

Desiccant dryers

Pure protection for your production

pneumatech

Pure air . Pure gas

Since 1966, USA based Pneumatech has delivered industry-leading compressed air and gas treatment solutions to some of the most state-of-the-art production facilities all around the globe. Our innovative desiccant dryers give customers efficient protection against the presence of any humidity in the air, which often is the source of:

- Corrosion, pollution and leakage of the airnet.
- Decreased efficiency of equipment/tools.
- Freezing of water in the airnet.

By reducing these problems, Pneumatech desiccant air dryers increase efficiency and productivity, ensure an extended life span of your equipment and tools and guarantee the top quality of your end product.

Desiccant dryers prevent corrosion, leaks and pollution

Pure protection

Your processes need to be protected at all costs. That's why you need a reliable source of clean, dry air. Pneumatech is an ISO 9001:2008 certified manufacturer. We fully understand your industry's regulatory and environmental concerns. Our desiccant dryers will protect your processes, your products, and your reputation.

Pure profitability

We aim to deliver consistently high-quality products and services that contribute to your bottom line. Our refrigerated dryers are designed to drive down your manufacturing costs and energy use. We continually invest in exceptional manufacturing, quality, service and innovation to help you save energy and money, year after year.

Pure production

Maximizing your productivity is one of Pneumatech's core objectives. Our superior solutions add value to your production processes while consuming the least energy possible. Our refrigerated dryers are extremely reliable to keep your production up and running optimally.

Food & Beverage

Pneumatech desiccant dryers are used worldwide for filling equipment for drinks, closing and checking devices, piping transportation, bulk packing systems, palletting machinery, and graining and peeling processes.

Electronics

Compressed air is indispensable for the electronics industry. As a power source, it does not interfere with electrical monitoring equipment.

Power generation

In vapor-sensitive environments in the power generation industry it is crucial to keep liquids away from electrical applications, to reduce the risk of short circuits, electrical shocks or reduced production efficiency.

General industry

Pneumatech desiccant dryers are used within most small or large industries to secure the packaging of products, product assembling, surface cleaning or air supply to machinery.

Oil & gas

Compressed air is often the only power source in some oil & gas facilities as it can be used where other energy types cannot, due to explosion hazard or fire risk.

Quality air solutions to improve your productivity and efficiency

A desiccant dryer uses desiccant material to adsorb and remove the humidity from compressed air. With this method a pressure dew point as low as -73°C/-100°F can be reached. A desiccant dryer should be used when the ambient temperature goes below freezing point, to avoid ice forming in pipes and applications. Pneumatech offers three types of desiccant dryer.

PH heatless desiccant dryers

Incorporating high-quality components, PH heatless desiccant dryers provide you with clean, dry air to extend the life of your equipment and products. Heatless desiccant dryers use the compressed air to remove any moisture from the desiccant material.

- Long contact time, low bed velocity, minimal leakage.
- High reliability and robust design.
- Low noise levels when purging.

What makes PH heatless desiccant dryers unique?

- Purelogic™ advanced control with remote start/stop and web monitoring.
- High-quality, 2-way pilot-operated inlet switching valves.
- Free contact to link dryer operation to compressor load cycles.
- Adjustable purge control (not for CE markets).
- Status memory to resume operation where dryer left off.
- Wide range of options such as PDP sensor and PDP -70°C/-100°F kit.

PB blower purge desiccant dryers

Delivering superior performance and durability along with exceptional drying power, Pneumatech's blower purge dryers add extra value to your operation by conserving compressed air and extending desiccant life. Blower purge means that ambient air is used for the regenerative process, which reduces your energy bill.

- Pressure dew point down to -40°C/-40°F.
- Only slight dew point spikes at tower switch-over.
- Minimal air loss during polishing cycle.

What makes PB blower purge desiccant dryers unique?

- Purelogic™ advanced control with remote start/stop and web monitoring, standard on all models.
- Quality butterfly and check valves with SST discs.
- Low kW centrifugal blower with safety alarm.
- Tower switching based on real-time dew point.
- Galvanized piping with flanged connections.
- Wide range of options such as PDP -70°C/-100°F kit and sonic nozzle kit.

PE heated desiccant air dryers

With distinctive, patented technological innovations and energy saving capabilities, Pneumatech's PE heated desiccant dryers provide efficient solutions to meet the needs of any customer application. Heated desiccant means that the towers are heated up to reduce the amount of purge air used for regenerating the desiccant.

- Pressure dew point down to -40°C/-40°F.
- Low purge rate: 7%.
- Low kW heating system.

What makes PE heated desiccant dryers unique?

- Purelogic™ advanced control with remote start/stop and web monitoring, standard on all models.
- Galvanized piping with flanged connections.
- Quality butterfly and check valves with SST discs.
- Thermostatically controlled, low wattage heating element.
- Wide range of options such as PDP -70°C/-100°F and sonic nozzle kit.

Optimum installation: the Pneumatech way

A proper installation of a desiccant dryer should also include a Pneumatech filter prior to the dryer's inlet to protect the cooling system of the dryer from any oil content. In addition, depending on your specific application and the sensitivity of the machinery, Pneumatech after-filters are also highly recommended (after-filters are standard for PH, PE and PB dryers but often need to be complemented with a carbon filter/tower).

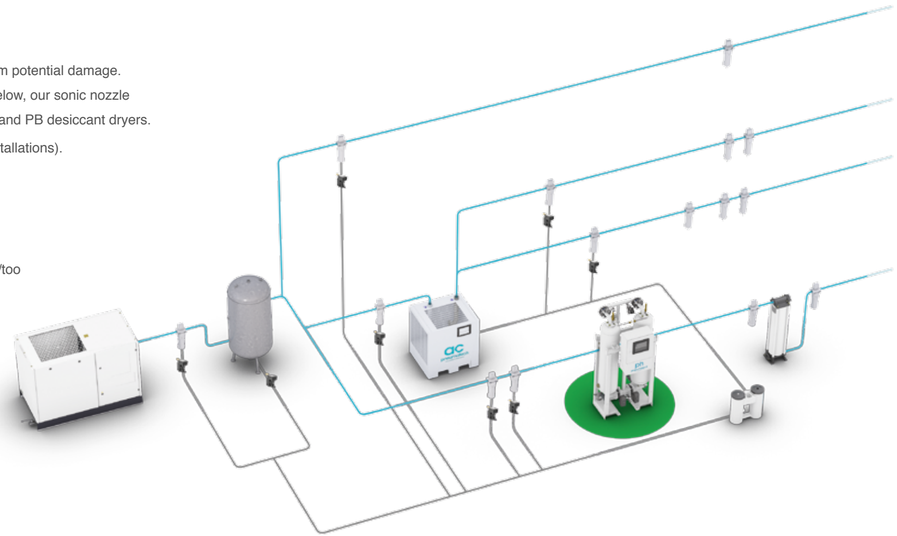
Don't forget that a Pneumatech condensate drain is needed for the compressor, tank, dryer and filters, to take care of the air drained water.

This system overview gives a good indication of what a Pure Pneumatech general industry installation could look like.

Optional sonic nozzle

It is important to protect the desiccant material from potential damage.
If your production is characterized by the points below, our sonic nozzle option is recommended. It is available for PH, PE and PB desiccant dryers.

- No 1-to-1 set-up (multiple compressor/dryer installations).
- Air used at low pressure (e.g. pipe line drying).
- Regular start/stop.
- Continuously fluctuating air demand.
- Standby compressor without standby dryer.
- Incorrectly dimensioned dryer (too high air flow/too low working pressure).



Purelogic™ is standard on PE and PB dryers, optional on the PH range.

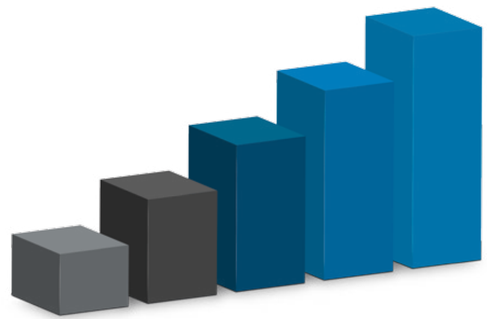
Control and monitor your dryer

The Purelogic™ is the ideal complement to your desiccant dryer. This state-of-the-art control solution will provide optimal control and monitoring of your machines, increased reliability and reduced energy use. Purelogic™ is standard on PE and PB dryers, and is optional on the PH range.

- Easy to use – Purelogic™ incorporates a 3.5" high-definition color display with a multilingual user interface, clear icon indications and Ethernet connectivity.
- Control & monitoring – Purelogic™ displays & controls all parameters to ensure reliable operation of your desiccant dryer.
- Reliable – Heatless backup mode (PE/PB) and choice for auto restart after power failure.
- Safeguards production – Offers a number of alarms that gives the customer the information needed for safe operations.

Purelogic™ features & benefits

- Trending, counters and service indicators.
- Preventive maintenance warnings.
- Remote web monitoring capabilities.
- Robust & easy to use key pad.
- Remote start/stop capabilities.
- Automatic restart after power failure.



Globally present. Globally certified

Pneumatech was founded in Kenosha, Wisconsin, USA in 1966 and has grown continuously. At the start of this century Pneumatech expanded into compressed air and gas treatment and industrial nitrogen generation markets. It currently has production sites in the USA, Europe and China. In 2010 Pneumatech received ISO 9001 and ISO14001 certification, and OHSAS 18001 certification in 2011.

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www.pneumatech.com

The colour of the actual products may vary from the color shown in this brochure. Slight differences in detail might appear.