

APPLICATION Notes

Application Note: 3048

How to turn off the indoor unit fan when set point is met

Table of Contents

- 1) <u>MHK1</u>
- 2) <u>MHK2</u>
- 3) <u>Simple MA</u>
- <u>Deluxe MA</u>
 Touch MA
- 6) kumo cloud[®]
- 7) Thermostat Interface
- 8) Indoor Unit Jumpers
- 9) Indoor Unit Dipswitches

Introduction

The purpose of this Application Note is to illustrate the steps required to have the indoor unit fan turn off when set point has been met. The methods for achieving this include: configuring the Function Settings through the local controller, cutting jumpers on the indoor unit control board, and configuring dipswitches on the indoor unit control board.

Locate your model in the chart below to determine the correct method for your system.

Method 1 Function Settings Can be configured on the following models:	Method 2 Jumpers Can be cut on the following models:	
 SEZ MVZ PLA SLZ PCA PEAD SVZ PKA PVA 	 MFZ MLZ MSZ 	
Method 3DipswitchesCan be configured on all City-Multi models excluding the following:• PEFY-NLMU• PWFY-AU• PEFY-NHMU• PWFY-BU	Method 4Thermostat InterfaceCan be configured on all compatibleCity-Multi and M- & P-Series models.• M-Series Compatibility Chart• P-Series Compatibility Chart• City-Multi Compatibility Chart	

COOLING & HEATING



MHK1

Instructions

Use the pictures to complete the steps listed below.

- Press and hold F + simultaneously until the display changes
 - "Wait" will be displayed for up to 40 seconds
- 2) Press ^B or ^N until you reach function setting **125** (Heat) or **127** (Cool)
- 3) Press or v to choose the desired fan speed setting

Press **D** when you're ready to save and exit

Function Settings

FS 125 - Heating

- 1) Extra Low (default)
- 2) Stop
- 3) The current controller setting

FS 127 - Cooling

- 1) The current controller setting (default)
 - Auto fan reverts to Low speed
- 2) Stop
- 3) Extra Low
 - · Only available on SLZ & PLA models





PIN #

MHK2

Instructions

Use the pictures to complete the steps listed below.

- 1) Press and hold <u>Menu</u> until the display changes, and then enter the **PIN** number
 - Obtain the PIN by adding **1234** to the four digit number on the back of the MHK2 (see below)
- 2) Select "Function Codes"
- 3) Press (or) until you reach
 25 (Heat) or 27 (Cool) and press Edit
- 4) Press \bigcirc or \bigcirc to select the desired fan speed
 - Press Done then Or to configure additional function settings if desired

Press **Done** again when you're ready to save and exit

Function Settings

IUFC 25 – Heating fan speed

- 1) Extra Low (default)
- 2) Stop
- 3) The current controller setting

IUFC 27 - Cooling fan speed

- The current controller setting (default)
 Auto fan reverts to Low speed
- 2) Stop
- 3) Extra Low
 - Only available on SLZ & PLA models

	6:49 _M ©
	- Cool +
	Vane Mode Menu Fan
	UNETION CODE
	Back Select
3	
	Back
4	IUFC 25
	Danal

Simple MA

Instructions

Use the pictures to complete the steps listed below.

TSUBISH

COOLING & HEATING

- 1) Press **On/Off** to turn the controller **off**
- Press and hold + + Fan simultaneously until the display changes
- 3) Press once and then press Fan
 The screen should display "00"
- 4) Press **I** until you see **"AL"** and then press **On/Off**
- 5) Press and until you reach 25 (Heat) or 27 (Cool) and then press Fan
- 6) Press or to select the desired fan speed and then press **On/Off** to save the settings
 - Press **Fan** and repeat **Step 4)** to configure additional function settings if desired

Press and hold **A** + **F** + **F** an to exit the settings

Function Settings

IUFC 25 - Heating fan speed

- 1) Extra Low (default)
- 2) Stop
- 3) The current controller setting

IUFC 27 - Cooling fan speed

- 1) The current controller setting (default)
 - Auto fan reverts to Low speed
- 2) Stop
- 3) Extra Low
 - Only available on SLZ & PLA models



COOLING & HEATING

Deluxe MA

Instructions

Use the pictures to complete the steps listed below.

Begin by turning the controller **OFF** and opening the main menu by selecting the \checkmark icon.

- 1) Scroll down and select Service
- 2) Enter the password 9999 and press Select
- 3) Select Function Setting
- 4) Leave "Ref. Address" at 0, scroll down to "Unit No.", then scroll to the right and select All
- 5) Scroll down to **Mode 25** (Heat) or **Mode 27** (Cool) and select **2** for thermal off in either mode

Press (\mathfrak{I}) when you're ready to save & exit.

Function Settings

Mode 25 - Heating

- 1) Extra Low (default)
- 2) Stop
- 3) The current controller setting

Mode 27 - Cooling

- 1) The current controller setting (default)
 - Auto fan reverts to Low speed
- 2) Stop
- 3) Extra Low
 - Only available on SLZ & PLA models



1) Scroll to the right and select **Service**

Touch MA

Instructions

2) Enter the password **9999** and press Select

Use the pictures to complete the steps below.

main menu by selecting the \mathbf{x} icon

3) Select Settings, then select Function settings

Begin by turning the controller OFF and opening the

TSUBISHI

COOLING & HEATING

- 4) Leave "Ref. Address" at 0, scroll down to "Unit No.", then scroll to the right and select All
- 5) Scroll down to **Mode 25** (Heat) or **Mode 27** (Cool) and select **2** for thermal off in either mode

Press (\mathfrak{I}) when you're ready to save & exit.

Function Settings

Mode 25 – Heating

- 1) Extra Low (default)
- 2) Stop
- 3) The current controller setting

Mode 27 – Cooling

- 1) The current controller setting (default)
 - Auto fan reverts to Low speed
- 2) Stop
- 3) Extra Low
 - Only available on SLZ & PLA models



kumo cloud®

Instructions

Use the pictures to complete the steps listed below.

- 1) Tap Settings
- 2) Tap System Setup
- 3) Tap Installer Settings
- 4) Enter PIN 9999
- 5) Tap Installer Login
- 6) Tap the name of the Site and then tap the name of the Zone
- 7) Tap Advanced
- 8) Tap **Thermal Off Fan** and choose one of the fan speeds shown below

Tap Back when you're ready to save & exit

Cack
Thermal Off

I S-Living Room

Set the fan operation for Thermal Off

Set the fan operation for Thermal Off

Partia Low in Heat

Stop in Heat

Stop in Cool and Heat

Selectable in Cool and Heat

Ext Lo in Heat, Stop in Cool

1	til 🗢 8:03 AM • 📼	.ul ♥ 8:03 AM ♥ ■ ✓ Setup Installer More
	My Account >	← Connect New Site >
	Filters: Dirty in 2 zones	ReliableAir Office: 2 zones >
	Help: 2 errors	Jones' House: 2 zones
2	System Setup	
	Legal >	
	Home Program	Home Program Settings
	الد. 🗢 8:03 AM کا	-111 🗢 8:03 AM • 📼
3	<settings setup<="" td=""><td>Site Unit</td></settings>	Site Unit
Ī	Units: Fahrenheit Edit	Living Room
	Lock to single zone >	Signal: Strong 🔶 >
it	WiFi: Problem >	Auto Mode: No >
	Transfer Ownership >	Changeover Group: Upstairs >
		Display Offset: 0° >
	Installer Settings	ADVANCED>
		DELETE UNIT > Firmware: 0.00.0
	Home Program Settings	Home Drogram Settings
	11 🗢 8:03 AM © 	-111 🗢 8:03 AM • 📼
4	Kenter Back Installer	9 < Unit Advanced
	Please input installer pin to continue to advanced settings.	Living Room
	Installer Login	Min Cool Setpoint: 60°
	<mark>≥.9999</mark>	Max Heat Setpoint: 88°
	INSTALLER LOGIN	Thermal Off Fan: Very low >
	GET HELP >	Static Pressure: 0.2 inches
		System Type: Cool and Heat >
		Dehumidify/Dry: No
	Home Program Settings	Home Č Program Settings

rsubishi

COOLING & HEATING

Specifications are subject to change without notice.



Thermostat Interface

Overview

By default, the Thermostat Interface will turn the indoor unit fan off five minutes after meeting set point. This automatic delay can be adjusted to 0, (5), 10, or 30 minutes, by configuring the dipswitches on SW1 to match the positions in the diagram and chart below.

<u>Click here</u> for more information on the Thermostat Interface.



Delayed Off

SW1-1/2: After reaching thermostat set point, the unit will continue to run for a set period of time in order to improve efficiency. The period of time is set by adjusting SW1-1 and SW1-2 according to the following table:

SW1-1	SW1-2	Result
OFF	OFF	5 minutes (Default)
ON	OFF	10 minutes
OFF	ON	30 minutes
ON	ON	0 minutes



Indoor Unit – Jumpers

Notes

- 1) Since the return air sensor relies upon airflow to accurately sense the room temperature, it is recommended to install either a remote controller, or a remote temperature sensor when cutting any of these jumpers.
 - If using a remote controller, configure the settings so that the unit senses temperature at the remote controller itself.
 - The MHK1 and MHK2 controllers sense temperature at the controller by default.
- 2) Only cut one side of the jumper, as it allows for the jumper to be re-soldered later on.

Instructions

The following jumpers must be cut in order to stop the fan when set point has been met:

JR01 (**JRTU** for MSZ-FH models) *Heating* - if this jumper is left in place, then the fan speed will revert to *Very Low*

JRRE

Cooling - if this jumper is left in place, then the fan speed will revert to the remote controller's current setting of Auto, Low, Medium, or High

Note: The diagram to the right is for MSZ-GL models, but if you'd like to locate the diagram for your model, then you can reference the Test Point & Diagrams section in your indoor unit's Service Manual at <u>MyLinkDrive.com</u>.





Indoor Unit – Dipswitches

Instructions

- 1. Power down the indoor unit
- 2. Turn on the following dipswitches:
 - SW1-7
 - SW1-8
 - SW3-1
- 3. Power the indoor unit back on when finished





Reference the chart below to configure other fan speed settings if desired.

		C/1/1 0	Fan S	Fan Speed	
3003-1	3001-7	3001-0	Heating	Cooling	
OFF	OFF	OFF	Very Low		
OFF	ON	OFF	Low	Remote Controller Setting	
OFF	OFF	ON	Remote Controller Setting		
ON	ON	ON	Stop		