

Desiccant Regenerative Dryers

3-10,000 scfm

ASK ABOUT OUR
OIL FREE GUARANTEE!



- Desiccant Modular
- Desiccant Heatless
- Desiccant Externally Heated
- Desiccant Blower Purge

Sullair Capabilities

Sullair Leadership

Since 1965, Sullair has been recognized around the world as an innovator and a leader in rotary screw compression and vacuum technology. For more than 40 years, Sullair

has designed and manufactured its own rotors and air end assemblies at the corporate headquarters in Michigan City, Indiana.

The award-winning rotary screw design sets the industry standards and delivers the quality and reliability one expects from a leader.



products are known around the world for their universally applicable design, outstanding craftsmanship and superior quality.

Sullair's Statistical Process Control

Sullair's Statistical Process Control (SPC) system monitors rotor quality standards to assure consistent compressor and vacuum performance.

Sullair's Commitment to Innovation

Underlying Sullair's leadership is a dedication to excellence and a commitment to innovation. Sullair is constantly exploring new ideas and seeking new ways to meet industry's need for increasingly energy efficient compressed air and vacuum solutions.

The Sullair Stationary Air Power System



This System includes:

- rotary screw compressor
- wet storage
- desiccant dryer
- filters to meet your requirement
- dry storage
- flow controller
- drains
- oil/water separator
- ethernet-based eConnect™ to monitor and control the entire system

The Importance of Clean, Dry Compressed Air

How much water is too much?

Any amount of water is too much.

Water jeopardizes everything you want your compressed air system to do. It ruins product and fouls processes.

- 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!



Liquid remaining after the aftercooler: 14.7 gallons (32%)



Liquid remaining after a desiccant dryer: .14 gallon (0.3%)

Desiccant Regenerative Dryers

Sullair offers these configurations of desiccant regenerative dryers

- **DMD – Desiccant Modular Dryer**
3 to 240 scfm
- **DHL – Desiccant Heatless Dryer**
80 to 5,000 scfm
- **DEX – Desiccant Externally Heated Dryer**
200 to 3,500 scfm
- **DBP – Desiccant Blower Purge Dryer**
500 to 10,000 scfm

Desiccant Dryer Features

The Sullair desiccant regenerative dryer family is ideal for outdoor compressed air piping and operations that require an extremely low dew point to -40°F (-4°F or -100°F optional).

By combining the proven benefits of desiccant drying with the most advanced designs, Sullair offers a reliable system to clean and dry compressed air for the most critical applications.



Features of the Sullair Desiccant Dryers



DHL Series Standard Features (80-5,000 scfm)

- Pre- and after-filter pre-piped and mounted
- Field adjustable drying cycle time
- Pilot air filter
- Easy front access control panel
- -40°F pressure dew point
- Fully automatic self contained dryer
- Adjustable purge valves
- High quality valves
- Purge flow indicator
- ASME/CRN code welded pressure vessels
- UL/CUL electrical certified
- Separate drain and fill port
- Robust steel frame with floor stand
- Separate safety pressure relief valve for each tank
- Stainless steel inlet/outlet diffusers

- Tower pressure gauges
- Fail safe design in case of power failure

DHL Series Options

- Demand Cycle Controller
- NEMA 4, 4x enclosure
- High pressure up to 500 psig
- Failure to shift alarm
- Pneumatic control timer
- Optional voltage
- High dew point alarm
- Dew point monitoring system
- -4°F and -100°F pressure dew point
- 3 Valve and 9 valve bypass options
- Visual moisture indicator
- Low ambient package
- Sub zero ambient package

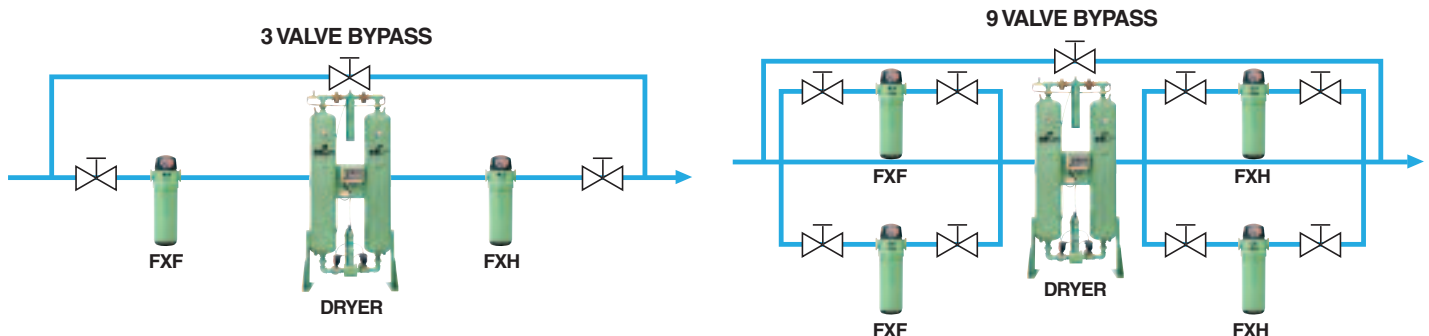


DEX and DBP Series Standard Features (200-10,000 scfm)

- Same high quality standard features as DHL
- Pre piped and mounted filters are not standard on the DEX and DBP dryers
- Insulated heater housing and piping
- High outlet temperature shut off and alarm
- User-friendly diagnostic control display
- Safety back-up contactors
- PLC control and display
- Thermostatically controlled heating
- Safety heater thermostat
- Low-watt density heater

DEX and DBP Series Options

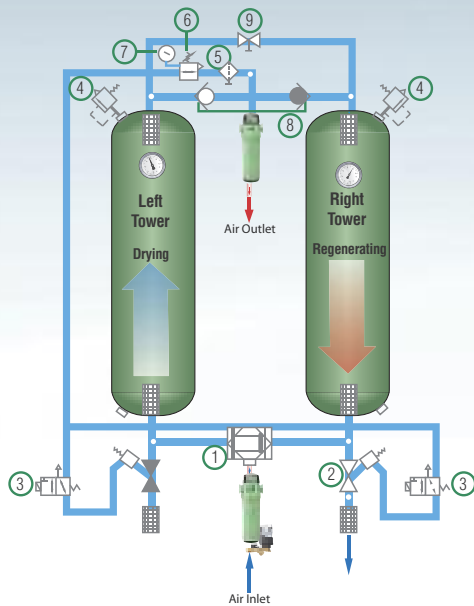
- Demand Cycle Control
- Pre-piped filter and bypass packages
- Low bed temperature shut off with light and contact
- High heater remote temperature alarm
- NEMA 4, 4x enclosures
- Visual moisture indicator
- 3 Valve and 9 valve bypass options
- Optional voltage
- Failure to shift alarm
- -4°F pressure dew point
- Purge flow meter
- Dew point monitoring system
- Low ambient package
- Microprocessor based controls/Modbus
- Sub zero ambient package



Bypasses allow maintenance of the dryer and/or filters without shutting down the entire air system. Other arrangements available on request.

Principle of Operation for Sullair's Desiccant Dryers

Desiccant Heatless



DHL drawing description:

- | | |
|-------------------------------------|----------------------------------|
| 1 Bi-directional inlet piston valve | 5 Control air filter |
| 2 Angle body purge exhaust valve | 6 Control air pressure regulator |
| 3 Purge pilot valve | 7 Pressure gauge |
| 4 Pressure relief valve | 8 Outlet check valve |
| | 9 Purge adjustment valve |

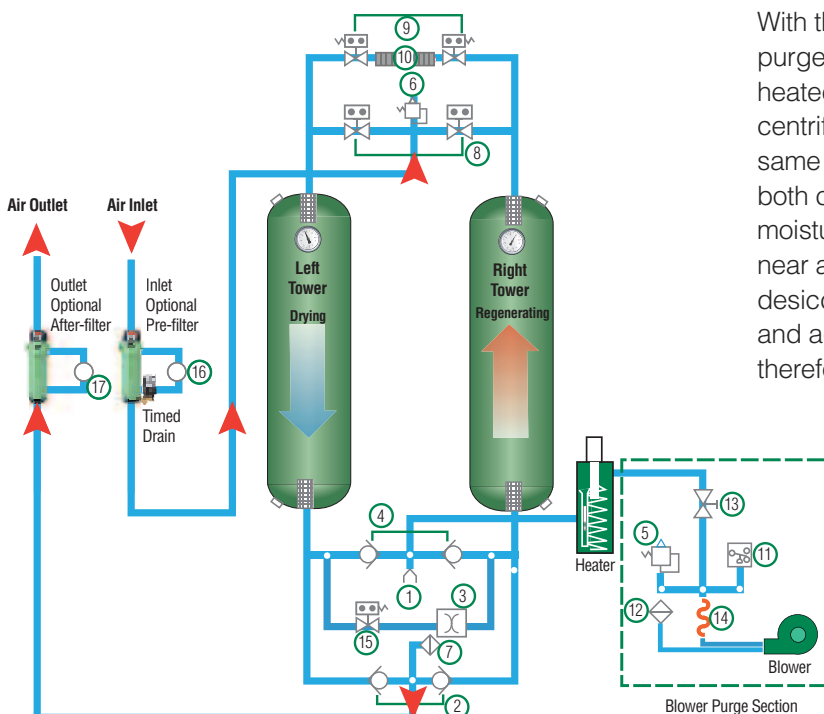
Principle of Operation for Desiccant Heatless Dryers

The dual tower design allows for continuous absorption of water from compressed air by using a hygroscopic high crush strength desiccant. Drying is accomplished by passing compressed air through the desiccant bed absorbing moisture while the other is being simultaneously regenerated with the expanded purge air.

Regeneration of the desiccant is accomplished without the use of heat. The wet bed is dried by diverting a small amount of dry air from the outlet at near atmospheric pressure. The purge flow rate is adjustable to suit the desired dew point. The dry air flows in a counter direction through the wet bed, sweeping all the water vapor previously absorbed by the desiccant.

Sullair ensures pressure equalization in the dual tower prior to switching. This prevents line surge and minimizes desiccant attrition. The tower being reactivated will be gradually re-pressurized at the end of its reactivation cycle before switchover takes place. Purge flow and de-pressurization are in downward direction, counter flow to the drying air flow.

DBP Heated



Principle of Operation for the Desiccant Externally Heated (DEX) and Desiccant Blower Purge (DBP)

With the DEX Dryer series, a small portion of the dry air is purged into a high quality, low watt density heater and heated to approximately 400°F. The DBP Dryer series uses a centrifugal blower to pull ambient air and pass it through the same high quality low density heater (drawing shown). In both cases the heated air has a greater affinity to absorb moisture and when passed through the regenerating tower at near ambient pressure, strips the moisture from the desiccant bed. The advanced controls monitor the dew point and adjust the heating and regeneration accordingly, therefore providing valuable energy savings.

DBP heated drawing description:

- | | |
|-----------------------------------|--|
| 1 Purge air thermocouple | 9 Purge exhaust valve |
| 2 Swing check valve | 10 Purge exhaust muffler |
| 3 Repressurization metering valve | 11 Blower safety pressure switch |
| 4 Purge check valve | 12 Blower intake filter silencer |
| 5 Blower pressure relief valve | 13 Blower purge adjustment globe valve |
| 6 Tower pressure relief valve | 14 Blower flex connector |
| 7 Control air filter | 15 Repressurization ball valve |
| 8 Inlet valve | 16 Pressure diff. indicator |
| | 17 Pressure diff. indicator |

Advantages of Sullair's Heated Desiccant Dryers

Advanced PLC Controller

A programmable PLC controller with back lit display is standard on all DHL series dryers. The controller is simple to use and comes standard with these great features:

- PLC Read Out
- Adjustable Cycle Time
- Filter Change Alarm
- Failure to Switch Contact
- Dew Point Monitoring Contacts
- Red Light Alarm Indicator



Optional Demand Cycle Controller - Dew Point Meter

The dew point transmitters are reliable, compact and provide continuous monitoring of the dryer performance. With available options, the monitors can be used as indicators, alarm units or controllers. Its simple but powerful interface permits the user to choose between multiple units, output data to a PC using the serial interface, set alarm levels and do field calibration of the sensor.



Desiccant Absorption

Sullair uses a high quality activated alumina desiccant for all desiccant dryer applications. The desiccant has high crush strength media with a very high surface / volume ratio.



To achieve alternative dew point the Sullair dryer uses a mixture of absorption media "Molecular Sieve" or "Silica gel application."

Butterfly Valve

These versatile valves provide precision control and bubble tight shut off. The digitally controlled actuators have easy PLC interface and feature fast response times. The tongue-and-groove seat design ensures complete isolation of the flowing media from the body and stem. Rugged and reliable, these valves are designed to provide years of trouble free service. The butterfly valve is carbon steel with stainless steel disc and staff.



(800 scfm and above)

High Efficiency Blower

The centrifugal blower is sized optimally to provide continuous air stream to the heater for regeneration.

The blower is equipped with:

- Intake filter
- Muffler for quieter operation
- Safety belt guard and check
- Relief valves for high-pressure safety



Angle Body Piston Valve

The high performance two-way direct acting valves are designed for reliability and durability. The valve uses a profiled disc in conjunction with a high-resolution compact positioned and linear feedback potentiometer to provide precise proportional flow. The stainless steel internals and a tough fiber composite actuator body, along with the use of oversized bearing and Viton seals makes it possible to consistently provide smooth piston movement for an extended time period.



Sullair's Heatless Desiccant Modular Dryers

Desiccant Modular Dryer (DMD) Standard Features

- Completely automatic
- Compact design
- -40°F pressure dew point
- Adjustable wall mounted
- Quick and easy connection
- Long lasting high quality components

Desiccant Modular Dryer (DMD) Options

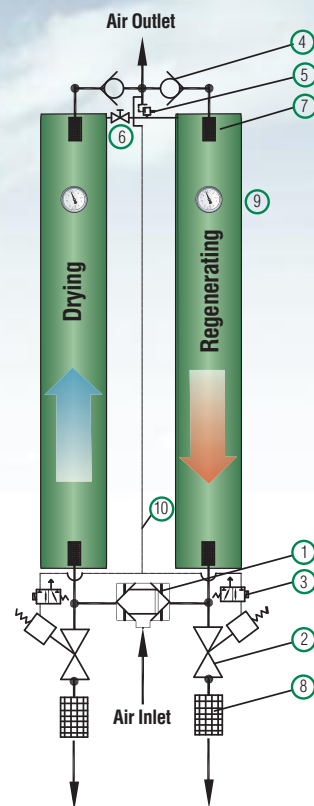
- Pre- and after-filter (shipped loose)
- Mounted filters with three valve bypass
- Visual Moisture Indicator
- Energy efficient Demand Cycle Control with dew point monitor
- Dew point monitor
- -4°F or -100°F pressure dew point



Desiccant Modular Dryer

DMD drawing description:

- 1 Inlet valve
- 2 Purge exhaust valve
- 3 Pilot valve
- 4 Outlet check valve
- 5 Pressure relief valve
- 6 Purge adjustment valve
- 7 Stainless steel inlet defuser
- 8 Purge exhaust muffler
- 9 Pressure gauge
- 10 Control air line



Specifications: Desiccant Modular Dryer

| Model | scfm | Inlet-Outlet Connection | Width in | Depth in | Height in | Weight lbs | Electrical | Pre-Filter | After-Filter |
|---------|------|-------------------------|----------|----------|-----------|------------|----------------------------|------------|--------------|
| DMD-3 | 3 | 1/2" NPT | 13 | 10 | 22 | 32 | 115 - 230 / 1 / 50 & 60 Hz | FXH-25 | FXFR-25 |
| DMD-5 | 5 | 1/2" NPT | 13 | 10 | 25 | 36 | 115 - 230 / 1 / 50 & 60 Hz | FXH-25 | FXFR-25 |
| DMD-10 | 10 | 1/2" NPT | 13 | 10 | 36 | 52 | 115 - 230 / 1 / 50 & 60 Hz | FXH-25 | FXFR-25 |
| DMD-15 | 15 | 1/2" NPT | 15 | 10 | 32 | 57 | 115 - 230 / 1 / 50 & 60 Hz | FXH-25 | FXFR-25 |
| DMD-20 | 20 | 1/2" NPT | 15 | 10 | 44 | 79 | 115 - 230 / 1 / 50 & 60 Hz | FXH-25 | FXFR-25 |
| DMD-25 | 25 | 1/2" NPT | 15 | 10 | 50 | 90 | 115 - 230 / 1 / 50 & 60 Hz | FXH-25 | FXFR-25 |
| DMD-30 | 30 | 1/2" NPT | 15 | 10 | 59 | 107 | 115 - 230 / 1 / 50 & 60 Hz | FXH-45 | FXFR-45 |
| DMD-40 | 40 | 1-1/2" NPT | 16 | 17 | 49 | 156 | 115 - 230 / 1 / 50 & 60 Hz | FXH-45 | FXFR-45 |
| DMD-50 | 50 | 1-1/2" NPT | 16 | 17 | 55 | 172 | 115 - 230 / 1 / 50 & 60 Hz | FXH-65 | FXFR-65 |
| DMD-60 | 60 | 1-1/2" NPT | 16 | 17 | 69 | 202 | 115 - 230 / 1 / 50 & 60 Hz | FXH-65 | FXFR-65 |
| DMD-75 | 75 | 1-1/2" NPT | 16 | 23 | 51 | 257 | 115 - 230 / 1 / 50 & 60 Hz | FXH-130 | FXFR-130 |
| DMD-100 | 100 | 1-1/2" NPT | 16 | 23 | 57 | 286 | 115 - 230 / 1 / 50 & 60 Hz | FXH-130 | FXFR-130 |
| DMD-120 | 120 | 1-1/2" NPT | 16 | 23 | 69 | 334 | 115 - 230 / 1 / 50 & 60 Hz | FXH-130 | FXFR-130 |
| DMD-180 | 180 | 1-1/2" NPT | 16 | 28 | 59 | 407 | 115 - 230 / 1 / 50 & 60 Hz | FXH-240 | FXFR-240 |
| DMD-240 | 240 | 1-1/2" NPT | 16 | 33 | 59 | 519 | 115 - 230 / 1 / 50 & 60 Hz | FXH-240 | FXFR-240 |

Specifications: Desiccant Heatless Dryer

| Model | scfm | Inlet-Outlet Connection | Width in | Depth in | Height in | Weight lbs | Electrical | Pre-Filter | After-Filter |
|----------|------|-------------------------|----------|----------|-----------|------------|------------|------------|--------------|
| DHL-80 | 80 | 3/4" NPT | 24 | 31 | 84 | 450 | 115-1-60 | FXH-130 | FXFR-130 |
| DHL-100 | 100 | 1" NPT | 24 | 31 | 84 | 550 | 115-1-60 | FXH-130 | FXFR-130 |
| DHL-125 | 125 | 1" NPT | 24 | 31 | 84 | 600 | 115-1-60 | FXH-130 | FXFR-130 |
| DHL-150 | 150 | 1" NPT | 24 | 33 | 84 | 650 | 115-1-60 | FXH-240 | FXFR-240 |
| DHL-200 | 200 | 1" NPT | 24 | 33 | 84 | 880 | 115-1-60 | FXH-240 | FXFR-240 |
| DHL-250 | 250 | 1-1/2" NPT | 24 | 39 | 87 | 1250 | 115-1-60 | FXH-350 | FXFR-350 |
| DHL-300 | 300 | 1-1/2" NPT | 24 | 39 | 87 | 1350 | 115-1-60 | FXH-350 | FXFR-350 |
| DHL-400 | 400 | 2" NPT | 26 | 45 | 89 | 1900 | 115-1-60 | FXH-475 | FXFR-475 |
| DHL-500 | 500 | 2" NPT | 26 | 45 | 89 | 2200 | 115-1-60 | FXH-700 | FXFR-700 |
| DHL-600 | 600 | 2" NPT | 26 | 45 | 89 | 2500 | 115-1-60 | FXH-700 | FXFR-700 |
| DHL-800 | 800 | 3" FLG | 40 | 66 | 93 | 2800 | 115-1-60 | FXH-1350 | FXFR-1350 |
| DHL-1000 | 1000 | 3" FLG | 40 | 66 | 93 | 4150 | 115-1-60 | FXH-1350 | FXFR-1350 |
| DHL-1250 | 1250 | 3" FLG | 40 | 70 | 93 | 4400 | 115-1-60 | FXH-1350 | FXFR-1350 |
| DHL-1500 | 1500 | 3" FLG | 40 | 70 | 93 | 4700 | 115-1-60 | FXH-1600 | FXFR-1600 |
| DHL-2000 | 2000 | 3" FLG | 40 | 76 | 97 | 4900 | 115-1-60 | FWH-2500 | FWFR-2500 |
| DHL-2500 | 2500 | 4" FLG | 50 | 93 | 109 | 5600 | 115-1-60 | FWH-2500 | FWFR-2500 |
| DHL-3000 | 3000 | 4" FLG | 50 | 93 | 109 | 8100 | 115-1-60 | FWH-3800 | FWFR-3800 |
| DHL-3500 | 3500 | 6" FLG | 64 | 118 | 117 | 8300 | 115-1-60 | FWH-3800 | FWFR-3800 |
| DHL-4000 | 4000 | 6" FLG | 64 | 118 | 117 | 10500 | 115-1-60 | FWH-5000 | FWFR-5000 |
| DHL-4500 | 4500 | 6" FLG | 64 | 120 | 122 | 11800 | 115-1-60 | FWH-5000 | FWFR-5000 |
| DHL-5000 | 5000 | 6" FLG | 64 | 120 | 122 | 14500 | 115-1-60 | FWH-5000 | FWFR-5000 |

Capacity Correction Factors

(for all Sullair Desiccant Dryers)

Correction factor for Inlet Air Pressure (F1)

| Inlet Pressure | psig | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 175 | 200 | 225 | 250 |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | bar | 3.5 | 4.1 | 4.8 | 5.5 | 6.2 | 6.9 | 7.6 | 8.3 | 9.0 | 9.7 | 10.3 | 12.1 | 13.8 | 15.5 | 17.3 |
| Factor Pressure: F1 | | 0.56 | 0.65 | 0.74 | 0.83 | 0.91 | 1.00 | 1.04 | 1.08 | 1.12 | 1.16 | 1.20 | 1.29 | 1.37 | 1.45 | 1.52 |

Correction factor for Inlet Air Temperature (F2)

| °F | 70 | 80 | 90 | 100 | 105 | 110 | 115 | 120 |
|------------|------|------|------|------|------|------|------|------|
| °C | 21 | 27 | 32 | 38 | 40 | 43 | 46 | 49 |
| Factor: F2 | 1.12 | 1.10 | 1.06 | 1.00 | 0.93 | 0.86 | 0.80 | 0.75 |

Air flow capacity = Nominal capacity of the dryer x Factor F1 x Factor F2.

Specifications: Desiccant Externally Heated Dryer

| Model | Inlet-Outlet | | Width in | Depth in | Height in | Weight lbs | Electrical | kW | Pre-Filter | After-Filter |
|----------|--------------|------------|-------------|-------------|--------------|---------------|------------|----|------------|--------------|
| | scfm | Connection | | | | | | | | |
| DEX-200 | 200 | 1" NPT | 34 | 35 | 92 | 950 | 460-3-60 | 3 | FXH-240 | FXRHT-240 |
| DEX-250 | 250 | 1-1/2" NPT | 34 | 36 | 92 | 1100 | 460-3-60 | 3 | FXH-350 | FXRHT-350 |
| DEX-300 | 300 | 1-1/2" NPT | 34 | 36 | 92 | 1250 | 460-3-60 | 5 | FXH-350 | FXRHT-350 |
| DEX-400 | 400 | 2" NPT | 45 | 47 | 92 | 1500 | 460-3-60 | 6 | FXH-475 | FXRHT-475 |
| DEX-500 | 500 | 2" NPT | 45 | 47 | 92 | 1600 | 460-3-60 | 7 | FXH-700 | FXRHT-700 |
| DEX-600 | 600 | 2" NPT | 45 | 47 | 92 | 2100 | 460-3-60 | 9 | FXH-700 | FXRHT-700 |
| DEX-800 | 800 | 3" FLG | 60 | 80 | 95 | 2500 | 460-3-60 | 11 | FXH-925 | FXRHT-925 |
| DEX-900 | 900 | 3" FLG | 60 | 80 | 95 | 2800 | 460-3-60 | 13 | FXH-925 | FXRHT-925 |
| DEX-1000 | 1000 | 3" FLG | 60 | 80 | 95 | 4100 | 460-3-60 | 15 | FXH-1350 | FXRHT-1350 |
| DEX-1250 | 1250 | 3" FLG | 60 | 80 | 110 | 4700 | 460-3-60 | 18 | FXH-1350 | FWRHT-1350 |
| DEX-1500 | 1500 | 3" FLG | 60 | 80 | 110 | 4900 | 460-3-60 | 20 | FXH-1600 | FWRHT-1600 |
| DEX-2000 | 2000 | 3" FLG | 62 | 80 | 110 | 5300 | 460-3-60 | 25 | FWH-2500 | FWRHT-2500 |
| DEX-2500 | 2500 | 4" FLG | 65 | 82 | 110 | 6200 | 460-3-60 | 25 | FWH-2500 | FWRHT-2500 |
| DEX-3000 | 3000 | 4" FLG | 65 | 82 | 110 | 7600 | 460-3-60 | 30 | FWH-3800 | FWRHT-3800 |
| DEX-3500 | 3500 | 6" FLG | 70 | 85 | 120 | 8300 | 460-3-60 | 38 | FWH-3800 | FWRHT-3800 |

Specifications: Desiccant Blower Purge Dryer

| Model | Inlet-Outlet | | Width in | Depth in | Height in | Weight lbs | Electrical | kW | Pre-Filter | After-Filter |
|-----------|--------------|------------|-------------|-------------|--------------|---------------|------------|-----|------------|--------------|
| | scfm | Connection | | | | | | | | |
| DBP-500 | 500 | 2" NPT | 45 | 71 | 92 | 2500 | 460-3-60 | 10 | FXH-700 | FXRHT-700 |
| DBP-650 | 650 | 2" NPT | 45 | 71 | 92 | 2750 | 460-3-60 | 12 | FXH-700 | FXRHT-700 |
| DBP-800 | 800 | 3" FLG | 60 | 93 | 95 | 4100 | 460-3-60 | 18 | FXH-925 | FXRHT-925 |
| DBP-1000 | 1000 | 3" FLG | 60 | 93 | 95 | 4500 | 460-3-60 | 24 | FXH-1350 | FXRHT-1350 |
| DBP-1250 | 1250 | 3" FLG | 60 | 93 | 95 | 8200 | 460-3-60 | 30 | FXH-1350 | FXRHT-1350 |
| DBP-1500 | 1500 | 3" FLG | 60 | 93 | 95 | 8200 | 460-3-60 | 36 | FXH-1600 | FXRHT-1600 |
| DBP-2000 | 2000 | 4" FLG | 65 | 106 | 109 | 9800 | 460-3-60 | 45 | FWH-2500 | FWFHT-2500 |
| DBP-2500 | 2500 | 4" FLG | 75 | 106 | 120 | 15000 | 460-3-60 | 50 | FWH-2500 | FWFHT-2500 |
| DBP-3000 | 3000 | 4" FLG | 75 | 106 | 120 | 15000 | 460-3-60 | 55 | FWH-3800 | FWFHT-3800 |
| DBP-3500 | 3500 | 6" FLG | 82 | 150 | 132 | 19000 | 460-3-60 | 60 | FWH-3800 | FWFHT-3800 |
| DBP-4000 | 4000 | 6" FLG | 94 | 160 | 132 | 19000 | 460-3-60 | 70 | FWH-5000 | FWFHT-5000 |
| DBP-5000 | 5000 | 6" FLG | 94 | 180 | 140 | 28000 | 460-3-60 | 80 | FWH-5000 | FWFHT-5000 |
| DBP-6000 | 6000 | 6" FLG | CF | CF | CF | CF | 460-3-60 | 90 | FWH-6500 | FWFHT-6500 |
| DBP-7000 | 7000 | 8" FLG | CF | CF | CF | CF | 460-3-60 | 105 | FWH-8300 | FWFHT-8300 |
| DBP-7500 | 7500 | 8" FLG | CF | CF | CF | CF | 460-3-60 | 125 | FWH-8300 | FWFHT-8300 |
| DBP-9000 | 9000 | 10" FLG | CF | CF | CF | CF | 460-3-60 | 135 | FWH-10000 | FWFHT-10000 |
| DBP-10000 | 10000 | 10" FLG | CF | CF | CF | CF | 460-3-60 | 140 | FWH-10000 | FXFHT-10000 |

Correction factor for Inlet Air Pressure (F1)

| | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inlet Pressure | psig | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 175 | 200 | 225 | 250 |
| | bar | 3.5 | 4.1 | 4.8 | 5.5 | 6.2 | 6.9 | 7.6 | 8.3 | 9.0 | 9.7 | 10.3 | 12.1 | 13.8 | 15.5 | 17.3 |
| Factor Pressure: F1 | | 0.56 | 0.65 | 0.74 | 0.83 | 0.91 | 1.00 | 1.04 | 1.08 | 1.12 | 1.16 | 1.20 | 1.29 | 1.37 | 1.45 | 1.52 |

Correction factor for Inlet Air Temperature (F2)

| | | | | | | | | | |
|------------|----|------|------|------|------|------|------|------|------|
| | °F | 70 | 80 | 90 | 100 | 105 | 110 | 115 | 120 |
| | °C | 21 | 27 | 32 | 38 | 40 | 43 | 46 | 49 |
| Factor: F2 | | 1.12 | 1.10 | 1.06 | 1.00 | 0.93 | 0.86 | 0.80 | 0.75 |

Air flow capacity = Nominal capacity of the dryer x Factor F1 x Factor F2.

Sullair Air Quality Guarantee

Two Levels of Air Quality

Sullair recognizes that the requirements for air quality vary according to each compressed air application. For this reason, Sullair provides compressed air systems that achieve two distinct levels of air quality and a guarantee for each.

Sullair Stationary Air Power System

The Sullair Stationary Air Power System matches a Sullair compressor, a Sullair dryer and Sullair filters. Sullair assures that its System 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.

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.



The Sullair Oil-Free Air Quality Guarantee

The System consists of a Sullair compressor, Sullair dryer, and Sullair 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 oil vapor and Class 1 for particulate) for air quality.

The Sullair Critical Air Quality Guarantee

The compressed air from this Sullair System exceeds the ISO standard (ISO 8573.1, Class 1 for oil vapor and Class 1 for particulate). The System includes a Sullair compressor, Sullair dryer, and Sullair 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 parts per million by weight (ppm/w) @ 70°F. The remaining oil vapor content is less than 0.003 ppm/w.

To get more information on Sullair's Air Quality Guarantee, please contact your Sullair distributor.

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.

The Sullair Warranty

All Inclusive "Peace of Mind" Warranty

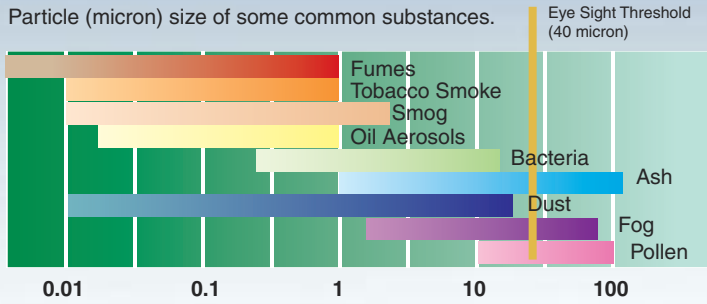
Sullair backs our commitment to quality with an unparalleled, non-prorated 5-year warranty (*parts and labor*) on the major components. No other manufacturer offers a warranty that is as all inclusive. (Note: a Sullair pre-filter must be installed upstream of the dryer as a prerequisite for this warranty.)



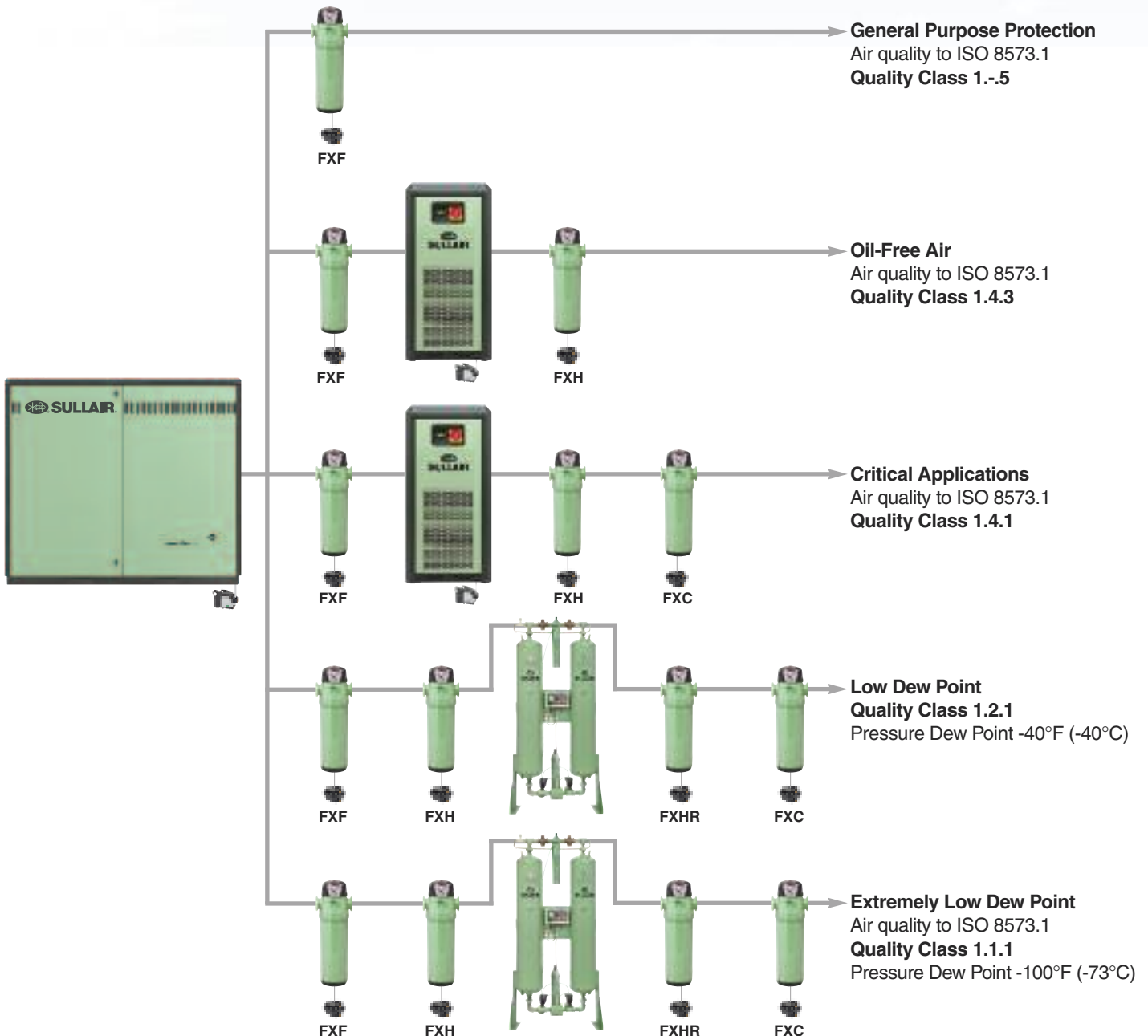
ASME / CRN
Approval



Air Quality Standards ISO 8573.1 Classes



| Class | Solid Particle Maximum number of particles per m ³ | | | Pressure Dew Point °F | Oil (incl. vapor) mg/m ³ |
|-------|---|-----------------|-----------------|-----------------------------|---|
| | 0.1-0.5 micron | 0.5-1 micron | 1.0-5 micron | | |
| 1 | 100 | 1 | 0 | -94 | 0.01 |
| 2 | 100,000 | 1,000 | 10 | -40 | 0.1 |
| 3 | - | 10,000 | 500 | -4 | 1.0 |
| 4 | - | - | 1,000 | 37 | 5.0 |
| 5 | - | - | 20,000 | 45 | - |
| 6 | - | - | - | 50 | - |



Sullair's Compressed Air Products

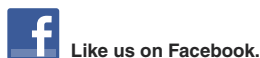
www.sullair.com




Fundamental to Sullair's leadership is a dedication to reduce not only the amount of natural resources consumed to create energy, but to minimize environmental impact, in both the manufacture and use of all our products. We are constantly exploring new ideas and seeking new technologies to meet the ever-increasing need for high quality, energy-efficient compressed air products and environmental sustainability.



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