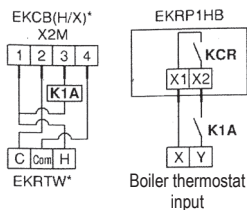


Field wiring configuration B



- C Cooling demand room thermostat (optional)
- H Heating demand room thermostat (optional)
- Com Common room thermostat (optional)
- K1A Auxiliary relay for activation of boiler unit (field supply)
- KCR Permission signal for the auxiliary boiler

Operation

• **Configuration A**

When the room thermostat requests heating, either the EBHQ* unit or the boiler starts operating, depending on the position of the auxiliary contact (A).

• **Configuration B**

When the room thermostat requests heating, either the EBHQ* unit or the boiler starts operating, depending on the outdoor temperature (status of “permission signal for the auxiliary boiler”).

When the permission is given towards the boiler, the space heating operation by the EBHQ* unit will be automatically switched off.

CAUTION

- Make sure that return water to the EBHQ* heat exchanger never exceeds 55°C.
- For this reason, never put the target leaving water temperature set point on the boiler controller above 55°C and install an aquastat⁽⁹⁾ valve in the return water flow of the EBHQ* unit.
- Make sure that the non-return valves (field supply) are correctly installed in the system.
- Make sure that the room thermostat (th) is not frequently turned ON/OFF.
- Daikin shall not be held liable for any damage resulting from failure to observe this rule.

NOTES

- Make sure to configure the DIP switch SS2-3 on the PCB of the EKCB(H/X)* switch box correctly.
- For configuration B: Make sure to configure the field settings correctly.
- **Configuration A**
 Make sure that auxiliary contact (A) has sufficient differential or time delay so as to avoid frequent changeover between the EBHQ* unit and the boiler. If the auxiliary contact (A) is an outdoor temperature thermostat, make sure to install the thermostat in the shade, so that it is not influenced or turned ON/OFF by the sun.
- **Configuration B**
 Make sure that the bivalent hysteresis has sufficient differential to avoid frequent changeover between the EBHQ* unit and the boiler. As the outdoor temperature is measured via the outdoor unit air thermistor, make sure to install the outdoor unit in the shade, so that it is not influenced by the sun. Frequent switching may cause corrosion of the boiler in an early stage. Contact the manufacturer of the boiler.
- During heating operation of the EBHQ* unit, the unit will operate so as to achieve the target leaving water temperature as set on the user interface. When weather dependent operation is active, the water temperature is determined automatically depending on the outdoor temperature. During heating operation of the boiler, the boiler will operate so as to achieve the target leaving water temperature as set on the boiler controller. Never set the target leaving water temperature set point on the boiler controller above 55°C.
- Make sure to only have 1 expansion vessel in the water circuit. An expansion vessel is already premounted in the Daikin unit.

⁽⁹⁾ The aquastat valve must be set for 55°C and must operate to close the return water flow to the unit when the measured temperature exceeds 55°C. When the temperature drops to a lower level, the aquastat valve must operate to open the return water flow to the EBHQ* unit again.