Sullair Regenerative Desiccant Dryers
3 to 12,000 SCFM

Solving the Problems of Moisture Contamination

SD Dryer
100-3400 scfm

SM Dryer
3-1650 scfm

SDB Dryer
1200-12000 scfm

SDE Dryer
400-3500 scfm

60 HZ Models
The importance of clean, dry compressed air.

Water jeopardizes everything you want your compressed air system to do. It ruins product and fouls processes. Here’s how:

- In addition to water, compressed air can also contain dirt, wear particles, bacteria and lubricating fluid.

  Water mixes with these pollutants to form an unwanted abrasive sludge.

  This sludge, often acidic, rapidly wears tools and pneumatic equipment.

  Sludge corrodes piping and can foul product and air-operated devices.

- Sludge blocks valves and orifices, causing high maintenance and costly air leaks.

How much water is too much? Any amount of water is too much.

- Relative humidity is the amount of water vapor in air relative to what it could hold at a given temperature.

- Moisture in compressed air remains in a vapor state through the compression cycle, so it is not a problem until it leaves the compressor.

- Air discharged from a compressor is approximately 150°F to 450°F.

- At 75°F and 75% relative humidity, a 75 HP compressor takes in 46 gallons of water vapor in 24 hours. When this air is cooled to approximately 35°F at 100 psig, the water vapor condenses into 46 gallons of liquid!
Clean, dry compressed air is essential to your production or process.

Sullair Desiccant Dryers provide clean, dry air by **removing the water**. The result: corrosion and damage are eliminated.

- Productivity improves and maintenance costs are reduced.
- The service life of air tools, motors and cylinders is extended.
- The life of your entire compressed air system is prolonged.
- Eliminates freezing in outdoor compressed air lines.
- Eliminates corrosion in compressed air lines.
- Reduction or even elimination of bacterial growth.

**The benefits of Sullair Regenerative Desiccant Dryers:**

**Clean, dry compressed air**
Sullair desiccant air dryers use a bed of high quality activated alumina desiccant to adsorb water from compressed air providing a continuous dewpoint as low as -40°F (standard) or -100°F (optional). While one tower is drying the air the other is being regenerated. The dryer operates continually and automatically with no interruption of flow and no dewpoint spikes.

**Reliable operation.**
Conservative design limits, high quality valves, fail safe controls and attention to detail assure long, trouble-free service life.
Sullair Series SD-100 to SD-3400

Sullair Heatless Regenerative Dryer
100 to 3400 scfm up to 140 psig*
Dry air to -40°F pressure dew point

Standard features

• ASME coded pressure vessels and piping.

• Durable, low maintenance valves.

• NEMA 4, CSA approved electrical panel.

• Tower and purge pressure gauges.

• Efficient, abrasion resistant activated alumina desiccant.

• Moisture indicator or optional digital dewpoint readout.

• Depressurization mufflers for noise reduction.

• Fail safe PLC controls.

• No interruption of flow.

• No dewpoint spikes.

* For higher pressures, contact Sullair or your Sullair Distributor.

Designed for Sub-freezing Temperatures
These regenerative dryers are ideal for installations with outdoor compressed air piping, and for processes that require an extremely low dew point to -40°F as standard or optional -100°F.
Sullair SD dryers use activated alumina desiccant to adsorb water vapor from compressed air. By combining the proven benefits of desiccant drying with the most advanced designs, Sullair offers an extremely compact, reliable system to clean and dry compressed air for the most critical applications.

**Easy Installation**
Sullair dryers are prepackaged requiring only air inlet/outlet and single point power connections. Sullair recommends the use of a Sullair MPH/PH coalescing pre-filter to ensure long desiccant life and MPR/PR particulate after-filter to catch any desiccant dust.

**Wide Range of Operating Conditions**
The Sullair SD dryers can operate with inlet temperatures from 80°F to 120°F, inlet pressures from 80 to 140 psig and flows from 100 to 3400 scfm. They can be sized to provide either a -40°F or -100°F outlet pressure dewpoint.

**Market Leading Design**
- Towers are built in accordance with ASME Section VIII Div 1.
- Desiccant is a high quality activated alumina with high adsorption and abrasion resistance.
- Towers and piping are shot blasted and then protected with an anti-corrosive acrylic polyurethane.
- Depressurization mufflers offer reduced noise levels

**Options**
- High strength nylon control lines feed filtered control air to high quality solenoids. (Copper or stainless steel optional.)
- Heavy duty inlet and exhaust valves have stainless steel internals and Teflon valve seats for reliability and long service life.
- Repressurization circuit for smooth change over and long desiccant life.
Sullair Heatless Regenerative Dryer
3 to 1650 scfm up to 232 psig
Dry air to -40°F pressure dew point

Standard features

- Small footprint, lightweight, advanced design.
- High tensile extruded aluminum construction.
- Alocrom and dry epoxy powder corrosion protection.
- Snowstorm desiccant filling provides greater efficiency and less attrition.
- Modular design allows flexibility to meet any flow requirements.
- Efficient abrasion-resistant activated alumina desiccant.
- Depressurization mufflers mounted in an acoustic shroud for optimum noise reduction.
- Fail safe electronic solid state timer controls (SM-24 through SM-1650).
- No interruption of flow.
- No dewpoint spikes.
The SM modular desiccant air dryers combine proven traditional twin-tower dryer principles with the latest technology to provide unsurpassed efficiency, flexibility and reliability for critical dry air applications.

**Easy to Install**
Sullair SM dryers are less than half the weight and size of a traditional twin tower package allowing even the largest models to be moved through a standard doorway. They are prepackaged requiring only air inlet/outlet and single point power connections. Sullair recommends the use of a Sullair MPH/PH coalescing pre-filter to ensure long desiccant life and MPR/PR particulate after-filter to catch any desiccant dust.

**Wide Range of Operating Conditions**
The Sullair SM dryers can operate with inlet temperatures from 41°F to 122°F, inlet pressures from 58 to 232 psig (may be lower on some models) and can be banked to meet any flow. They can be sized to provide either a -40° or -100°F outlet pressure dewpoint.

**Market Leading Design**
- High tensile extruded aluminum towers, alocrom treated and externally coated in a dry epoxy powder for optimum corrosion protection.
- Snowstorm filled activated alumina desiccant for the highest possible efficiency and reduced channeling.
- Dual depressurization mufflers mounted in an acoustic shrouding offer the lowest noise levels.
- Electronic solid state timers with LED power and fault indication (SM-24 through SM-1650).
- Modular aluminum extruded valves with stainless steel stems and polystone valve seats (SM-106 through SM-1650).
- Optimum parts commonality through modular design.

**Modular Capabilities**
- Buy only what you need, pay only for what you use... bank multiple dryers for greatest flexibility.
- 100% standby with just one additional bank.
- Isolate individual units for service or maintenance while maintaining a continuous supply of dry air.
- Add additional banks (dryers) when needed to meet future air requirements.
- Turn banks on and off to meet changing air flow requirements.
- Maximum parts commonality.

**Options**
- Dewpoint Dependent Switching (DDS). If the hygrometer senses that there is moisture-adsorption capacity available in the on-line desiccant bed before the tower reaches the end of its cycle, a signal is sent to the controller to delay the changeover and utilize the spare desiccant capacity. Dryers with DDS can achieve energy savings from 30% to as much as 80%.
- -100°F dewpoint.
Sullair Externally Heated and Externally Heated Blower Purge Regenerative Dryers
400 to 12,000 scfm at up to 140 psig*
Dry air to -40°F pressure dewpoint

Standard features

• Temperature dependent heating and cooling cycles for optimum energy savings and reliability.

• Fail safe, fully automatic interlocked PLC controls.

• Nema 4, CSA approved high and low voltage electrical panels.

• Digital text display with numerous alarms and indicators.

• High quality solenoid valves and control tubing.

• Efficient, abrasion-resistant activated alumina desiccant.

• Moisture indicator or optional digital dewpoint readout.

• Depressurization mufflers for noise reduction.

• No interruption of flow.

• Cooling cycle to eliminate dewpoint spikes.

* For higher pressures, contact Sullair or your Sullair Distributor.
**Clean Dry Compressed Air**
Sullair SDE Externally Heat Reactivated desiccant air dryers use a bed of high quality activated alumina desiccant to adsorb water from compressed air providing continuous dewpoints as low as -40°F (standard) or -100°F (optional). While one tower is drying the air the other is being regenerated using heated dry air reducing purge requirements to only 7% of the rated flow of the dryer. Sullair SDB Blower Purge desiccant air dryers use a bed of high quality activated alumina desiccant to adsorb water from compressed air providing continuous dewpoints as low as -40°F (standard) or -65°F (optional). While one tower is drying the air the other is being regenerated using heated ambient air through an external blower reducing purge requirements to only 2-3% (average over time).

**Reliable Operation**
Conservative design limits, high quality valves, fail safe PLC controls and attention to detail assure a long trouble free service life.

**Designed for Critical Dewpoint Applications**
Sullair SDE and SDB heated desiccant air dryers combine proven dryer sizing parameters with high quality components and technologically advanced controls to provide reliable dry air for even the most critical applications.

**Easy to Install**
Sullair dryers are prepackaged requiring only air inlet/outlet and single point power connections. Sullair recommends the use of a Sullair MPH/PH coalescing pre-filter to ensure long desiccant life and MPR/PR particulate after-filter to catch any desiccant dust.

**Wide Range of Operating Conditions**
The Sullair SDE and SDB dryers can operate with inlet temperatures from 50°F to 120°F, inlet pressures from 60 to 140 psig. The SDE dryers can handle flows from 400 to 3500 scfm and provide a steady outlet dewpoint of -40°F (standard) or -100°F (optional). The SDB dryers can handle flows from 1200 to 12,000 scfm and provide a steady outlet dewpoint of -40°F (standard) or -65°F (optional).

**Market Leading Design**
- Towers are built in accordance with ASME Section VIII Div 1.
- Low watt density incoloy sheath heater elements for long element life.
- Low noise, reliable centrifugal blower with direct mounted long shaft motor and intake filter (SDB only).
- Desiccant is a high quality activated alumina with high adsorption and abrasion resistance.
- Towers and piping are shot blasted and then protected with an anti-corrosive silicone acrylic.
- Depressurization mufflers offer reduced noise levels.
- High strength copper and nylon control lines feed filtered control air to high quality solenoids. (All copper or stainless steel optional.)
- Heavy duty inlet and exhaust valves have stainless steel internals and Teflon valve seats for reliability and long service life.
- Cooling and repressurization circuit for smooth change over, long desiccant life and steady dewpoint.

**Options**
- Dewpoint Dependent Switching (DDS). If the hygrometer senses that there is moisture-adsorption capacity available in the on-line desiccant bed before the tower reaches the end of its cycle, a signal is sent to the controller to delay the changeover and utilize the spare desiccant capacity. Dryers with DDS can achieve energy savings from 30% to as much as 80%.
- Mounted filters with bypass arrangements.
- -100°F dewpoint (SD and SDE only).
### SD Heatless Regenerative Air Dryers

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Inlet Flow SCFM¹</th>
<th>Inlet/Outlet Connection</th>
<th>Required Pre and After Filter²</th>
<th>Pre and After Filter²</th>
<th>Height (in)</th>
<th>Dimensions¹ Width (in)</th>
<th>Depth¹ (in)</th>
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<th>Standard Voltage</th>
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**NOTES**

1. Maximum rated inlet flow at CAGI conditions of 100 deg. F and 100 psig.
2. Filters are sold separately unless 3V option is purchased.
3. Depth does not include mounted mufflers which may project beyond the dryer skid on some models.
4. Weights and dimensions are approximate and do not include 3V option. Contact Sullair for drawings.

### SM Modular Heatless Regenerative Air Dryers

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Inlet Flow SCFM¹</th>
<th>Inlet/Outlet Connection</th>
<th>Required Pre and After Filter²</th>
<th>Height (in)</th>
<th>Dimensions¹ Width (in)</th>
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**NOTES**

1. Maximum rated inlet flow at 95 deg. F and 102 psig.
2. Filters are sold separately.
3. Weights and dimensions are approximate. Contact Sullair for drawings.
### SDE Heat Reactivated Desiccant Air Dryers

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<th>Model</th>
<th>Max Inlet Flow (scfm)</th>
<th>Connection Size</th>
<th>Required Pre- and After-Filter</th>
<th>Height (in)</th>
<th>Width (in)</th>
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<th>Standard Voltage (kW)</th>
<th>Heater (kW)</th>
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**NOTES**

1. Maximum rated inlet flow at CAGI conditions of 100 deg F and 100 psig.
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3. Depth does not include mounted mufflers which project beyond the dryer skid in some models.
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### SDB Blower Purge Desiccant Air Dryers

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<tr>
<th>Model</th>
<th>Max Inlet Flow (scfm)</th>
<th>Connection Size</th>
<th>Required Pre- and After-Filter</th>
<th>Height (in)</th>
<th>Width (in)</th>
<th>Depth (in)</th>
<th>Total Weight (lbs)</th>
<th>Standard Voltage (kW)</th>
<th>Blower (HP)</th>
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</tbody>
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Sullair is committed to a program of continuous improvement. Features and specifications may change without notice. Consult your Sullair representative or authorized Sullair distributor.
Sullair assures that its System—compressor, dryer and filter—will meet specific performance levels throughout its operational life. We offer a one-year test/review period, backed by a purchase refund guarantee, to verify the performance of the Sullair System.

The Sullair System. The Sullair System matches a Sullair compressor, a Sullair dryer and Sullair filters. Dry air is filtered to remove atmospheric particulate, aerosols and other pollutants to provide compressed air for general purposes to the most critical application.

Two levels of air quality. Sullair recognizes that the requirements for air quality vary according to each compressed air application. For this reason, we provide Systems that achieve two distinct levels of air quality.

Level 1 consists of a Sullair compressor, Sullair dryer and Sullair MPF and MPH or PF/PH filters. The compressed air from this System contains particulates no larger than .01 micron, including coalesced liquid water and lubricants. Maximum remaining oil aerosol content is 0.01 parts per million by weight (ppm/w) @ 70°F, including oil vapor. The air from this Sullair System meets the most stringent ISO standard (ISO 8573.1, Class 1) for air quality.

Level 2 offers the highest quality compressed air for critical applications. The air from this Sullair System exceeds the ISO standard (ISO 8573.1, Class 1) for air quality with the use of the MPC or PC filter. The System includes a Sullair compressor, Sullair dryer and Sullair MPF, MPH and MPC or PF, PH and PC filters. The odor-free compressed air from this system contains particulates no larger than 0.01 micron, including water and oil aerosol content of 0.01 ppm/w @ 70°F. The remaining oil vapor content is less than 0.003 ppm/w.

Select the System. Select the air quality level to meet your plant air or process requirements. You can be assured that the quality of air from the Sullair System you specify will remain consistent for the life of the equipment. Sullair guarantees it. And that’s as good as gold.

These Systems are not intended to remove carbon monoxide, methyl isocyanate or other noxious, corrosive or toxic gases, vapors or fumes. The system does not provide breathing air.