



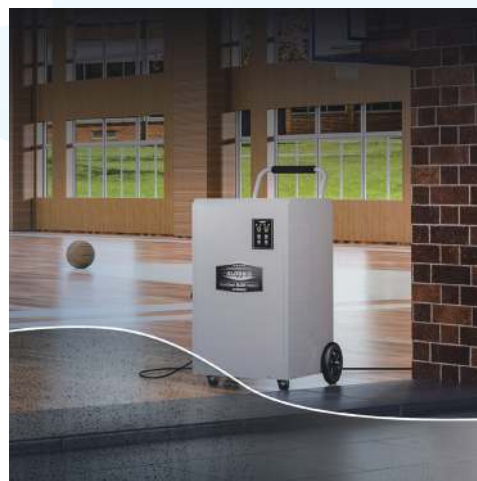
Sentinel SLGR 1400X Dehumidifier

Specifications

Features	Sentinel SLGR 1400X
SLGR Microchannel Technology for Ultra Efficiency	✓
Epoxy Powder Coating for Corrosion Protection	✓
Quick Access for Easy Maintenance	✓
High Capacity with Low Power Consumption	✓
Digital Control	✓
Quick Connector for Drain Tube & Cable	✓



The **Sentinel SLGR 1400X** takes in humid air, then uses advanced SLGR Microchannel technology to remove the moisture, and send dry air into another room via ducting. The 1400X is equipped with a built in condensate pump and drain tube so it drains automatically without the need to empty a water tank.



The **Sentinel SLGR 1400X** has a strong sheet metal specialty with two 8-inch diameter 360° rotating wheels and two 2-inch smaller wheels. This dehumidifier can also be easily opened to clean or change filters, ideal for living rooms, bathrooms, garages, wine cellars, etc.

High Capacity. Compact. Low-temperature Dehumidifiers For Professional Water Damage And Carpet Specialists.

Commercial Dehumidifier >>

Sentinel SLGR 1400X Dehumidifier

Pest Infestation & Allergen

A damp environment is highly attractive to pests such as termites, ants, and cockroaches, which can remain undetected in house corners, carpets, or rotting wood for extended periods. These pest infestations not only cause structural damage to your home but also pose health risks. One of the most serious allergens comes from dust mite feces. Dust mites thrive in environments with relative humidity levels above 50%, as they absorb moisture from the air to survive.

By installing the **Sentinel SLGR 1400X**, indoor humidity levels are effectively controlled **below 50%**, eliminating the conditions that support pest infestations and allergen buildup. This ensures a healthier and more comfortable living environment.



MUSTY



DAMP



CRACKS



Mold

Excess moisture in the air can create ideal conditions for mold, mildew, and other harmful microorganisms to thrive especially in cool, damp, or poorly ventilated spaces. Over time, this can lead to unpleasant odors, structural damage, and health issues such as allergies, asthma, and skin irritation.

The Sentinel SLGR 1400X is designed to help maintain a dry indoor environment, preventing the buildup of excess moisture and significantly reducing the risk of mold growth and related problems.

The Solution

The **Sentinel SLGR 1400X** dehumidifier, with innovative SLGR Microchannel **technology is capable of handling excess moisture in damp, cool basements.**

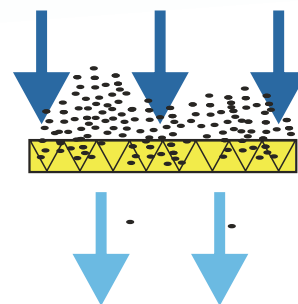
The 1400X has expanded moisture removal capacity that makes it perfect for keeping basements dry and air circulated all year round! It also includes an advanced filtration system with a MERV-10 filter that is able to capture extremely small particles, down to 0.3 microns.

Cold Catalyst.

The cold catalyst is also known as a natural catalyst. According to the principle of absorption, a Cold catalyst at room temperature can formaldehyde decomposition and absorption. This principle is applied in the decomposition of formaldehyde and other toxic gases in the air into non-toxic carbon dioxide (CO₂) and water (H₂O). This clears odors and purifies the in-door air making it healthy and comfortable to breathe.

Product Features:

1. Natural catalyst / Cold catalyst - for the catalytic decomposition of Cold catalyst, there should be no UV, high pressure, and high temperatures. This conditions can easily be attained indoor especially in the basement or crawl space to control air pollution in these spaces.
2. The Cold catalyst can also clear harmful gases like TVOC, Ammonia, hydrogen sulfide, benzene and other harmful gases. The Cold catalyst reacts with these gases to produce carbon dioxide and water.
3. **Long-term effects:** better indoor air quality, less mold growth, less respiratory illness and the Cold catalyst validity period is 5 years, under the condition that no external force damage.
4. Comfort indoor atmosphere - Cold catalyst under normal indoor temperatures and conditions, remove harmful gases such as benzene, xylene, toluene, TVOC and formaldehyde (Which cause odors in the house). Once Cold catalyst reacts with these gases, the reaction produces water, and carbon dioxide only with cause secondary pollution.



MERV-10 Filters



Sentinel SLGR Dehumidifier

1400X

Specifications

Features	Sentinel SLGR 1400X
High Efficiency	✓
High Airflow	✓
Gravity Drainage	✓
SLGR Technology	✓
Easy Monitoring	✓
Auto Humidity Control	✓
Easy to Transfer with the Solid Handle	✓
Four Wheels	✓
Low Noise	✓
cETL	✓

Specifications	Sentinel SLGR 1400X
Operating Voltage / Current	115 V / 60 Hz / 5.4 A
Max. at Saturation (90°F, 90% RH)	275 Pints
AHAM, (80°F, 60% RH)	140 Pints
Size For	3800 Sq. Ft
Airflow	440 CFM, 680 CMH
Filter	MERV-8 and MERV-10
Filter Size	10.63 × 5.04 × 0.4 in / 17.8 × 16.46 × 0.79 in
Unit Dimensions	20.37 × 19.33 × 32.5 in
Shipping Dimensions	24.8 × 24.8 × 40.35 in
Power Cord	19.6 ft
Unit Weight	124.3 lbs
Shipping Weight	144.2 lbs
Drain Pipe	6.6 ft
Temperature Range	33 - 102 °F
Sound Pressure Level	60.3 dBA

Application

The Sentinel SLGR 1400X is the latest addition to our Stainless Series SLGR dehumidifiers, engineered for high performance in demanding environments. It removes up to **140 pints per day (PPD) under AHAM conditions** and **runs quietly at under 60.3 dBA**. With an **impressive COP of 3.27 L/kWh**, it offers excellent energy efficiency.

The unit is **cETL certified** for safety and reliability. Thanks to its powerful fan and SLGR technology, the Sentinel SLGR 1400X is ideal for commercial spaces where consistent and efficient moisture control is critical. Its performance and efficiency exceed that of standard dehumidifiers.



Proven Performance

The Sentinel SLGR 1400X dehumidifier is **equipped with a two-stage filtration system** that effectively captures mold spores, dust, debris, pet dander, pollen, allergens, and more. The first stage includes a pre-filter for larger particles, while the second stage utilizes **MERV-8 and MERV-10 filters** to trap finer contaminants.

In cool and humid environments, moisture removal can be especially difficult. In these conditions, consistent air circulation is crucial. The Sentinel SLGR 1400X **delivers a powerful airflow of 680 CFM**, making it suitable for areas **up to 3,800 sq. ft**. Its large coil contact surface allows for rapid cooling of hot, humid air while maintaining high air volume.

For added convenience, the unit features an automatic digital control system, enabling easy setup and precise humidity management.

			
Cord & House Collection	LED Display	2 Small Wheels (2 inches in diameter) 2 Large Wheels (8 inches in diameter)	MERV-8 Filter and MERV-10 Filter

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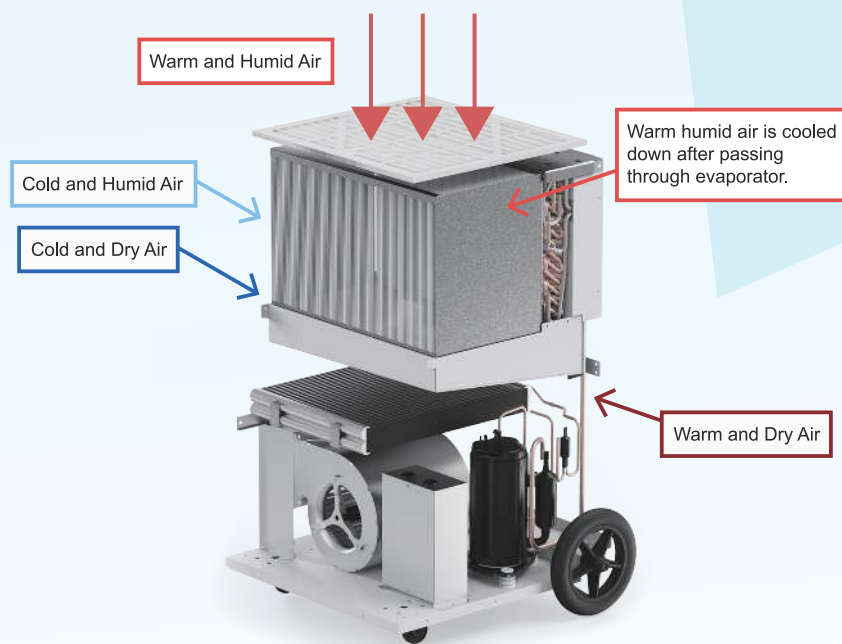
Sentinel SLGR 1400X Dehumidifier

How Does SLGR Work?

SLGR microchannel technology significantly improves the performance and energy efficiency of dehumidifiers. It uses a specialized **air-to-air heat exchanger** to cool incoming air closer to its dew point before it passes over the super-cooled evaporator coils.

This system is paired with a **microchannel aluminum condenser**, which increases both moisture removal capacity and energy efficiency. The microchannel design improves heat dispersion by 50%, expands the heat exchange surface area by 30%, and reduces refrigerant usage by 50%.

Together, these enhancements allow SLGR dehumidifiers to achieve 30–50% higher overall efficiency, producing faster condensation, quicker heat exchange, and greater moisture extraction. This makes ALORAIR SLGR units exceptionally effective in low-humidity environments, ensuring faster drying and more comfortable indoor air quality.



LGR / SLGR vs. Conventional Dehumidifiers

What is an LGR Dehumidifier?

According to the IICRC S500 (2006) standard, a Low Grain Refrigerant (LGR) dehumidifier uses an enhanced refrigeration system that allows it to dry spaces to much lower humidity levels than conventional models. This is made possible through pre-cooling technology and an air-to-air heat exchanger, enabling LGR units to efficiently remove moisture even when conditions drop below 34 GPP (grains per pound of dry air).

Unlike conventional dehumidifiers, LGR technology continues to perform efficiently at lower humidity levels even in conditions such as 80°F and 20% RH, where standard units typically struggle or fail to function. LGR models also remove more water while using less energy, making them ideal for demanding environments.

Which Option Is Right for You?

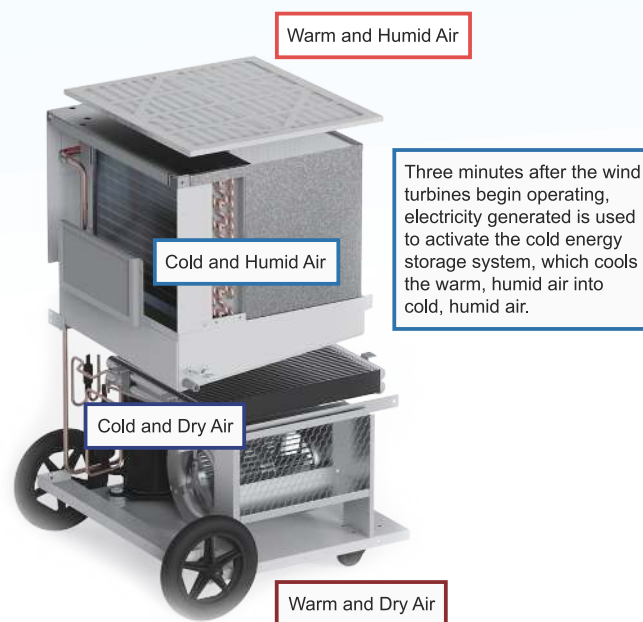
If you're in the water damage restoration industry, having high-performance equipment is essential to handle tough jobs and deliver reliable results. Choosing the right type of dehumidifier depends on the severity of the job.

Conventional Dehumidifiers

Best suited for general drying tasks. These units are more affordable and work well in environments with moderate moisture levels. However, they are less effective when dealing with large volumes of water or extreme humidity.

LGR / SLGR Dehumidifiers

Designed for heavy-duty restoration projects. These units provide superior moisture removal, faster drying times, and better efficiency, especially in low-humidity or high-volume water environments.



What is SLGR Technology?

SLGR stands for Super Low Grain Refrigerant. ALORAIR's SLGR technology uses a specialized **air-to-air heat exchanger** that cools incoming air closer to its dew point temperature before it passes over the super-cooled evaporator coils. This process significantly enhances dehumidification performance.

The system also incorporates a microchannel aluminum condenser, which boosts both capacity and energy efficiency. This advanced design increases condensation on the internal coils, improves heat exchange, and enables the unit to extract more moisture from the air. The result? The air returned to the room is noticeably drier and more comfortable.

Thanks to its enhanced efficiency, **the ALORAIR SLGR dehumidifier is especially effective in low-humidity environments.** It's the ideal solution for demanding water damage restoration projects involving high moisture levels, where fast, powerful drying is critical to success.