

## Daikin Zoning Kit Multi-zone comfort control



# Daikin Zoning Kit (DZK) with BACnet® Interface functionality

*The DZK BACnet Interface module will work with any BACnet IP compatible Building Management System, including the iTM BACnet Client option.*

## The Daikin Zoning Kit (DZK)



The DZK increases the flexibility of the Daikin VRV and SkyAir systems in both residential and commercial applications by adding a Zoning Box to an indoor unit (FXMQ\_P or FBQ\_P series, respectively) allowing several separate ducts to supply air to different individually-controlled zones. A zone can be a room, part of a room, or several rooms. This flexible and scalable Zoning Kit integrates seamlessly with the indoor unit fan coil controls.

The DZK system controls establishes the required set-point, fan speed and mode of operation that is requested to the VRV indoor unit. This allows the internal DZK control algorithms to look at the number of zone dampers in operation, and at what position the dampers need to be and adjust the VRV indoor unit operation accordingly.

## DZK BACnet® Interface Module **NEW**

The DZK system is not directly compatible with the suite of Daikin centralized control options such as iTM and iTC. However, it is now possible to address this requirement with the DZK BACnet Interface module.



The DZK BACnet Interface module will work with any BACnet IP compatible Building Management System, including the iTM BACnet Client option, and allow for monitoring and controlling the various DZK zone dampers from a centralized control system.

## Zoning Box with Control Board



The Zoning Box in the DZK mounts easily on Daikin's FXMQ\_P or FBQ\_P series indoor units. It consists of the enclosure, individually motorized dampers, and a control board. It is available in different sizes and damper configurations and by utilizing ducts for air supply it can be used to control the air temperature in up to 6 zones. The wired thermostat and the wireless thermostats provide temperature inputs and user interfaces for programming and adjustment of the control functions for each zone.

## Wired Thermostat



The wired thermostat in the DZK is a graphical colored, touch-screen interface with text menus, intuitive icons, and guided scheduling capability. It displays temperatures and operating values, and selects the operating mode for the system. At least one wired thermostat is required per DZK.

## Wireless Thermostat

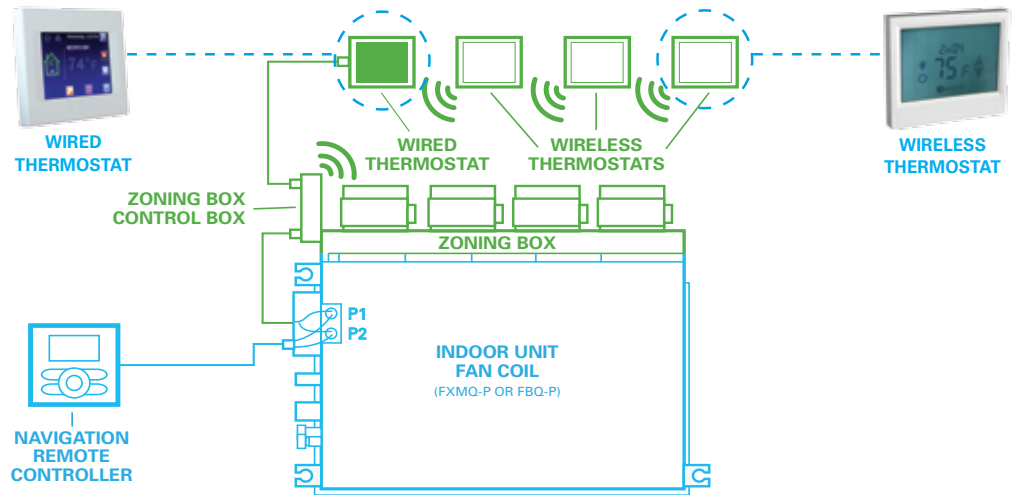


The wireless backlit touch-screen thermostat in the DZK can control the temperature for a zone while displaying the air temperature, system time, and day of the week. Additional functions include adjusting set point temperature, automatic configuration, local ventilation activation, and vacation mode.

A wireless thermostat is required for zones not being controlled by a wired thermostat.



**Typical Zoning Kit Configuration — 4 Zones**



DZK KIT STRUCTURE AND GENERAL TECHNICAL DATA							
	Zoning Box with Control Board				Wired Thermostat	Wireless Thermostat	BACnet <sup>®</sup> Interface
DZK Product Number	DZK030E4, DZK030E4-2*	DZK030E5, DZK030E5-2*	DZK048E4, DZK048E4-2*	DZK048E6, DZK048E6-2*	DZK-MTS-1-W, DZK-MTS-2-W*	DZK-ZTS-1-W, DZK-ZTS-2-W*	DZK-BACNET-2*
<b>KIT STRUCTURE</b>							
Compatible with Indoor Unit Fan Coils FXMQ15-24PBVJU FBQ18-30PVJU	Yes		No		Yes		
Compatible with Indoor Unit Fan Coils FXMQ30-54PBVJU FBQ36-42PVJU	No		Yes		Yes		
Number of Zones Compatibility	Maximum 4	Maximum 5	Maximum 4	Maximum 6	-	-	-
Number of Air Duct Outlets x Diameter (")	4 x Ø8	5 x Ø6	4 x Ø8	6 x Ø6	-	-	-
Required Quantity	One Per Indoor Unit Fan Coil DZK030E4-2 Required for BACnet/IP	One Per Indoor Unit Fan Coil DZK030E5-2 Required for BACnet/IP	One Per Indoor Unit Fan Coil DZK048E4-2 Required for BACnet/IP	One Per Indoor Unit Fan Coil DZK048E6-2 Required for BACnet/IP	Minimum One Per Indoor Unit Fan Coil DZK-MTS-2-W Required for BACnet/IP	Number of Zones Minus Number of Wired Thermostats DZK-ZTS-2-W Required for BACnet/IP	One Per DZK Zoning Box with BACnet/IP
<b>TECHNICAL DATA</b>							
Height (")	10.43				3.58		1.6
Width (")	43.58		53.46		4.13		2.7
Depth (")	10.43				0.94		1.2
Weight (lbs)	18.04	20.24		23.32	0.4	0.46	0.063
Input Voltage	110/230 VAC				12 VDC, from Zoning Box	2 AAA Batteries	12 VDC, from Control Board
Full Load Amps (A)	0.25				-	-	-

\* "-2" in the Product Number indicates that the product has BACnet/IP functionality. "-2" thermostats will function with original DZK units, and original -1 thermostats will function with new -2 DZK units. The DZK-BACNET-2 board must be combined only with -2 DZK Zoning Boxes and -2 DZK thermostats.

DZK BACNET POINTS			
Common Points	DZK System Alarm	DZK Aux Heat2	DZK Error
	DZK Global Fan	DZK/BACnet board Communication Error	DZK Operation Mode
	DZK Aux Heat1		
Zone Points (per zone)	ON/OFF	Unoccupied	Cooling Demand
	Local Ventilation	Room Temperature	Heating Demand
	Vacation Mode	Heating Setpoint	Aux Heating Demand
	Auto (Follow Schedule)	Cooling Setpoint	Opening Step Damper
Indoor Unit Points	IU Status ON/OFF	IU Errors	DZK Address (DK airnet address)
	IU Speed	IU Set Point	DZK Group Address (DK group address)

