



Cetetherm Maxi

WITH IQHEAT



District heating substation with communication for large buildings

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

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

Maxi 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

Maxi IQHeat comes ready for operation and complete with a DDC unit and web solution according to customer specifications. The primary and secondary sides can be supplied pre-assembled.

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.

RIGHT DIMENSIONING

Each delivered Maxi IQHeat is "customised" with the components and software to exactly meet requirement specifications. IQHeat is available in several basic designs depending on the needs of the property for both heating and hot water.

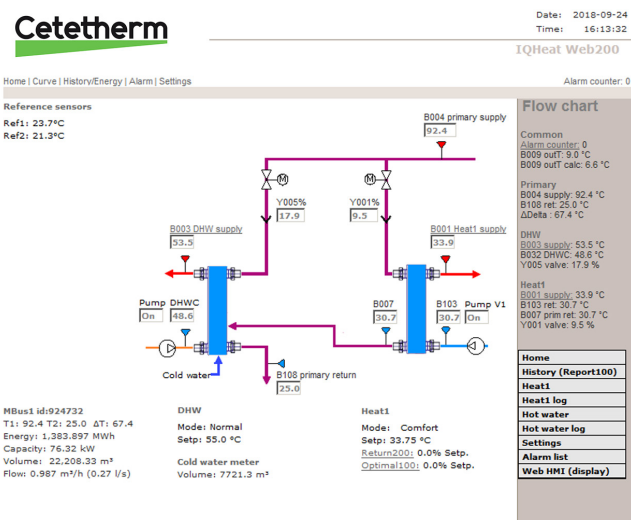
MANAGEMENT, CONTROL AND READINGS

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 Maxi 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. If several substations are controlled from your computer, each substation has its own flow image. 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

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

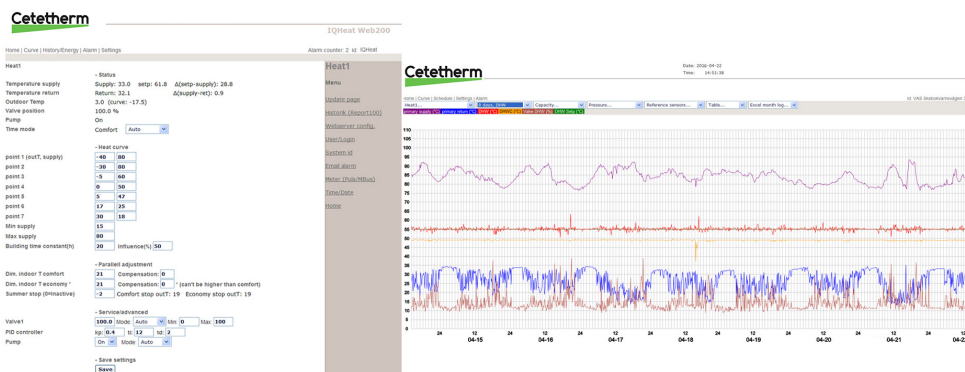
IQHeat is prepared for direct communication with weather forecast services. No extra hardware is needed, the IQWeb200 manage all communication.

CUSTOMISED IN ALL SIZES

One of the major advantages of Maxi-IQHeat is that the substation is already tailored at the factory to meet requirement specifications. This provides optimum performance and also clear guarantee undertakings, all from a single supplier.

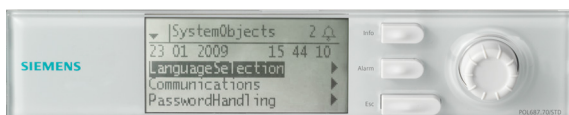
Maxi IQHeat comes in basic designs for one to three heating circuits and one hot water circuit. All with integrated DDC control and ready to run default settings. All fully prepared for quick and easy installation. IQHeat 50 also comes in a version for district cooling.

EASY TO DIMENSION CORRECTLY



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
- IQRefill. Upgrading an existing substation to the IQHeat standard

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.

The number of heating and hot water systems in your property will determine which model of Maxi IQHeat you should choose, see table.

Model	Example of property	Heating system
IQHeat 100	Normal property, heating and hot water	One hot water One heating
IQHeat 110	Property with hot water, heating and ventilation circuits	One hot water Two heating
IQHeat 120	Property with hot water and three heating circuits	One hot water Three heating
IQHeat 50	Property with only one heating circuit	One heating
IQHeat 60	Larger premises, need of two separate heating circuits	Two heating

Operation cards are available for each model.

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.