



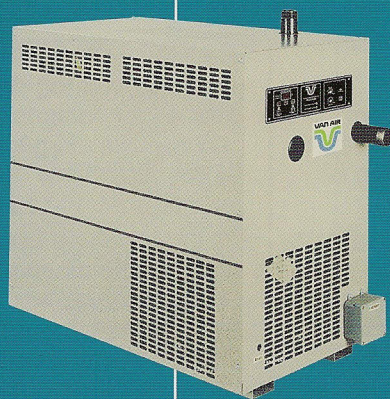
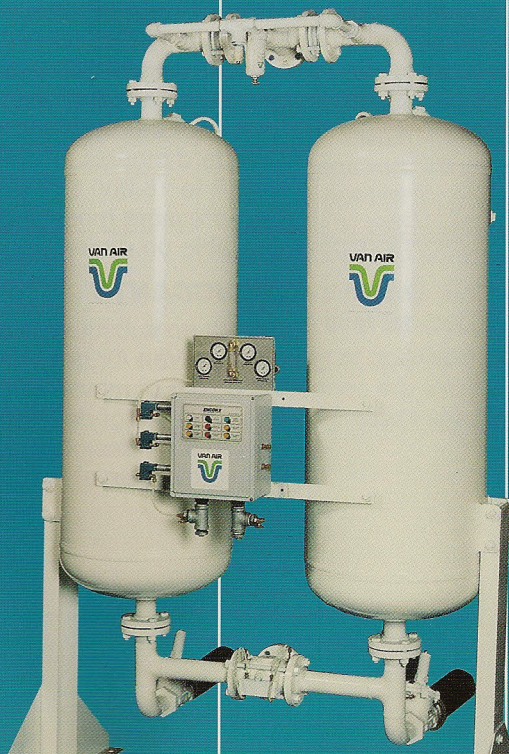
# Clean, Dry Compressed Air

- Save Money
- Reduce Maintenance
- Save Time
- Prevent Air Line Freeze-ups
- Prevent Downtime

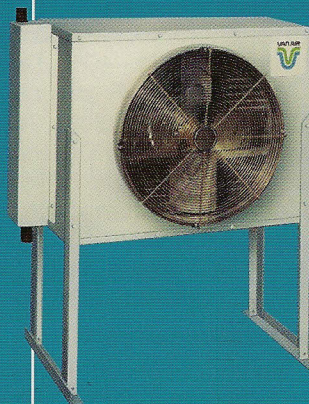
Single Tower  
Desiccant  
Dryers



Regenerative  
Desiccant  
Dryers



Refrigerated  
Dryers



Desiccants



Aftercoolers,  
Filters,  
Drain Valves  
and Oil/Water  
Separators



**COST-SAVING SOLUTIONS FOR  
COMPRESSED AIR SYSTEMS**



## 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.

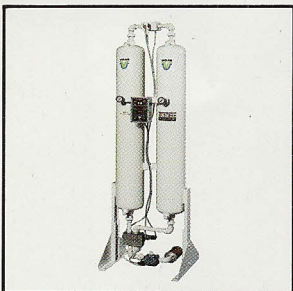
The most prevalent contaminant is water. Water, in the form of vapor, enters the air system at the compressor intake, and is concentrated to the saturation point by compression. As cooling occurs downstream of the compressor, the moisture in this saturated air condenses into harmful liquid water.

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.

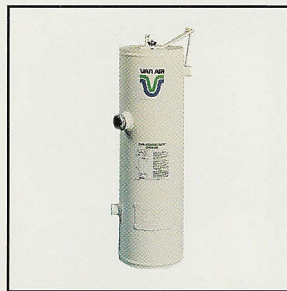
Twin towers containing special desiccants ADsorb moisture. While one tower is in a drying cycle, wet desiccant in the other tower is regenerated. Standard pressure dew point is  $-40^{\circ}\text{F}$ . Dew points as low as  $-100^{\circ}\text{F}$  are possible for special applications. A unique Interlock 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. A small amount of compressed air is used to dry the desiccant during regeneration.

**Externally heated, blower purge dryers**, from 350 through 10,000 SCFM, process large volumes of air economically. No compressed air is required for regeneration. Hot atmospheric air from an externally mounted blower and heater is used to regenerate the desiccant.

Special/larger models are available on request.



### SINGLE TOWER DESICCANT DRYERS

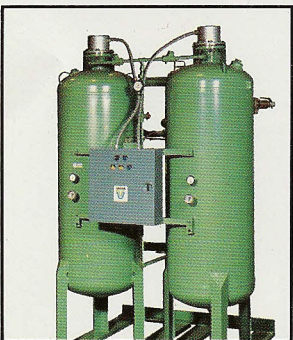
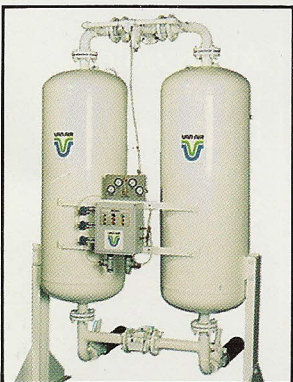
Single tower desiccant dryers prevent moisture contamination by suppressing the pressure dew point by  $20^{\circ}\text{F}$  or more at inlet air temperatures of  $100^{\circ}\text{F}$ . Moisture is removed from the air as it passes through a bed of moisture-ABsorbing desiccant. Single tower dryers are 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.

The best vessel warranty in the business tells you that Van Air single tower dryers are built to last. Maintenance is minimal as the dryer has no moving parts. Just add desiccant – usually no more than two or three times per year – for efficient operation. Standard models are available from 7 to 16,000 SCFM. Special high pressure models are available on request.

### DESICCANTS

Accept no substitute. Only genuine Van Air desiccants give you the peace of mind and expertise behind years of development. And only Van Air desiccants validate your single tower dryer warranty.



not removed by intake filters are concentrated by compression. Pipescale 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.

## DEPENDABLE

### REFRIGERATED DRYERS

Van Air refrigerated dryers are precision-engineered for efficient, reliable, long-lasting service. Models are available from 10 SCFM to 25,000 SCFM.

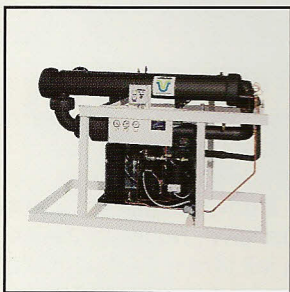
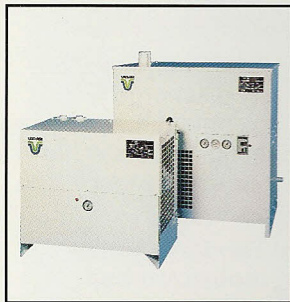
Refrigerated dryer operation is totally automatic with virtually no maintenance required. Air is cooled by mechanical refrigeration to condense entrained water vapor; a high-efficiency moisture separator automatically removes condensate.

Van Air refrigerated dryers are performance proven in providing dependable dry air, saving energy during operation while providing a steady 35-39°F dew point. Self-adjusting controls monitor and compensate for varying flows, pressures and temperatures, thus making these dryers well-suited to a wide range of operating applications where installation and related piping are not exposed to freezing conditions.

Installation is easy; piping and electrical connections are all that is required. Instruments are panel mounted for high visibility. Panels are easily removed for quick access to controls.

Standard models are available for high inlet temperatures.

A variety of options and accessories are available to meet your exact specifications.



## FIELD-PROVEN

### COMPRESSED AIR & GAS FILTERS

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

Flow capacities are available in a complete range from 15 to 20,000 SCFM at 100 PSIG. All are rated for a maximum working pressure of 250 PSIG with the exception of high temperature models.

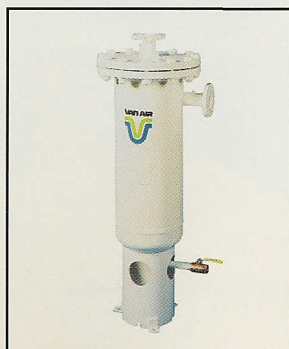
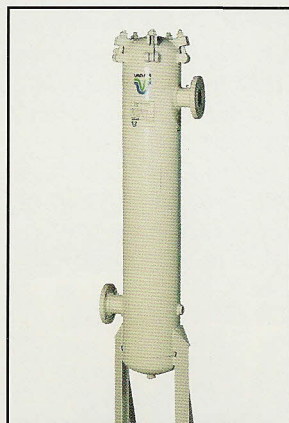
**Van Air F200 filters**, from 15 to 1000 SCFM, feature 14 cast aluminum models with simple push on elements and single element design.

**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 available 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.

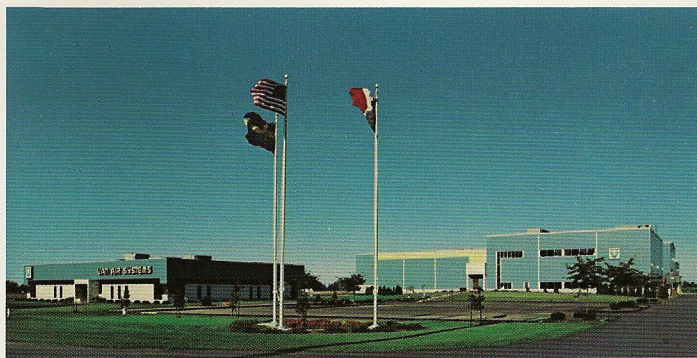
**Mist eliminators** provide long-term oil removal with minimal pressure drop for lubricated compressor systems.



## SOME FACTS ABOUT VAN AIR SYSTEMS

Van Air Systems is a company rich in tradition. Founded in 1944, its commitment to excellence is unsurpassed.

For many years the Van Air Systems name has been associated with its pioneer product, the single tower desiccant dryer. Today, the Company's expertise extends into every phase of air drying and treating. Simply stated, the Van Air slogan "COST-SAVING SOLUTIONS FOR COMPRESSED AIR SYSTEMS" sums up the Company's total system capabilities.



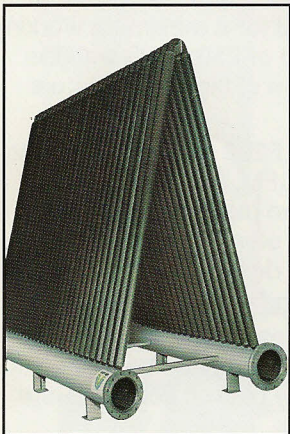
### AFTERCOOLERS

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 3500 SCFM.

**Our Climate-Cool aftercoolers**, for outdoor installation, use atmospheric air to dissipate heat. Operation is virtually cost-free, since no water or electricity is used in cooling and there are no moving parts. Standard models are rated to 4300 SCFM.

**Our Hydro-Cool® water-cooled aftercoolers** (not shown) are available for installations where water is the desired cooling medium. Hydro-Cool® aftercoolers are capable of supplying approach temperatures as low as 5°F. Models rated to 11,000 SCFM.



### DRAIN VALVES

Our cost-effective drain valves automatically discharge fluids from any equipment that requires regular draining, substantially reducing your maintenance time and expense.

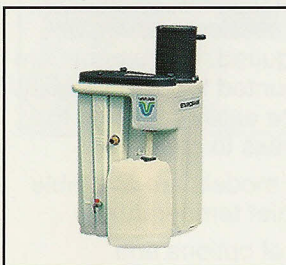
**Our Drain Tender® (Model MDV-200) motorized ball valves** utilize solid state controls that can be programmed for cycle frequencies from 6 minutes to 10 hours, with a fixed 8 second open time.

**Terminator™ (Model EDV-2002) 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.

**Airsaver™ demand drain valves** drain only your condensate and not your air.

### OIL/WATER SEPARATORS

**Envirosaver® Oil/Water Separator**  
Legal disposal of gallons of oily air system condensate is expensive. Dumping it down the drain is even more expensive, resulting in fines and even jail terms. Isolate the oil with a Van Air oil/water separator and reduce your disposal costs. Models for flows 100 cfm and up.



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MEMBER

