Making Compressed Air and Gas Work Better
Van Air Systems is a global leader in the design and manufacturing of products for the treatment of compressed air and gas.

Since the company’s founding in 1944, the employees of Van Air Systems have proudly built a reputation for innovation, quality, and superior customer service. Based in Lake City, Pennsylvania, Van Air Systems manufactures a wide range of dryers, filters, desiccants and accessories for removing contaminants from compressed air and natural gas. Having served tens of thousands of customers in virtually every industry, Van Air Systems and its extensive network of factory-trained distributors are uniquely prepared to deliver the world’s finest solutions for cool, clean, and dry compressed air and gas.

Compressed Air: Industry’s Fourth Utility

Compressed air is an essential utility in virtually all industrial settings. Compressed air is a safe and convenient power source for everything from basic handheld tools to sophisticated plant automation. In addition, compressed air is often utilized as a process medium, whether serving as a feed stock for nitrogen generation, conveying bulk materials, or propelling abrasive grit.

Yet unlike other utilities – water, electricity, natural gas – the consumer of compressed air is responsible for its supply and quality. Unfortunately, every air system is subject to contamination. Contaminants take the form of particulates, oil, and water. Particulates come from corroding pipes, desiccant dust, and dirt. Lubricated compressors introduce oil into air systems. Water, the most troublesome contaminant, enters air systems as vapor through the compressor intake. As cooling occurs downstream of a compressor, vapor condenses into harmful liquid water. Air system contamination can lead to down time, product spoilage, and high maintenance costs.

Fortunately, Van Air Systems has the solution. With decades of experience and a wide product range, Van Air Systems delivers cool, clean, and dry compressed air.

Natural Gas: Clean and Abundant

Natural gas is a clean burning and increasingly abundant fuel. Yet when natural gas emerges from the ground it is saturated with water vapor. Water laden natural gas poses a variety of challenges for energy companies, from pipeline corrosion, to freezing, to poor combustion quality.

Van Air Systems produces a range of natural gas drying and filtering products, helping energy producers, processors, and transporters operate smoothly and trouble free.
Application Versatility

Deliquescent dryers are used in a wide range of applications, from portable compressed air drying, to pneumatic conveying, to shop air, to biogas, landfill gas, and natural gas. Here two D54 dryers dehydrate landfill gas that heats a nearby building.

D Series Deliquescent Dryers

D Series single tower deliquescent dryers are the simplest type of air dryer available. No power required. No moving parts. Install a D Series dryer virtually anywhere. Indoors. Outside. On a mobile vehicle. In a dusty, dirty, or hazardous environment. D Series dryers are as tough as they are simple.

Common uses for D Series dryers include: low pressure pneumatic conveying, intermittent flows and points-of-use, paint booths, blast pots and cabinets, rail yards, biogas, ready mix plants, gas compressor stations, saw mills, and many more.

PLD Series Natural Gas Dryers

PLDs are specially designed deliquescent dryers for use in the natural gas industry. These dryers are used to remove water vapor in a variety of applications, from the wellhead to the transmission line.

Most often PLD dryers are used to remove harmful water vapor from fuel for powering a range of field equipment such as generators, compressors, and turbines. With no emissions and no moving parts, PLD dryers are also used in environmentally sensitive locations to replace Triethylene Glycol (TEG) based dehydrators.

Deliquescent Desiccant For Drying Compressed Air and Natural Gas

Deliquescent (deli-kwes-sent) means to dissolve. A desiccant is any drying agent. So deliquescent desiccant is a drying agent that dissolves.

Van Air Systems is the original and leading manufacturer of tableted deliquescent desiccants. These small white tablets have a powerful affinity for water vapor and are used to dry compressed air and other gases. A dryer using deliquescent desiccant requires no power and has no moving parts. Dew point suppressions between 20ºF and 63ºF are achievable.

Van Air Systems produces three grades of deliquescent desiccant: Dry-O-Lite, SP and 10 BF. Dry-O-Lite is the leading deliquescent for drying compressed air and most commonly used with our D Series and Blast Pak dryers. SP and 10BF are typically reserved for natural gas dehydration applications and used with PLD Series natural gas dryers.

Moisture BOSS Simplest, most cost effective point-of-use dryer

The Moisture BOSS is the simplest, most cost effective point-of-use compressed air dryer available anywhere. The secret is in Dry-O-Lite desiccant, which lasts longer and costs less than any other desiccant. The Moisture BOSS operates for 300 hours or more before requiring a small top-off of new Dry-O-Lite tablets. That’s 12 times the operating life of the nearest competing dryer! With the Moisture BOSS you will spray paint, sandblast, run tools, or plasma cut for months and even years before needing new desiccant.

vanairsystems.com
Portable Air Treatment

Think portable. Think Rental Tough. The Blast Pak, Prep40, and Cool Prep series are Van Air Systems range of portable compressed air treatment solutions for the equipment rental market. These systems cover a wide number of applications, from temporary plant air back-up to mobile abrasive blasting and painting.

Blast Pak
Portable Deliquescent Drying Package

The Blast Pak is as close to fool proof as an air dryer gets, with just one moving part (an air motor) and no power requirement. Just hook-up air lines and begin blasting. The Blast Pak is a completely portable single tower deliquescent drying package engineered specifically for blasting and painting contractors. The Blast Pak prevents clogged pots, over consumption of abrasive, flash rusting, and costly rework. Five models are available, from 250 to 1600 SCFM.

Prep 40
Portable Compressed Air Treatment System

A completely portable compressed air treatment package engineered specifically for the demands of the equipment rental industry. Under the harshest conditions the Prep 40 still meets the most stringent compressed air quality standards, with the ability to deliver a pressure dew point of -40°F, residual oil content of .008 ppm and removal of particulates greater than 1 micron. The Prep 40 is ideal for supplying back-up compressed air treatment to a wide range of industrial facilities, such as power plants, refineries, and advanced manufacturers. Simple. Tough. Portable.
Heatless Regenerative and Inline Desiccant Dryers

Van Air Systems manufactures a diverse range of heatless regenerative compressed air dryers, from 3 to 2000 SCFM. All Van Air Systems heatless dryers deliver ultralow dew points of -40°F to -100°F.

**MHL**

MHL Series dryers are compact, lightweight, and affordable. These small heatless dryers are ideal for laboratory, point of use, and OEM applications. MHL Series dryers are available from 3 to 50 SCFM and deliver dewpoints from -40°F to -100°F.

**HLS**

HLS Series dryers are heavy duty industrial grade heatless dryers for delivering dew points from -40°F to -100°F. Simple controls and a rugged design make every HLS dryer easy to operate and easier to service. HLS Series dryers are available from 55 to 150 SCFM.

**HLSX**

HLSXA and HLSXG dryers are designed for safe operation in Class 1 hazardous zones, with a NEMA 4/7 control enclosure and explosion proof control solenoid valves. HLSXA dryers are intended for use with compressed air, while HLSXG dryers are intended for use only with natural gas. Models are available from 55 to 150 SCFM.

**HL**

HL Series heatless dryers feature Van Air Systems’ proprietary 3-way inlet shuttle valve, with Interlock Logic. This valve has been field tested to more than 1 million cycles, and has been at the heart of Van Air Systems heatless dryers for more than thirty years. HL Series dryers are the most reliable and durable industrial heatless dryers available anywhere. Standard models are available from 200 – 2000 SCFM. Larger units are available upon request.

**ID**

**Inline Desiccant Dryers**

ID Series inline desiccant dryers offer a simple solution for point of use and intermittent flow applications. Models ID15-SW and ID15-IND are cartridge based dryers with no moving parts, no power requirement, and no tools required for service. Model ID-35 holds a larger charge of desiccant for an extended service cycle.
Filters and Replacement Elements

Van Air Systems coalescing and particulate filters are designed to remove particulate and aerosol contaminants from compressed air and gas systems. Van Air Systems offers several filter series to accommodate a wide range of pressure and flow requirements.

F200
Compressed Air and Gas

Van Air Systems F200 Series coalescing and particulate filters are designed to remove contaminants from compressed air and gas systems. F200 Series filters are available with ¼” to 3” NPT connection sizes and flow capacities from 15 to 1250 SCFM at 100 psig and 9 filtration grades. F200 housings are made of cast aluminium with internal electrophoretic and exterior powder coatings for corrosion resistance. Each F200 filter includes a simple push-on element and pop-up differential pressure indicator.

F101
ASME Code

F101 Series filters are heavy duty fabricated steel vessels designed and constructed per the ASME Code. Models are available for 500 to 20,000 SCFM at 100 PSIG with a range of threaded and flanged connections.

Van Air Systems Elements
Uncompromising Quality

Van Air Systems is the original manufacturer of elements used in its filters housings. Each filter element is built for the toughest application. Stainless steel support cores provide superior strength. Unlike competitors, Van Air Systems elements do not use foam outer layers that synthetic lubricants easily dissolve. Van Air Systems polyester outer layer holds up to all compressor oils. Our elements use no complicated tie rods or fasteners. With a push-to-fit design, replacing a Van Air Systems filter element is quick and easy.
Automatic Drain Valves and After-Coolers
Van Air Systems manufacturers a variety of air system accessories for cooling compressed air and draining condensate. Proper cooling is the first and most important step in the air treatment process. A properly sized cooler removes up to 70% of the moisture in a compressed air system.

EDV
Solenoid Drain Valve
The inexpensive EDV Solenoid drain valve automatically removes condensate from your air system and has an integral strainer to prevent clogging. Save time and money by eliminating the need for manual draining. EDV series drain valves can be set for your operating conditions.

PDV-500
Pneumatic Drain Valve
The PDV-500T is a heavy duty zero loss drain valve that saves energy. No electricity needed for operation. The PDV-500T is suited for remote or portable applications and is safe to operate in a hazardous area.

MDV-400
Motorized Drain Valves
Van Air Systems MDV-400 is the most dependable drain, a versatile valve that doesn’t clog. The MDV-400 consists of a heavy duty electric actuator, an integral adjustable timer and full ported ball valve. It manages virtually any fluid in a variety of applications, including compressed air condensate, cooling tower filters and separators.

After-Cooler
Reduces Air Temperature
Compressed air discharged from an air compressor is hot and loaded with water vapor. Van Air Systems AC series air-cooled after-coolers reduce the temperature of the compressed air, causing moisture to condense. A good cooler is always the first step in a compressed air treatment system. Van Air Systems AC Series coolers are available from 10 to 3500 SCFM, with a range of motor options.

Adsorbent Desiccants
Activated Alumina, Silica Gel, and Molecular Sieve
Van Air Systems is a leading source for a variety of adsorbent desiccants, including activated alumina, silica gel and molecular sieve. Van Air Systems stocks a wide range of bead sizes and package sizes. Not sure if the desiccant in your dryer has life remaining? Send a sample to Van Air Systems for testing. There’s no charge and no obligation.

vanairsystems.com