

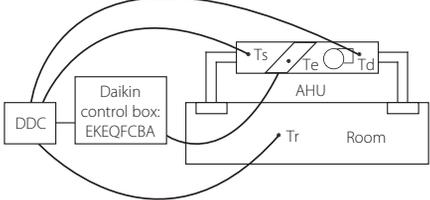
In order to maximize installation flexibility, 4 types of control systems are offered

- Control w:** Off the shelf control of air temperature (discharge temperature, suction temperature, room temperature) via any DDC controller
- Control x:** Precize control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)
- Control y:** Control of refrigerant (Te/Tc) temperature via Daikin control (no DDC controller needed)
- Control z:** Control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)

Possibility W (Td/Tr control):

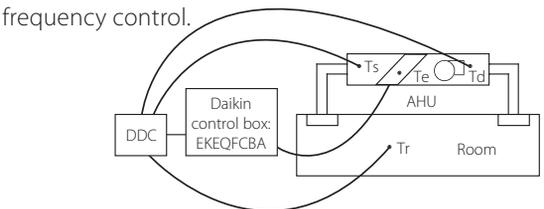
Air temperature control via DDC controller
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a proportional 0-10V signal which is transferred to the Daikin control box (EKEQFCBA).

This voltage controls the compressor frequency.



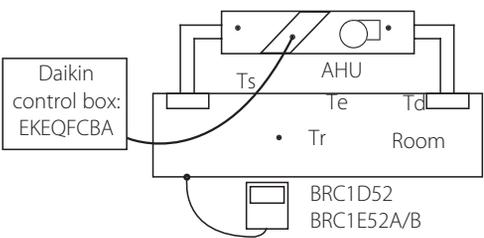
Possibility X (Td/Tr control):

Precise air temperature control via DDC controller
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) which is transferred to the Daikin control box (EKEQFCBA). This reference voltage will be used as the main input value for the compressor frequency control.



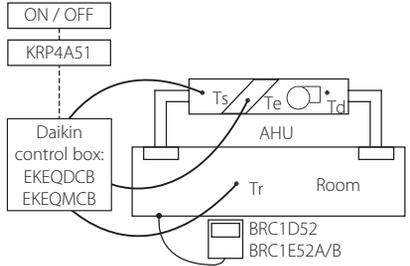
Possibility Y (Te/Tc control):

By fixed evaporating /condensing temperature
A fixed target evaporating temperature of between 3°C and 8°C can be set by the customer. In this case, room temperature is only indirectly controlled. The cooling load is determined from the actual evaporating temperature (i.e. load to the heat exchanger). A Daikin infrared remote control (BRC1D52 or BRC1E52A/B - optional) can be connected for error indication.



Possibility Z (Ts/Tr control):

Control your AHU just like a VRV indoor unit with 100% fresh air (BRC1D52 or BRC1E52A/B - optional)
Set point can be fixed via standard Daikin infrared remote control. Remote ON/OFF can be achieved by an optional adapter KRP4A51. No external DDC controller should be connected. The cooling load is determined from the air suction temperature and set point on the Daikin controller.



Ts = Air suction temperature Tr = Room temperature AHU = Air Handling Unit
Td = Air discharge temperature Te = Evaporating temperature DDC = Digital Display Controller

	Option kit	Features
Possibility w	EKEQFCBA	DDC controller is required temperature control using air suction or air discharge temperature
Possibility x		DDC and Microtech controller is required Precise Temperature control using air suction or air discharge temperature
Possibility y		Using fixed evaporating temperature, no set point can be set using remote control
Possibility z	EKEQDCB EKFQMCBA*	Using Daikin infrared remote control BRC1D52 or BRC1E52A/B Temperature control using air suction temperature

* EKEQMxCB (for 'multi' application)