VAN AIR SYSTEMS

# Clean, Dry Compressed Air

•Save Money •Reduce Energy Cost •Save Time
•Prevent Air Line Freeze-ups •Prevent Downtime

Freedom™ Desiccant Dryers


Aftercoolers, Filters, Mist Eliminators, Drain Valves


Portable Dryers


Desiccants


MAKING COMPRESSED AIR AND GAS WORK BETTER

## SOME FACTS ABOUT COMPRESSED AIR SYSTEMS

Compressed air has applications in virtually all industries. Its uses range from being an efficient, reliable source of pneumatic power in manufacturing plants to operating critical instrumentation in process industries. In every application, air quality can be adversely affected by contaminants like water, oil and dirt. The result is lower productivity, increased maintenance, and higher operating costs. For these reasons, air system designers must recognize and understand the types of contaminants they face.

The most prevalent contaminant is water. Water, in the form of vapor, enters the air system at the compressor intake, and is concentrated to the saturation point by compression. As cooling occurs downstream of the compressor, the moisture in this saturated air condenses into harmful liquid water.

Still another contaminant, oil, is injected into air systems by lubricated compressors. Many gallons of oil can enter an air system over the course of a year in this way.

Dirt takes many forms in air systems since it enters from several different sources. Small particles of atmospheric dust

# RELIABLE BACKED BY EXPERIENCE

### REGENERATIVE DESICCANT DRYERS

Regenerative desiccant dryers supply the best possible protection for pneumatic instrumentation or sensitive process air.

Twin towers containing special desiccants adsorb moisture. While one tower is in a drying cycle, wet desiccant in the other tower is regenerated. Standard pressure dew point is –40°F. Dew points as low as –100°F are possible for special applications. A unique Interlock Logic Control system assures reliable valve sequencing and tower changeover. And, a patented valve design delivers years of dependable, maintenance free performance.

Heatless dryers, from 10 through 5000 SCFM, are designed for simplicity and low initial cost. Our Cycle Saver™ and EMCON II® energy saving controls provide maximum economy for heatless dryer operation. Mounted filter packages are available on 55 to 2000 SCFM models.

Internally heated dryers, from 150 through 3000 SCFM, provide dry air through the most efficient use of convection, conduction, and radiant heat.

Externally heated, blower purge & exhaust purge dryers, from 350 through 10,000 SCFM, process large volumes of air economically. Hot atmospheric air from an externally mounted blower and heater used to regenerate the desiccant.

Special/larger models are available on request.


### FREEDOM DESICCANT DRYERS

Single tower desiccant dryers prevent moisture contamination by suppressing the pressure dew point by 20°F or more at inlet air temperatures of 100°F. Moisture is removed from the air as it passes through a bed of moisture absorbing desiccant. Single tower dryers are the most versatile and cost-effective dryers manufactured today.

Initial investment is small. Operation is energy-efficient; no external power source is necessary. Installation is simple and easy. And, since they can be installed indoors or out, these dryers are very adaptable to changing conditions.

Standard models are available from 7 to 16,000 SCFM. Special high pressure models are available on request.

### DESICCANTS

Van Air offers a complete line of desiccants. As the originator of absorbent desiccant technology, we offer dehydration solutions for all of your industrial and gas needs. Adsorbent desiccants include activated alumina, molecular sieve and silica gel for all regenerative dryers.

### BLAST PAK

The Blast Pak's compact design is especially suited for sandblasting, painting, and other portable operations. With models up to 1600 SCFM, the unit is completely air operated and easily installed. An initial desiccant fill is included.

not removed by intake filters are concentrated by compression. Pipe scale forms over time by the gradual rusting process. Hot-running, lubricated compressors create fine particles of carbon dust when lubricants break down.

Today's air system designer is faced with the challenge of improving air quality through the selection of drying and filtering equipment that is best suited to removing these contaminants. Judgments must be made based on the particular application, the degree of dryness and cleanliness required, and the types of equipment available.

That's where we can help. Van Air Systems offers complete, cost-effective, practical solutions to your drying and filtering needs. Moreover, our highly experienced team of engineers has the expertise necessary to assist you in the selection of the optimum combination of equipment for your application.

This brochure is intended to give you a brief glimpse of Van Air's full line of quality-manufactured, reliable air drying and filtering equipment. For complete details on any one of the product lines depicted here, or for application assistance, contact your local Van Air Systems distributor or call us direct.

## COMPRESSED AIR & GAS FILTERS

Van Air filters protect compressed air dryers, equipment, instru-mentation and processes by removing compressor oils, dirt, rust and other types of contaminants. With Van Air filters, your air system and pneumatic equip-ment will operate trouble free.

Flow capacities are available in a complete range from 15 to 20,000 SCFM at 100 PSIG. Pressures up to 5000 PSIG are available. Van Air F200 filters, from 15 to 1000 SCFM, feature 14 cast aluminum models with simple push on elements and single element design.

F101 filters, from 500 to 5000 SCFM, feature six welded steel models with in-line connections and easy bottom access to the elements.

F102 filters, from 1500 to 20,000 SCFM, feature nine welded steel models with quick opening top loading for easy access and servicing.

Ten filtration grades are avail-able in three categories: oil removal, particle removal, vapor removal. All filter elements are designed and built to provide maximum reliability and service life at the lowest pressure drop.


Mist eliminators provide long-term oil removal with minimal pressure drop for lubricated compressor systems. The element is designed for 10 year operating life.

# OTHER PRODUCTS OFFERED BY VAN AIR:

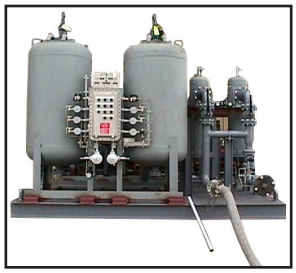
## Alternative Elements

Van Air Systems is committed to supporting you as a full-service supplier. We currently offer 2,000 replacement elements for all types of applications and filter housings. Van Air assures each element is manufactured to the most stringent quality standards. Each meets or exceeds the original manufacturer's performance standards.

## AFTERCOOLERS

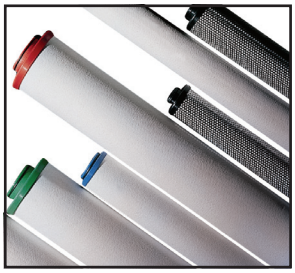
Compressed air is hot and laden with moisture as it leaves the compressor. Van Air aftercoolers rapidly cool this hot compressed air to reduce the moisture load on downstream equipment. This results in the most efficient operation of Van Air equipment.

Van Air AC Series aftercoolers utilize free and readily available atmospheric air as the cooling medium. Standard models are rated to 4800 SCFM.



## Custom Systems

Trust a high quality, energy efficient Van Air compressed air dryer to keep all your processes flowing. With more than 60 years experience, extensive in-house fabrication capabilities and the latest engineering methods, we are ready to build the unique dryer that suits your application.

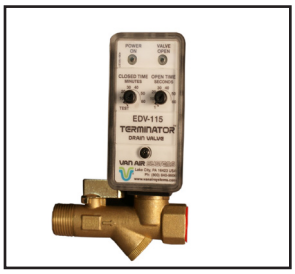


## Van Air Genuine Elements

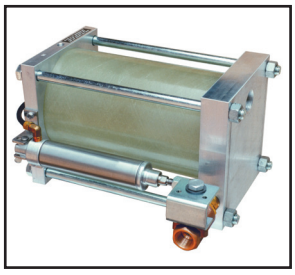
Van Air series elements provide long service life as well as ease of maintenance. We have particulate, coalescing, high temperature and adsorption grades in stock and ready to ship. They are guaranteed to work efficiently for extended periods of time.

## DRAIN VALVES


Our Sentinel® (Model MDV-400) motorized ball valves utilize solid state controls that can be programmed for cycle frequencies from 1 minute to 100 hours, with a variable open time. They can also operate as a zero loss drain.




Terminator™ (Model EDV-115) solenoid drain valves can be programmed for cycle frequencies of one to 60 minutes with a variable open time of one to 60 seconds. Available in AC or DC voltages.



Pneumatic Drain Valve
(Model PDV-500T)
The PDV-500T automatically drains air systems without the loss of any compressed air, is completely portable and requires no electricity. It works on clean, dry compressed air and is suitable for use in hazardous areas requiring explosion proof equipment. Manual test button is provided on valves as a standard feature.

VAN AIR SYSTEMS

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