

Bivalent system

Space heating with an auxiliary boiler (alternating operation)

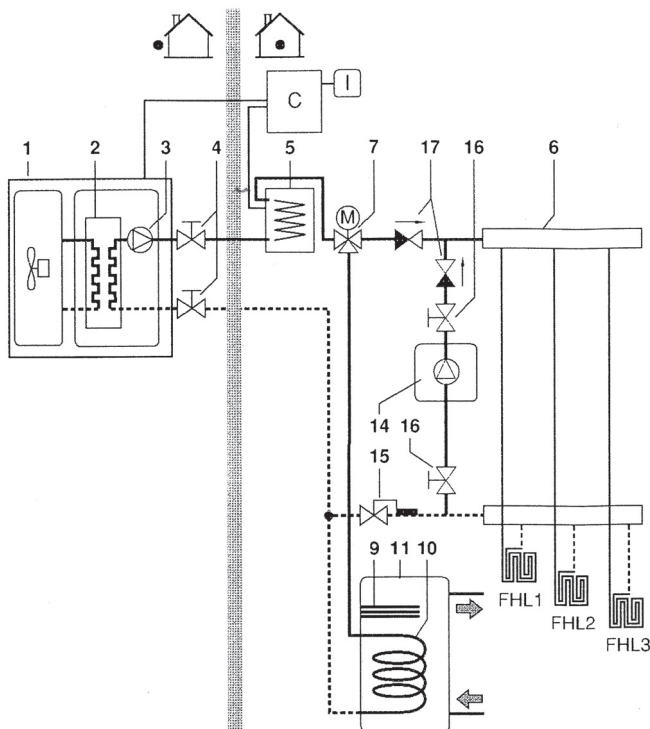
Space heating application by either the Daikin unit or by an auxiliary boiler connected in the system. The decision whether either the EBHQ* unit or the boiler will operate can be achieved by an auxiliary contact or an EKCB* indoor controlled contact.

The auxiliary contact can e.g. be an outdoor temperature thermostat, an electricity tariff contact, a manually operated contact, etc. See "Field wiring configuration A".

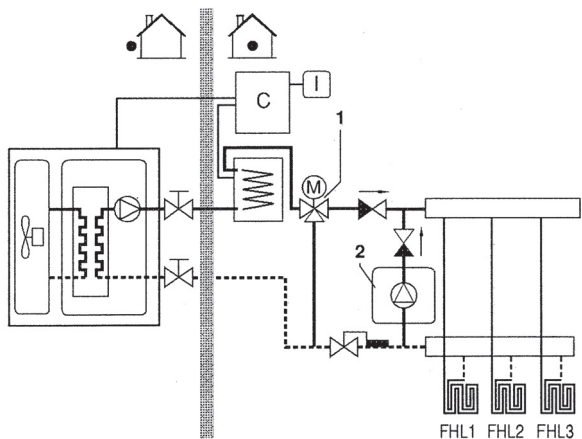
The EKCB* unit controlled contact (also called 'permission signal for the auxiliary boiler') is determined by the outdoor temperature (thermistor located at the outdoor unit). See "Field wiring configuration B".

Bivalent operation is only possible for space heating operation, not for the domestic water heating operation. Domestic hot water in such an application is always provided by the domestic hot water tank which is connected to the Daikin unit.

The auxiliary boiler must be integrated in the piping work and in the field wiring according to the illustrations below.



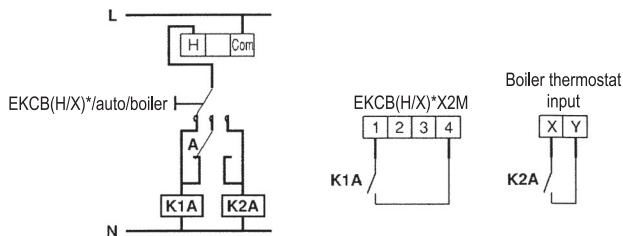
- 1 Outdoor unit
- 2 Heat exchanger
- 3 Pump
- 4 Shut-off valve
- 5 Heater kit
- 6 Collector (field supply)
- 7 Motorised 3-way valve (delivered with the domestic hot water tank)
- 9 Booster heater
- 10 Heat exchanger coil
- 11 Domestic hot water tank (optional)
- 14 Boiler (field supply)
- 15 Aquastat valve (field supply)
- 16 Shut-off valve (field supply)
- 17 Non-return valve (field supply)
- FHL 1 ... 3 Floor heating loop (field supply)
- C Control box
- I User interface



- 1 Motorised 3-way valve
- 2 Boiler

- Daikin can not be put responsible for incorrect or unsafe situations in the boiler system.

Field wiring configuration A



- A Auxiliary contact (normal closed)
- H Heating demand room thermostat (optional)
- K1A Auxiliary relay for activation of EBHQ* unit (field supply)
- K2A Auxiliary relay for activation of boiler (field supply)