

Field Settings for Daikin VRV / SkyAir indoor unit and remote controllers

Controls Engineering, Daikin Comfort Technologies North America, Inc.

Availability of Indoor Unit Field Settings (Control Related)

As of Aug 2023

Mode No.	10						12						
	2			5	6	8	0	1	2 ¹	3		6	
First Code No.	01	02	03	01/02	01/02	01/02	01/03/04	01/02	01/02	01/02	01/02	03	01/02/03
FXSQ_MVJU FXSQ_TAVJU <small>NEW</small>	X	X	X ³	X ³	X	n/a	X	X	X (02)	X	X ³	X ²	
FXMQ_MVJU FXMQ_PBVJU <small>NEW</small>	X	X	X ²	X ²	X	n/a	X	X	X (02)	X	X ²	X ²	
FXMQ72/96MVJU FXMQ_PAVJU FXMQ_PBVJU FBQ_PVJU	X	X	X	X	x	n/a	X	X	X (02)	X	X	X	
FXDQ_MVJU	X	X	X	X	X	n/a	X	X	X	X	X	X ⁴	
FXTQ_PVJU FTQ_PAVJU FTQ_PBVJU FXTQ_PAVJU FXTQ_TAVJU CXTQ_TAVJU <small>NEW</small>	n/a	X	X	X	X	n/a	X	X	X (02)	X	X	X	
BEQ_MVJLR1(FXOQ)	X	X	X	X	X	n/a	X	X	X (02)	X	X	X ²	
FXLQ_MVJU	X	X	X ²	X ²	X	n/a	X	X	X (02)	X	X ²	X ²	
FXLQ_MVJU9	X	X	X	X	X	n/a	X	X	X (02)	X	X	X	
FXNQ_MVJU	X	X	X ²	X ²	X	n/a	X	X	X (02)	X	X ²	X ²	
FXNQ_MVJU9	X	X	X	X	X	n/a	X	X	X (02)	X	X	X	
FXAQ_MVJU FAQ_MVJU	X	X	X ²	X ²	X	n/a	n/a	X	X (01)	X	X ²	n/a	
FAQ_PVJU	X	X	X ²	X ²	X	n/a	n/a	X	X(01)	X	X ²	X ⁵	
FXAQ_PVJU	X	X	X	X	X	n/a	n/a	X	X(01)	X	X	X ⁵	
FXZQ_M7VJU		X	X ²	X ²		n/a					X ²	X ²	
FXZQ_MVJU9 FXZQ_TAVJU <small>NEW</small> FXZQ_TBVJU <small>NEW</small>	X	X	X	X	X	n/a	X	X	X (01)	X	X	X	
FXFQ_MVJU FCQ_MVJU FCQ_PVJU	X	X	n/a	n/a	n/a	n/a	X	X	X (01)	X	n/a	n/a	
FXFQ_PVJU FCQ_PAVJU FXFQ_TVJU	X	X	X	X	X	X	X	X	X (01)	X	X	X	
FXHQ_MVJU FHQ_PVJU FHQ_MVJU	X ⁵	X	X ⁵	X ⁵	X ⁵	n/a	X	X	X (01)	X	X ⁵	X ⁵	
FXUQ_PVJU FXUQ_PAVJU <small>NEW</small>	X	X	X	X	X	X	n/a	X	X(01)	X	X	X	
FXEQ_PVJU	X	X	X	X	X	n/a	X	X	X(01)	X	X	X	
FDMQ_RVJU <small>NEW</small>	X	X	X	X	X	X	X	X	n/a	X	X	X	

Indoor unit models shaded in grey are obsolete

¹ Factory default value is indicated in parenthesis.

² Field settings highlighted in orange may not be available in units manufactured before 9/1/2009.

³ Field settings highlighted in purple may not be available in units manufactured before 1/1/2007.

⁴ Field settings highlighted in blue may not be available in units manufactured before 1/1/2013.

⁵ Field settings highlighted in green may not be available in units manufactured before 1/1/2015.

The following settings are available for FXFQ_TVJU and FXUQ_PVJU which have individual air flow control and presence / floor sensors options.		
11-3, 11-6, 11-8, and 11-9	12-9	13-2
The following settings are available for FXFQ_TVJU which has the self-cleaning filter option.		
14-2, 14-4, 14-8, 14-9		

Field Settings – Indoor Unit (Control Related)

(Green highlighted items are FXFQ_TVJU and FXUQ_PVJU field settings)

Mode No. (Note 1)	First Code No.	Description	Second Code No. (Note 2)										
			(Bold cells in grey are factory default settings)										
			01			02			03			04	
10(20)	2	Priority of thermistor sensors for space temperature control	The return air thermistor is primary and the remote controller thermistor is secondary			Only the return air thermistor will be utilized			Only the remote controller thermistor will be utilized			--	
	5	Room temperature value reported to multizone controllers	Return air thermistor			Thermistor designated by 10-2 above (Note 3)			--			--	
	6	The remote controller thermistor is used in Remote Controller Group	No			Yes			--			--	
	7	Time for absence area detection	30 minutes			60 minutes			--			--	
	8	Return air sensor offset in Heating	2C			None (for remote sensor and remote controller sensor)			--			--	
11(21)	1	Auxiliary electric heater ON temp: Ton	See Appendix 3										
	1	Auxiliary electric heater ON/OFF temperature: Ton/Toff											
	2	Auxiliary electric heater OFF temperature: Toff											
	3	Electric heater setting (FXTQ_TA)	See Appendix 2										
	3	Fan Speed during Heating operation	Standard			Slight Increase			Increase			--	
	5	Electric heat capacity setting (FXTQ_TA)	Second code	01	02	03	04	05	06	07	08	09	10
			Heater kit	None	3kw	5kw	6kw	8kw	10kw	15kw	19kw	20kw	25kw
	6	Sensitivity of presence sensor	High (sensitivity % of 10% or more)			Low (sensitivity % of 30% or more)			Standard (sensitivity % of 20% or more)			Infrared presence/floor sensor disabled (Note 5)	
	8	Compensation of temperature around human body	Return air sensor only			Higher priority on the return air temperature			Standard			Higher priority on the floor temperature	
	9	Floor sensor offset	-4°C (-7.2°F)			-2°C (-3.6°F)			0°C (0°F)			+2°C (+3.6°F)	
12	Dry Mode (FXZQ_TB & FXUQ_PA)	Set Point = Room Temperature			Set Point became same as cooling mode set point			--			--		

12(22)	0	KRP1C, X1-X2 status output	Indoor unit Thermo-On/Off status	N/A	Indoor unit Operation On/Off status	Indoor unit Alarm status	
	1	Indoor unit T1-T2 input	Forced Off Closed Contact-Indoor unit is forced off and Central Control icon is displayed. Unit cannot be turned on manually. Operation can be overridden by central control. Open Contact-Indoor unit can resume normal operation. Unit must be turned on manually or by central control.	On/Off Closed Contact-Indoor unit is turned on. Open Contact-Indoor unit is turned off. Unit responds to last command, i.e., unit can be turned on manually or by central control after circuit has opened. Operation is prohibited when remote controller On/Off control is restricted by a multi-zone controller.	External Protection Device Closed contact-Unit shall resume normal operation. Open contact-Unit shall shut down and generate an A0 error.	--	
	2	Thermo-On/Off deadband (Note 4)	1°C (1.8°F)	0.5°C (0.9°F)	--	--	
	3	Fan Speed in Heating Thermo-Off	LL	User set	Off	--	
	 5	Auto restart after power failure	Off	On	--	--	
	6	Fan Speed in Cooling Thermo-Off	LL	User set	Off	--	
13 (23)	 0	Setting of airflow rate	Standard	High ceiling 1	High ceiling 2	--	
	 1	Airflow direction setting	4-direction airflow	3-direction airflow	2-direction airflow	--	
	2	Flap moving in swing mode	All 4 flaps synchronized	--	Two opposite flaps synchronized	--	
	 4	Airflow direction adjustment range	Draft prevention	Standard	Ceiling soiling prevention	--	
	 5	Static pressure setting	Standard	High static	--	--	
	 6	External static pressure setting (FXSQ, FXMQ)	See Appendix 4				
14 (24)	2	Filter cleaning display for the self-cleaning decoration panel only	1250 Hours	2500 Hours	5000 Hours	--	
	 4	Optional kit setting (UV lamp, humidifier, economizer)	See Appendix 5				
	4	Panel Indicator (green ON/OFF) for Auto-Clean Function FXFQ_TVJU	On-while in air-conditioning operation and filter cleaning operation	Possible to turn on while in filter cleaning operation only	Off While in conditioning operation and filter cleaning operation	--	
	5	Dry Mode (FXTQ_TAVJU)	Set Point = Room Temperature	Set Point became same as cooling mode set point	--	--	
	8	Auto Cleaning operation for filter	Auto control operation	No Auto Control Operation	--	--	
	9	Dust Quantity Setting	Standard	Large	--	--	

	NEW 9	Mold proof operation setting FXEQ	--	Standard	For high humidity areas	--
	NEW 11	Gas furnace test mode	Off	Low heat	High heat	--
15 (25)	NEW 0	Drain pump operation	--	On	Off	--
	NEW 1	Humidification when heating thermostat is OFF	Not Equipped	Equipped	--	--
	NEW 2	Direct duct connection	Not equipped	Equipped	--	--
	NEW 3	Interlocked operation between humidifier and drain pump	Not interlocked	Interlocked	--	--
	NEW 5	Individual setting of ventilation	Normal	Individual	--	--

1. Field settings are normally applied to the entire remote control group, however if individual indoor units in the remote control group require specific settings or for confirmation that settings have been established, utilize the mode number in parenthesis.
2. Any features not supported by the installed indoor unit will not be displayed.
3. When mode 10-2-01 is selected, only the return air temperature value is reported to the multizone controller.
4. The actual default deadband value will depend upon the indoor unit model.
5. The presence sensor will be disabled. As a result, you will not be able to see the related setting menus (Draft Prevention function, Auto-setback by Sensor and Auto-off by Sensor).

Appendix 1 - Recommended settings for the FXFQ_TVJU and FXUQ_PVJU Only

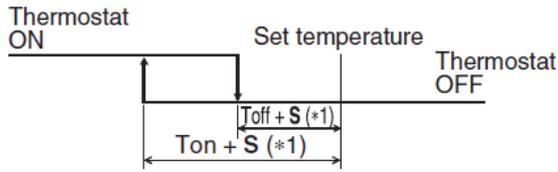
#	Temperature sensor used by indoor unit to sense the room temperature	To use selected sensor temp for indoor unit control	To send selected sensor temp to ITM/ITC and BACnet/LON Interface	To display selected sensor temp on NAV
1	NAV sensor	10(20)-2-03 11(21)-8-01 (Disable floor sensor)	10(20)-5-02 10(20)-8-02(*) (Disable sensor offset)	1c-1-02
2	Return air sensor	10(20)-2-02 11(21)-8-01 (Disable floor sensor)	10(20)-5-01/02 10(20)-8-01(*)	1c-1-01
3	Return air sensor primary, NAV sensor secondary when return air temp is close to the setpoint	10(20)-2-01 11(21)-8-01 (Disable floor sensor)	10(20)-5-01/02 (Return air temp is always sent) 10(20)-8-01(*)	1c-1-01 (Return air temp is always displayed)
4	Compensation of temperature around human body (Weighted average between return air temp and floor temp)	11(21)-8-02/03/04 (Floor sensor is prioritized over 10(20)-2 setting)	10(20)-5-02 10(20)-8-01(*)	1c-1-01

*When the remote temperature sensor is used 10(20) - 8 - 02 should be used.

Appendix 2 -FXTQ_TAVJU Electric Heater Field Settings

Mode No. (Note 1)	First Code No.	Description	Second Code No. (Bold cells in gray are factory default settings)			
			01	02	03	04
11 (21)	3	Electric Heater Operation	1: Electric Heater with Heat Pump not allowed	2: Electric Heater with Heat Pump allowed	7: Electric Heater with Heat Pump not allowed	8: Electric Heater with Heat Pump allowed
		Electric Heater run for Defrost/oil return operation	1: Not allowed	2: Not allowed	7: Allowed	8: Allowed

Appendix 3 – Auxiliary Electric Heat ON/OFF Temperature



The auxiliary heater is controlled using an S value and Ton and Toff. The S value varies automatically based on the room temperature trend. The difference between Ton and Toff setting can only be a minimum of 3.6°F. Additional information on aux heat can be found in the Auxiliary Heat Application Guide.

FXFQ_T, FXMQ_PB

Mode No. (Note 1)	First Code No.	Description		01	02	03	04	05	06
11(21)	1	Auxiliary electric heater ON/OFF temperature: Ton/Toff	Ton	-4°C (-7.2°F)	-3.5°C (-6.3°F)	-3°C (-5.4°F)	-2.5°C (-4.5°F)	-2°C (-3.6°F)	-4°C (-7.2°F)
			Toff	-2°C (-3.6°F)	-1.5°C (-2.7°F)	-1°C (-1.8°F)	-0.5°C (-0.9°F)	0°C (0°F)	0.5°C (0.9°F)

FXZQ_TA, FXZQ_TB, FXUQ_P(A), FXEQ_P, FXLQ_M, FXNQ_M, FXTQ_TA

Mode No. (Note 1)	First Code No.	Description	01	02	03	04	05	06
11(21)	1	Auxiliary electric heater ON temp: Ton	-4°C (-7.2°F)	-3.5°C (-6.3°F)	-3°C (-5.4°F)	-2.5°C (-4.5°F)	-2°C (-3.6°F)	-1.5°C (-2.7°F)
	2	Auxiliary electric heater OFF temperature: Toff	-2°C (-3.6°F)	-1.5°C (-2.7°F)	-1°C (-1.8°F)	-0.5°C (-0.9°F)	0°C (0°F)	0.5°C (0.9°F)

CXTQ_TA

Mode No. (Note 1)	First Code No.	Description	01	02	03	04	05	06	07 (Note 1)
11(21)	1	Auxiliary electric heater ON temp: Ton	-4°C (-7.2°F)	-3.5°C (-6.3°F)	-3°C (-5.4°F)	-2.5°C (-4.5°F)	-2°C (-3.6°F)	-1.5°C (-2.7°F)	-100°C (-148°F)
	2	Auxiliary electric heater OFF temperature: Toff	-2°C (-3.6°F)	-1.5°C (-2.7°F)	-1°C (-1.8°F)	-0.5°C (-0.9°F)	0°C (0°F)	0.5°C (0.9°F)	-98°C (-144°F)

Note 1: The second code 07 is used to remove the interlock of the gas furnace with room temperature.

Appendix 4 – External Static Pressure Settings

External static pressure can be adjusted automatically using automatic airflow adjustment (Mode 11:7) or manually using external static pressure settings (Mode 13:6).

FXMQ-PB

Mode No.	First Code No.	Second Code	Contents
13(23)	6	01	0.12 inWC (30 Pa) ^(1,3)
		02	0.20 inWC (50 Pa)
		03	0.24 inWC (60 Pa)
		04	0.28 inWC (70 Pa)
		05	0.32 inWC (80 Pa)
		06	0.36 inWC (90 Pa)
		07	0.40 inWC (100 Pa)
		08	0.44 inWC (110 Pa) ⁽²⁾
		09	0.48 inWC (120 Pa) ⁽²⁾
		10	0.52 inWC (130 Pa) ⁽²⁾
		11	0.56 inWC (140 Pa) ⁽²⁾
		12	0.60 inWC (150 Pa) ^(2,3)
		13	0.64 inWC (160 Pa) ^(2,3)
		14	0.72 inWC (180 Pa) ^(2,3)
		15	0.80 inWC (200 Pa) ^(2,3)

The Second Code No. is set to 02 for FXMQ07/09/12PB, and 07 for FXMQ15/18/24/30/36/48/54PB at factory setting.

Note 1 - FXMQ15/18/24/30/36/48PB cannot be set to 30 Pa (0.12 inWG).

Note 2 - FXMQ07/09/12PB cannot be set to 110-200 Pa (0.44-0.80 inWG).

Note 3 - FXMQ54PB cannot be set to 30 Pa (0.12 inWG) or 150-200 Pa (0.60-0.80 inWG).

FXSQ-TA

Mode No.	First Code No.	Second Code	Contents
13(23)	6	03	0.12 inWC (30 Pa) ^(1,2)
		04	0.16 inWC (40 Pa)
		05	0.20 inWC (50 Pa)
		06	0.24 inWC (60 Pa)
		07	0.28 inWC (70 Pa)
		08	0.32 inWC (80 Pa)
		09	0.36 inWC (90 Pa)
		10	0.40 inWC (100 Pa)
		11	0.44 inWC (110 Pa)
		12	0.48 inWC (120 Pa)
		13	0.52 inWC (130 Pa)
		14	0.56 inWC (140 Pa)
		15	0.60 inWC (150 Pa) ⁽²⁾

The Second Code No. is set to 05 at factory setting.

Note 1 - FXSQ18-48TA cannot be set to 30-40 Pa (0.12-0.16 inWG).

Note 2 - FXSQ54TA cannot be set to 30-40 Pa (0.12-0.16 inWG) or 150 Pa (0.60 inWG).

Appendix 5 – Optional Kit Setting (UV Lamp, Humidifier, Economizer)

Optional kit settings for FXTQ_TA and CXTQ_TA units

Mode No.	First Code No.	Second Code	Contents	
			UV lamp, humidifier fan speed	Economizer for mechanical standby duration (minutes)
14(24)	4	01	User set	10
		02	High	10
		03	User set	20
		04	High	20
		05	User set	30
		06	High	30
		07	User set	40
		08	High	40
		09	User set	50
		10	High	50
		11	User set	60
		12	High	60
		13	User set	Free cooling only
		14	High	Free cooling only

Field Settings – Madoka Remote Controller (BRC1H71W)



Mode No.	First Code No.	Description	Second Code No. (Bold cells in grey are factory default settings)						
			00	01	02	03	04		
1c	1	Thermistor sensor used for Auto-changeover and Setback control	--	Return Air Thermistor–return air temperature displayed on controller as room temperature	Remote Controller Thermistor – remote controller temperature displayed on controller as room temperature	--	--		
1e	1	Allow F/C configuration	--	Not allowed	Allowed	--	--		
	2	Setback availability	--	N/A	Heating mode only	Cooling mode only	Cooling/ Heating modes		
	4	Enable Auto-changeover when multizone controller is detected (Note 1)	--	No	Yes	--	--		
	8	Enable Scale view	--	Disable	Enable	--	--		
	11	Auto changeover guard timer	--	15 min	30 min	60 min	90 min		
	12	Auto changeover primary deadband	--	0.9 °F (0.5 °C)	1.8°F (1.0 °C)	2.7°F (1.5°C)	3.6°F (2.0°C)		
	13	Auto changeover secondary deadband	--	0.9 °F (0.5 °C)	1.8°F (1.0 °C)	2.7°F (1.5°C)	3.6°F (2.0°C)		
R1	3	Temperature Sensor Offset (heating mode)	00: -5.4°F (-3.0°C)	01: -4.5°F (-2.5°C)	02: -3.6°F (-2.0°C)	03: -2.7°F (-1.5°C)	04: -1.8°F (-1.0°C)	05: -0.9°F (-0.5°C)	06: 0.0°F (0.0°C)
	4	Temperature Sensor Offset (cooling mode)							
	5	Temperature Sensor Offset (auto mode)	12: +5.4°F (+3.0°C)	11: +4.5°F (+2.5°C)	10: +3.6°F (+2.0°C)	09: +2.7°F (+1.5°C)	08: +1.8°F (+1.0°C)	07: +0.9°F (+0.5°C)	
	6	Temperature Sensor Offset (fan mode)							
	7	Screen Display Mode	Text mode	Icon mode		--	--	--	
	11	Daikin Eye lighting settings during error	Error blinking	Normal continuously lit		--	--	--	
	12	Enable and disable BLE function	Disabled	Enabled		--	--	--	
R3	0	Setpoint display while the unit is off	Displayed	Not Displayed		--	--	--	
	1	Mode display while the unit is off	Displayed	Display OFF instead of the mode		--	--	--	
	2	Home screen fan speed display	Displayed	Not displayed (always)	Not displayed (only when unit is OFF)		--	--	
	3	Home screen louver direction display	Displayed	Not displayed (always)	Not displayed (only when unit is OFF)		--	--	
	4	Home screen master controlled (MC) icon display	Displayed	Not displayed (always)	Not displayed (only when unit is OFF)		--	--	
	5	Home screen error icon display	Displayed	Not displayed		--	--	--	
	6	Home screen setback icon display	Displayed	Not displayed		--	--	--	
	7	Home screen ventilation/ cleaning icon display	Displayed	Not displayed (always)	Not displayed (only when unit is OFF)		--	--	
	8	Home screen operation mode display	Displayed	Not displayed		--	--	--	

9	Home screen defrost/hot start display	Displayed	Not displayed	--	--	--
10	Home screen room temperature display	Displayed	Not displayed	--	--	--
11	Home screen under centralized control (CC) display	Displayed	Not displayed	--	--	--
13	Main screen wording display	Displayed	Not displayed	--	--	--

- Native remote controller Auto-changeover functions are disabled when a multizone controller is detected and a group address is assigned.

BRC1H71W Field Setting - Factory Default Values

- This table would be referred to confirm the default value when you might have changed the unnecessary field setting accidentally.

Mode No. First Code No.	1c	1e	R1	R3
0	--	02	--	01
1	02	02	--	01
2	02	01	--	02
3	--	02	03	02
4	02	01	03	00
5	01	--	03	00
6	02	--	03	00
7	02	--	00	00
8	01	01	01	00
9	01	--	09	00
10	--	--	05	00
11	--	03	00	00
12	02	01	01	00
13	02	01	--	00
14	01	--	--	--
15	--	--	--	--

12	Auto changeover point	0.9°F (0.5°C)	1.8°F (1.0°C)	2.7°F (1.5°C)	3.6°F (2.0°C)
13	Quick changeover point beyond the auto changeover point	0.9°F (0.5°C)	1.8°F (1.0°C)	2.7°F (1.5°C)	3.6°F (2.0°C)

Note 1: Native remote controller Schedule and Auto-changeover functions are disabled when a multizone controller is detected and a group address is assigned.

Note 2: Starting with NAV controller lot number 919, sensor offsets are settable for each operating mode. The lot number is printed on the PCB. If different default offset values are set for cooling and heating modes, the following issues may occur in auto operation mode:

- The indoor unit may switch more frequently between cooling/heating modes
 - The indoor unit may switch less frequently between cooling/heating modes
 - Setback on/off may happen more frequently
 - Setback on/off may happen less frequently
- To avoid these issues, set the offset values for auto mode.

BRC1E73 Field Setting - Factory Default Values

- Do not change from the factory default value in the cells below highlighted in grey.
- This table would be referred to confirm the default value when you might have changed the unnecessary field setting accidentally.

Mode No. First Code No.	1b	1c	1e
0	02	02	--
1	02	02	02
2	--	02	01
3	--	01	02
4	04	02	01
5	01	01	02
6	01	01	02
7	01	02	02
8	05	01	02
9	01	01	02
10	--	07	02
11	01	07	03
12	01	--	01
13	01	--	01
14	01	--	01
15	01	--	--