

# Vexve AM40

## Heating and cooling controller

Vexve Oy developed the AM40 heating controller to meet the growing demands in hydronic underfloor heating. The AM40 HC controller is perfect selection for hydronic underfloor heating; combining heating and cooling in the same user friendly interface with automatic or manual switchover from heating to cooling. There is also an option to use Modulation  $\Delta T$ ,

this function enables modulating the supply water temperature according to changes in return water temperature, preventing overloading of heavy floor structures, thus saving energy. The Controller is developed for the OEM-market and producers of hydronic underfloor heating systems, but it is also the perfect solution for retrofit and maintenance.

### Solution

- Outdoor temperature control for hydronic underfloor heating and cooling system
  - Floor heating systems
  - Floor cooling systems
  - Separate roof or wall cooling panels
- Installation in
  - Single family houses
  - Industrial buildings
- Heat and refrigeration sources
  - District heating sub-stations
  - Bioenergy and Solar hybrid systems
  - Boilers
  - Heat pumps
  - Other refrigeration sources with exchangers

### Delivery

Fully customizable according needs of customers, AM40 can be delivered with or without:

- Supply sensor
- Return sensor
- Outdoor sensor
- Actuators / actuator cables
- Power adapter
- Wireless room units and antenna
- Other accessories

All cable lengths and even programming of controller can be customized according needs of customers to guarantee fast and easy installation.

### Main features

- Easy & Fast to install and use
- Plug & Play with fast connectors
- DIN-rail, wall or panel mounting
- Low voltage installation, no electrician needed for basic installation
- Easy start up wizard from clear LCD screen
- EN1264-4 Floor drying program
- Display of all temperatures, valve positions and relay status for easy and fast diagnostics
- Extensive week programmer
- Programmable extra sensor input
- Programmable 230VAC relay output with many functions
- Wireless antenna connection
- External I/O connection for future extensions
- Can operate two different independent circuits
- Eco 8h saving temp / Eco 30d saving temp
- Min / max supply temp setting (Freeze protection)
- Ready applications for heating and cooling
- Modulation  $\Delta T$  for all heating schemes
- Constant temp control 0–90 °C
- Possibility to add wireless room units and other accessories
- 4-point installation to mixing valve
- Adapter for M30 x 1,5 (2,5–4 or 5,5 mm stroke)

