

MAIN FUNCTIONS

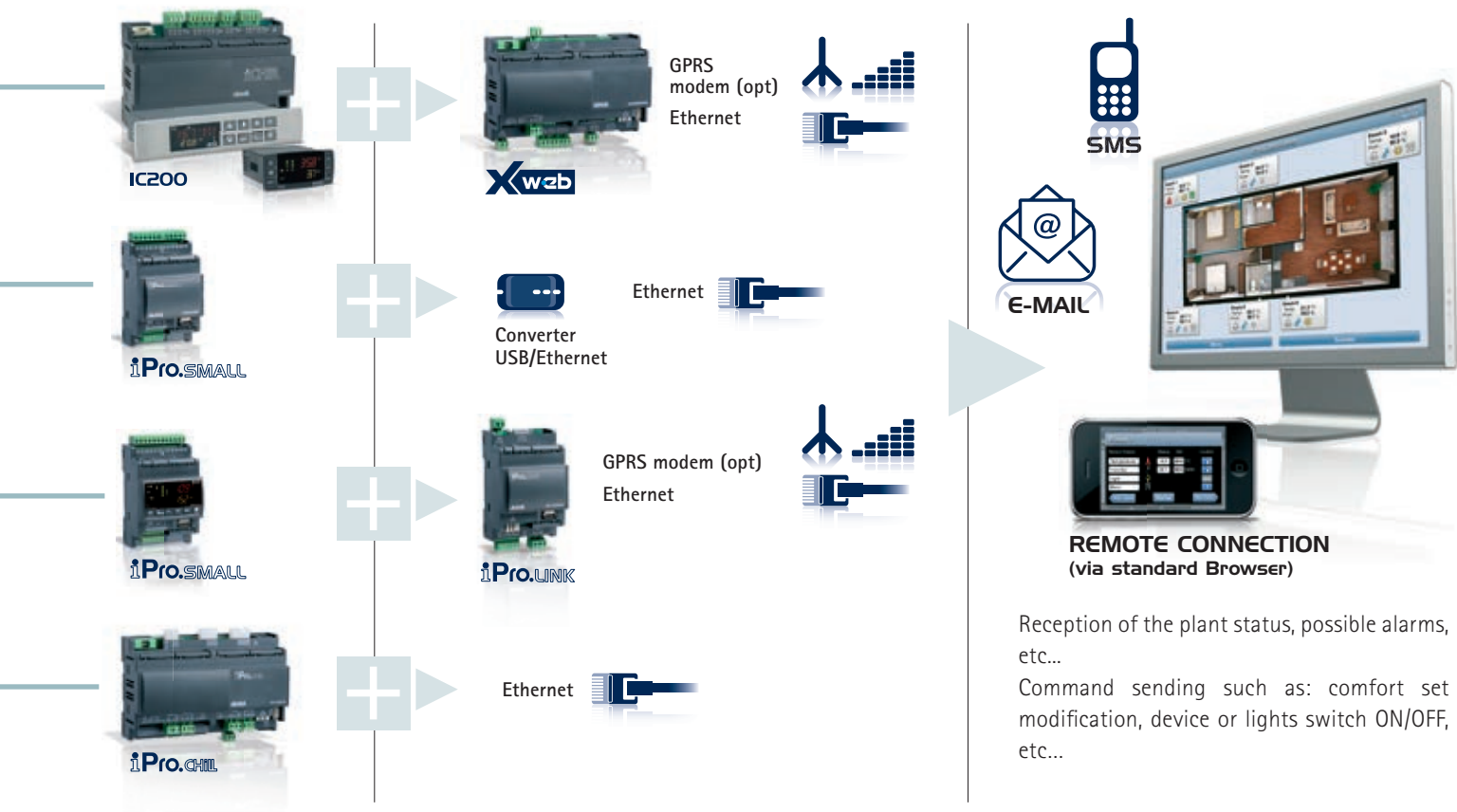
Dixell controllers mounted on a heat pump allow management of:

- separate control of the water and room set points
- hot water production for sanitary use and residential or swimming pool heating
- integration with solar panels
- anti-legionella cycle
- geothermal free-cooling
- daily time bands functioning mode (up to 7)
- machine switch ON/OFF and the production of sanitary hot water using a standard thermostat
- production of sanitary hot water/heating also with compressor break
- room terminal with dedicated (or programmable for iPro) interface
- dynamic set point according to the external air temperature, time bands, key or digital input
- compressors with inverter
- modulating water pump on evaporator/condenser side
- mixing valve on heating side with 0÷10V/4÷20mA signal
- heaters of integration up to 3 steps

CONNECTIVITY

The high connectivity of Dixell controllers in remote mode ensures:

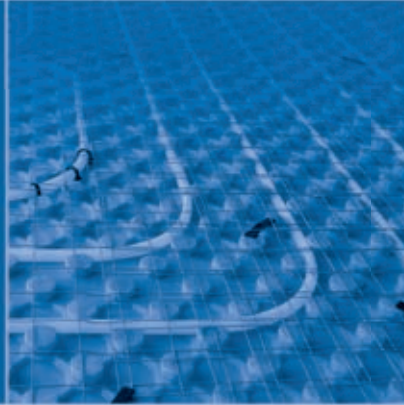
- a complete control of all HP functioning parameters
- the possibility to optimize the plant performance thanks to the functioning data contained in the data logger
- a complete management of possible plant faults





Solutions for RESIDENTIAL HEAT PUMPS

iCHiLL
iPro



EMERSON
Climate Technologies



SOLUTIONS FOR RESIDENTIAL HEAT PUMPS

The use of heat pumps has an important role to play in plant designed for heating or cooling houses, commercial, industrial or sports buildings. Their usage has increased thanks to a greater awareness by people and corporations of the need to safeguard the environment and of potential cost reductions by favouring renewable energy sources instead of expensive traditional fuels such as petrol and gas.

Dixell, thanks to its wide range of controllers offers a complete solution for every kind of application. Using heat pumps combined with Dixell controllers it's possible to obtain a decrease in use of non-renewable resources, an improvement in seasonal energy efficiency of buildings and plant, at the same time obtaining energy saving results.

Dixell controllers are able to manage the following heat pumps:

- **AIR / AIR**
- **AIR / WATER**
- **WATER / WATER**
- **GEOHERMAL**



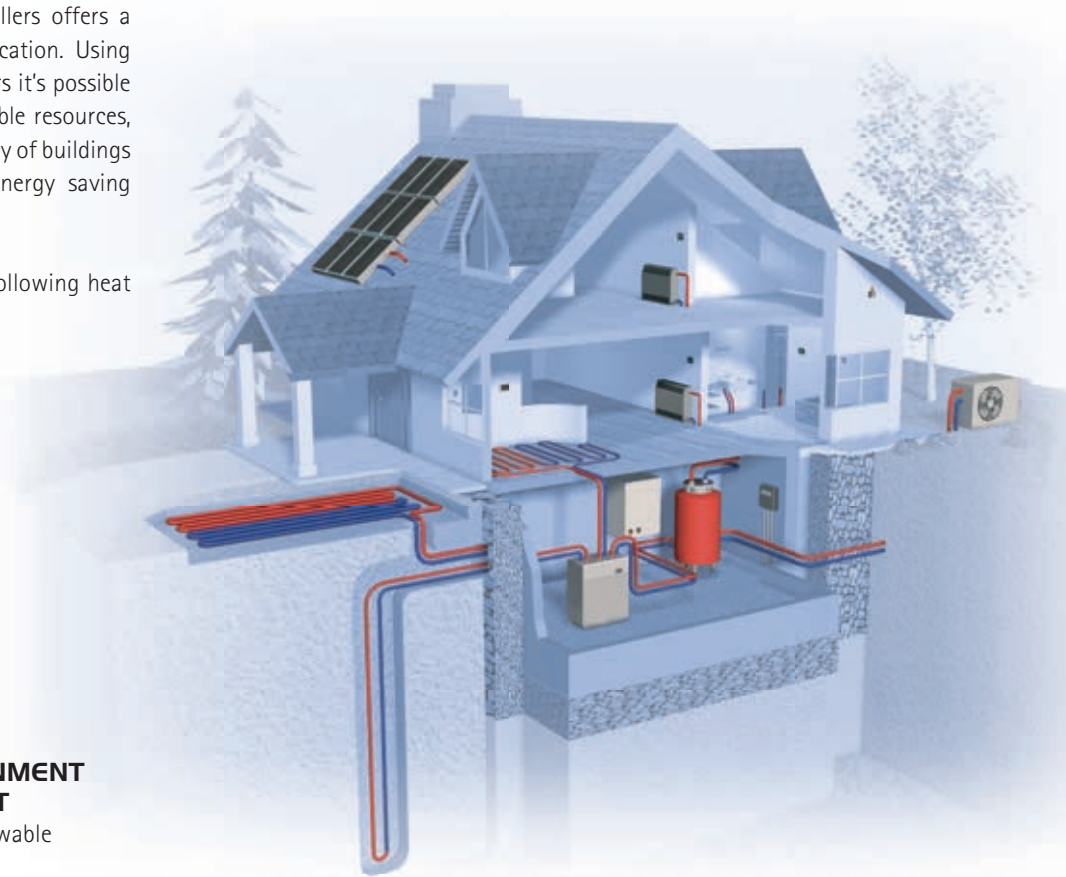
ENERGY SAVING

optimized management of resources



ENVIRONMENT RESPECT

use of renewable sources



COMPLETE MANAGEMENT OF HEAT PUMP AND INTEGRATION OF RES

IC200 parametric controllers and iPro programmable

- heat pump management
- hot/cold water production for heating/c
- sanitary hot water production according
- geothermal applications with free-cool
- solar panel integration
- humidity management



iCHiL - IC200

PARAMETRIC CONTROLLERS

- easy to use
- formats: CX: 32x74mm
L: 38x185mm
10 DIN



ROOM TERMINAL (VI)
compatible with box 503
dimensions and with integrated
temperature probe (optional)



**GRAPHIC ROOM
TERMINAL (VGI)**
for IC200D
(LCD - 240x96pixel)



**EEV DRIVER
(XEV22D)** with
integrated display
and keyboard for electronic
thermostatic valves



RESIDENTIAL PLANT

controller are Dixell's solutions for:

cooling systems
according to the priority set by the user
energy management



iPro

PROGRAMMABLE CONTROLLERS

- powerful hardware/software platform
- high connectivity
- internal website
- internal data logger (functioning data and alarms): 128MB
- remote plant control and regulation
- energy consumption of the plant

ISaGRAF

DEVELOPMENT TOOL (international)
used to create the applications of the iPro family



EEV DRIVER (XE20D) for unipolar and bipolar thermostatic electronic valves – 1 or 2 connectable valves



EXPANSION MODULES (IPEX60/70D) in 4 and 10 DIN format



PROGRAMMABLE ROOM TERMINAL (VGI) with graphic display (LCD - 240x96pixel)



M-BUS



RS485

M-BUS GATEWAY (i-METER)
for the signal conversion from M-BUS to RS485



TEMPERATURE/HUMIDITY PROBES (XH50/55P) with dew-point calculation, RS485 output with ModBUS protocol and compatible with box 503 dimensions