



COMPRESSED AIR
Clean, Dry Air System

**Moisture, Oil and Particulate
Contamination Removal**



**Sullair SMC
Solves the Problem**

Sullair SMC air dryers.

Your compressed air system will contain water, dirt, wear particles and even degraded lubricating oil which mix together to form an unwanted condensate. This often acidic condensate wears tools and machinery, blocks valves and orifices causing high maintenance and costly air leaks. It can corrode piping systems and bring your production to an expensive standstill!

While the use of high efficiency compressed air filters fitted with condensate drains will remove oil, water and dirt particles, in many cases this is not enough. Modern production systems and processes demand an even higher level of air quality. "Point of use" desiccant dryers can provide the correct air quality, without the need for drying the complete compressed air installation, which can be costly and unnecessary.

- The foremost feature of the **Sullair SMC** desiccant air dryers are integrated filters and desiccant in a single cartridge which can be easily changed. This and the in-line air connections allow for easy maintenance.
- **Sullair SMC** desiccant air dryers offer uncompromised performance from a dedicated "point of use" compressed air drying system.
- Easy to install, **Sullair SMC** dryers will transform an ordinary process into a highly efficient and reliable operation.
- **Sullair SMC** dryers clean and dry the compressed air down to -40°F (-40°C) pressure dewpoint, meeting the requirements of ISO 8573.1 Class 1.2.1. as standard. For critical applications, a pressure dewpoint of -100°F (70°C) ISO 8573.1 Class 1.1.1. is achievable.



Sullair SMC features

Top End Repressurization—ensuring uninterrupted compressed air at all times.

Electronic display providing high visibility LED indication with an internal audible alarm.



Alarm reset facility to cancel the audible alarm for 24 hours while replacement components are sourced.

ISO7000 inlet and outlet symbols cast into the top cover ensure correct piping installation.

High efficiency inlet filter.

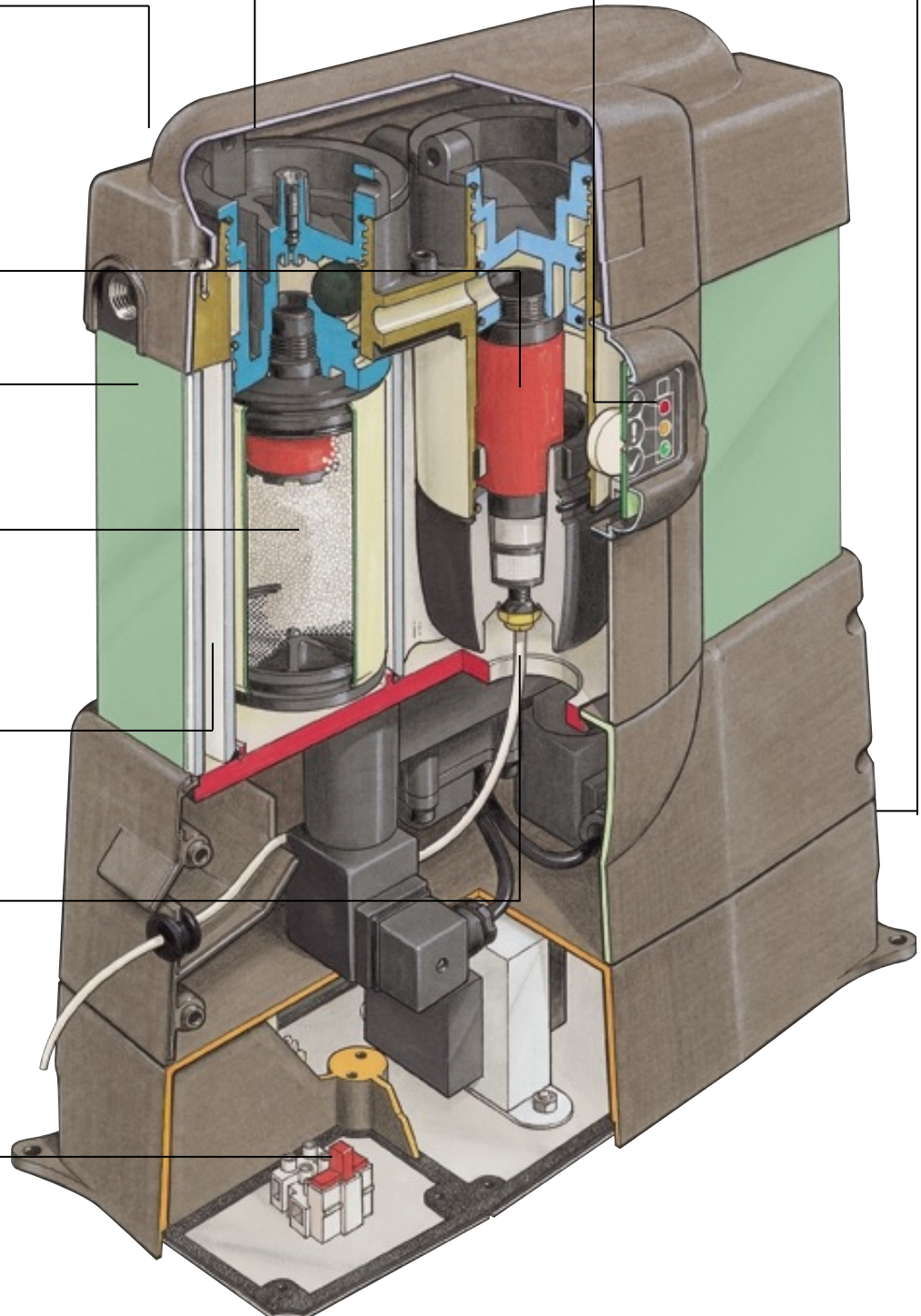
Corrosion protection by alocrom and epoxy painting.

One Desiccant/Filter Cartridge per column contains desiccant and particulate filter.

Patented high tensile extruded aluminum column with twin dryer chambers.

Positive removal of prefilter condensate by piping away for remote collection.

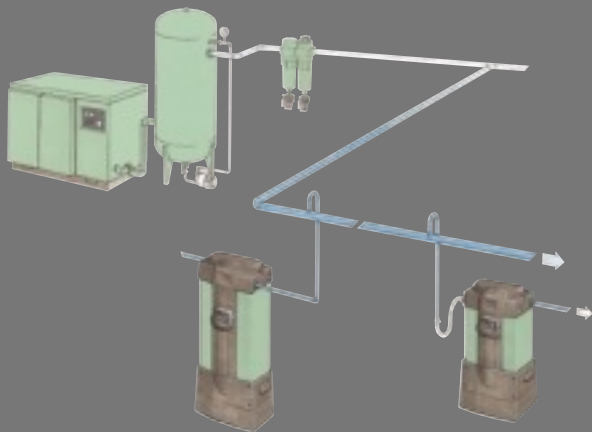
Easy access to electronic control box for main connection.



Benefits

- **Point of use application**
Bringing clean dry air just where you need it.
- **Approved for international standards**
Designed in accordance with ASME VII Div. 1, approved to CSA/UL/CRN and fully CE marked (PED, EMC, LVD) as standard.
- **Simple to install**
Flexible installation utilizing the multiple in-line inlet and outlet connection ports.
- **Compact and lightweight**
Can be floor, bench or wall/canopy mounted.
- **Very quiet operation**
Noise level less than 75dB(A).
- **Can be installed almost anywhere**
IP66/NEMA 4 protection is standard.
- **Audible alarm**
Indicating service interval for optimal performance.
- **Simple and easy to maintain**
Full operational service can be achieved in under 15 minutes due to the quick release top cap arrangement, which does not require the inlet/outlet ports to be disconnected as with traditional systems.

The Sullair SMC dry air system is the reliable, cost effective and flexible way to provide clean dry air precisely where you need it.



Options

- For quieter operation, the regeneration exhaust air can be piped away.
- Remote indication provides a warning of the dryer's need for servicing. (Audible alarm included)
- Wall mount kit for vertically securing the dryer to a wall or canopy.
- A 45° tilt, wall mounting kit is also available for vertically securing the dryer to the wall, canopy or inside a product where access to the top of the dryer is restricted.
- In conditions of limited access, the electronic control box (base) can be detached and relocated remotely from the dryer.
- -100F (-70C) ISO 8573.1 Class 8573.1 is available for extreme dry air requirements.



Electronic control box can be remotely located.



Tilt mounting kit facilitates easy cartridge replacement in restricted access applications.

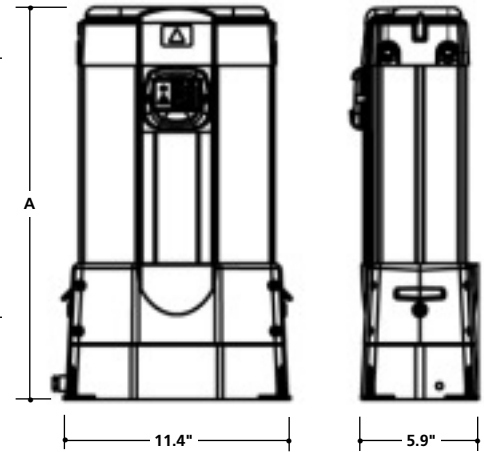


Seven SMC models available.

Specifications

Model	Capacity @100 psig	Air In/Out	Dimensions (In.) A	Weight (lbs.)
SMC-3	3	3/8" NPT	16.6	24.3
SMC-5	5	3/8" NPT	19.7	28.7
SMC-8	8	3/8" NPT	24.3	35.3
SMC-10	10	3/8" NPT	27.2	39.7
SMC-13	13	3/8" NPT	33.3	44.1
SMC-15	15	3/8" NPT	35.7	50.7
SMC-20	20	3/8" NPT	43.2	61.7

Maximum operating pressure	174 psig
Minimum operating pressure	58 psig
Maximum operating temperature	122°F
Minimum operating temperature	35°F



Pressure Correction Factor

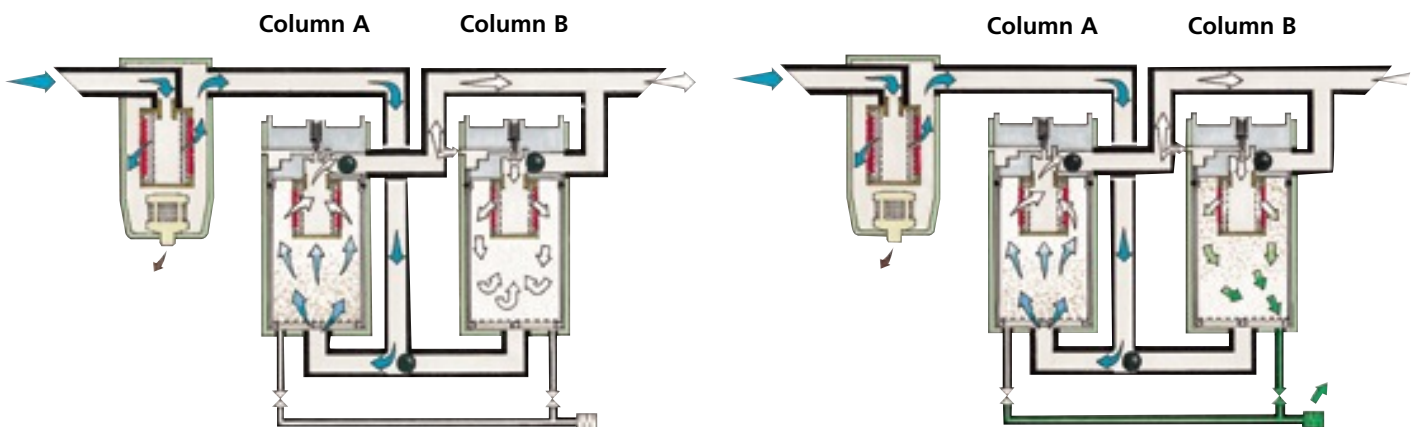
Minimum Inlet Pressure		Maximum Inlet Temperature °C (°F)			
psi g	bar g	95 (35)	104 (40)	113 (45)	122 (50)
58	4	0.63	0.61	0.55	0.46
73	5	0.75	0.73	0.66	0.55
87	6	0.88	0.85	0.77	0.64
102	7	1.00	0.97	0.88	0.73
116	8	0.97	0.94	0.85	0.71
131	9	1.08	1.05	0.95	0.79
145	10	1.18	1.14	1.04	0.86
160	11	1.29	1.25	1.14	0.94
174	12	1.40	1.36	1.23	1.02

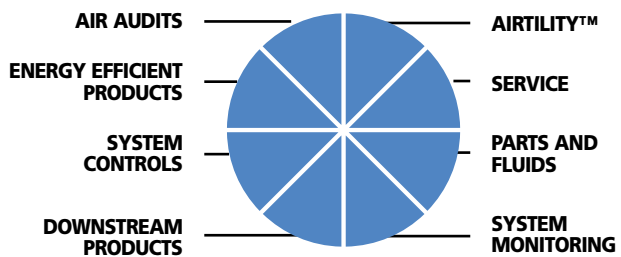
How it works

1. Compressed air enters the integral pre-filter and passes into the left chamber (column A) where the air is dried before passing to the application.

A small amount of dry purge air is used to regenerate the right chamber (column B), which is wet, using a pressure swing absorption method of regeneration, venting the saturated air to the atmosphere under pressure. The same regeneration air is also used to "back flush" the integral filter to prolong its working life.

2. Prior to changeover, the right chamber (column B) enters repressurization where the exhaust valve is closed to allow pressure to increase. The process ensures a smooth uninterrupted changeover, preventing the loss of any system pressure, before the process repeats itself.





Your compressed air solutions... made simple by Sullair.

Sullair offers AirMetrix solutions to help compressed air users reduce their energy costs and improve their productivity by analyzing, managing and controlling total compressed air systems.

For information on Sullair products and services, please contact your local Sullair distributor.



www.sullair.com

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