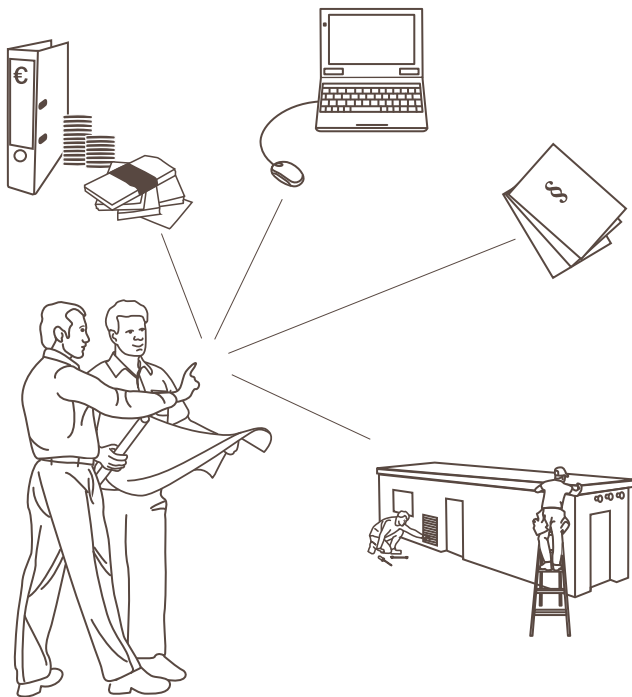


juwi is your partner – from A to Z

As a general contractor, juwi plans and develops your energy cabin and delivers a turnkey system. juwi experts take care of the entire management of the project – from structural planning, economic feasibility analyses and financing all the way to the construction and the business management of your energy cabin. As an alternative to buying your own energy cabin, you can also purchase heat directly from juwi by way of a contracting agreement. No matter which option you choose, just give us a call. Together, we will find the best solution for your energy supply needs.



The juwi group

With an annual turnover of around EUR 600 million and a workforce of more than 750 employees, the juwi group is one of the world's leading companies in the renewable energy sector. Since 1996, we have been developing, planning, financing and operating plants and systems that use wind, solar and bio energy.



In July 2008, the juwi group opened its headquarters in Wörrstadt, the most energy-efficient office building in the world. juwi has been recognised and received several awards for its company philosophy and building concept. In 2008, for example, juwi was awarded the prize for German climate protection and in 2009, the Clean Tech Media Award. In August 2009, the building was expanded to include space for an additional 130 employees. The heat energy for this building complex is provided by the juwi energy cabin.

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Bio energy

The energy cabin: heat for office buildings, commercial enterprises and residential estates



Energy is here



The energy cabin

With a juwi energy cabin, you can generate economical, environmentally-friendly heat energy for individual buildings or whole residential estates. The main components of the energy cabin are the boiler, which is used for the CO₂-neutral combustion of wood pellets, and the fuel storage system, which includes a worm conveyor to transport the wood pellets into the boiler.



Biomass boiler



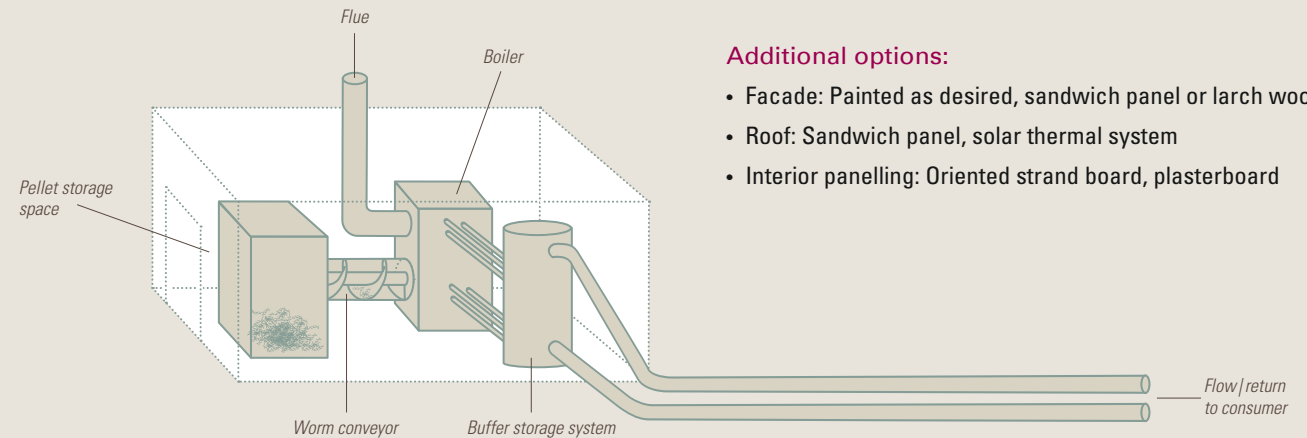
Buffer storage system

The energy cabin presents an ideal, flexible alternative to conventional heat providers, which normally use fossil fuels to produce heat energy. This solution is especially suited to buildings that are too small to house a boiler, water tank or fuel storage system. The energy cabin can be also efficiently used as a flexible central heating system for new buildings, residential estates and commercial and industrial facilities.

Design and function

The mobile central heating system is available in five standard variants. These variants cover a thermal capacity of between 100 and 300 kilowatt thermal (kW). The biomass boilers used in juwi's energy cabins are supplied by the Austrian manufacturer KWB. Thanks to their compact design and integrated control technology, these boilers are the ideal components for this flexible method of supplying renewable heat energy.

The energy cabin is connected to heat consumers by a heat pipe. Both elements – the energy cabin and the heat pipe – are adjusted according to local requirements on-site.



All variants of the energy cabin comprise the following components:

- Steel container with fuel storage system and worm conveyor, painted blue as standard
- Floor made of aluminium corrugated sheet (quintet)
- Double wall insulated stainless steel chimney with explosion door
- Heat meter
- Weather-regulated heating control unit
- SMS text message module for boiler monitoring
- Pumps and piping
- Buffer storage system (located either inside the cabin or in the building to be supplied)

Additional options:

- Facade: Painted as desired, sandwich panel or larch wood
- Roof: Sandwich panel, solar thermal system
- Interior panelling: Oriented strand board, plasterboard

➔ Design of standard variants

Type	Energy cabin P MF 100	Energy cabin P TDS 130	Energy cabin P TDS 150	Energy cabin P TDS 240	Energy cabin P TDS 300
Boiler	KWB Multifire 100 kW	KWB Powerfire TDS 130 kW	KWB Powerfire TDS 150 kW	KWB Powerfire TDS 240 kW	KWB Powerfire TDS 300 kW
Container	Steel maritime container, 20 ft.	Steel maritime container, 40 ft.; floor space approx. 40 m ² (without buffer storage system) Steel maritime container, 20 ft. + 40 ft.; floor space approx. 65 m ² (with buffer storage system)			
Buffer storage system	2 x 1,000 l	2 x 2,000 l	2 x 2,300 l	3 x 2,450 l	3 x 3,000 l