PNEUMATECH & ConservAIR Enterprises Pvt. Ltd.

A Pneumatech@ Inc. Company, USA
Add: 89, Moraya Indl. Co-op., Estate Ltd. T 201/1 MIDC Bhosari, Pune-411026, India
Phone: (020) 27125445, Fax: (020) 25812401
E-mail: conservair@vsnl.com, conservair@technologist.com
www.pneumatech.com / www.conservair.com

Introduction:

PNEUMATECH and ConservAIR Enterprises Pvt. Ltd; is a wholly owned subsidiary of **PNEUMATECH Inc USA** which has controlling interest in **ConservAIR Technologies Company, LLP**, and has developed and patented its proprietary line of compressed air management systems. **PNEUMATECH Inc** has a state of the art dryer manufacturing plant in Wuxi, China.

PNEUMATECH and ConservAIR products, which are unparalleled for performance, operational efficiency and durability are presently operating in many U.S.A., Canadian, U.K., China and Indian industrial plants.

Our products achieve the highest levels of certification:

- Authorized for ASME welding and fabrication
- Refrigerated Dryers are UL and cUL listed and rated to CAGI standard ADF-100
- Electrical panels can be manufactured to UL 508 and/or CSA panel standards
- Regenerative Dryer tanks and air receivers are ASME certified and CRN registered in Canada.

"Energy Saving By Eliminating Artificial Demand"

Save Money

Fewer compressors are required and/or compressors can be operated at lower settings. ConservAIR's patented Intermediate Control (I/C) pays for itself in energy savings alone, usually within the first six months to two years, depending on the size of your system and your current efficiency of operation.

I/C Solution:

Yesterday's answer to fluctuating compressed air pressure was to add more compressors to the system. Many companies continue to make this costly mistake.

ConservAIR Technologies' patented Intermediate Control compressed air management system addresses the problem of fluctuating air pressure where it counts – at your work stations.

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Improve Production

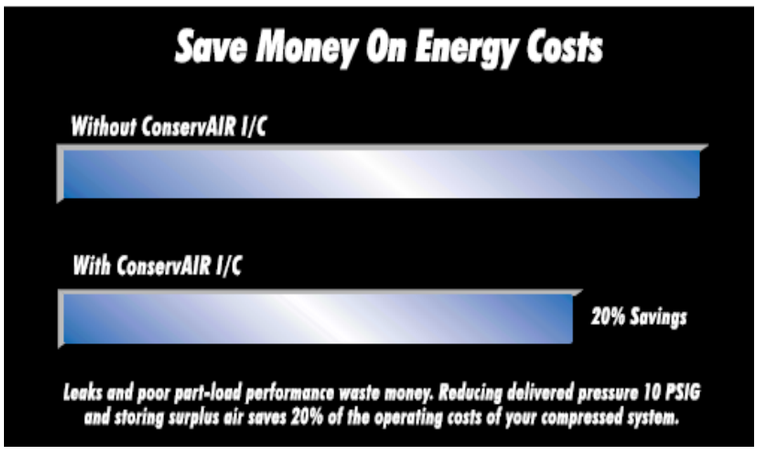
The I/C delivers stable air pressure to work stations at the lowest optimal pressure levels to:

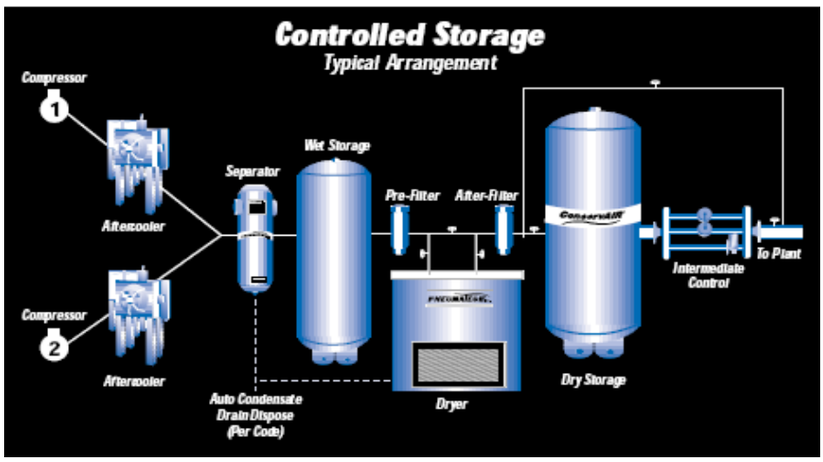
- Control compressors.
- Reduce compressed air leaks.
- Lower incidence of product defects and scrap.
- Improve consistency of finished product quality.
- Reduce operational downtime.
- Minimize or eliminate compressed-air related complaints.

Control Operating and Maintenance Costs

Better control of air flow through the system reduces stress on compressors and pneumatic equipment and minimizes leaks caused by unstable header pressure.

Better compressor control results in substantially reduced equipment costs.





Reserve Air Supply

Reserve air supplies are always available to satisfy all workstation demands.

I/C Features:

- Easy Installation
- Remote Control Monitoring
- On-line Maintenance
- Reliable Electronic Authority
- Allows Compressor Sequencing

ConservAIR® Technologies Company, LLP

ConservAIR Technologies Company, LLP, founded in 1987, was the first to patent and bring to market products designed to improve the operation and efficiency of compressed air systems.

ConservAIR's integrated management approach to compressed air usage stabilizes air pressure at points of use, controls distribution, manages leaks and better sequences compressor operation. While maximizing the performance of pneumatically operated equipment, ConservAIR products allow delivery of compressed air at the lowest possible cost per cfm.

Today, ConservAIR remains the world's leading innovator of advanced application technologies to better-manage compressed air systems for industrial and manufacturing use.

As an Allied Partner in the Department of Energy's Motor Challenge Program, ConservAIR has taken a leadership role in helping companies improve the energy efficient operation of their compressed air systems. ConservAIR products improve plant operations while reducing annual energy consumption by an average of 20% - 30%.

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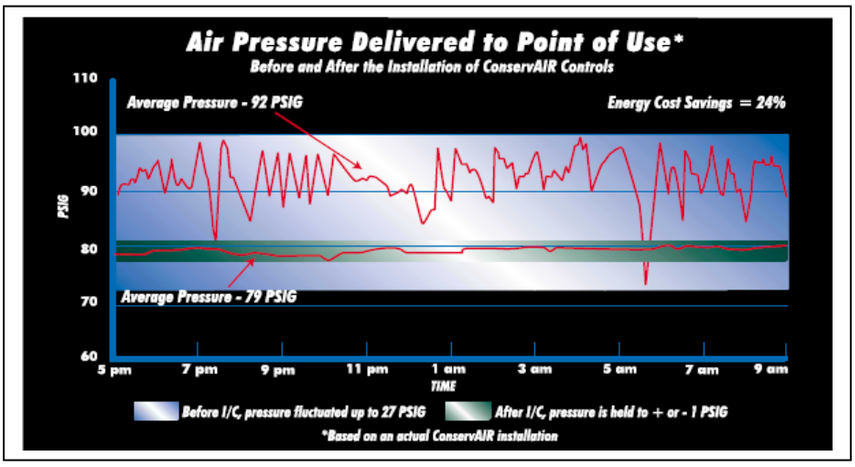
Air System Audits:

Call on ConservAIR to provide your company with an audit of your compressed air system. After data logging your air system operation, a computer analysis of the data allows realistic predictions of the cause and effect applications of various compressed air system management products.

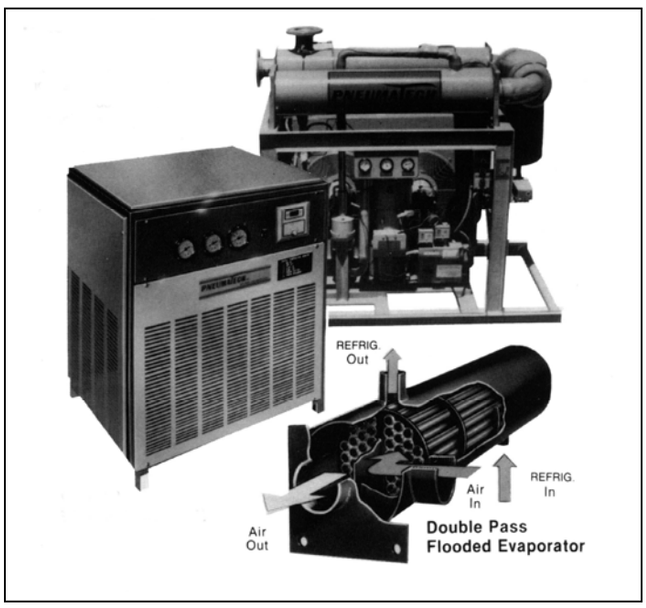
ConservAIR's Simulator Test Stand replicates conditions measured during the field audit for further analysis.

Call ConservAIR today to discuss your compressed air system, arrange for an audit or request more information about our products.



OUR OTHER PRODUCTS

❖ COMPLETE RANGE OF REFRIGERATION/REGENERATIVE DRYERS



Highlights of Refrigeration dryers

- R-134a (cfc-free) refrigerant in all dryers up to model AD-150. Larger models (AD-175 & up) with R-22 (ozone friendly) refrigerant.
- Electronic auto drains factory-installed on dryers. (AD-75 & up)
- Proprietary design shell and tube heat exchangers installed in the air system.
- Plain copper tubes are used in the heat exchangers for efficient, primary surface heat transfer.
- Lower fouling factor, which reduces pressure drop through the air system. Pressure drop remains almost constant throughout the life of the air dryer.
- Double pass flooded evaporator for closer approach and constant dew point in varying load conditions.
- Tubes to tube sheet joints in the evaporator are joined with a very high percentage of silver solder alloys for long life while operating under severe thermal shock.
- Modular air system design. Air to air heat exchanger, air to refrigerant heat exchanger, separator and the drain are assembled with pipe nipples, fittings or flanges. This enables easy and less expensive servicing.

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- Proven life of heat exchangers in the field for the last twenty years. Double pass flooded evaporator with almost zero percent leak failures.
- Efficient centrifugal type separators with five different principles of separation used in all air dryers.
- Hot gas bypass valve injecting into the evaporator to control the dryer without freezing the air system from no load to full load conditions.
- This also eliminates the need for a desuperheating valve to protect the compressor from failure due to hot gas reaching the compressor motor.
- All electrical voltages and NEMA class wiring available. (NEMA 3, 3R, 4, 4X, 7, 9, 12)
- Water-cooled dryers available.
- Electronic timer operated double drains with 150 SCFM & up.
- Welded steel frame inside the heavy gauge and easy to disassemble sheet metal cabinet. Sheet metal protected with baked enamel paint finish.
- Larger size dryers up to 25,000 SCFM capacity and high-pressure through 10,000 PSIG and low pressure down to 2" W.C. available.
- Designing and manufacturing air dryers since 1966.

Dryer models through 2500 SCFM have been tested at full load conditions at the factory to verify the performance.

❖ PORTABLE AIR/GAS FLOW METER

Cost effective and affordable Compressed air Flow measuring instrument

Introducing simple, economical and accurate to measure compressed air flow. It's easy to install requiring only 1" NPT connection into a straight run of compressed air piping. Measure compressed air flow rate with thermal mass flow sensing technology. Provides 4-20 mA or 0-5 Vdc output proportional to pipeline air velocity in standard feet per minute (sfpm). Multiply airline velocity to pipeline cross sectional area (ft^2) for air volume flow rate standard cubic feet per minute. Reading does not require separate pressure and temperature measurement, Thermal mass sensing element is inherently pressure and temperature compensated.

Patent pending design made for compressed air measurement incorporates Teflon packing to allow smooth insertion and withdrawal of the sensing probe in pressurized pipelines.

- Direct mass flow measurement
- Standard DC powered (0.8 to 6 watts).Ideal for portable battery power.
- Probe is retained in pressurized pipelines
- Fast response 1.0 sec response time
- Optional 100 ms response time.
- Only requires single connection in the pipe
- Retained design prevents dangerous ejection of probe under pressure
- Digital panel meter with totalizer function available as option

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❖ MEMBRANE NITROGEN GENERATOR

Standard Features

• Superior, 6-step air/gas purification.
• Heater and Electrical Controls for constant temperature and maintaining performance throughout the life of the unit.
• Gauge and operator interface panel monitors the entire system. The Programmable Logic Controller (PLC) automatically controls START, STOP and other functions for optimum performance. Maintenance and other critical information is displayed on the easy-to-read screen.
• Nitrogen separation membranes (1-4 modules).
• Single point air inlet, power inlet, nitrogen outlet and drain outlet.
• Powder Coated cabinet is attractive, durable and utilizes space-saving vertical design with forklift slots.
• Removable panels with quarter turn latches make maintenance convenient.
• Manual flow/purity controls.
• Flowmeter constantly indicates productivity of generator.

Typical Applications

• Food processing, packaging, blanketing and storage
• Chemical processing
• Pharmaceutical, electronics and refrigeration manufacturing
• Metallurgical heat treatment
• Plasma and laser cutting
• Paint blanketing
• Corrosive liquid cooling
• Material handling and storage
• Tire inflation (automotive, aircraft, off road)

❖ AIR FILTERS

Improves Air Quality

- **Coalescer:** Pneumatech's Micro-glass fiber technology and unique element tube configuration combine to deliver high efficiencies with 30% greater flow per unit of size. Direct impact: Contaminants greater than 2 microns, Interception: Contaminants between 0.2 and 2 microns, Diffusion: Aerosols in the 0.001 to 0.2 microns.
- **Particulate:** Pneumatech's particulate filter uses an interceptor element that is absolute rated to 3 micrometers. The smaller filters (1" and less) are often used as point of use filters to help prevent pipe scale and other contaminants from damaging tools and cylinders.
- **Adsorber:** Pneumatech's Adsorber filter is an ultra grained, concentrated, activated carbon media filter used **primarily for vapor and odor elimination.** Adsorbers act as final polishing filter to remove final traces of hydrocarbon contaminants and vapor (odors)

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Our All Products:

- Energy Saving Intermediate control
- Non-Cycling Refrigerated Air/Gas Dryers
- Cycling Refrigerated Air Dryers
- Combination After Cooler/Refrigerated Dryers
- Refrigerated Landfill Digester Gas Dryers
- Regenerative Air/Gas Dryers
- Nitroger Generator
- Compressed Air Flow Sensors-TrackAIR
- Industrial Air Receiver Tanks
- Pressure Boosters
- Air Guns and Extensions
- Point-of-Use Regulators
- Jets and Nozzles
- Air Amplifiers
- ConservAIR Knifes
- Closed Loop Liquid Cooler Coils
- Pump Skids
- Compressed Air/Gas Filters
- Air/Water Cooled Aftercoolers
- Air-Free Drains
- Automatic Drain Valves
- Electric Ball Valves
- Refrigerated Water Chillers

ConservAIR®
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1996 NATIONAL FAME AWARDS WINNER

Member of CAGI COMPRESSED AIR AND GAS INSTITUTE

MOTOR CHALLENGE ALLY
Use of this Motor Challenge logo does not imply DOE endorsement.

LOW PRESSURE COMPRESSED AIR CHALLENGE

Wisconsin Governor's New Product Award Winner 1994

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