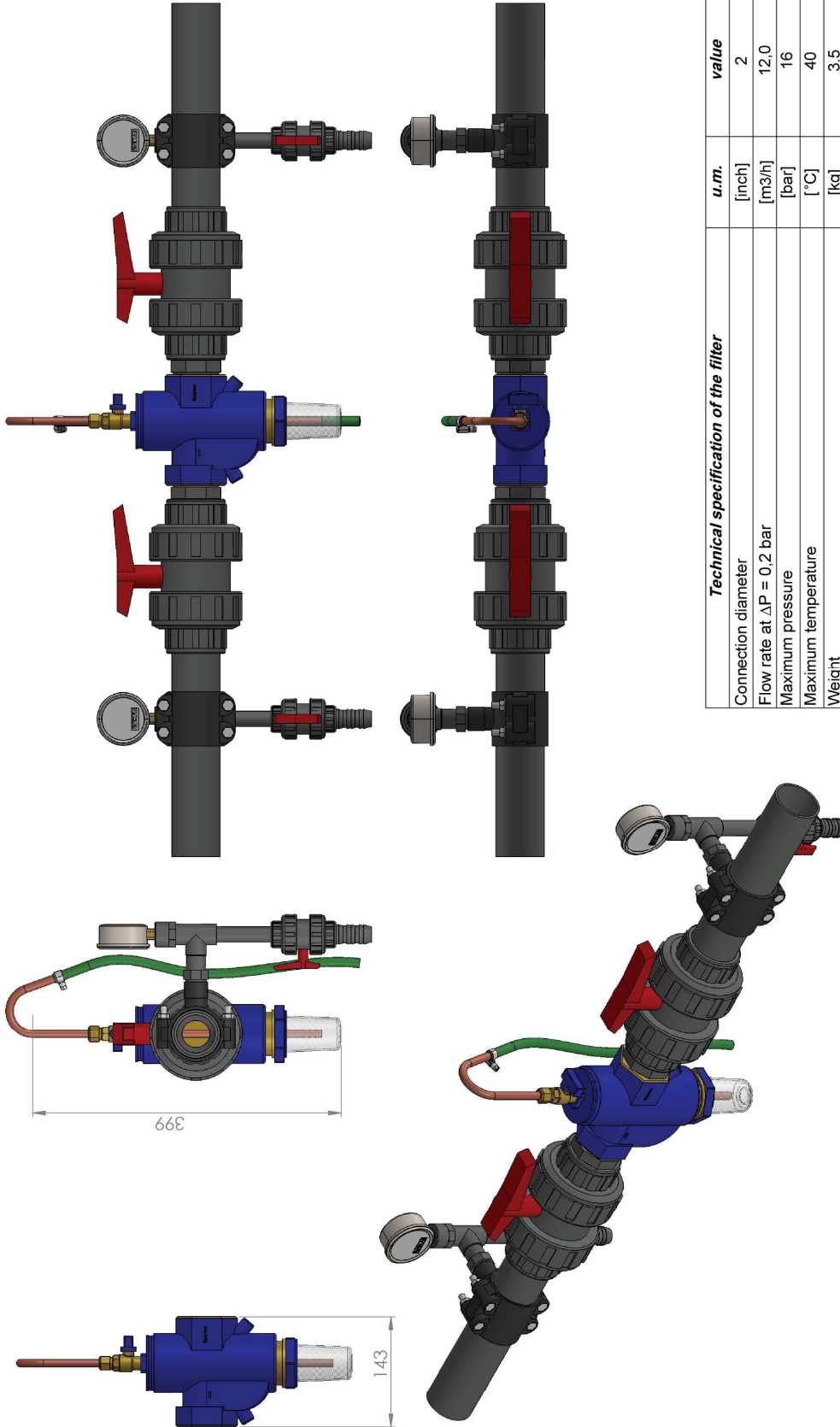
#### Brand

Nobel  
EcoWater



Residential Building, 29 apartments  
In Zagreb, Croatia – Softening  
Of the Sanitary Water



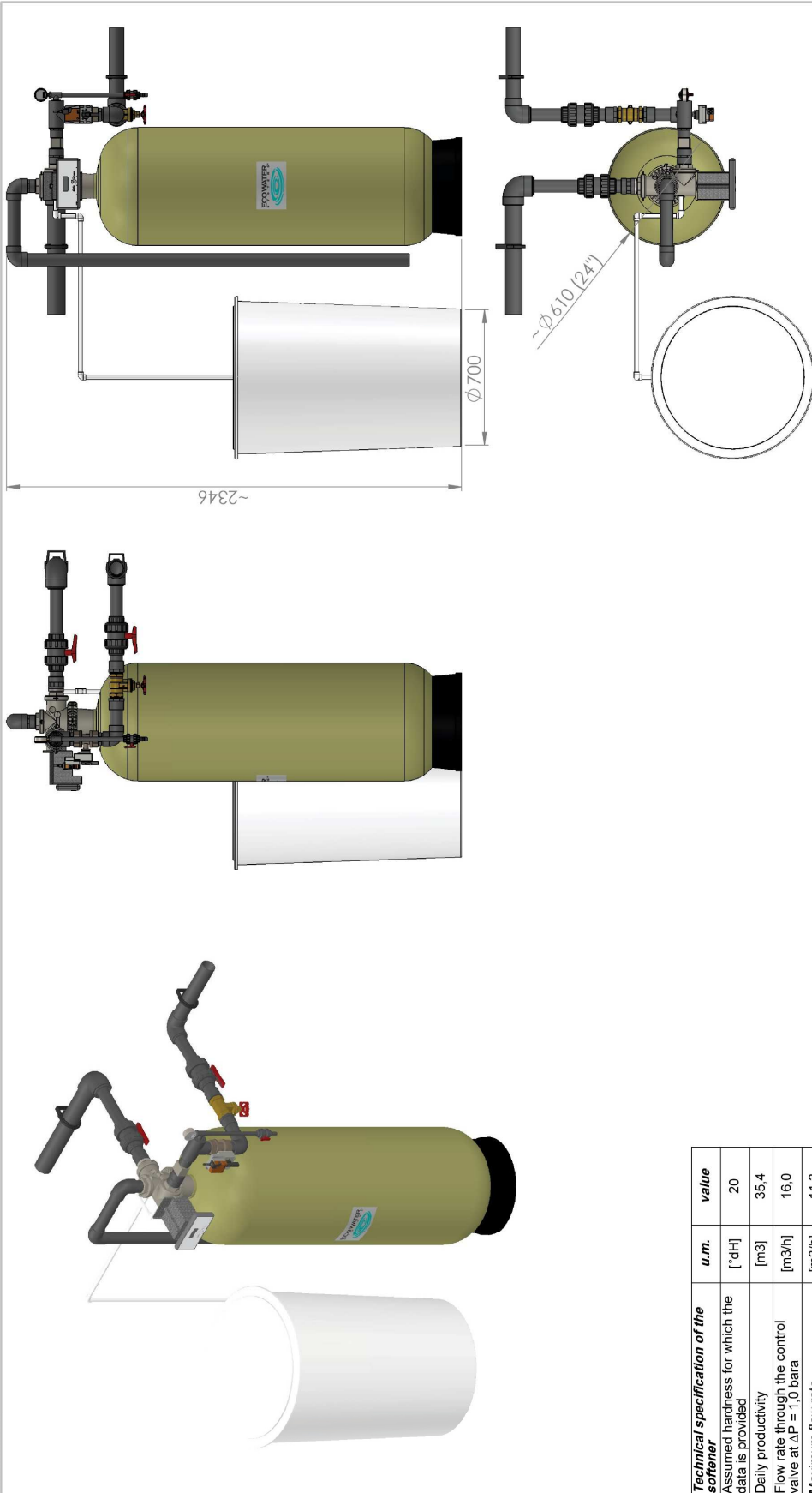


Technical specification of the filter		u.m.	value
Connection diameter		[inch]	2
Flow rate at $\Delta P = 0,2$ bar		[m <sup>3</sup> /h]	12,0
Maximum pressure		[bar]	16
Maximum temperature		[°C]	40
Weight		[kg]	3,5

Customer:		Investment:	
Technology:			
<p><b>ECOWATER</b> SYSTEMS<sup>®</sup> Your Water. Perfected.</p> <p><b>NOBEL WATER SYSTEMS d.o.o.</b> Medačka 18 10000 Zagreb, Hrvatska tel.: + 385 1 7778662 e-mail: nobel@nobelcorporation.com</p>			
Title		EPURION A 50-2	
draw	NAME	DATE	Client No
checked	SIGNATURE		
approved			Drawing No
			A3

Indicated dimensions might be slightly different in reality.  
 A schematic diagram of connecting of the device.  
 The unit is supplied without:  
 - Piping (PVC glued)  
 - Manual shut-off valves,  
 - Manual control valves,  
 - Valves for sampling,  
 - Clamp saddles,  
 - Manometres



Technical specification of the softener	u.m.	value
Assumed hardness for which the data is provided	[°dH]	20
Daily productivity	[m <sup>3</sup> ]	35,4
Flow rate through the control valve at ΔP = 1,0 bara	[m <sup>3</sup> /h]	16,0
Maximum flow rate	[m <sup>3</sup> /h]	11,3
Volume of brine tank	[l]	460
Required flow rate during regeneration	[m <sup>3</sup> /h]	3,79
Average use of water for regeneration	[m <sup>3</sup> ]	1,42
Average use of salt for regeneration	[kg]	42,5
Power supply	[V]	230
Electric power	[W]	50
Feed water temperature	[°C]	4 - 30
Feed water connection	[inch]	2
Soft water connection	[inch]	2
Drain line connection	[inch]	2

Indicated dimensions might be slightly different in reality.  
A schematic diagram of connecting of the device.

The unit is supplied without:

- Piping (PVC glued)
- Manual shut-off valves,
- Manual control valves,
- Valves for sampling,
- Clamp saddles,
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Customer:		Investment:	
Technology:			
NOBEL WATER SYSTEMS d.o.o. Medačka 18 10000 Zagreb, Hrvatska tel.: + 385 1 7776662 e-mail: nobel@nobelcorporation.com		Title	
ECOWATER Your Water. Perfected.		EPUROTECH 52/283 SE	
draw	NAME	DATE	Drawing No
checked	SIGNATURE		A3
approved		Offer No	





## Nobel Water Systems – EcoWater Systems exclusive distributor for SE Europe

REGULATION VALVES EPUROMIX DN32-3,5 AND DN50-8.



- Precise regulation valves - threaded
- Three-functional: cutting, regulation, measurement
- With setting blockade
- Precise regulation of installation with the use of an electronic measure COMAP (reference 2760)
- Threaded body from bronze
- Knob with numerical scale, 40 regulation positions, every 1/10 twist
- R = Kv reduced
- Dole setting protection: blocking of setting and sealing the regulation knob
- Possibility of reading positions from top to bottom of valve

### *Block diagram of the system*

The EPUROMIX DN 32 set consists of 1 valve COMAP DN 32 and the EPUROMIX DN 50 set consists of 1 valve COMAP DN 50.

The above scheme shows an example of placing the EPUROMIX in the EPUROTECH softener system. Valve should be assembled on the hydraulic by-pass pipeline and its objective is to choke the flow rate of the hard water to the value making possible achieving (after mixing with soft water) result water with the requested hardness.

