

SANPAR DESICCANT AIR DRYER



SANPAR has the expertise and proven track record to design and manufacture dryers to supply clean dry air using the techniques of Adsorption process.

Adsorption dryers could be categorized in to additional categories:

- ❑ Pressure Swing Adsorption / Heatless Dryers
- ❑ Heat of Compression Dryers
- ❑ Blower reactivated Air Dryers
- ❑ No- purge- loss Adsorption Dryers

Adsorption dryers are tailor designed to meet the individual requirements:

- ❑ The quality of dryness required for a particular application,
- ❑ The type of Air Compressors used – Lubricated or Non Lubricated
- ❑ Operating pressures
- ❑ Operating temperatures

Working Principle of Desiccant Air Dryer:

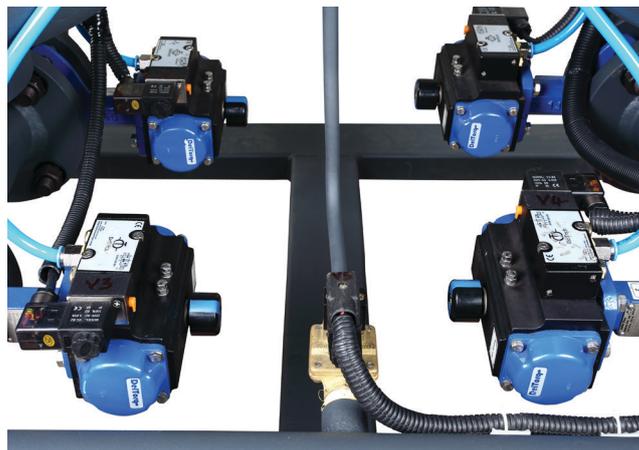
The heart of the Adsorption dryers consists of Desiccants, Pressure vessels, Directional Valves and the control logic. The desiccants deployed are Molecular sieves, Activated Alumina or Silica gel. The dryers can be designed to deliver bone dry air up to the dryness of -70°C , measured at atmospheric pressure.

5 Minute cycle (control cycle for adsorption, regeneration and pressure build-up) requires less regeneration energy than dryers with shorter cycles and saves adsorbents due to the lower number of load changes.

Desiccant change is possible via filler and drain ports provided at the Top and Bottom.

Salient Features of SANPAR Desiccant Air Dryer:

- ❑ Capacity range: 5 CFM to 10,000 CFM
- ❑ Twin tower desiccant dryer.
- ❑ Operating pressures from 6 bar g to 400 bar g.
- ❑ Better reliability of drying cycle
- ❑ Compact design leading to low footprint
- ❑ Least power consumption
- ❑ Low pressure drop across dryer at 0.2 bar
- ❑ PDP is constantly maintained at desired conditions throughout the cycle.
- ❑ Lower noise levels
- ❑ Renowned make of flow control valves for trouble free and continuous operation.
- ❑ Online pressure dew point as optional

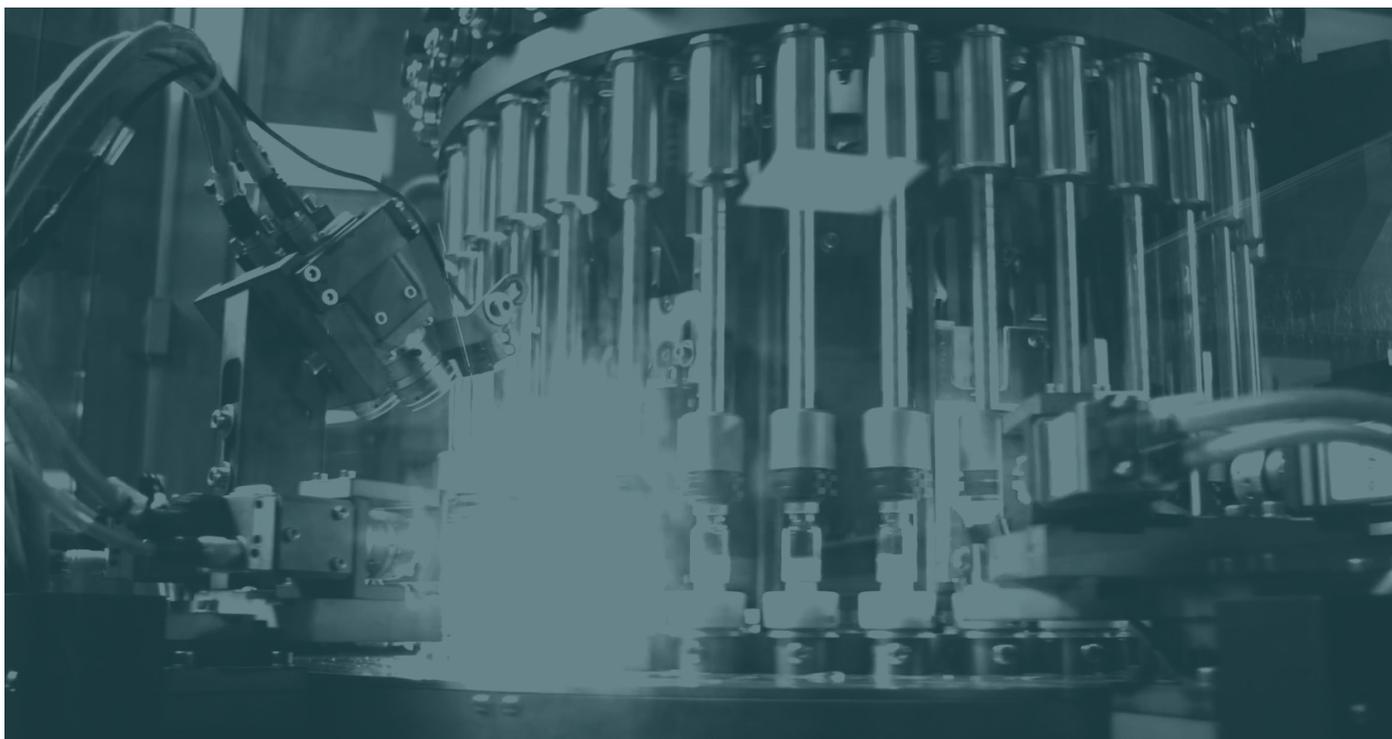


General Technical Specification

- ❑ Operating Pressure : 7 Bar g
- ❑ Air Inlet Temperature : 45°C
- ❑ Pressure Dew Point : -40°C

Industry

Aerospace	Automobile	Electronics
Food & Beverage	Foundry	Pharmaceutical



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