



# Cetetherm Midi Compact WITH IQHEAT

## District heating substation with communication for medium buildings

Midi Compact-IQHeat is a district heating substation for the connection of apartment blocks and other medium buildings to district heating networks. IQHeat is our most advanced substation. It comes with integrated DDC and web solution.

Midi Compact-IQHeat reduces heating costs and flow charges for the property owner and gives lower return temperatures for network.

Midi Compact-IQHeat is manufactured and sold by Cetetherm which has unique and world-leading expertise in the field of pre-fabricated district heating substations.

## COMPLETE AND READY FOR OPERATION UPON DELIVERY

Midi Compact-IQHeat comes ready for operation and complete with a DDC unit and web solution according to customer specifications.

The built-in simple Web solution can be used for easy connection to the internet. Basic software is installed and ready for operation. Communication and control takes place via the internet, ModBus or with a built-in operator panel.

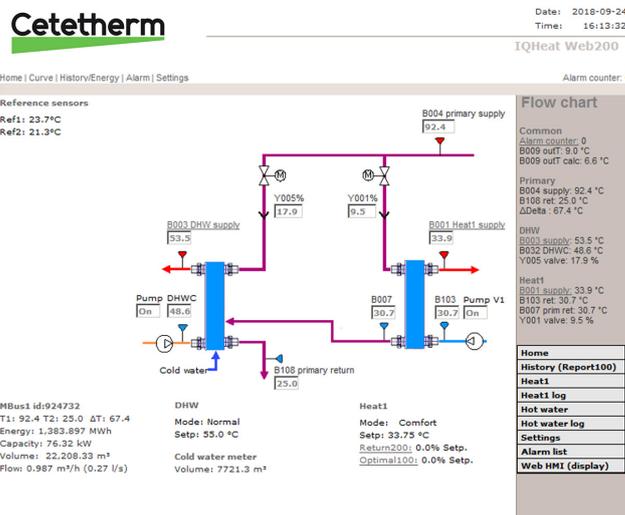
## MANAGEMENT, CONTROL AND READINGS

IQHeat can be controlled and monitored using a standard PC with an internet connection or by an operator panel. With the Web200 option, all operating information is displayed graphically on the computer screen but is also stored as Excel files for cost accounting, statistics and more.

When connecting to existing property systems, IQHeat can communicate across different protocols, see Options. IQHeat always uses multiple sensors to ensure that troubleshooting and optimisation is possible remotely.

In order to monitor and control one or more Midi Compact IQHeat district heating substations, no special equipment is required, just a standard web interface.

With IQWeb200 you download a flow image from IQHeat via the Internet to your computer screen or smart phone. Here you get a quick overview of the district heating substation temperatures. If the values need to be adjusted, you do so on the following sides. This allows you to easily adjust, for example, for seasonal changes and to optimise operating costs.



Flow Image via IQheat Web



Under the heading operation history, eight days of operation is displayed in the form of a curve chart. All operational history is continuously stored in XML files for Excel, and you can save up to 20 years of data. The operational history gives you transparent control of your adjustments and in so doing gives you both valuable feedback and statistics.

After the settings are made IQHeat automatically regulates flows and temperatures without any special supervision or control. The system has alarm functions for many parameters, such as overheating and scalding risk, operation of pumps and pressure in expansion vessels. Alarms can be sent as e-mails or SMS, see options.

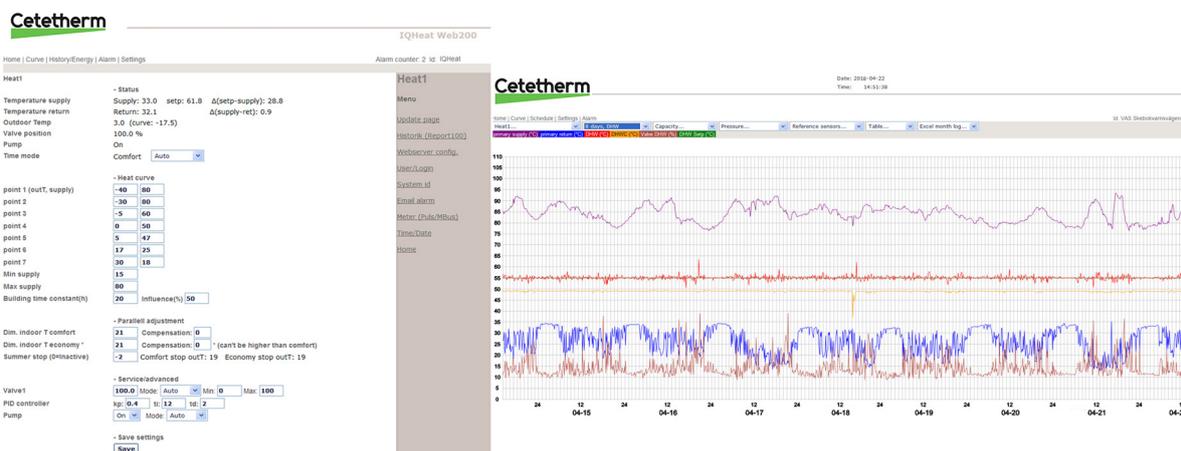
## WEATHER FORECAST CONTROL

IQHeat is prepared for direct communication with weather forecast services. No extra hardware is needed, the IQWeb200 manage all communication.

The major advantages with Midi Compact IQHeat is that the 2-step connected standardized substation, in four sizes, has a very small foot-print, short delivery time and several options for integrated primary circuits. It has been developed and configured to meet the optimum performance for heating and DHW. Low return temperature together with the energy saving functions makes Midi Compact IQHeat the very best choice in this range, with proven energy savings up to 15%. Midi Compact IQHeat is wired and tested from the factory, this provides optimum performance and also clear guarantee undertakings, all from one single supplier.

Midi Compact-IQHeat is design for one heating circuit and one hot water circuit, with integrated DDC control and ready to run default settings. Fully prepared for quick and easy installation.

Please contact Cetetherm if you are interested of a quote or more information.



Heating settings and history via IQHeat Web

## BASIC VERSION

An operator panel is included as standard, along with communications with ModBus, a simple Web solution with the same information as the operator panel.



## OPTIONS

- IQAlarm. SMS alerts via Modem

Cetetherm continuously works on improving existing functions in IQHeat, as well as developing new.

New versions of IQHeat applications can be downloaded through internet, for units that need update, or upgrading

## MONITORING WITH CHOICE

IQHeat comes with optional communications solution. Changeable also after installation by replacement or adding of communication modules.

- IQHeat Web200, web solution and a PC with Internet access is an effective solution for controlling and managing one or more Midi Compact IQHeat units. Complete with flow images.
- IQHeat, connection to existing building management system, BMS. If a property system is already in place with familiar functions and interfaces, IQHeat communicates via OPC, Modbus, LON or BacNet. This means that the plant is controlled locally by IQHeat during the construction period. When the external, master system is then connected, IQHeat will be controlled by the sent parameters.
- IQMeter200 provides the option of reading the heat meter values via Mbus. The functions such as capacity control in Web200 can then be activated to optimise operating costs.