Quick Guide Pre-heater connection and configuration

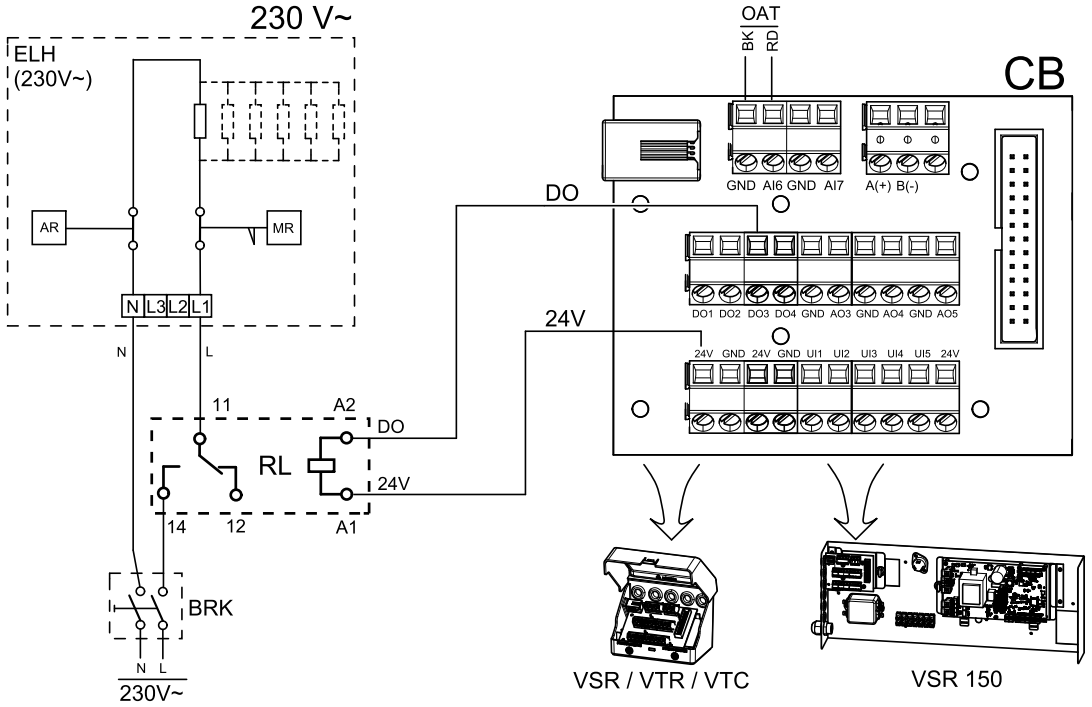

Fig. 1 ELH— electrical pre-heater; RL — relay; BRK— all circuit breaker; OAT— extra duct temperature sensor; CB — connection board; DO— digital output.

Installation and connection

1. Install electrical pre-heater (ELH) at least 100 mm distance from the unit in the outdoor air duct. Relay (RL) is used to control the pre-heater. Connect the relay to any free digital output on the connection board (CB).
2. Connect pre-heater (ELH) and the power supply to the relay (RL). A circuit breaker (BRK) is not included in the package and must be ordered separately. It must be installed in the circuit.
3. Install a duct temperature sensor (OAT) before the electrical pre-heater on the outdoor side of the unit and connect it to any free Analog Input on the connection board (CB).

Configuration

1. Go to `Service` menu
2. Enter password (default 1111)
3. Go to `Components` menu, select `Extra Controller` menu and set `Extra Controller Mode` setting as `Preheater`. Pre-heater setpoint can be set in the same menu. Do other advanced settings if necessary. Read "Installation and Service" manual for more information.
4. Configure connection of the pre-heater. Go to `Service` menu. Select `Output` menu. In next menu select `DIGITAL` tab. Select the digital output to which the pre-heater is connected. Example if it is connected to DO3 on the connection board, then select `DIGITAL OUTPUT 3` and select `Step Controller Y4 Extra Controller` from the output type list.
5. Configure internal outdoor temperature sensor as extra controller temperature sensor. Go to `Service` menu. Select `Input` menu. Select `ANALOG` tab. Select the `ANALOG INPUT 1` and change its configuration from `Outdoor Air Temperature Sensor (OAT)` sensor to `Extra Controller Temperature Sensor (ECT)`.
6. After sensor configuration is changed select the Analog Input to which the newly installed duct temperature sensor (OAT) is connected and configure it as `Outdoor Air Temperature Sensor (OAT)`.