

Uponor

Build on new ways for energy-efficient buildings

With Uponor Combi Port and Aqua Port

BUILD ON
Uponor 100
YEARS



Time for a turnaround: follow us to the future of domestic hot water generation and heat distribution

Buildings are responsible for at least 40 % of global energy consumption and over a third of greenhouse gas emissions*. That's why new ways of enhancing energy efficiency in buildings are vital in combating human-induced climate change. Our decentralised Combi Port & Aqua Port heat interface units make a key contribution by supplying on-demand, energy-efficient hydronic heating and cooling as well as hygienic hot water.

40%
OF GLOBAL
ENERGY
CONSUMPTION
IS SUPPLIED
BY BUILT
ENVIRONMENT

How you benefit:

- New generation of **energy-efficient** domestic hot water generation and heating/cooling distribution
- **Hygienic hot water** generation on demand to avoid legionella growth
- **Individually developed** & prefabricated heat interface units

* Figures from the United Nations Environment Program's Sustainable Buildings and Climate Initiative

A new way of thinking: From centralised to decentralised

Why not rethink the way heat and hot water are supplied in a building. The Uponor Combi Port and Aqua Port only require a heating supply and return to be connected to a centralised heating system. Unlike traditional centralised systems, the decentralised solution does not need a hot water tank or domestic hot water distribution and circulation system.

For hygiene reasons the hot water temperature in the tank and distribution lines of a centralised system needs to be kept at 55-60° C. To heat up the system, even higher temperatures are required. Since the decentralised domestic hot water generation and water volumes in the pipe system remain below 3 litres, the temperatures can be kept lower. The supply temperature to the heat exchanger needs to be only 5K higher than the desired domestic hot water temperature. This lower operational temperature and only two heat-emitting pipes ensure significant energy savings.

Hydraulic balancing is also easier and sustainable, while the constantly low return temperatures enhance the efficiency of traditional and renewable energies.

UP TO
40%
ENERGY
SAVINGS

How you benefit:

- **58 % energy savings** in distribution pipes through decentralised heat supply system
- Up to 80 % energy savings in **renovation projects** (incl. insulation measures)
- **Lower investment costs** than conventional systems and significantly lower operating costs

A new way of hygiene: Mastering a critical issue

In 2015 approximately 330,000 cases of water-related diseases were reported in Europe¹, e.g. the legionnaires' disease with a fatality rate of 10–15 %². As one of the world's leading providers of drinking water systems, Uponor is committed to providing solutions for hygienic drinking water delivery, and our Combi Port and Aqua Port units are integral components of our Uponor Hygiene Logic.

Cold drinking water is delivered to each interface unit and heated on demand to the required temperature by a high-performance heat exchanger. No hot water therefore needs to be stored in a centralised water tank. The water exchange rate in the building is improved and the risk of legionella contamination is minimised.

Furthermore, the advanced PM valve technology ensures that the heat exchanger remains cold when not in use, thus avoiding critical temperatures and possible legionella growth in the system.

100%
HYGIENIC

How you benefit:

- Hygienic domestic hot water generation
- Instant hot water on demand in each apartment
- Industry-leading Uponor Hygiene Logic

MILLIONS OF POSSIBLE CONFIGURATIONS

A new way of planning: Custom-designed and ready-made

Once we know your project requirements, we individually configure and develop your heat interface unit and then deliver it ready-made to the construction site. That saves you time and money through easier and much faster plug-and-play installation. It also enables you to calculate your prices accurately. So whatever kind of building you are planning, we will design and build the right solution to your needs from millions of configurations. And all our products are fully tested before delivery.

Uponor Combi Port B1000

The fully modular platform with potential applications in domestic hot water generation with a radiator or underfloor heating connection, or combined for radiator and underfloor heating and heating/cooling.

Functional superiority:

- 1** Highly sensitive PM valve with IPR protected design and safety technology
- 2** Hot water on demand and no hot water stored thanks to highly efficient heat exchanger
- 3** Strainer to protect against dirt particles
- 4** Heat losses minimised through thermally decoupled fixations and insulated warm water supply lines
- 5** Integrated Uponor Smatrix controls with auto-balancing technology for additional comfort and energy efficiency

Build on quality products – tailored to every project requirement

Our comprehensive product portfolio provides you with custom-designed and prefabricated units to meet all your individual requirements.

30%
FASTER INSTALLATION



Uponor Combi Port B1000 HY

Hybrid version for low-temperature systems

- Min. supply temperature 35-38° C, constant or flexible up to 60° C
- Simple hydraulics
- Direct underfloor heating feed with no mixing circuit required
- Drinking water temperature adjustable to users' requirements



Uponor Combi Port B1000 3P

Three-pipe station for more efficient heat pump systems

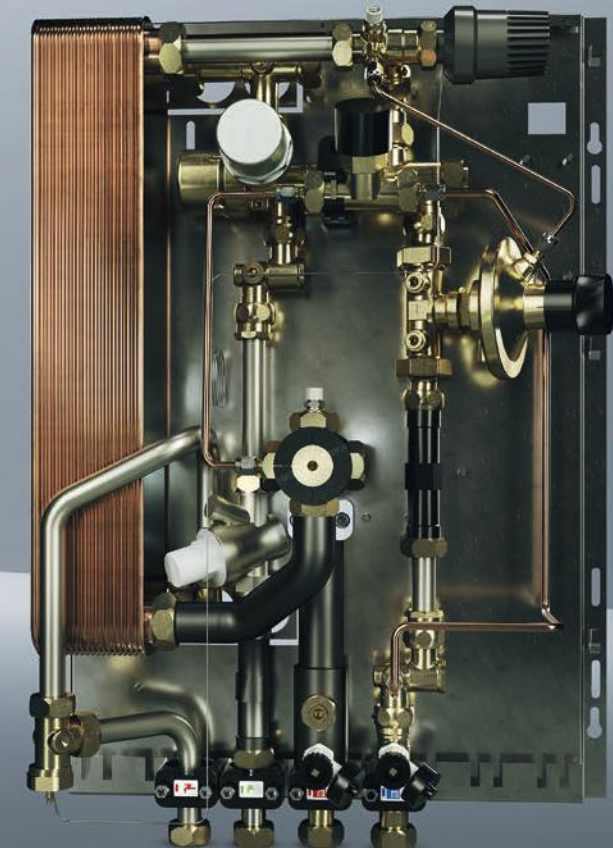
- Two separate supply lines for heating and domestic hot water generation; one common return
- Simple hydraulics
- Secure hygienic domestic hot water in combination with heat pumps
- Higher COP of the heat pump



Uponor Combi Port T1000

Ideal for replacing gas-fired boilers in apartments

- Quick and easy installation using existing drinking water and heating connections
- Reduced maintenance and operational costs



Uponor Aqua Port S1000

Domestic hot water generation

- Hygienic and reliable heating of drinking water
- Combines with all commonly used heating systems
- Compact design enables system to be installed in alcoves and shafts for distribution lines and risers



Retirement accommodation in Southsea, England

- Energy-efficient and custom-specified heat interface units supplied for 97 apartments
- High levels of comfort for residents through affordable heat and hot water
- Pre-configured units supplied ready to be connected for easy commissioning
- Cost-efficient running and maintenance costs for the property management company

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