



Storm SLGR 1600X Dehumidifier

SLGR Black Box



Patent Pending

Distinct Features:

- 1. SLGR Microchannel Technology
- 2. Convenient storage for cable and drain tube
- 3. Condensate pump
- 4. Epoxy powder coating for corrosion protection
- 5. Quick access to internal service
- 6. Quick connector for Drain Tube and Cable
- 7. More capacity, less power consumption



Convenient water pipe and power line storage:
You can store the water pipe and power line in the top box.



Storm SLGR 1600X with rugged rotational molding housing operates well in severely damp environment after flood damage. With **SLGR Microchannel**, it removes plenty amounts of moisture from damp air environment and returns a dry house environment.



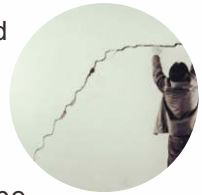
Two Main Damage of Flooding

Flood is an expensive natural disaster that does damage to multiple areas of human life, community, and industry. It includes damage to property, loss of human life, destruction of plants and crops, etc.. But to the restoration market, dehumidifier mainly focuses on the following two fields of restoration work.



▶ Structural damage

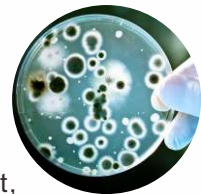
After flood sweeping house and farm, wooden structure house is susceptible to mold and rot. Wooden damage will lead to the uneven floor and deformed door frame, which exist high risks for a living. For exterior walls, it can easily absorb the moisture condensed on its cool surface. As the temperature of the wall continuously lowers, the wall absorbs more water. This is a terrible cycle as in the end the wall material will be absolutely damaged.



For high maintenance fee, 15% of the wooden parts request repair caused by rot and mold, which leads to about 20 billion board feet destruction of timber. That destruction is much more than what is destroyed by fire!

▶ Health Condition Related To Waterborne Diseases

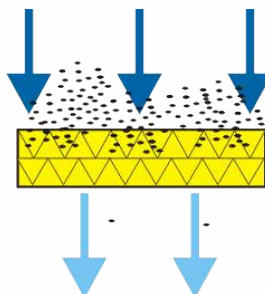
Excess dampness and moisture are the results of flooding. When relative humidity levels reach 60% or higher in the space, it becomes the incubator for mold, mildew, and fungi. Those microorganisms thrive on the surface of damp wood, dirt, cardboard and any kind of paper material.



Medical research has provided strong evidence that respiratory infections, asthma, arthritis, neuralgia, chronic bronchitis, cough, skin diseases like urticaria are all closely related to damp living environment people lives in. dampness-related factors are long, unconsciously and chronic damage to people's inner health.

The Solution

Storm SLGR 1600X dehumidifier, as a professional dehumidifier for restoration marketing, has an amazing dehumidifying effect and restoration effect. It beats down conventional dehumidifiers absolutely with **SLGR Microchannel Technology** adopted. Besides satisfactory restoration effect in normal humidity and temperature environment, **Storm SLGR 1600X** is a master-hand of the restoration field especially to dehumidify in hot dry environment and cold humid environment.



Specifications

Features	Storm SLGR 1600X
CE, ETL	✓
Compressor Type	Rotary
More Thorough, And More Quick	✓
Ducting options	✓
Condensate Pump	✓
Telescope Handle	✓
Water Full protection	✓
Environmental R410A Refrigerant	✓
Memory Starting	✓
Washable Air Filter	✓
Wheels	✓
Rotational Moulded Body	✓
Convenient Storage for Cable / Hose	✓
Low Temperature	✓
Quick connection to Cable/Hose	✓

Specifications	Storm SLGR 1600X
SLGR Microchannel	Excellent In Low Humidity and High Temperature
Power	115V/60HZ, 220V/50HZ
Size For	Up to 4,000 Sq. Ft
Filter	G3 filter
Air flow	400 CFM, 680 CMH
Sound Pressure Level	<63 DBA
Refrigerant	R410A
Wheel	2 Small Wheel
Draining	Condensate Pump
Defrosting Control System	Automatic Defrosting
Functioning Temperature Range	33-122 °F (1-50°C)
Functioning Humidity Range	35-95%
Capacity 115V (80°F-60%)	160 Pints/Day
Capacity 220V (30°C-80%)	130 L/Day
COP	2.8 L/kWh (115V/60Hz), 5.6 L/kWh (220V/60Hz)
Weight	99 lbs (45KG)
Dim (L×W×H)	30.9" L × 20" W × 16.9" H
Loading quantity	40"H: 120 Sets; 40": 280 Sets; 20": 280 Sets

PROVEN PERFORMANCE

The Alorair 1600X brings the latest Alorair **SLGR Technology** to our Restoration Product line. Removing 160 PPD at AHAM and 130 L at 30°C/80% conditions, Storm SLGR 1600X is our newest SLGR dehumidifier.

A Most powerful **SLGR dehumidifier**, Alorair has engineered high efficiency and high-temperature operation into one amazingly effective drying machine. even above 122 Degrees Fahrenheit. They are rugged yet mobile equipment that will operate under extreme conditions and pull large amounts of moisture, offers extraordinary performance in a variety range of jobsite conditions – in low humidity and high temperatures.

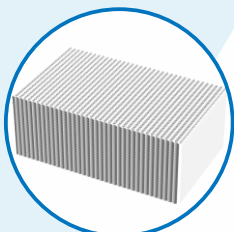
As a water damage restoration professional, you need professional-grade equipment that helps you tackled the toughest of jobs and deliver outstanding results for your clients. A powerful **SLGR dehumidifier** is a key component in your suite of tools.



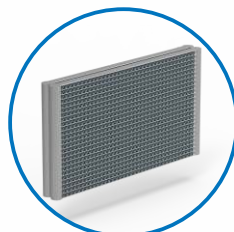
1. The Front cover can be taken away without any interference



2. Main control board is in quick access design by releasing 4 screws



Cold Energy Storage



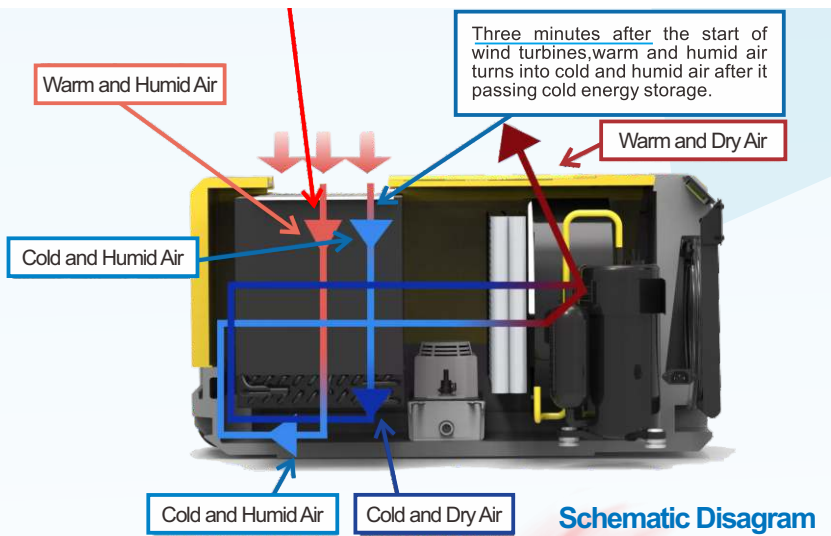
Microchannel cold and heat exchanger



Pump



SLGR microchannel technology has improved the performance and efficiency. The **ALORAIR SLGR technology** uses a special air-to-air heat exchanger system to help bring the air closer to dew point temperature before it passes over the super-cooled evaporator coils, besides with the combination of Microchannel Alu Condenser, Maximize the Capacity and efficiency. The purpose of a microchannel condenser is to improve energy efficiency. The use of microchannel condenser technology can improve the 50% dispersion effect of the condenser, 30% heat exchange area and 50% refrigerant quantity. When the **SLGR microchannel** is combined, the efficiency of the dehumidifier can be increased by 30-50%. This leads to more condensation that forms on the coils inside the machine, and fastest for an interchange of heat, which in turn leads to more moisture pumped out and less moisture in the air that is returned to the room. This extra efficiency makes **ALORAIR SLGR dehumidifier** perfectly suited for low humidity conditions.



Knowing More about the Difference Between LGR/SLGR and Conventional Dehumidifiers LGR Definition

What is the LGR dehumidifier? Is it a dehumidifier just says "LGR" on the Label? The answer is certainly NO!!! Do not believe someone simply used as a marketing term.

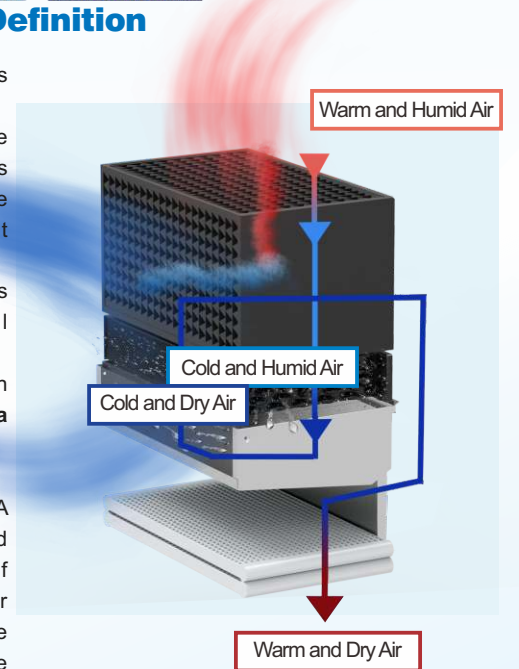
The IICRC S500 2006 defines LGR as it has an enhanced refrigeration system that allows the dehumidifier to dry a space too much lower humidity than conventional dehumidifiers, it is achieved by the precooling designs, air-to-air heat exchanger, LGR can effectively remove some moisture below 34GPP, removes more water with less electricity consumed, continue to dry at lower humidity, such as 80°F/20%, that conventional dehumidifier does not work.

As a water damage restoration professional, you need professional-grade equipment that helps you tackled the toughest of jobs and deliver outstanding results for your clients. A powerful dehumidifier is a key component in your suite of tools.

What type of dehumidifier do you need? We provide a series of professional dehumidifiers, both LGR and conventional options. What are the differences, and which is best for you? **Here's a rundown of LGR dehumidifiers vs. Conventional dehumidifiers and their unique benefits:**

CONVENTIONAL DEHUMIDIFIERS

The conventional dehumidifiers are designed for most water-damage remediation projects, A feature same as LGR dehumidifier they can easily be transported from job to job and loaded and unloaded from a vehicle. the conventional dehumidifier draws moisture-laden air across a set of super-cooled coils. As the air passes over, its temperature drops below the dew point and water condenses on the cold coils. The dry air is reheated and exhausted to the room to collect more moisture. Compared to ALORAIR SLGR dehumidifiers, conventional models are not as effective or efficient at removing moisture and drying air in environments with large volumes of water as LGR models are. However, conventional dehumidifiers are less expensive than their LGR dehumidifiers.



SLGR DEHUMIDIFIERS, Why We call as SLGR (Super LGR) Technology?

SLGR stands for Super low-grain refrigerant, How do they work? The **ALORAIR SLGR technology** uses a special air-to-air heat exchanger system to help bring the air closer to dew point temperature before it passes over the super-cooled evaporator coils, besides with the combination of Microchannel Alu Condenser, Maximize the Capacity and efficiency. This leads to more condensation that forms on the coils inside the machine, and fastest for an interchange of heat, which in turn leads to more moisture pumped out and less moisture in the air that is returned to the room. This extra efficiency makes **ALORAIR SLGR dehumidifier** perfectly suited for low humidity conditions. When faced with particularly challenging water damage restoration jobs where higher amounts of water are involved, an **SLGR dehumidifier** is your best bet for achieving maximum results.

