Restoration&Moisture&Ventilation

ALORAIR

Sentinel SLGR 1400X

Installation and Operations Manual
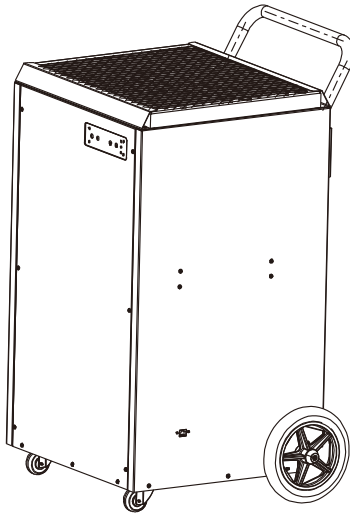
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◼ Important Notes

· Always connect your dehumidifier using a grounded electrical connection (as required for all electrical appliances). The use of non-grounded wiring will void the warranty.

· Your dehumidifier should only be repaired by a qualified technician.

· Do not use the dehumidifier in standing water. If there is a chance that the dehumidifier has been flooded, unplug the unit, remove the cover, and allow it to dry completely before proceeding.

· Do not insert objects or your fingers into the inlet or discharge.

· Do not use water to clean the exterior of the dehumidifier. To clean unit, unplug from power, then use a damp cloth to wipe the exterior.

· Do not stand on dehumidifier or place objects on it.

· Do not use with extension cord or plug adapter.

· Unless otherwise noted, all maintenance should be done with the unit powered off.

· The unit must be used in the upright position.

· Do not restrict airflow in to or out of the unit. This may cause the unit to overheat.

◼ Warranty Registration

Your dehumidifier comes with an extensive warranty.

For future reference, write down the model, serial number, and date of purchase for your dehumidifier. This information is necessary for seeking assistance in the future and can be found on the data label on the side of the unit.

Model Number: AlorAir Sentinel SLGR 1400X

Serial Number: _____   Date of Purchase: _____

For additional questions concerning your dehumidifier, contact your local installer or call AlorAir at 888-990-7469.

■ Specifications

Capacity @ 80°F/60%RH: 140 Pints Per Day
Airflow: 440 CFM
Operating Temp. Range: 33.8-110°F
Operating Relative Humidity Range: 36%-90%
COP: 2.75 L/kWh
Refrigerant: R410A
Amperage Usage: 7.9 Amps
Power Supply: 115V/60Hz/Single Phase
Outlet Requirement: 15 Amp
Sound Level: 60 dBa
Item Dimensions (LxWxH): 33.9" x 18.1" x 19.3" (860 x 160 x 490 mm)
Package Dimensions (LxWxH): 36.6" x 22.6" x 21.6" (930 x 575 x 550 mm)
ETL Listed: Yes

■ How It Works

AlorAir dehumidifiers use an integrated humidistat to monitor the conditioned space. When the relative humidity goes above the selected setpoint, the dehumidifier will energize. Air is then drawn across an evaporator coil, which is cooler than the dew point of air. This means moisture will condense out of the air. The air is then reheated through the condenser coil and distributed back into the room.

■ Installation

1. Place dehumidifier on a level surface.

   • Do not place unit directly on vapor barrier. For example, use blocks or pavers to create a level surface.

   • If unit has been turned or flipped so that the compressor did not remain upright, place the unit on a level surface and wait a minimum of 2 hours before proceeding.

2. Set up the drain line

   • Locate the dehumidifier near a suitable drain (19.6' drain hose included). Allow for proper drainage and routing of needed drain pipes.

   • Connect the drainpipe to the quick connector of the dehumidifier before placing the drain pipe into the sewer.

   • The dehumidifier is equipped with a built-in drainage pump to support the drainage height of 14.7'.

3. Plug dehumidifier into grounded 15 amp circuit.

■ Key Functions

1. Power Key ◆

· Use this button to turn the dehumidifier on and off.

· Press once to turn machine on. You will hear one beep and the 🔲Power light will illuminate green (solid or flashing depending on mode).

· Press the power button a second time and you will hear one beep as the machine shuts down. Note that there is a 1-minute fan delay.

2. Arrow Buttons ▲ ▼

· Use the up and down arrow buttons to set the desired humidity setpoint on the display screen. 88

· The setpoint can be any number between 36%-90%. When the indoor humidity is higher than the setpoint, the unit will operate.

· Keep in mind that the displayed humidity levels are approximate (+/-5%)

3. Continuous Mode

· To set the unit to run continuously regardless of humidity, simply use the down arrow key to set the humidity below 36%.

· The continuous light will illuminate green and the display will show "CO".

· To switch back to normal humidistat operation, use the arrow keys to move the setpoint above 36%.

4. Manual Drain Button ◊

· If you need to store or move your dehumidifier, press the "Drain" button to remove water from the integral pump's reservoir.

Indicator Lights

1. Humidity Display Screen 88

· The display screen has two functions:

 1. When the unit is powered on, it shows the humidity of the space
 2. When setting the desired humidity level, the screen will show the set point.
 After a brief delay, it will revert to current humidity of the space.

2. Power Indicator Light Power

· This light indicates that the unit is properly powered on and ready to operate.

· Always make sure the unit is "off" prior to performing any service, unless otherwise indicated.

· If the humidity is above the setpoint, the light will be solid green and the machine will operate.

· If the humidity is below the setpoint, the unit will be in standby mode and the light will be flashing.

3. Continuous Mode/ Auto Defrost Light Cont. Defrost

· When the light illuminates green, it indicates that the dehumidifier is set to the continuous operation mode.

• When the light illuminates red, it means the unit is in auto defrost mode and clearing the evaporator coils of any ice buildup.

4. Compressor Light Comp

· When the light illuminates red, it indicates the compressor has been initiated but is currently warming up.

• Once the light switches to green, it means the compressor is currently in working status.

■ Remote Control Instructions

AlorAir Dehumidifiers can be controlled using an optional remote accessory. The remote connects to your dehumidifier via a 25' CAT 5 cable, with the integrated sensor giving you multiple options for monitoring surrounding conditions.

Example #1- Install the dehumidifier in the laundry room and duct it into the living room. Mount the remote in the living room and use the remote sensor.

Example #2- Install the dehumidifier in your crawl space with the remote mounted in your garage.

NOTE: The symbols indicated below only show when the remote is powered on.

1. On/Off (Power) Button

Press the on/off button and the machine will start running (one beep). Press the button again to turn the machine off.

2. Up Button/ Down Button

Use the up and down arrows to adjust the humidity level.

3. Mode

Use the mode button to switch between dehumidifier and a ducted application.

• The ◉ symbol on the display indicates the sensor on the remote control is being utilized.

• The ◆ symbol on the display indicates the sensor on the dehumidifier is being utilized.
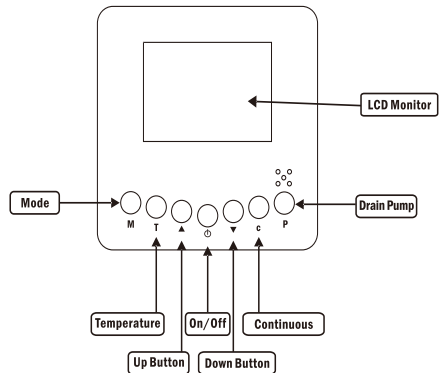
4. Temperature

Press the temperature button to display the current temperature on the screen

5. Continuous

Press this button to switch the unit into continuous mode. "CONT." will appear on the display screen.

6. Drain Pump

Use this button if the unit will not be used for an extended period of time.

This button will remove water from the pump reservoir.

■ Operating Instructions

1. Start the machine
• Press the power key to turn the dehumidfier on.

2. Adjust the settings
• Use the up and down arrow keys to adjust your desired setpoint
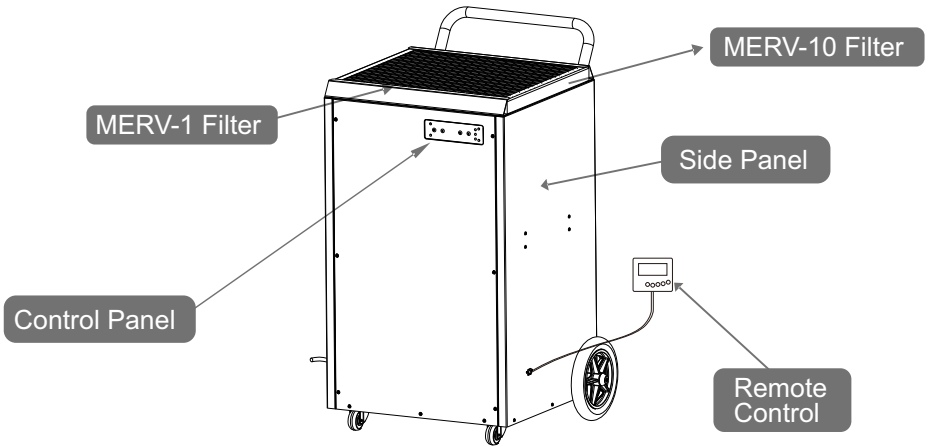(typically 50-55%).

3. Stop the machine
• Press the power button again and the dehumidifier will stop. Note that the fan will continue to operate for 1 minute after the unit has shut off.

DO NOT DISCONNECT THE POWER CORD TO FORCE THE UNIT TO STOP.

4. Water Drainage
• The AlorAir Sentinel SLGR 1400X has an integrated condensate pump. During normal operation, the 1400X will automatically drain as required.

• If you would like to store or move your unit, press the drain button to drain water from the pump reservoir. The drain will operate for 15 seconds each time the button is pushed. It may be necessary to push the button more than once.

■ Unit Diagram

MERV-1 Filter

MERV-10 Filter

Side Panel

Control Panel

Remote Control

Front View

Drain Hose Connection

Power Cord
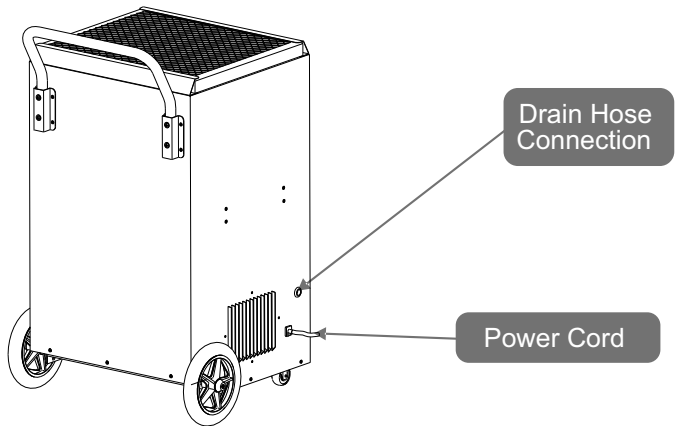
Back View

■ Maintenance

For more detailed instructions, visit www.alorair.com

⚠ WARNING: Always unplug the unit before doing any maintenance.

## Cleaning the Machine Body
・ Use a soft, damp cloth to clean the exterior of unit. Do not use any soap or solvents.

Coil Maintenance
・ Once per year, clean the coils with an approved coil cleaner. The coil cleaner should be a self-rinsing, foaming, cleaner, such as WEB® Coil Cleaner.
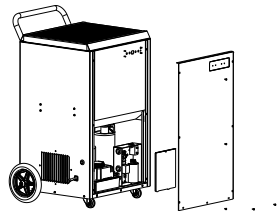
Cleaning the Filter
1. Unplug the unit.
2. For MERV-1 Filter:
    a. Remove prefilter from inlet of machine.
    b. Vacuum or wash with warm water (no soap).
3. For MERV-10 Filters:
    a. Replace as necessary- we recommend checking the filters at least 1x/year
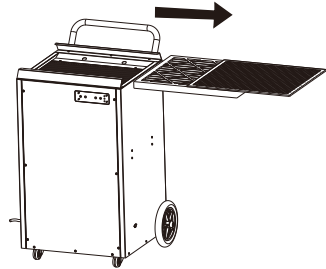
Electrical Access
・ Unscrew the 7 screws on the front panel.
・ Remove the 4 screws on the control board cover.

Pump Maintenance
Your AlorAir Sentinel SLGR 1400X is equipped with an integral condensate pump designed to pump water from the dehumidifier out to the desired drain.
The pump requires routine maintenance that is not covered by the warranty.

Preventative maintenance is necessary to prevent issues from dirt and slime that may accumulate in the drain system. This includes the drain pan, hose to the condensate pump, pump reservoir, pump head assembly, and discharge tubing.

Removing the Pump

1. Remove the 7 screws on the side panel and set panel aside.

2. Remove the screw holding the pump in place.

3. Undo the 3 pump electrical quick connects and 1 drain quick connect.

4. Insert a flat head screwdriver into the notch on the side of the pump. This will allow you to

gently lift the pump off its reservoir (the reservoir remains attached to the unit).
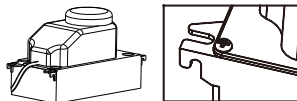
Basic Pump Cleaning

Complete about once per year, depending on environment

1. Unscrew the 7 screws on the front panel. Press the drain button to drain the reservoir.

2. Disconnect power to the dehumidifier.

3. Mix a 16 ounce solution of bleach (1 oz bleach + 15 oz water) OR vinegar (4 oz white vinegar + 12 oz water).

4. Pour the cleaning solution into the drain tray at the base of the coils.

If any cleaning solution gets on the coils, flush with water.

5. Allow solution to soak for 15 minutes.

6. Reconnect the dehumidifier to power.

7. Fill the reservoir with water (16-32 ounces) and flush/cycle the pump at least 2x.

8. If the drain line is still filled with debris, repeat process. If drain line still does not appear clean, move on to Advanced Cleaning.

1. Press the drain button to drain the water from the reservoir (a wet-dry vacuum or towels can be used to remove any remaining water).

2. Unplug the dehumidifier and remove the cover so you have access to the pump.

3. Remove the pump head from the reservoir by unscrewing the screw.

Wipe reservoir clean with a paper towel.

4. Reassemble pump.

5. Mix a 16 ounce solution of bleach (1 oz bleach + 15 oz water) OR vinegar (4 oz white vinegar + 12 oz water).

6. Pour the cleaning solution into the drain tray at the base of the coils.

If any cleaning solution gets on the coils, flush with water.

7. Allow solution to soak for 15 minutes.

8. Reconnect the dehumidifier to power.

9. Fill the reservoir with water (16-32 ounces) and flush/cycle the pump at least 2x.

■ Dehumidifier Storage

If the unit will be stored for an extended period of time, complete the following steps:

1. Turn off the unit and allow it to dry.
2. Complete steps 1-3 in Advanced Pump Cleaning to clean out the pump reservoir.
3. Wrap and secure the power cord.
4. Cover the filter mesh.
5. Store in a clean, dry space.

■ Troubleshooting

Symptom	Cause	Solution
Diaplay is Blank	Poor Connection	Verify that both ends of the power cord are plugged in
	Power Outage	Reset power
No AirFlow	Filter is Dirty	Clean the filter
	Air Inlet or Outlet is Blocked.	Clear the blockage
Trouble Code: E1	Humidity Sensor or Communication Error	Check to ensure that the sensor wire is connected at both ends, if no issues are visible, the sensor may be faulty.
Trouble Code: E4	Problem with Pump	Verify that the pump is properly installed and functioning. If so, unplug the unit for two minutes, then restart.
Trouble Code: LO	Room Temperature is below 33.8°F	Increase the room temperature so it is within operation range (above 33.8°F). If error still display, check sensor.
Trouble Code: HI	Room Temperature is above 110°F	Decrease the room temperature so it is within operating range (below 110°F). If error still displays, check the sensor.
E5 Trouble Code	Refrigerant Leak	Contact Your Installer for Assistance.

Pump Alarm- E4 Error Code
**UNIT WILL NOT FUNCTION UNTIL ERROR CODE IS CLEARED.

If E4 (pump alarm) is shown on the display, complete the following steps:

1. Reset the unit by unplugging the power cord and then reconnecting it.
2. Manually check to see if the pump is operational by pressing the drain button. Check if the pump energizes and de-energizes properly. Additionally, check to see if any water purged from the system.
3. If you haven't cleaned the system recently, check the discharge line for an obstruction, then clean as described in the Maintenance section.
4. Replace the hose and/or pump, if maintenance alone isn't sufficient.

■ Spare Parts

Remote Control	
W-100	Remote Control Assembly (includes W-101 and W-102)
W-101	AlorAir Remote Control
W-102	AlorAir Remote Control Cable

Display/Control	
N-100	AlorAir Main Control Board
N-101	AlorAir Display Board
N-102	AlorAir RH/Temp. Sensor

Internal Components	
N-801	Compressor
N-118	Compressor Capacitor
N-800	Coil Assembly
N-803	Condensate Pump Assembly

Fan Components	
N-802	AlorAir Fan Motor
N-804	AlorAir Complete Fan Assembly
N-117	Fan Capacitor

Filters + External Components	
N-200	AlorAir MERV-1
N-201	Alorair MERV-10
N-202	Wheels

Cables	
N-102	Temp/RH Sensor Cable
N-121	Display Ribbon Cable
N-122	CAT 5 Port Internal Cable

Accesspries	
N-105	AlorAir Remote Control

Limited Warranty

This limited warranty starts from the date of purchase. Alorair Solutions Inc. warrants to the original purchaser that this ALORAIR product is free from manufacturing defects in material or workmanship for the limited warranty period of:

Six (6) Month parts and labor. This includes the shipments charges for replacement parts or unit.

One (1) year parts and labor. This does not include the shipment charge to send the defective product back to be repaired or replaced.

Three (3) years parts and labor on Refrigeration System ONLY (Compressor, Condenser, and evaporator). Transportation cost, not included.

Five (5) years parts on Refrigeration System ONLY(Compressor, Condenser, and evaporator). Transportation cost, not included.

This limited warranty is valid only on products purchased from the manufacturer or ALORAIR authorized dealer and operated, installed, and maintained according to the instructions included in this user guide or furnished with the product. Alorair Solutions Inc will not provide in-home service during or after the warranty period. You may be responsible for the shipping charge to bring the product to the manufacturer for service.

To receive warranty service, the purchaser must contact ALORAIR at 888-990-7469 or support@alorair.com. A proof of purchase or order number is required to receive warranty service. During the applicable warranty period, a product will be repaired or replaced at the sole option of ALORAIR.

Limited Warranty Exclusions

This limited warranty covers manufacturing defects in materials or workmanship encountered in normal household, commercial or noncommercial use of this product and shall not cover the following:

- Damage occurs in uses for which this product was not intended for.
- Damage caused by unauthorized modification or alteration of the product.
- Cosmetic damage including scratches, dents, chips, and other damage to the product's finishes.
- Damage caused by abuse, misuse, pest infestation, accident, fire, floods, or other acts of nature.
- Damage caused by incorrect electrical line current, voltage, fluctuations, and surges.
- Damage caused by failure to perform proper maintenance of the product.

The use of this product in SPA or a room with OUTDOOR POOL invalidate or voids limited warranty.