References

From a historic hotel to luxury apartments with the Uponor Combi Port B 1000



Uponor involvement

- Uponor Klett Autofijación NEOROL G 25-2mm: 1.620 m2 | Uponor Klett comfort pipe PLUS Autofijación 16x2.0: 11.360 ml | Fontanería Sistema Q&E, Tubería de polietileno reticulado (PEX-a), Accesorios Q&E | Estación producción ACS y Calefacción Uponor Combi Port B1000 UFH: 16 Unidades | Unidades Comfort Port Premontadas Kamo: 16 Unidades | Regulación Inalámbrica Smatrix Wave Pulse, modelo X-265,comunicación bidireccional y actuadores electrotérmicos (24 V). Módulo de ampliación M-262 | Uponor Smatrix Wave termostato digital Prog. + HR T-168: 61 Unidades
- Climatización Invisible. Q&E | Combi Port B 1000 | Regulación Inalámbrica Smatrix Wave Pulse | Autofijación Uponor Klett

Former Hotel España (Burgos)

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The building, which formerly housed the Hotel España, is covered by the Special Plan for the Protection of the Historic Centre of the city of Burgos. Its conversion has preserved the façade and meets the most stringent standards, both in terms of quality and energy efficiency. The new development now comprises 16 luxury apartments, with a façade that has been restored to its 1938 appearance.

The project was led by MBG Ingeniería Y Arquitectura, and the installation of the Uponor solutions was carried out by CIMESA: invisible underfloor heating and DHW distribution via the Uponor Combi Port B 1000 station, wireless temperature control via Smatrix Wave Pulse, Q&E plumbing system and Uponor Klett self-fixing fittings.

Project Facts:

Location	Floor space	Completion
Burgos, Spain	1.620,00 m2 Calefactados	2021
Building Type	**Product systems**	**Number of floors**
Multi family homes	Radiant Heating & Cooling, Control system, Flexible Pipe Systems	16 Viviendas
Address	**Project Type**	
Paseo del Espolón nº32. Burgos	Renovation	

Partners

Redactor y dirección de obra: MBG Ingeniería y Arquitectura S.L.
Arquitecto: D. Ignacio Camarero Julian
Arquitecto Técnico: D. Jose Manuel Mendez Pozo
Ingeniería: Castellana de Instalaciones Mecánicas S.L. (CIMESA)
Instaladora: Castellana de Instalaciones Mecánicas S.L. (CIMESA)
Promotor: S4 Camara Prima S.L.
Constructor: ParqueNorte Infraestructuras S.L.U.

A complex and architecturally distinctive project in which the building services have been key to achieving an A energy rating. ‘‘From the outset, the aim was to achieve the highest energy rating, and this has been achieved through high-performance building services that also greatly enhance the comfort of the owners,’’ says Eduardo Esteban Rodriguez, Director of Castellana de Instalaciones Mecánicas (CIMESA). The company began operations in the 1980s and has spent over forty years specialising in the design, installation and maintenance of industrial, domestic, communal and individual systems, with a focus on innovation and quality.

‘‘We seek out the best options for creating efficient, innovative and environmentally friendly systems. For this project, we designed all the building’s systems, from the boiler room to the air-source heat pump system and the plumbing, and based on what Uponor had to offer, we had no hesitation in choosing them,’’ says Eduardo Esteban.

Comfort understood as a whole – in what you see and also in what you can only feel

Perhaps one of the key features of the project is the 16 Uponor Combi Port B 1000 units installed in each of the homes. According to Eduardo Esteban, ‘‘this system allows for the centralised yet individualised control of heating, cooling and DHW

distribution, whilst offering all the benefits of a communal system. Each homeowner has the option to use energy as they see fit, with the added benefit of the best warranty and technical support.''

The heat exchange station supplies a residential unit with hot water and heating. Domestic hot water is heated as required by a stainless steel plate heat exchanger, using counter-flow principles. Energy is supplied by heating water to a flow temperature of at least 55°C through the hot water supply line. The temperature of the domestic hot water is controlled by a proportional control valve. The PM valve prioritises DHW usage, diverting the flow of energy from the primary circuit to the heat exchanger for DHW production. When the demand for DHW ends, the flow of energy to the heat exchanger is cut off, improving energy efficiency.

Individual adjustment of the comfort temperature

Another distinctive feature that adds to the unique experience of living in these homes is the wireless regulation and control system for Invisible Climate Control. ''It's a project that puts the homeowner at the heart of every decision, as demonstrated by the choice of this system, which allows them to control and decide what temperature they want in their home from anywhere and at any time of year, regardless of the outside temperature,'' concludes Eduardo Esteban.

The Uponor underfloor heating control system allows you to create comfort zones tailored to individual preferences and to control the heating system remotely using the Smatrix Wave Pulse app.
CIMESA and Uponor have worked together on the design, implementation and commissioning of the company's solutions for this project.

> ''Installing the Uponor Combi Port B 1000 station has been a very positive experience; it has enabled us to streamline the process and reduce labour costs, whilst offering the property owner the best possible performance. In this way, the benefits of working with these systems are felt by everyone involved.'' Eduardo Esteban Rodriguez, Director of Castellana de Instalaciones Mecanicas (CIMESA).

GF Building Flow Solutions

Headquarter:
Ilmalantori 4
00240 Helsinki
Finland

Phone +358 20 129 211
Contact us

Email for communication requests: communications@georgfischer.com
Contact for Headquarter, PR, Offices in Australia, Dubai, International Sales and for Singapore

W www.uponor.com