

FUJITSU GENERAL AMERICA, INC

353 Route West. Fairfield, NJ 07004

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SERVICE BULLETIN

Number: 0030

Date: 9/25/14

TYPE: Field

PROBLEM

Low Load Cooling / Heating Function Setting

SOLUTION

Updated Firmware – Replacement Indoor Control Boards

MODEL: ASU7RLF1, ASU9RLF1, ASU12RLF1, ASU9RL2, ASU12RL2, ASU9RLS2, ASU12RLS2, ASU18RLF, ASU24RLF, AUU7RLF, AUU9RLF, AUU12RLF, AUU18RLF, ARU7RLF, ARU9RLF, ARU12RLF, ARU18RLF, ARU24RLF, AGU9RLF, AGU12RLF, AGU15RLF

Production Serial Numbers:

Reference Table Below

Objective:

As a result of several case studies it has become apparent that homes with high levels of insulation require a different capacity control algorithm in order to improve occupant comfort, and improve energy efficiency. This firmware update provides the contractor with the ability to select between standard insulation and high insulation level home settings. The above mentioned models can be retrofitted with a replacement board. Should you want the new firmware, reference the serial number list on the attached table, look for your model and serial number to see if your unit already has the firmware update. If your unit is **not** on the list then the firmware is already installed from factory and you can simply set the following function setting as needed. If your unit is on this list you will need to place an order for a replacement board, which will be covered under our standard 5 year parts warranty, and conduct the following settings.

Model	Serial Range	Part Number	Board Identification
ASU7RLF1	MWA00000 - MWA19379	K9709427354	K12JY-1402HSE-C1
ASU9RLF1	MXA00000 - MXA026182	K9709427330	K12JY-1402HSE-C1
ASU12RLF1	MYA000000 - MYA026820	K9709427347	K12JY-1401HSE-C1
ASU9RL2	EYA000000 - EYA007211	K9709170298	K11CN-1403HSE-C1
ASU12RL2	EYA000000 - EYA012671	K9709170304	K11CN-1404HSE-C1
ASU9RLS2	JQA000000 - JQA020146	K9708713410	K10CH-1401HSE-C1
ASU12RLS2	JRA000000 - JRA033554	K9708713427	K10CH-1402HSE-C1
ASU15RLS2	JSA000000 - JSA034491	K9708713434	K10CH-1403HSE-C1
ASU18RLF	KSA000000 - KSA051177	K9708540368	K09DR-1403HSE-C1
ASU24RLF	KTA000000 - KTA033603	K9708540375	K09DR-1404HSE-C1
AUU7RLF	MVA000000 - MVA001421	K9709928011	K06AK-1400HSE-C1
AUU9RLF	KUA000000 - KUA009021	K9709928028	K06AK-1401HSE-C1
AUU12RLF	KVA000000 - KVA007667	K9709928035	K06AK-1402HSE-C1
AUU18RLF	KWA000000 - KWA005975	K9709928042	K06AK-1403HSE-C1
ARU7RLF	MUA000000 - MUA001442	K9709928059	K06AK-1404HSE-C1
ARU9RLF	KYA000000 - KYA005911	K9709928066	K06AK-1405HSE-C1
ARU12RLF	LNA000000 - LNA 007370	K9709928073	K06AK-1406HSE-C1
ARU18RLF	LPA000000 - LPA007561	K9709928080	K06AK-1407HSE-C1
ARU24RLF	LQA000000 - LQA003592	K9709928097	K06AK-1408HSE-C1

(◆... Factory Setting)

Function Number	Setting Value	Setting Description
95	00	Standard insulation ◆
	01	High insulation

Room Temperature Sensor Control:

- Depending on the installed environment, correction of the room temperature sensor may be required.
- Select the appropriate control setting according to the installed environment.
- The temperature correction values show the difference from the standard setting "00" (manufacturer's recommended value).

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Temperature Correction:

- Heat insulation condition (building insulation)
- Standard setting "00" allows system to rapidly respond to the cooling or heating load change when using room temperature sensor only.
- Heat insulation conditions differ according to the installed environment.
- Select "01" (High insulation) if the heat insulation structure of the building is high and does not require system to rapidly respond to cooling or heating load changes.
- When "01" is selected, it prevents overheating (overcooling) at the start-up.
- When "01" is selected, all room temperature sensor and wire remote temp sensor settings will reset to factory setting.
- When "01" is selected, reset system (power off for two minutes then back on) and perform function settings 30, 31, 92, 93 to your desired temp control level and reset power again.
- When "01" is selected, "standard setting "00" and no correction setting "01" are the same 0.0°F (0.0°C) Only when 95-01 is selected are these setting values the same.
- The only function setting that will reset to factory settings when function 95-01 is selected are the temp correction settings 30,31, 92, 93.
- Confirm all function settings but do not re-enter function 95-00 or 95-01 as it will reset your temp correction settings.
- If you re-enter any of these two you must re-do all temp correction settings.

(◆... Factory Setting)

Function Number		Setting Value	Setting Description	
			When select 95-00	When select 95-01
30 (For Cooling)	31 (For Heating)	00	*Standard Setting◆	No Correction 0.0°F(0.0°C)◆
		01	No Correction 0.0°F(0.0°C)	No Correction 0.0°F(0.0°C)
		02	-1°F (-0.5°C)	
		03	-2°F (-1.0°C)	
		04	-3°F (-1.5°C)	
		05	-4°F (-2.0°C)	
		06	-5°F (-2.5°C)	
		07	-6°F (-3.0°C)	
		08	-7°F (-3.5°C)	
		09	-8°F (-4.0°C)	
		10	+1°F (+0.5°C)	
		11	+2°F (+1.0°C)	
		12	+3°F (+1.5°C)	
		13	+4°F (+2.0°C)	
		14	+5°F (+2.5°C)	
		15	+6°F (+3.0°C)	
		16	+7°F (+3.5°C)	
17	+8°F (+4.0°C)			

* The standard setting temperature control changes depending on outside ambient temperature because it considers the outside heat load in relation with outside ambient temperature which may require more cooling or more heating. Compared with function 95-01 correction 0.0°F(0.0°C), the room temperature may possibly be higher in heating operation and lower in cooling operation if room heat load is lower than the capacity that can provide from system.

In case of slim duct type and floor/ceiling type models:

In floor console installations, select "01"

Room Temperature Control for Wired Remote Controller Sensor

- Depending on the installed environment, correction of the wired remote temperature sensor may be required.
- Select the appropriate control setting according to the installed environment.
- Function 42-01 (unlocks thermo sensor) and function 48-01 (switches sensing from indoor unit to wired remote) need to be set for wired remote controller sensor setting. You must ensure that the thermo sensor icon is displayed on the remote screen.

Function Number		Setting Value	Setting Description	
92 (For Cooling)	93 (For Heating)	00	No correction 0.0°F(0.0℃)	◆ (◆... Factory Setting)
		01	No correction 0.0°F(0.0℃)	
		02	-1°F (-0.5℃)	More Cooling / Less Heating
		03	-2°F (-1.0℃)	
		04	-3°F (-1.5℃)	
		05	-4°F (-2.0℃)	
		06	-5°F (-2.5℃)	
		07	-6°F (-3.0℃)	
		08	-7°F (-3.5℃)	
		09	-8°F (-4.0℃)	
		10	+1°F (+0.5℃)	Less Cooling / More Heating
		11	+2°F (+1.0℃)	
		12	+3°F (+1.5℃)	
		13	+4°F (+2.0℃)	
		14	+5°F (+2.5℃)	
		15	+6°F (+3.0℃)	
		16	+7°F (+3.5℃)	
		17	+8°F (+4.0℃)	

◆ ... Factory Setting

More Cooling / Less Heating

Less Cooling / More Heating

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How to Enter Function Settings:



UTY-LNHUM / UTY-LRHUM

Entering the Function Setting Mode:

Press the Fan (Control) button, Set Temp.(Λ) and the Reset button simultaneously then release the Reset button to enter the function setting mode.

Selecting the Function Number and Setting Value

1. Press the Mode button first then press the Set Temp. (Λ)(V) buttons to select the function number. (Press the Mode button to switch between the left and right digits.)
2. Press the Fan button to proceed to setting the value. (Press the Fan button again to return to the function number selection.)
3. Press the Set Temp.(Λ)(V) buttons to select the setting. (Press the Mode button to switch between the left and right digits.)
4. Press the Timer Mode button and Start/Stop button, in the order listed to confirm the settings.
5. Press the Reset button to cancel the function setting mode.
6. After completing the Function Setting, be sure to turn off power to the outdoor disconnect for a minimum of one minute and turn it on again.



AR-REC1U / AR-RED1U / AR-REG1U

Entering the Function Setting Mode:

Press the Powerful button, Set Temp.(Λ) and Reset button simultaneously then release the Reset button to enter the function setting mode.

Selecting the Function Number and Setting Value

1. Press the Set Temp.(Λ)(V) buttons to select the function number. (Press the Min. Heat button to switch between the left and right digits.)
2. Press the Powerful button to proceed to setting the value. (Press the Powerful button again to return to the function number selection.)
3. Press the Set Temp.(Λ)(V) buttons to select the setting. (Press the Min. Heat button to switch between the left and right digits.)
4. Press the Mode button and then the Start/Stop button, in the order listed to confirm the settings.
5. Press the Reset button to cancel the function setting mode.
6. After completing the Function Setting, be sure to turn off power to the outdoor disconnect for a minimum of one minute and turn it on again.



UTY-RVNUM

Entering the Function Setting Mode:

1. Make sure the indoor unit is powered down and not running otherwise you will be restricted from entering the Function Settings menu.
2. From the monitor screen, press the Menu button twice.
3. Once at the submenu, press and hold the Screen Left and Screen Right buttons for 5 seconds.
4. Select the Function Setting option from the list. From there you will be in the Function Settings Menu and free to select function number and setting values.
5. After completing the Function Setting, be sure to turn off power to the outdoor disconnect for a minimum of one minute and turn it on again.



UTY-RNBYU / UTY-RNNUM

Entering the Function Setting Mode:

1. Press the Set Temp.(Λ)(V) buttons and Fan button simultaneously for more than 5 seconds to enter the function setting mode.
2. Press the Set Back button to select the indoor unit number.
3. Press the Set Time buttons to select the function number.
4. Press the Set Temp. buttons (Λ)(V) to select the setting value. The display flashes as shown to the right during setting value selection.
5. Press the Timer Set button to confirm the setting. Press the Set button for a few seconds until the setting value stops flashing. If the setting value display changes or if "--" is displayed when the flashing stops, the setting value has not been set correctly. (An invalid setting value may have been selected for the indoor unit.)
6. Repeat steps 2 to 5 to perform additional settings. Press the Set Temp. buttons (Λ)(V) and Fan button simultaneously again for more than 5 seconds to cancel the function setting mode. In addition, the function setting mode will be automatically canceled after 1 minute if no operation is performed.
7. After completing the Function Setting, be sure to turn off power to the outdoor disconnect for a minimum of one minute and turn it on again.



UTY-RSNUM

Entering the Function Setting Mode:

1. Press both the Temp. Up and Down buttons (Λ)(V) and FAN together for more than 5 seconds simultaneously. Then, shift to Function Setting Mode.

2. Press the Temp. Up or Temp. Down button (Λ)(V) and select the indoor unit number. Then, press the Fan button.

Function Number & Setting Number Setting

3. "Function Number" display blinks. Then, display Number by pressing the Temp. Up or Temp. Down button.
4. When the "Setting Number" blinks, press the Fan button to set the Setting number by pressing the Temp. Up or Temp. Down button (Λ)(V).
5. Fix the setting by pressing the power button. (Data is transferred to the indoor unit).
6. After completing the Function Setting, be sure to turn off power to the outdoor disconnect for a minimum of one minute and turn it on again.

Disclaimer:

In order to perform some of these tests an electrical and/or refrigerant license is required. We strongly advise to check the Service manual for more detailed explanation. If you are not sure about these recommendations please contact us at 866-952-8324.