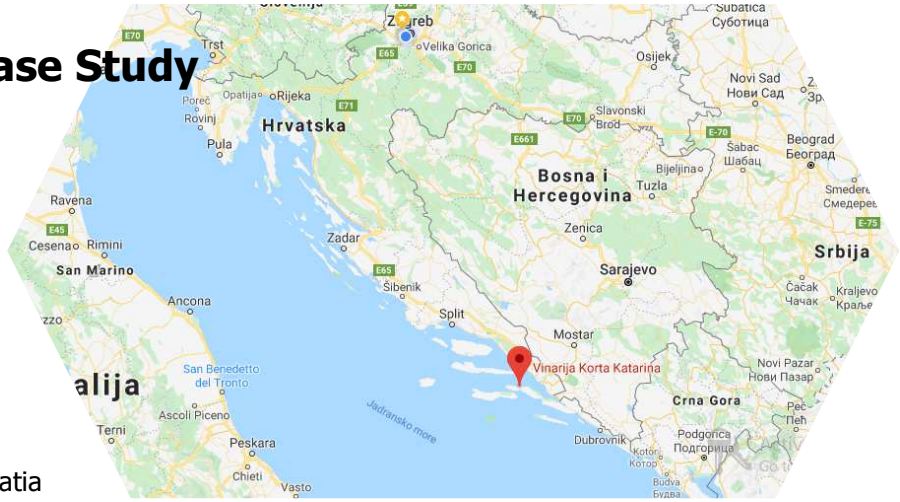
Nobel Water Systems Case Study



Hotel and Winery, Sanitary Water System in Orebić, Peninsula Pelješac, Croatia

Summary

Location	Orebić, Croatia
Hotel Name	Hotel and Winery Korta Katarina
Time of Installation	October 2019
Key Products	Installed Mechanical filtration 2" and EcoWater Systems - 2" Duplex Softener - 2x283l Ion-Exchange Resin

The facility

The Andersons' have combined their passion for wine and their newfound love for Croatia to create the leading bespoke haven Korta Katarina Winery and Hotel in Orebić, Croatia.

The family purchased the well-known "Rivijera" hotel on the shore of the Adriatic coast and after almost a decade of planning, architectural design and construction Villa Katarina opened its doors to the first guests in September 2018. A very secluded and exclusive property designed with great attention to detail Villa Katarina completes their investment in this part of Croatia. Rising proudly above the Adriatic coastline Villa Katarina is located in the picturesque seaside town of Orebić on the delightful Pelješac Peninsular.

After the total reconstruction of heating, cooling and water installation, problems with scale from water began to rise. We treated it mechanically and softening so the economical result will be the paying off the System in a few years with working costs included.

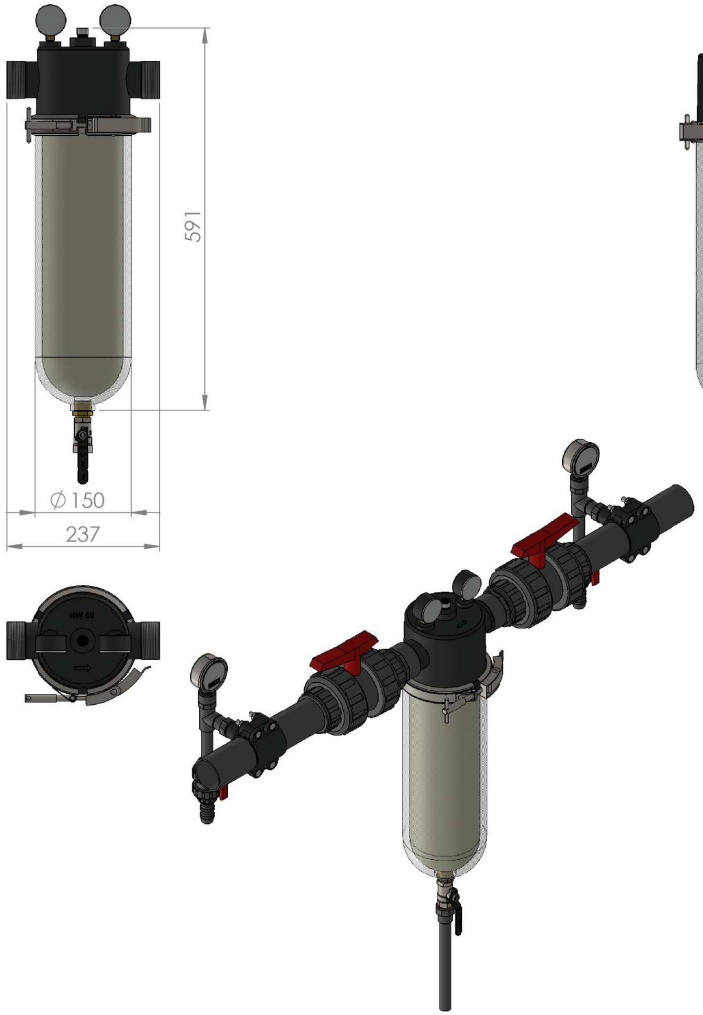
Sanitary water system

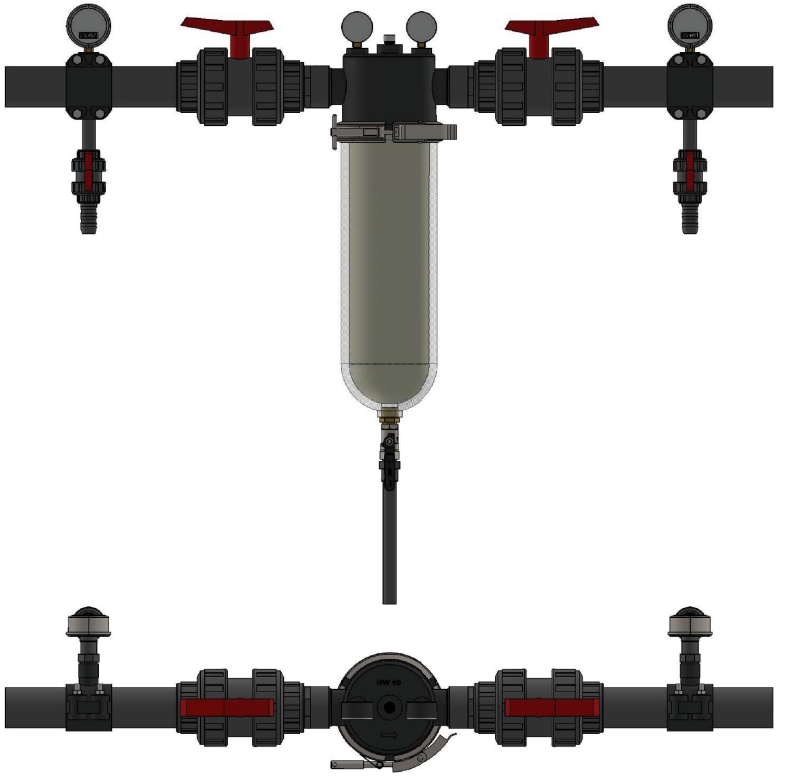
The table below sets forth the pre-treatment and water softener installed.

Municipal water come into system which is maintained by a pressure vessels per 200l controlled with pressure regulation valve at 2" installation.

Process	Product	Brand
Big particles are removed like rust and dust	two 2" sed. filters 80mic	Nobel
The softening of both municipal and well water from 24 to 3°dH	2" duplex softener 286l	EcoWater

Nobel Water Systems d.o.o. / Medačka 18, 10000 Zagreb, Croatia / Tel +385 (0)1 7778662 / nobel@nobelcorporation.com
/ www.nobelcorporation.com / www.ecowater.hr / www.filteri.com.hr





Technical specification of the filter	*u.m.*	*value*
Connection diameter	[inch]	2
Flow rate at ΔP = 0,2 bar	[m3/h]	20,0
Maximum pressure	[bar]	16
Maximum temperature	[°C]	50
Weight	[kg]	3,2

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,
- Manometres

ECOWATER SYSTEMS
Your Water. Perfected.

NOBEL WATER SYSTEMS d.o.o.
Medačka 18
10000 Zagreb, Hrvatska
tel.: + 385 1 7778662
e-mail: nobel@nobelcorporation.com

	NAME	SIGNATURE	DATE
drew			
checked			
approved			

Cffer No

Customer:

Investment:

Technology:

Title

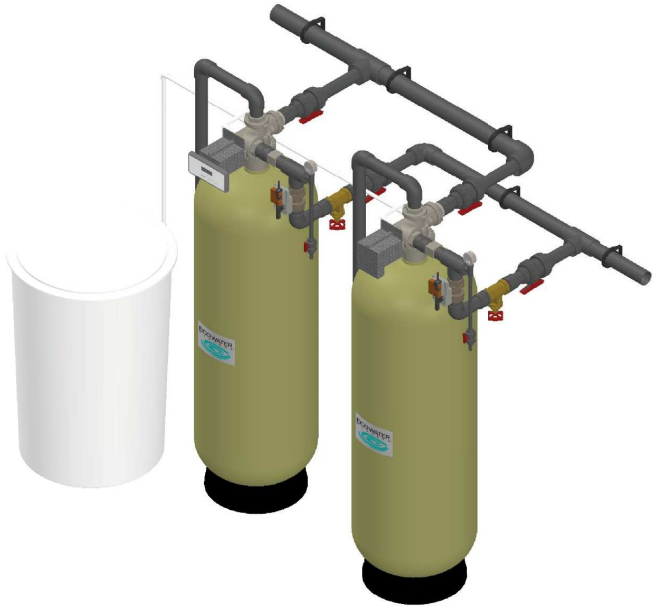
Centrifuges NW 50

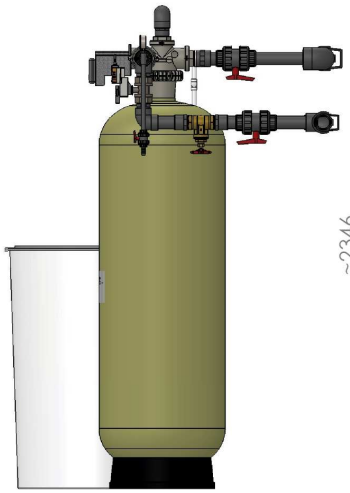
Drawing No

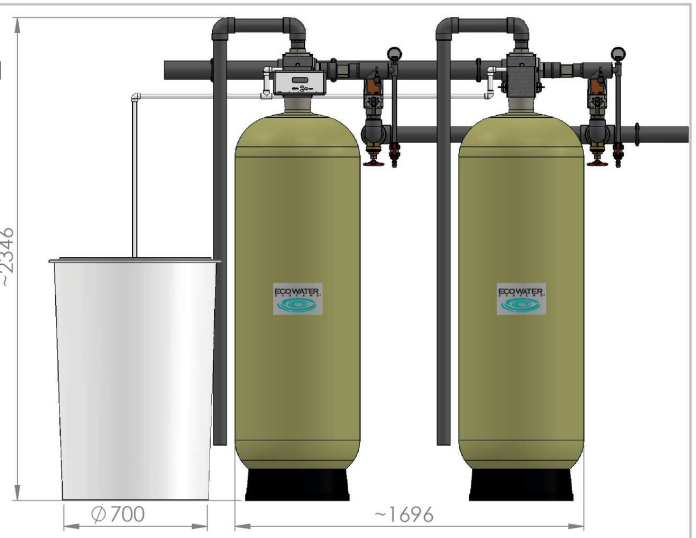
A3

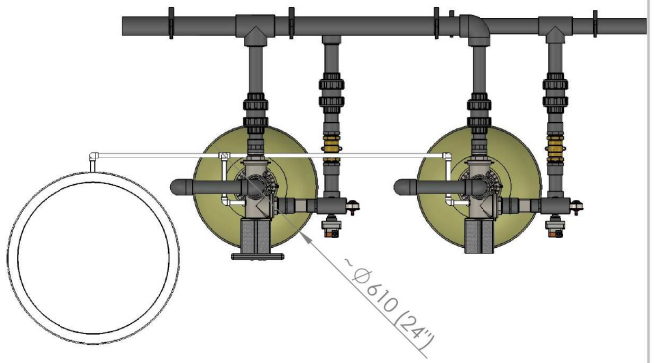
NOBEL® WATER SYSTEMS

ECOWATER SYSTEMS®
Your Water. Perfected.









Technical specification of the softener	***u.m.***	***value***
Assumed hardness for which the data is provided	[°dH]	15 / 20
Nominal flow rate	[m3/h]	11,3 / 9,8
Flow rate through the control valve at ΔP = 1,0 bara	[m3/h]	16,0
Maximum flow rate	[m3/h]	11,3
Volume of brine tank	[l]	460
Required flow rate during regeneration	[m3/h]	3,79
Average use of water for regeneration	[m3]	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,
- Manometres

ECOWATER SYSTEMS
Your Water. Perfected.

NOBEL WATER SYSTEMS d.o.o.
Medačka 18
10000 Zagreb, Hrvatska
tel.: + 385 1 7778662
e-mail: nobel@nobelcorporation.com

	NAME	SIGNATURE	DATE
drew			
checked			
approved			

Cffer No

Customer: | Investment:

Technology:

Title

EPUROTECH 52/283 DE

Drawing No | A3

NOBEL® WATER SYSTEMS

ECOWATER SYSTEMS®
Your Water. Perfected.

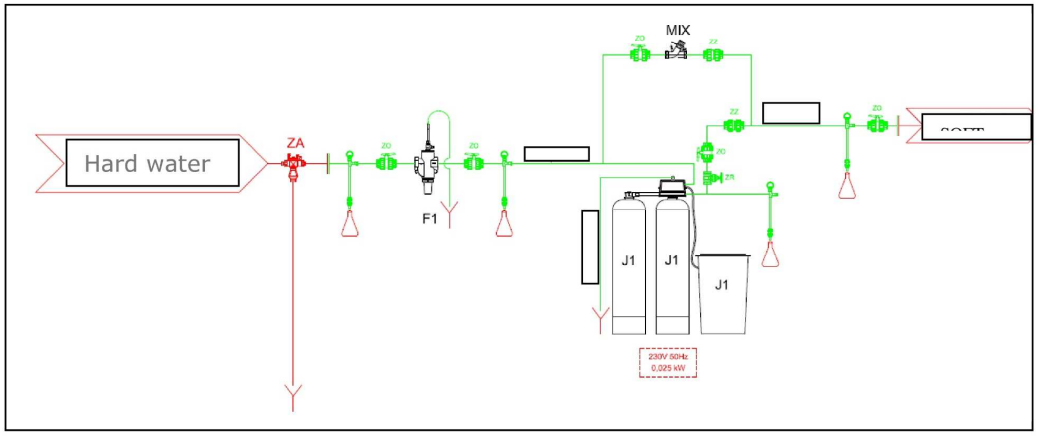
Nobel Water Systems – EcoWater Systems exclusive distributer for SE Europe

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.



Medačka 18, 10000 Zagreb, Croatia • tel. +385 1 7778662• fax +385 1 7778663•
e-mail: nobel@nobelcorporation.com www.ecowater.hr• www.filteri.com.hr • OIB / VAT nr HR 71032017320