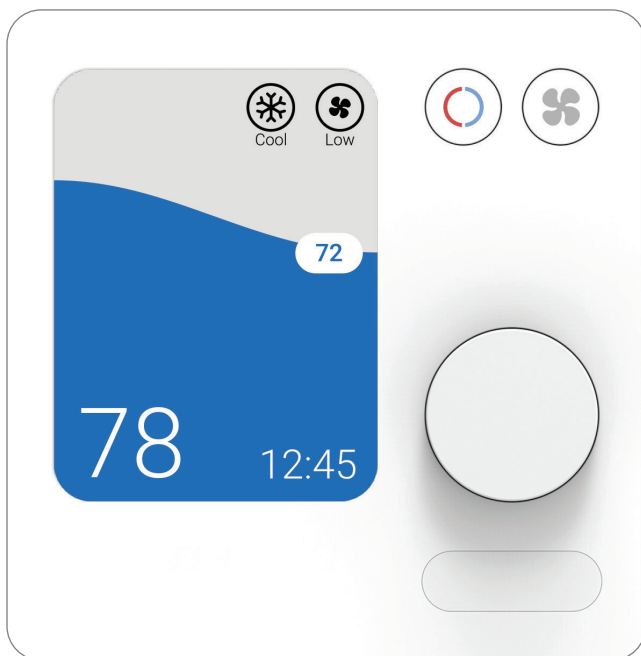


PAC-SDW01RC-1 SIMPLE DUCTLESS WIRED REMOTE CONTROLLER

INSTALLATION MANUAL

SDW01 Kit Includes:

- x1 Controller
- x1 Wall Plate
- x1 Adapter



DISCONNECT POWER

BEFORE BEGINNING INSTALLATION

Can cause electrical shock or equipment damage.



MUST INSTALLED BY A TRAINED, EXPERIENCED TECHNICIAN

Read these instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition.

Need Help? Get in Touch.

Web: www.MitsubishiComfort.com

Phone: 1-800-433-4822

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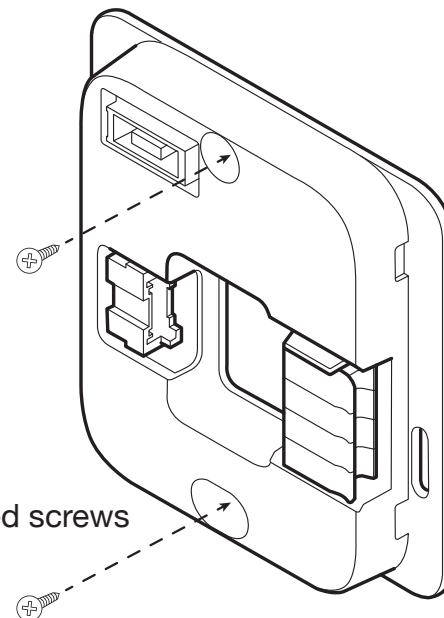
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Read Before Installing

Mounting the Wall Plate

- 1) Open package to find the wall plate.
- 2) Position the wall plate in the desired location on the wall, then level and mark the hole positions.
- 3) Use the mounting hardware provided in the packaging to install the drywall anchors to the wall.
- 4) Mount the wall plate to the drywall anchors using the provided 2x M3.5x19mm screws.

i **Note:** Do not over tighten the screws. Tighten only until the wall plate no longer moves.



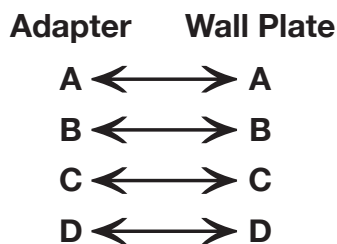
Connecting the Wires

Make sure power is off to the indoor unit before performing any of the following steps.

- 1a) Connect the adapter cable to the CN105 connector on the indoor unit control board.
- b) Mount the adapter to a stable location near the indoor unit, or if possible, inside the indoor unit.

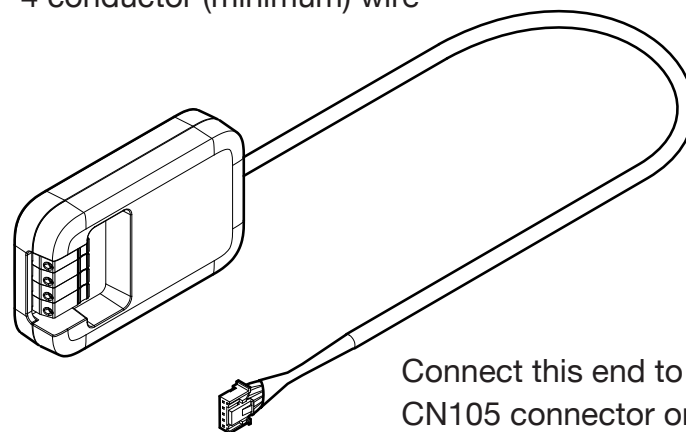
i **Note:** Length of wire NOT to exceed 17m (55 ft) to ensure signal integrity

- 2) Run 18AWG, 4 conductor (minimum) wire from the adapter to the wall plate, and connect the A/B/C/D wires as shown below.



i **Note:** If the outdoor unit is a multi-zone model with a branch box (i.e., MXZ), all address and dipswitch settings must be configured before connecting the SDW01 to the indoor unit.

Connect this end to SDW01 wall plate via 18AWG, 4 conductor (minimum) wire



i **Note:** Do not connect to a Wireless Interface 2. The SDW01 is not compatible with kumo cloud®

Initial Installer Setup

Once the SDW01 controller has established communication with the indoor unit, the initial settings for the indoor unit and SDW01 controller can be configured as described below.

- 1) Press the dial to open the general menu at the top of the screen, then scroll to the right and select “settings” by pressing the dial again.
- 2) Scroll down and select “Installer”.
- 3) To configure the indoor unit settings, select “Function Codes”. The controller will populate a list based on the available Function Codes from the indoor unit.
- 4) Select the Function Code (1-28) you wish to configure, then select the desired value (1-3) to make the change.
- 5) To configure the controller settings, select “ISU”. (Installer Setup Options)
- 6) Select the ISU you wish to configure, then select the desired setting to make the change.

Installer Menu Options

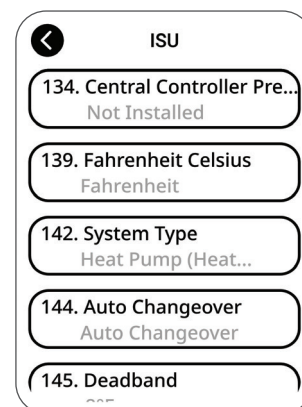
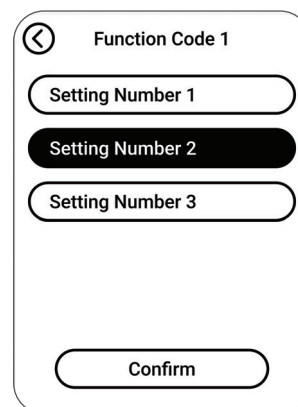
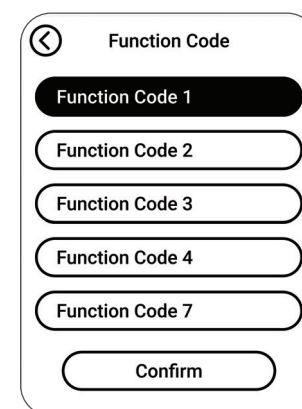
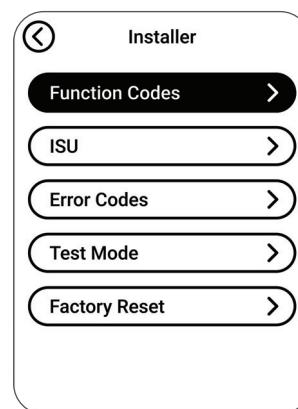
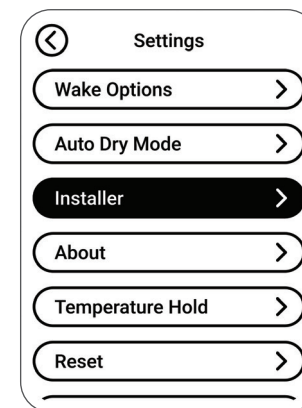
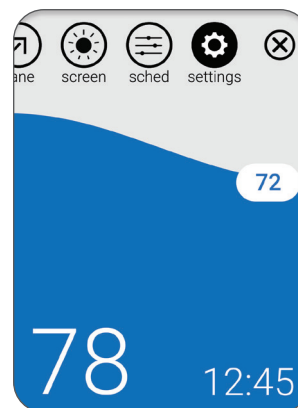
Function Codes: This is used to access the indoor unit’s built-in initial settings. Changes made to these settings will remain active indefinitely, even if the SDW01 is disconnected and replaced with another controller.

ISU: This is used to access the controller’s initial settings. Changes made to these settings will only remain active while the controller is connected. If the SDW01 is disconnected and replaced with another controller, all settings will revert to their default state.

Error Codes: This is used to access the Error Code history reported by the indoor unit.

Factory Reset: This will reset the controller to its factory state.

Test Mode: This will run the unit in cooling or heating to test system performance.



Note: To see a list of all configurable indoor unit settings, go to the Function Code tables on pages 8-9.



Note: To see a list of all configurable controller settings, go to “Installer Setup Options (ISU) – Advanced Menu” on pages 10-11.

M- & P-Series Indoor Unit



Note: Default settings for Function Codes 1-28 are automatically determined by the HVAC equipment. It may take up to 40 seconds to enter setup and 30 seconds to exit setup.

Mode#	Indoor Unit Compatibility	Function
1	All	Power Failure Auto Recovery
2	All	Indoor Temperature Detection
3	All	Lossnay Connectivity
4	All	Power Supply Voltage
5	PEAD	Auto Mode
7	All	Filter Sign
8 *D	SLZ/PLA PCA/PKA	Air Flow (Fan Speed)
8 *D	SEZ/SVZ/PEAD/PVA	Static Settings
9	PLA	Number of Air Outlets
10 *D	PLA PCA	High Performance Filter Also Static Settings
10 *D	SEZ/SVZ/PEAD/PVA	Static Settings
11 *D	PLA	Horizontal Vane Setting
11 *D	SLZ/PCA	Horizontal Vane Setting
11 *D	SVZ/PEAD/PVA	Heater Control (Used with Mode 23)
12	SLZ-KF/ PLA-A__EA7	3-D i-See Sensor Positioning *12-1 *12-2
13	SVZ/PVA	Optional Humidifier
14	PLA PCA/PKA	Vane Differential Setting in Heating Mode (Cold Wind Prevention)
15	SLZ/PLA SEZ/SVZ/PEAD PCA/PKA	Frost Prevention Temp

Notes:

*D Duplicate code with multiple settings for different indoor unit types.

*1-1 When the power supply returns, the air conditioner will start 3 minutes or 1 minute later (hinge on outdoor unit).

Function Codes

Please refer to the indoor unit manual for unit specific function codes and the description of their values. A summary is shown in the following tables.

Setting #	Settings
1	Not Available (OFF)
2 *1-1	Available (ON) approximately 4 minute delay
1	Average data from all unit
2	Return air
3	Remote controller
1	Not Supported
2	IDU does not intake OA through Lossnay
3	IDU does intake OA through Lossnay
1	230 volt
2	208 volt
1	Energy saving cycle automatically enabled
2	Energy saving cycle automatically disabled
1	100 hours
2	2500 hours
3	No filter sign indicator
1	Quiet
2	Standard
3	High Ceiling
See "Static Pressure Settings" on page 12	
1	4 directions or all 4
2	3 directions or just 3
3	2 directions or just 2
1	Not supported
2	Supported
See "Static Pressure Settings" on page 12	
1	Downward setting (vaner angle setup 3)
2	Middle setting (vaner angle setup 1)
3	Draft less setting (vaner angle setup 2) *11
1	No setting
2	Draft less setting (vaner angle setup 1)
3	Downward setting (vaner angle setup 2)
1	No backup heater present
2	Backup heater available
1	Position 1
2	Position 2
3	Position 3
1	Disable humidifier output (See mode #16)
2	Enable humidifier output (See mode #16)
1	75-82 °F TH5
2	82-90 °F TH5
3	90-100 °F TH5
1	(2 °C) 36 °F
2	(3 °C) 37 °F

*11 Because condensation may form, do not use this setting in a high-temperature, high-humidity environment.

*12-1 Cassette must have 3D i-See Sensor installed to operate, refer to install manual.

*12-2 When the 3D i-See Sensor corner panel position is changed, change this mode.

M- & P-Series Indoor Unit

Mode#	Indoor Unit Compatibility	Function
16	SVZ/PVA	Humidifier Control
17	PLA PCA/PKA	Change of Defrosting Control
23 *D	PLA-BA	Vane Swing
23 *D	PCA/PKA	Vane Swing
23 *D	SLZ SEZ	Backup heater Control *23-1
23 *D	SVZ/PEAD/PVA	Backup heater Control *23-1
24	SLZ/PLA SEZ/SVZ/PEAD PCA/PKA *24-1	Heating Height Offset 4
25	SLZ/PLA SEZ/SVZ/PEAD/PVA PCA/PKA	Fan Speed Thermo-Off Heating
26 *D	SLZ-KF/PLA-A__EA7	3D i-See Sensor Height Offset Setting *12-1 *12-2
26 *D	SVZ	Erv Control
27	SLZ/PLA SEZ/SVZ/PEAD PCA/PKA	Fan Speed Thermo-Off Cooling
28	SLZ/PLA SEZ/SVZ/PEAD PCA/PKA	Detection of Abnormal of the Pipe Temperature (P8)

Notes:

*23-1 For the detail of heater control, refer to the indoor unit service manual

*23-2 Backup heater will only operate during a communication error between indoor unit and outdoor unit

*24-1 PKA-HA(L)/KA(L): 3.6°F (2°C) up

*27-1 Only SLZ and PLA are able to set this setting

Function Codes

Setting #	Settings
1	With compressor only
2	In Heat mode all the time
1	Standard
2	High Humidity
1	Swing
2	Wave air flow
1	Not available (OFF)
2	Available (ON)
1	Enable heater when set temp is 4.5 °F less than room temp
2	Enable heater when set temp is 1.8 °F less than room temp
1	Disable heater during Defrost/Error
2	Enable heater during defrost and error *23-2
1	Available (ON) 4 °C (7.2 °F) up
2	Not available (OFF)
1	Extra Low
2	Stop
3	RC setting
1	Low (less than 8.9 feet)
2	Standard (8.9 to 11.5)
3	High (11.5 to 14.8)
1	IDU STOP, fan speed STOP, and CN2C is OFF
2	IDU STOP, fan speed is RC Setting, and CN2C is ON
1	RC setting
2	Stop
3	Extra Low *27-1
1	Available (ON)
2	Not Available (OFF)

Installer Setup Options (ISU) –

ISU#	ISU Name	ISU Options
134	Central Controller Present	<ul style="list-style-type: none"> • Not installed • Installed
139	Fahrenheit Celsius	<ul style="list-style-type: none"> • Fahrenheit • Celsius
142	System Type	<ul style="list-style-type: none"> • Heat pump (Heat & Cool) • Cool only
144	Auto Changeover	<ul style="list-style-type: none"> • Manual Changeover (MANUAL) • Auto Changeover (ACO)
145	Deadband	<ul style="list-style-type: none"> • 3 to 8 °F (in 1 °F increments) • 2.0 to 4.5 °C (in .5 °C increments)
146	Dry Mode	<ul style="list-style-type: none"> • Disabled • Enabled
151	Schedule	<ul style="list-style-type: none"> • Disabled • Enabled
153	Residential/ Commercial Schedule	<ul style="list-style-type: none"> • Residential • Commercial
161	Lockout System On	<ul style="list-style-type: none"> • Disabled • Enabled
162	Lockout System Off	<ul style="list-style-type: none"> • Disabled • Enabled
163	Lockout Mode	<ul style="list-style-type: none"> • Disabled • Enabled



Note: Default ISU Options are highlighted in **bold**

Advanced Menu

Notes
<p>Set to Installed when connecting the system to any of the following central controllers: AE-200, AE-50, EW-50. When set to Installed, dual setpoints will not be available in Auto mode, and all scheduling will be disabled.</p>
<p>The control determines the correct setting based on the equipment the receiver is plugged into.</p>
<p>If ACO is selected, system mode options will be Heat, Off, Cool, and Auto. If MANUAL is selected, AUTO mode is disabled during operation and not selectable by the user. This ISU setting is not shown when ISU 134 is set to INSTALLED or ISU 142 is set to COOL ONLY. MANUAL and ACO settings are shown if ISU 134 is set to NOT INSTALLED.</p>
<p>his ISU is shown if Auto Changeover (ACO) is selected.</p>
<p>This ISU is shown if dry mode is supported by the indoor unit.</p>
<p>When set for Residential, the schedule periods are Comfort, Away, and Sleep. When set for Commercial, the schedule options are Morning, Midday, Evening, and Night.</p>
<p>If enabled, the controller will show a lock symbol next to all modes (except Off). If the user attempts to adjust the mode from off to on, they will be unable to. This will keep the Remote controller from turning on the equipment. The equipment will need to be remotely turned on.</p>
<p>If enabled, the controller will show a lock symbol for the Off mode and not allow the user to adjust the mode from on to off.</p>
<p>If enabled, the controller will show a lock symbol for all modes other than the current mode and not allow the user to adjust the mode from the current mode to any other mode, except for Off. The user will still be able to turn the unit on and off only.</p>

Installer Setup Options (ISU) –

ISU#	ISU Name	ISU Options
164	Lockout Fan Speed	<ul style="list-style-type: none"> • Disabled • Enabled
165	Lockout Setpoint	<ul style="list-style-type: none"> • Disabled • Enabled
167	Lockout Vane Direction	<ul style="list-style-type: none"> • Disabled • Enabled
170	Hide Indoor Temperature	<ul style="list-style-type: none"> • Disabled • Enabled
171	Hide Indoor Humidity Display	<ul style="list-style-type: none"> • Disabled • Enabled
180	Max Heat Setpoint	40 to 90 °F (4.5 to 32.5 °C)
181	Min Cool Setpoint	50 to 99 °F (10 to 37 °C)
190	Indoor Temperature Source	<ul style="list-style-type: none"> • SDW01 • Indoor unit
191	Indoor Temperature Display Offset	-5 °F to 5 °F (-2.5 °C to 2.5 °C)
196	Indoor Humidity Display Offset	-10% RH to 10% RH
197	Auto Dry Enable	<ul style="list-style-type: none"> • Disabled • Enabled
198	Humidity Threshold	35% RH to 75% RH
199	Dry Mode Offset	2.0 °F to 9.0 °F (1 °C to 5 °C)
200	Overcool	2.0 °F to 4.0 °F (1 °C to 2 °C)



Note: Default ISU Options are highlighted in **bold**

Advanced Menu

Notes
If enabled, the controller will show a lock symbol for the fan menu, and if the user attempts to modify the fan setting, they will be unable to.
If enabled, the controller will show a lock symbol next to the setpoint. If the user attempts to modify the setpoint, they will be unable to.
If enabled, the controller will show a lock symbol for the vane menu, and if the user attempts to modify the vane direction, they will be unable to.
If enabled, indoor temperature is not shown in the display.
If enabled, indoor humidity is not shown in the display.
The Max Heat Setpoint can be adjusted to any whole number between 40 and 90 °F, as well as half increments between 4.5 and 32.5 °C. The maximum allowable setpoint depends on the model of the indoor unit that the SDW is connected to. The maximum setpoint for each model can be found in the indoor unit Operation or Service manual.
The Min Cool Setpoint can be adjusted to any whole number between 50 and 99 °F, as well as half increments between 10 and 37 °C. The minimum allowable setpoint depends on the model of the indoor unit that the SDW is connected to. The minimum setpoint for each model can be found in the indoor unit Operation or Service manual.
SDW01: The SDW01 built-in thermistor (default). Indoor unit: The indoor unit return air sensor.
The Indoor Temperature Display Offset can be adjusted to any whole number between -5 and 5 °F, as well as half increments between -2.5 and 2.5 °C. 0 is the default.
The Indoor Humidity Display Offset can be adjusted to any whole number between -10 and 10 RH. 0 is the default.
If enabled, the Auto Dry feature will run automatically based on the set parameters.
The relative humidity value that will trigger the Auto Dry Feature
The room temperature offset above the cooling set point that causes Auto Dry to switch from Dry mode to Cool mode
The room temperature offset below the cooling set point that causes Auto Dry to switch from Dry mode to Cool mode

Static Pressure Settings

SEZ

External Static Pressure	Function Code No.	
	Wired or Wireless Remote Controller	
	Mode No. 8	Mode No. 10
0.02 in. WG (5 Pa)	1	2
0.06 in. WG (15 Pa)	1	1
0.14 in. WG (35 Pa)	2	1
0.20 in. WG (50 Pa)	3	1

SVZ - Vertical, Horizontal Left & Right

External Static Pressure	Function Code No.	
	Wired or Wireless Remote Controller	
	Mode No. 8	Mode No. 10
0.3 in. WG (75 Pa)	1	1
0.5 in. WG (125 Pa)	2	1
0.8 in. WG (200 Pa)	3	1

SVZ - Downflow

External Static Pressure	Function Code No.	
	Wired or Wireless Remote Controller	
	Mode No. 8	Mode No. 10
0.3 in. WG (75 Pa)	1	2
0.5 in. WG (125 Pa)	2	2
0.6 in. WG (200 Pa)	3	2

PEAD-AA

External Static Pressure	Function Code No.	
	Wired or Wireless Remote Controller	
	Mode No. 8	Mode No. 10
0.14 in. WG (35 Pa)	2	1
0.20 in. WG (50 Pa)	3	1
0.28 in. WG (70 Pa)	1	2
0.40 in. WG (100 Pa)	2	2
0.6 in. WG (150 Pa)	3	2

PVA - Vertical, Horizontal Left & Right

External Static Pressure	Function Code No.	
	Wired or Wireless Remote Controller	
	Mode No. 8	Mode No. 10
0.3 in. WG (75 Pa)	1	1
0.5 in. WG (125 Pa)	2	1
0.8 in. WG (200 Pa)	3	1

PVA - Downflow

External Static Pressure	Function Code No.	
	Wired or Wireless Remote Controller	
	Mode No. 8	Mode No. 10
0.3 in. WG (75 Pa)	1	2
0.5 in. WG (125 Pa)	2	2
0.8 in. WG (200 Pa)*	3	2

*PVA-A42 in Downflow External Static pressure: 0.70.

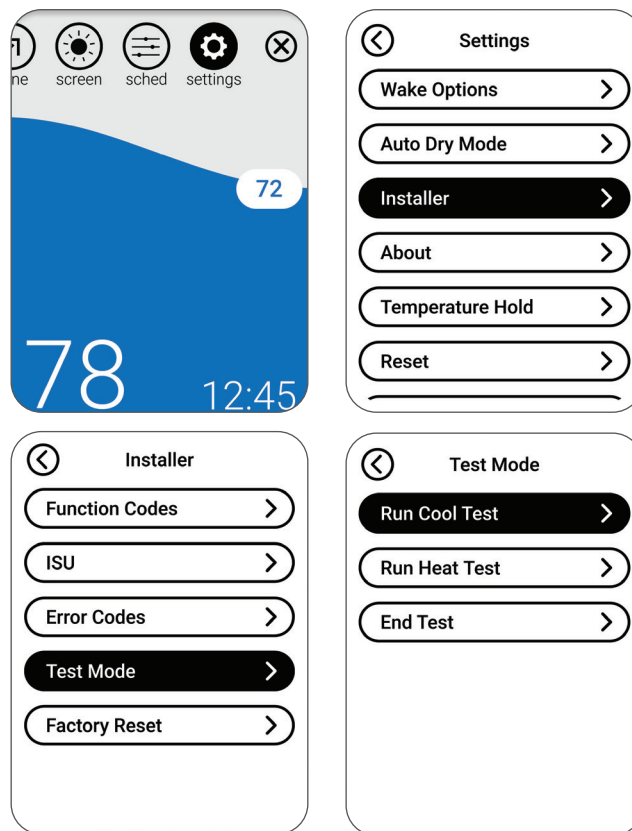
Performing a System Test

You can test system operation by performing the following steps.

- 1) Press the dial to open the general menu at the top of the screen, then scroll to the right and select “settings” by pressing the dial again.
- 2) Scroll down and select “Installer”.
- 3) Scroll down and select “Test Mode”.
- 4) To test cooling, select “Run Cool Test”.
To test heating, select “Run Heat Test”.
- 5) To end testing and exit Test Mode, select “End Test”.



Note: Test Mode is only available on P-Series models, and SEZ, SLZ, SVZ models.



Auto Dry

Auto Dry automatically switches between Cool mode and Dry mode based on the parameters selected in ISU 197, 198, 199, and 200. If enabled, the system will alternate between Cool and Dry mode until it meets the target humidity or temperature offset.

See the following descriptions for details.

ISU 197: Enable or disable Auto Dry (default disabled).

Note: If disabled in the ISU menu, it cannot be enabled by the user in the standard Settings menu.

ISU 198: Choose the maximum RH that the user will be comfortable with in the space. Auto Dry will be activated whenever the RH rises above this value.

Select any RH value between 35%-75% (default 60%).

ISU 199: Choose the maximum temperature offset above set point that the user will be comfortable with before Auto Dry switches back to Cool mode. Auto Dry will be deactivated whenever the temperature rises above this value.

Select any value between 2°-10°F (default 2°F).

ISU 200: Choose the maximum temperature offset below set point that the user will be comfortable with before Auto Dry switches back to Cool mode. Auto Dry will be deactivated whenever the temperature falls below this value.

Select any value between 2°-4°F (default 2°F).

Regulatory Information

FCC Compliance Statement (Part 15.19) (USA Only)

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation

FCC Warning (Part 15.21) (USA Only)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Interference Statement (Part 15.105 (b)) (USA Only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Specifications

Operating Ambient Temperature

- SDW01 controller/wall plate/adapter:
14 to 120 °F (-10 to 50 °C)

Operating Relative Humidity

- SDW01 controller/wall plate/adapter:
5% to 90% (non-condensing)

Physical Dimensions (Height, Width, Depth)

- SDW01 controller + wall plate:
3-3/8" x 3-3/8" x 1" (86 mm x 86 mm x 23 mm)
- SDW01 adapter:
3" x 1-8/10" x 5/8" (74 mm x 46 mm x 16 mm)

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