

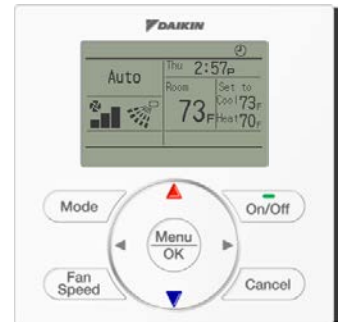
D-NP-VRV-894

Date: **February 27, 2015**

To: **Daikin Brand Sales, Reps and Distributors**

From: **Controls Engineering Department**

Subject: **BRC1E73 Navigation Remote Controller**



BRC1E73

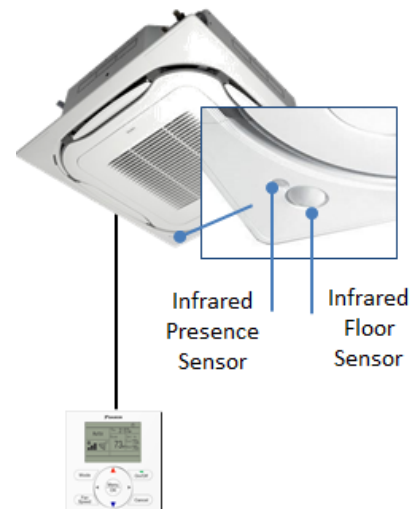
Daikin is pleased to announce the release of the New Navigation Remote Controller - BRC1E73 for use with the VRV and SkyAir indoor units (except the FTXS). The BRC1E73 will replace the BRC1E72 and BRC1E52A7. Both the BRC1E72 and BRC1E52A7 will be phased out.

Purchase orders submitted to Daikin for the BRC1E73 will be accepted starting mid-March 2015. Shipments will begin mid-April 2015.

New Features

The Navigation Remote Controller has been enhanced to meet the configuration requirements of Daikin's new VRV indoor units (FXFQ_TVJU and FXUQ_PVJU). The new configuration menus bring to life Automatic Setback by occupancy sensor, Automatic Off by occupancy sensor, floor temperature sensor, self-cleaning filter panel and increased fan control in order to further increase efficiency and reduce maintenance costs.

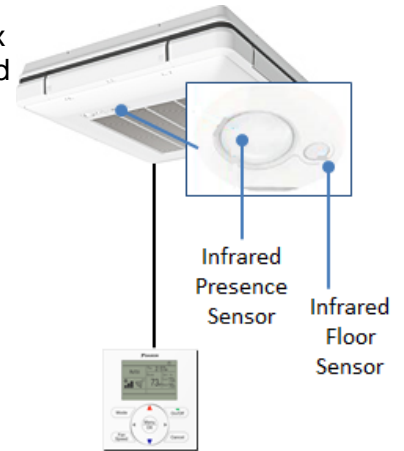
- A. FXFQ_TVJU Sensing Panel (part# *BYCQ125B-W1*) has two main functions: saves energy and optimizes occupants comfort.
1. Automatic Setback by occupancy sensor*
 - The cooling and heating setpoints will gradually relax (configurable) internally when the room is determined to be unoccupied
 - The internal setpoint will return to the original setpoint when room occupancy is detected
 2. Automatic Off by occupancy sensor*
 - The indoor unit will turn off when it is determined that the room is unoccupied after a specified time has elapsed
 - The indoor unit will have to be turned on manually when occupancy is detected
 3. The built-in floor temperature sensor* is used to maintain an even and comfortable temperature distribution from the floor to the ceiling.
 - Automatically adjusts the supplied airflow rate and the individual position for each of the four louvers on the indoor unit.



Note: * Configuration settings can only be made with the BRC1E73

B. FXUQ_PVJU Sensing Kit (part# *BRE49B1F*)

1. Automatic Setback by occupancy sensor*
 - The cooling and heating setpoints will gradually relax (configurable) internally when the room is determined to be unoccupied
 - The internal setpoint will return to the original setpoint when room occupancy is detected
2. Automatic Off by occupancy sensor*
 - The indoor unit will turn off when it is determined that the room is unoccupied after a specified time has elapsed
 - The indoor unit will have to be turned on manually when occupancy is detected
3. The built-in floor temperature sensor is used to maintain an even and comfortable temperature distribution from the floor to the ceiling.
 - Automatically adjusts the supplied airflow rate and the individual position of each of the four louvers on the indoor unit.
 - Can be enabled (default) or disabled by field setting
 - Sensor priority can be set by field setting



C. FXFQ_TVJU Self-cleaning filter panel (part# *BYCQ125BGW1*) performs automatic air filter cleaning once a day. An indicator light on the indoor unit and BRC1E73 will alert users when it is time to empty the dust collection box. The dust collection box can be easily emptied with a standard vacuum in a few seconds.

1. Self-cleaning Filter*
 - Eight (8) time periods (00:00-03:00, 03:00-06:00, 06:00-09:00, 09:00-12:00, 12:00-15:00, 15:00-18:00, 18:00-21:00, 21:00-00:00) are available to select from to enable the automatic filter cleaning function
 - Default time period (00:00 to 3:00) is used if the period for filter auto cleaning is not specified



D. Increased fan control (FXFQ_TVJU & FXUQ_PVJU)*

1. Up to 5 fan speeds selectable
2. Individual louver airflow direction
3. Dual airflow
4. Auto draft prevention (prevents air blowing directly on occupants)

Note: * Configuration settings can only be made with the BRC1E73

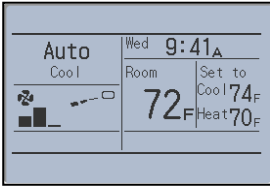
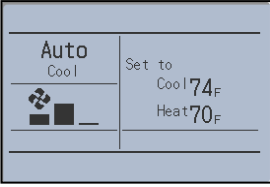
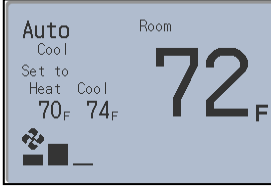
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The BRC1E73 will still provide all the features of the existing BRC1E72. It is backwards compatible and has the same dimensions as BRC1E72.

Standard Features:

- A. Backlight
- B. English, French or Spanish languages available
- C. Intuitive buttons & menus
- D. Room temperature sensor and room temperature display
- E. Configurable display mode – Detailed, Standard, and Simple

Display Mode	Detailed	Standard	Simple
Display image			
On/Off status on LED (LED blinks when an error is occurred)	X	X	X
Mode	X *1	X *1	X *1
Setpoint (Dual/Single)	X *2	X *2	X *2
Room temperature	X		X
Fan speed	X *3	X *3	X *3
Air flow direction (when a louver is available)	X		
Day and Time	X *3		
Status icon	X *3	X *3	
Key lock icon	X	X	
Error message	X	X	

*1. OFF can be displayed instead of the operation mode while the unit is turned off with the field setting

*2. Can be removed from the display while the unit is turned off with a field setting

*3. Can be removed from the display with a field setting

- F. Dual setpoints (individual Cool and Heat setpoints with minimum setpoint differential) or Single setpoint for occupied periods
- G. Setback setpoints for unoccupied periods
- H. Setpoint range limitation for Cooling and Heating

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I. Auto-changeover for Heat Recovery and Heat Pump systems with Dual/Single setpoints

Auto changeover:

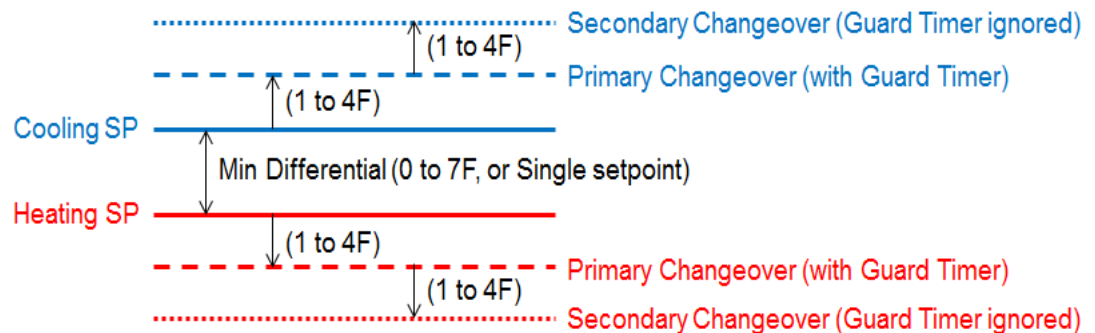
Automatic changeover is available for Heat Pump system and Heat Recovery systems. The setpoint for cooling and heating are configurable with a minimum differential of 0 to 7°F or single setpoint. The changeover is automatically controlled to happen in either of the following two cases:

Case 1: Changeover at the primary changeover temperature after the guard timer expires.

1. In default, the primary changeover setpoint is 1°F above cooling setpoint or 1°F below heating setpoint, which is configurable between 1°F – 4°F.
2. In default, the guard timer is 60 minutes, which is selectable among 15, 30, 60 (default) or 90 minutes.
3. The initiation of guard timer is built in to help prevent frequent changeover which may cause energy loss.

Case 2: Changeover at the secondary changeover temperature.

1. In default, the secondary changeover temperature is 1°F above the primary changeover temperature for cooling or 1°F below the primary changeover temperature for heating, which is configurable between 1°F – 4°F.
2. Case 2 will happen while the guard time is active in case 1.



- J. Weekly Setback Schedule – 7 day, Weekday plus Saturday and Sunday (5+1+1), Weekday plus Weekend (5+2), and Everyday (1)
1. Allows programming up to 5 events per day with Cool / Heat setpoints or Setback setpoints
- K. Automatic adjustment for Daylight Savings Time (DST)
- L. Selected operation modes can be disabled
- M. Individual button prohibits
- N. Setpoint and Mode adjustment can be prohibited while the unit is off
- O. Fahrenheit / Celsius, 12H / 24H

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P. Face decals

Face Decal Options:

Face decal options to hide unnecessary buttons

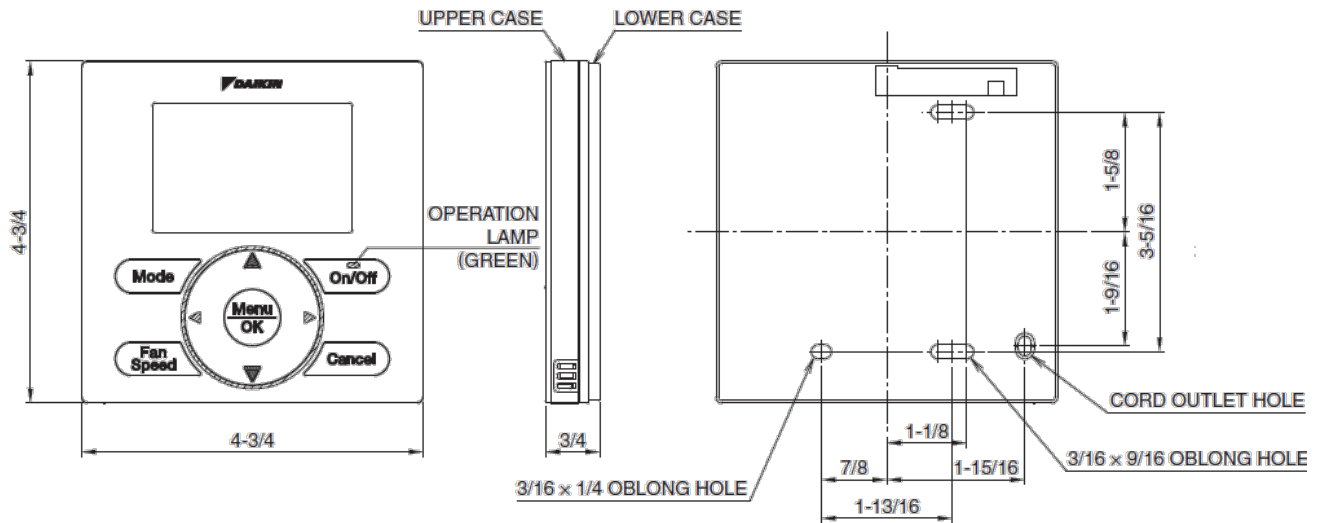
1. The face decal is designed to adhere to the BRC1E faceplate
2. Hidden buttons can be used/accessed by service personnel without removing the face decal due to its flexibility



Used with	Single Setpoint mode			Dual Setpoint mode		
	BRC1E72RM	BRC1E72RF	BRC1E72RMF	BRC1E72RM2	BRC1E72RF2	BRC1E72RMF2
Model						
On/Off	X	X	X	X	X	X
Mode	X		X	X		X
Fan		X	X		X	X
Up, Down	X	X	X	X	X	X
Left, Right				X	X	X
Menu/OK						
Cancel						

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Dimensions:**SPECIFICATIONS OF CORD**

TYPE	VINYL CORD WITH SHEATH OR CABLE (INSULATED THICKNESS: 1mm OR MORE)
SIZE	AWG18
TOTAL LENGTH	1640ft.

Documentation:

Sales support documents available mid-March 2015 on Daikin City and www.daikinac.com.

- A. Submittal Data Sheet
- B. Written Guide Spec
- C. Installation and Operation Manual
- D. Sales Preso
- E. Engineering Guide
- F. Controls Configurator Tool

Training:

Training classes will cover the BRC1E73 starting April 2015. Visit www.daikinuniversity.com

- A. Controls Product and Application (Sales training)
- B. Controls Install and Commissioning (Commission training)
- C. All VRV sales and technical service classes

For more information please contact your local Daikin sales representative.

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