

Cetetherm

CETETHERM MAXI SELECT HYBRID

Tomorrow's District Heating Substation
- manufactured today



Maxi Select Hybrid

Tomorrow's District Heating Substation - manufactured today

A hybrid solution could be tomorrow's heating method. Cetetherm Hybrid can be combined with other renewable energy sources such as geothermal energy and solar energy, which provides flexibility with opportunities for property owners to choose the energy source that is the most favorable at the time.

Cetetherm Hybrid means a technology shift that will have a big impact both from economic and environmental perspective.

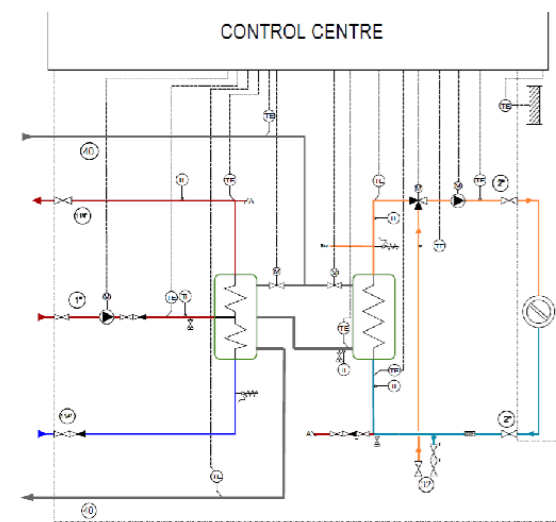
The great advantages of district heating become even greater when you include a previously unused heat source in district heating

The next natural step

When the property owner has done the outmost to improve energy and cost efficiency with additional insulation, climate doors and triple-glazed windows, additional measures need to be taken, large investments are usually required that cannot be refunded within a reasonable time. Then the next natural step may be to invest in a hybrid solution.

Why a hybrid solution?

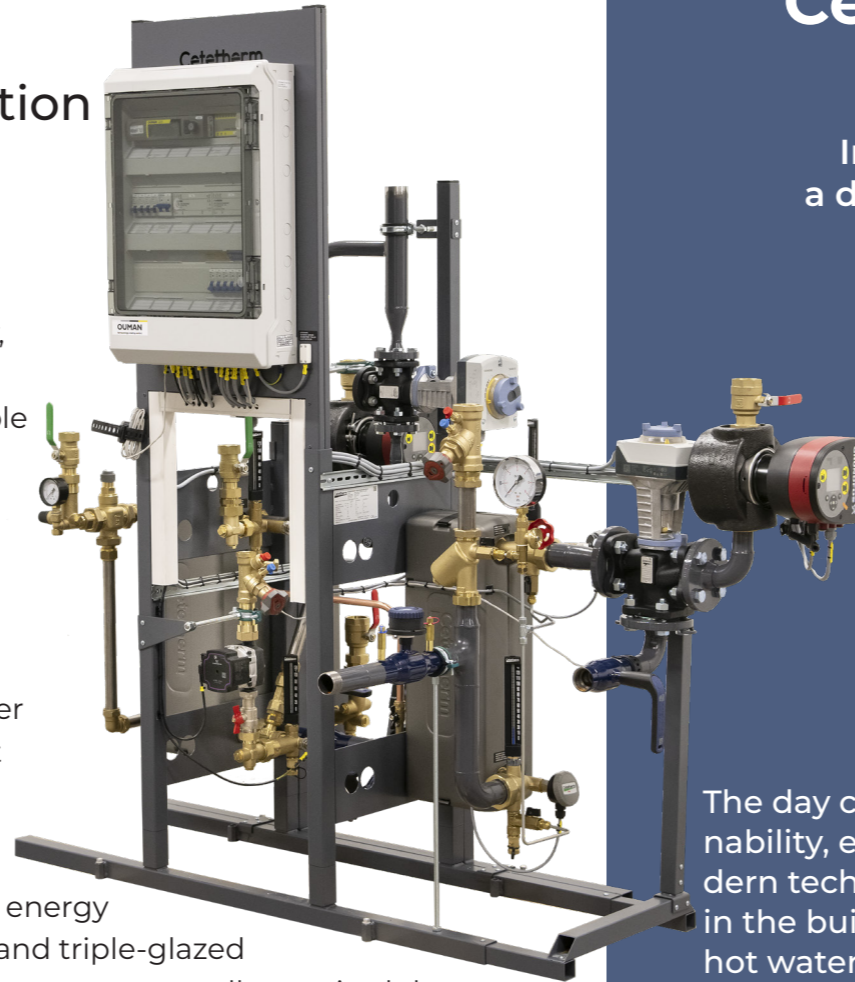
The hybrid solution allows, with great advantages, a combination between different heat sources. The most common example is a combination of heat pumps and district heating allowing the heat pump to use the waste heat in the building with support from the Hybrid unit connected to district heating. The Hybrid solution is a unifier between energy sources creating Co2 reduction and energy efficiency.



Flow chart

Energy efficiency that provides low operating costs

When the conditions for heat pump operation provide the best energy efficiency, the use of the heat pump is prioritized. When the effect from the heat pump is not sufficient or the conditions for district heating are better, district heating is used.



Cetetherm and NIBE in collaboration

- for a sustainable future

In autumn 2021, a day care home was ready in Kemi in Finland, a day care home where hundreds of children will spend their days, now and in the future.



The day care home is the largest public timber building in the Nordics where sustainability, environment and technology meet. The building material is timber, and modern technology is found in architectural design, sound control of various spaces and in the building's plumbing solutions. Even the heating of the building and domestic hot water is based on modern technology and digitalization, which is taken care of by a Cetetherm NIBE Hybrid Substation.



District heating substation manufactured by Cetetherm together with NIBE heat pumps as a combined district heating- and heat distribution central.

Installations with the heat pump's circulation pumps, accumulator tank and control equipments as well as electrical installation. Connected to myUplink for remote control.



Advantages of Maxi Select Hybrid:



- ✓ Low return temperature back to the district heating network
- ✓ 100% redundancy - safe, secure and efficient heat delivery from the energy sources connected to the hybrid solution
- ✓ A configurable and flexible district heating substation that effectively works together with temperatures from water-borne heat sources, e.g. district heating, heat pumps and boiler solutions
- ✓ Energy efficiency with low climate impact and low operating costs
- ✓ Can be customized to existing heating system
- ✓ Works as a standard district heating substation until an additional heat source is connected
- ✓ Add sustainability to existing system

Cetetherm

Heating a **new generation**

Cetetherm is part of the NIBE Group, and for nearly 70 years has been a leading manufacturer of sustainable, energy efficient and high-tech solutions for district heating and district cooling for apartment buildings, residential, commercial and industrial premises. This thanks to our basic approach to innovation, quality and energy efficiency.

We offer smart and connected solutions to customers looking for energy efficiency, sustainability and cost effectiveness. We combine leading Swedish knowledge with the latest technology in Artificial Intelligence (AI) to reduce energy costs and climate impact.



info.nordic@cetetherm.com
cetetherm.com

