

Project Name:

Location:

Engineer:

Submitted to:

Submitted by:

Reference:

Approval:

Date:

Construction:

Unit #:

Drawing #:

Model Compatibility:

For use with the following VRV indoor unit models: FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXMQ_MF, FXNQ, FXTQ, FXUQ, FXZQ

For use with the following Daikin SkyAir indoor unit models: FAQ, FBQ, FCQ, FHQ, FTQ

Specifications:

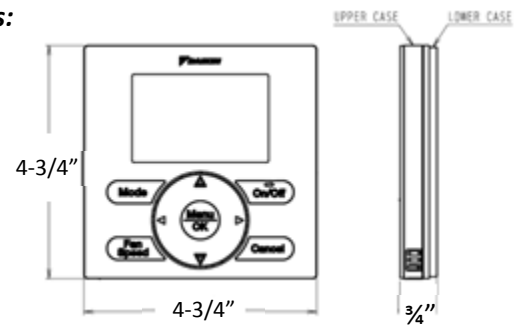
Model	BRC1E73
Description	Navigation Remote Controller
Maximum Connections	16 indoor units
Communication Wire	18AWG-2, No polarity Stranded, Non-shielded
Total Wiring Length	1,640 ft. (500 m)
Communication Protocol	Daikin Proprietary P1P2 protocol
Power	16VDC supplied by Indoor unit (1.58VA maximum)
Comfort Setpoint Range	60 to 90 °F (16 to 32 °C)
Setback Setpoint Range	40 to 95 °F (5 to 35 °C)
Operating Temp Range	14 to 122 °F (-10 to 50 °C)
Operating Humidity Range	75% or less (RH) (w/o condensation)
Dimensions (WxHxD)	4.72x4.72x0.75 inch (120x120x19 mm)
Weight (Mass)	0.42 lbs. (0.19 kg)

Product Image:

1 of 3 display options –
Detailed display shown



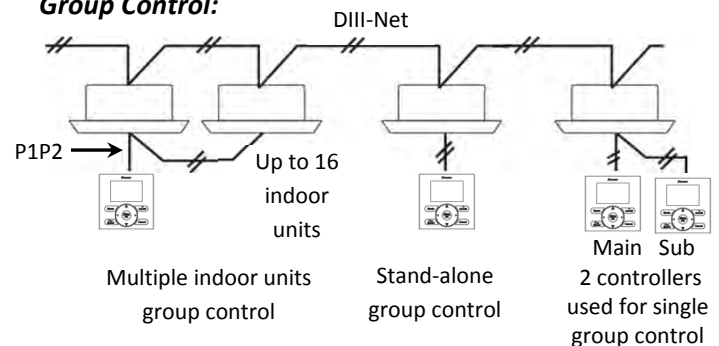
Dimensions:



Features/Benefits:

- Up to 16 indoor units are controllable within one group
- Within one group, up to 2 Navigation Remote Controllers can be used, one as a main and one as a sub
- Backlit LCD displays in English, Spanish or French
- Temperature sensor built-in with configurable offset
- Display of Temperature and Setpoint in 1°F / °C increments
- Three configurable display options: Detailed, Standard and Simple
- Dual setpoints (independent cooling and heating setpoints) with configurable minimum setpoint differential or Single Setpoint (occupied period)
- Setpoint range limit for cooling and heating modes
- Independent cooling and heating setback setpoints (unoccupied period)
- Auto changeover control with configurable Primary changeover at setpoint $\pm 1^\circ$ F with guard timer

Group Control:



Daikin North America LLC, 5151 San Felipe Suite 500, Houston, TX 77056

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Submittal Data Sheet

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11. Airflow – Individual air flow direction, dual airflow and auto draft prevention (prevents air blowing directly on occupants)*
12. Built-in 7, 5+2, 5+1+1 and 1 (Everyday) schedules with up to 5 actions per day with independent cooling and heating or setback setpoints
13. Automatic Setback by occupancy sensor*
14. Automatic Off by occupancy sensor*
15. Configuration for Self-cleaning filter panel**
16. Automatic adjustment for Daylight Savings Time (DST)
17. 48 hour clock/calendar battery backup (protects schedule timing in cases of short term power loss from indoor unit)
18. Real-time monitoring of system malfunctions with immediate display of unit in error and error code
19. The buttons on the remote controller are selectable by locking out the unwanted buttons
20. The operation modes can be restricted to provide only the desired mode(s) of operation
21. Display can be configured to show “Off” and room temperature only when indoor unit is turned off
22. To prevent unwanted changes, fan speed selection and display may be hidden
23. Auto off timer configurable in 10 minute increments (range 30-180 minutes)
24. Can be used to replace earlier versions of remote controllers

* Available for FXFQ_TVJU and FXUQ_PVJU indoor units

**Available for FXTQ_TVJU indoor units

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.

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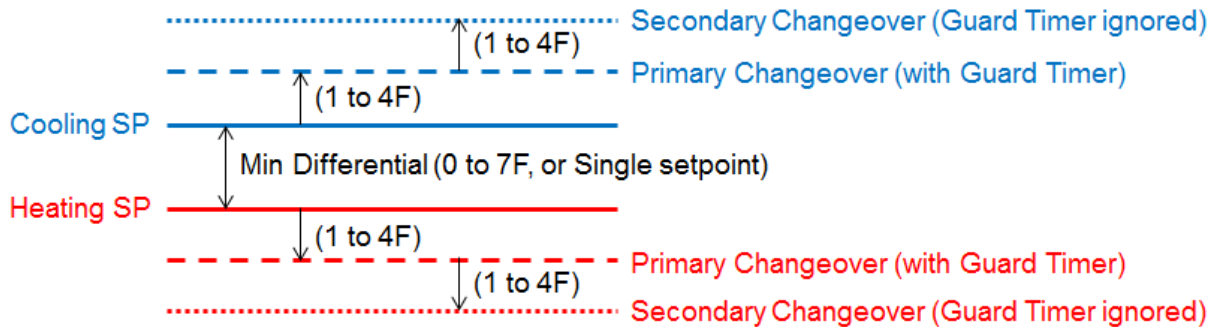
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Face Decal Options:

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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Documentation:

Documentation available on www.daikincity.com or www.daikinac.com

- Installation Manual
- Operation Manual
- Submittal
- Guide Specifications

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THERMAL MECHANICS, INC.

715 GODDARD AVENUE, CHESTERFIELD, MO 63005

VOICE (636) 532-1110

FAX (636) 532-7318

DATE: July 15, 2016

MAB

EQUIPMENT SUBMITTAL – REVISION “2”

PRODUCTION ON HOLD FOR APPROVAL

Production is on HOLD and will not be released or scheduled until receipt of approved submittals noting any changes required.

Manufacturer: **Daikin Applied**

Equipment: ***Ductless Split Cooling System***

Spec Section: 235000.2.7

Job Name: **Webster University
Interdisciplinary Science Building**

Engineer: William Tao & Associates

Contractor: **Icon Mechanical**

Purchase Order #: **To Follow**

TMI Ref #: 160501

Contact: Jason Hibbits

Webster University ISB																				
Indoor Unit										Outdoor Unit										
Tag	Model No.	Maximum Air Flow (CFM)	ESP (inH ₂ O)	Cooling				Heating		Tag	Model No.	Voltage	MCA	MFA	Cooling			Heating		
				EDB (°F)	EWB (°F)	Rated Total Capacity (Btu/Hr)	Rated Sensible Capacity (Btu/Hr)	EAT (°F)	Capacity (Btu/Hr)						Ambient (°F)	Input Power (kW)	SEER	Ambient (°F)	Input Power (kW)	COP
FCU-1	FAQ24PVJU	635	0.00	80.0	67.0	24000	18000	-	-	ACCU-1	RZR24PVJU	208-230/60/1	16.5	20	95	1.61	17.6	-	-	N/A
FCU-2	FAQ24PVJU	635	0.00	80.0	67.0	24000	18000	-	-	ACCU-2	RZR24PVJU	208-230/60/1	16.5	20	95	1.61	17.6	-	-	N/A
FCU-3	FAQ24PVJU	635	0.00	80.0	67.0	24000	18000	-	-	ACCU-3	RZR24PVJU	208-230/60/1	16.5	20	95	1.61	17.6	-	-	N/A
FCU-4	FAQ24PVJU	635	0.00	80.0	67.0	24000	18000	-	-	ACCU-4	RZR24PVJU	208-230/60/1	16.5	20	95	1.61	17.6	-	-	N/A
FCU-5A	FXAQ18PVJU	500	0.00	80.0	67.0	18003	13376	-	-											
FCU-5B	FXAQ24PVJU	635	0.00	80.0	67.0	24004	17105	-	-	ACCU-5	RXYMQ48PVJU	208-230/60/1	27	30	95	4.73	15.1	-	-	N/A
FCU-5C	FXAQ18PVJU	500	0.00	80.0	67.0	18003	13376	-	-											

NOTES:

1. Remote wall mounted temperature sensors are being provided for ceiling mounted units.
2. Condensate pump kits are provided for the indoor units.
3. ACCU-3 & 4 to be provided with a low ambient wind baffle kit (the remaining condensing units are located in a conditioned space).
4. ACCU-5 is matched to three wall mounted fan coils
5. Local disconnect switches are by others if required.
6. Mounting brackets provided with all wall units.