

Application Note: 3059

Indoor Unit Setpoint Ranges

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Introduction

The purpose of this application note is to clarify the set point limitations for all City Multi and M- & P- Series indoor units, and to elaborate on the special functions that can bypass them. Note that these limitations cannot be bypassed through any means other than those described in this application note, and that any attempt to do so will void the unit's warranty.

Indoor Unit Set Point Table

The following table lists the minimum and maximum set point limits for all M- & P- Series, S-Series, Y-Series, and R2-Series indoor units.

Indoor Unit Model			Cooling Set Points	Heating Set Points	Notes and Special Functions
MFZ	MLZ	MSZ	50° ~ 87°	50° ~ 87°	See Page 3 for details on the 50°F heating setpoint
SEZ	SLZ	SVZ	67° ~ 87°	63° ~ 83°	There are no exceptions for these models, and there is no way to bypass any built-in limitations.
PCA	SLZ	PCA			
PKA	PLA	PVA			
PEAD	PCFY	PKFY			
PLFY	PMFY				
PEFY	PFFY	PVfy	67° ~ 87°	63° ~ 83°	See Page 4 for details on the 57°F cooling setpoint

50°F Heating Setpoint

Lowering the Minimum Heating Setpoint to 50°F

Overview

A 50°F heating setpoint can be achieved on ductless M-Series models using the standard handheld controller, an MHK2 controller, an SDW controller and the Comfort app.

Instructions

Handheld Controller

To achieve a 50°F setpoint with the handheld controller, set the unit to Heat mode and press the  button. The setpoint will change and a  icon will appear in the top-right corner of the screen. Once the icon appears, lower the setpoint to 50°F then confirm that it's working properly. Press the  button again at any time to deactivate this function.

MHK2, SDW, Comfort app

A 50°F setpoint can be achieved with any of these controls by simply placing the unit in Heat mode and lowering the setpoint. You do not need to activate Smart Set or any other special functions as this capability is ready to use out of the box.

Compatibility

The 50°F setpoint can only be achieved on the following models:

- MSZ-FX
- MSZ-GX
- MSZ-EX
- MFZ-KX
- MLZ-KX

Handheld Controller Notes

- Only the Fan, Vane, and Louver settings can be adjusted while Smart Set is active.
 - Any changes made to these settings while Smart Set is active will be saved to the Smart Set function and will automatically appear whenever Smart Set is reactivated.
 - If Smart Set is deactivated, then the indoor unit will revert to its previous settings.
- The setpoint cannot be set to any temperature between 50°F and 61°F (e.g., 51, 52, 53...)
- Changing the Mode, activating the Powerful function, and setting a Weekly Timer will deactivate Smart Set and force the unit back into normal operation.
- In the event of a power failure, the indoor unit will automatically revert to Smart Set operation once power is restored.

Dipswitch Function

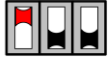
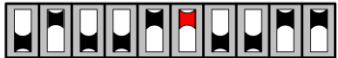
Lowering the Minimum Cooling Setpoint to 57°F

Overview

The Dipswitch Function allows users to lower the setpoint from 67°F to 57°F in Cool mode. To activate this function, locate your indoor unit model in the table below and turn on the corresponding dipswitch. *This function is only available on R410A models, not R32 or R454B.*

Important Notes

- The setpoint can be set to any temperature between 57°F and 67°F (e.g., 58, 59, 60...)
- The indoor fan will be locked into high speed during cooling operation. There is no way to override or bypass this limitation while the function is active.
- Be sure to reconfigure the switch settings whenever replacing an Address or Control board.
- The dipswitch settings in black () illustrate the default configurations for each indoor unit model type. The only exception is the PEFY-NMAU(-E) model, which requires that dipswitches SW4-1 and SW4-2 be turned OFF.
- This function is not available on PEFY-NMAU-E4 models.

Indoor Unit Model	Location	Dipswitch Setting	Diagram
PEFY-NMAU (-E) (-E2) (-E3)	Control board	SW4-6 = ON	1 2 3 4 5 6 7 8 9 0 SW4 
PEFY-NHMU (-E) (-E2)	Address board	SW7-1 = ON	1 2 3 SW7 
PEFY-NMSU (-E) (-ER2)	Address board	SWB-3 = ON	2 3 4 SWB 
PEFY-NMHSU	Control board	SW4-6 = ON	1 2 3 4 5 6 7 8 9 0 SW4 
PFFY (-NEMU) (-NRMU)	Address board	SW7-1 = ON	1 2 3 SW7 
PVFY (-E00A) (-E00B)	Control board	SW7-1 = ON	1 2 3 SW7 
PVFY-NAMU (-E) (-E1)	Control board	SW4-6 = ON	1 2 3 4 5 6 7 8 9 0 SW4 