

**Today's Solution to
Fluctuating Compressed
Air Pressure**



Intermediate Control® (I/C)® (Patented)

Benefits:

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 three years, depending on the size of your system and your current efficiency of operation.

Save Money On Energy Costs

Without ConservAIR I/C



With ConservAIR I/C



Leaks and poor part-load performance waste money. Reducing delivered pressure 10 PSIG and storing surplus air saves 20% of the operating costs of your compressed system.

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.

The I/C Solution:

The I/C solution is simple and can be retrofitted to any compressed air system.

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.

I/C Features:

Easy Installation

Standard-size inlet and outlet connections are supplied. The system contains all necessary ports, which are clearly labeled to facilitate easy connection to the remote control station. The I/C can be shipped already fitted for your existing piping system.

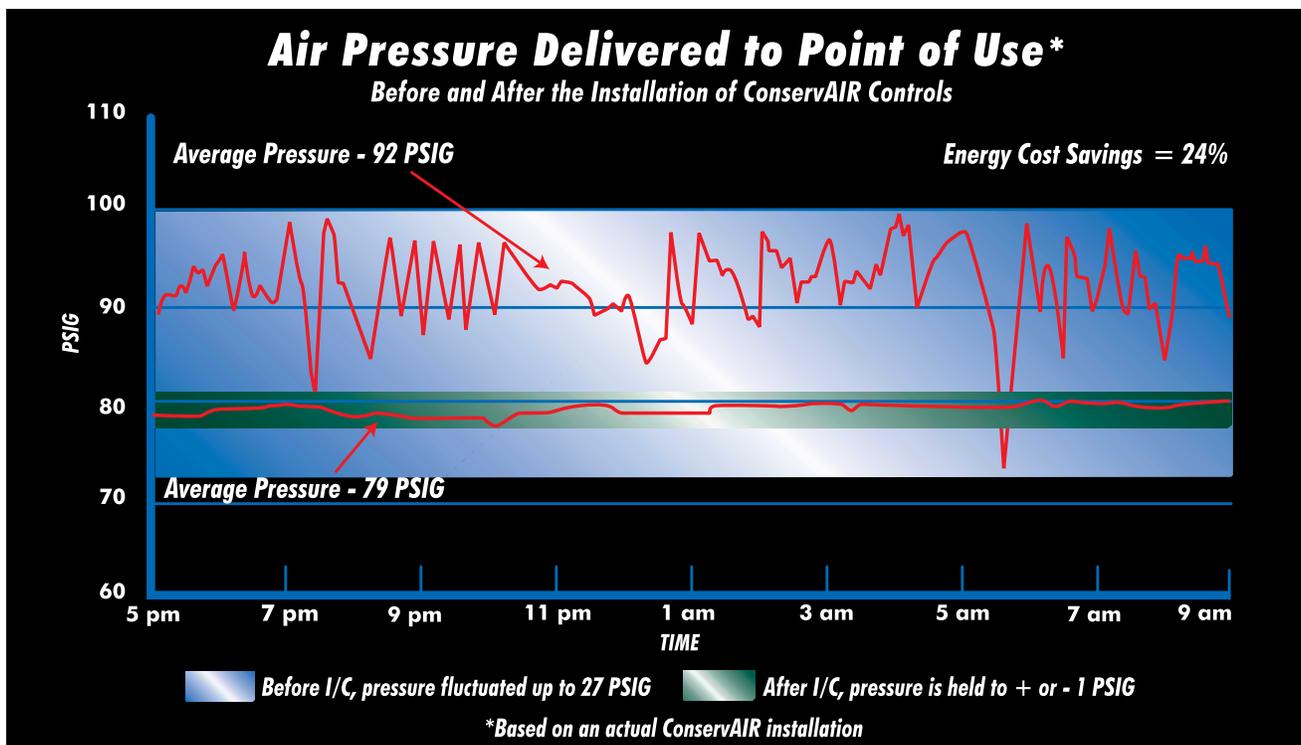
Standard combinations of parallels are available to handle the most common intermediate flow conditions. Custom designs are available to handle complex flow profiles.

Remote Control Monitoring

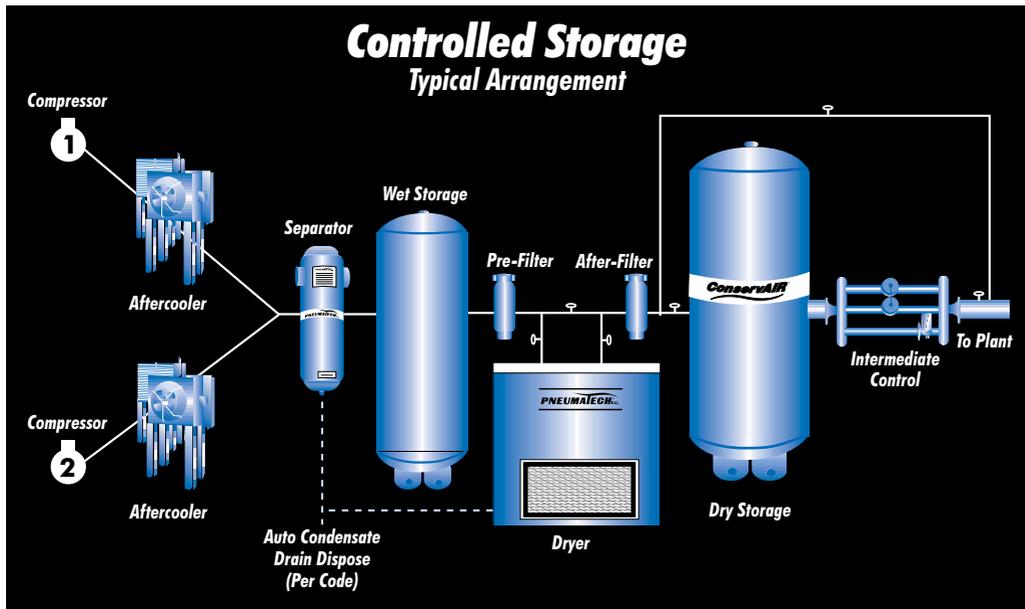
All instrumentation, annunciation and operational controls are contained in a lockable metal cabinet, which is installed at operator level for easy access. (Standard on E-Series, optional on S-Series units.)

On-line Maintenance

All I/C circuit parallels are equipped with isolation valves, allowing service or repairs while the system is still operating. (Standard on E-Series, optional on S-Series units.)



Here's How it Works:



Reliable Electronic Authority

The I/C allows work stations to draw air from storage rather than directly from the compressors. By monitoring air pressure as it is delivered to production, the I/C releases air from storage to maintain a continuous, optimal air pressure supply.

ConservAIR's patented, multi-parallel I/C system is installed at the intermediate point of the compressed air system; downstream from the cleanup and drying equipment and wet and dry air storage, and upstream from the main piping distribution system. The I/C's fail-safe automatic bypass circuit (optional) minimizes the risk of production interruptions due to power loss or other system malfunctions.

Allows Compressor Sequencing

- Compressor run times can be more logically sequenced based on changes in demand rates.
- Compressors come on-line only as needed to replenish the compressed air reserve supply.
- Automated sequencing products are available through ConservAIR to further enhance the system operation.



ConservAIR (I/C) Specifications

MODEL NO.	MAX FLOW (SCFM)	CONNECTION SIZES	APPROX. DIMENSIONS L" x W" x H"	APPROX. WEIGHT (LBS.)	APPROX. SHIP. WEIGHT (LBS.)
S-30	150	1" NPT	11.2" x 9.0" x 14.5"	15	23
S-60	250	1" NPT	11.2" x 9.0" x 14.5"	15	23
S-100	500	1 1/2" NPT	11.2" x 9.0" x 14.5"	18	26
S-150	750	2" NPT	17.3" x 9.8" x 24.0"	50	135
S-200	1,000	3" NPT	17.3" x 9.8" x 24.0"	75	230
S-300	1,500	3" NPT	17.8" x 11.3" x 24.0"	85	230

S-Series Features:

- Wide flow range from 30 HP systems to 300 HP systems
- Compact design for ease of installation
- Patented multiple-parallel design will outperform all single valve controls
- Inlet and outlet pressure gauges standard
- Tamper resistant servo-pilot for controlling outlet pressure

Options:

- 3-way manual bypass
- Pneumatic remote control panel
- FNPT In/Out connections
- Remote Electronic Authority
- Pneumatic control filter
- Low pressure failsafe

Notes:

- Maximum Inlet Pressure: 200 PSI
- Maximum Outlet Pressure: 195 PSI

For higher pressure requirements, consult factory.

E2-3C1.5M2	750	2" NPT	33.8" x 10.0" x 31.5"	150	325
E2-3C1.5A2	750	2" NPT	33.8" x 15.4" x 31.5"	170	375
E3-2C2M2	1,000	3" FLG	41.5" x 11.0" x 23.0"	150	330
E3-2C2A2	1,000	3" FLG	41.5" x 15.8" x 23.0"	170	390
E3-2C2M2.5	1,500	3" FLG	42.5" x 11.0" x 44.8"	440	535
E3-2C2A2.5	1,500	3" FLG	42.5" x 15.8" x 44.8"	460	598
E3-3C2M3	2,250	3" FLG	42.5" x 11.0" x 59.0"	580	680
E3-3C2A3	2,250	3" FLG	42.5" x 17.0" x 59.0"	600	725
E4-4C2M3	3,000	4" FLG	43.3" x 12.0" x 73.0"	730	790
E4-4C2A3	3,000	4" FLG	43.3" x 18.0" x 73.0"	750	785

E-Series Features:

- Patented multi-parallel design
- Remote control electronic authority
- Lockable metal cabinet containing instrumentation and operational controls
- Isolation valves on I/C circuit parallels
- Automatic or Manual bypass models available
- Low discharge pressure alarm (Automatic bypass models)
- Power loss failsafe to fully open control valves
- Flanged inlet and outlet connections

Options:

- Trim set back to automatically change the flow range of the I/C.
- Off-hours production energy-saver control to automatically reset demand-side pressure
- High pressure alarm
- Low pressure alarm
- Larger inlet/outlet connections available
- Electronic Control Authority with PID
- Flow sensor with digital display

Notes:

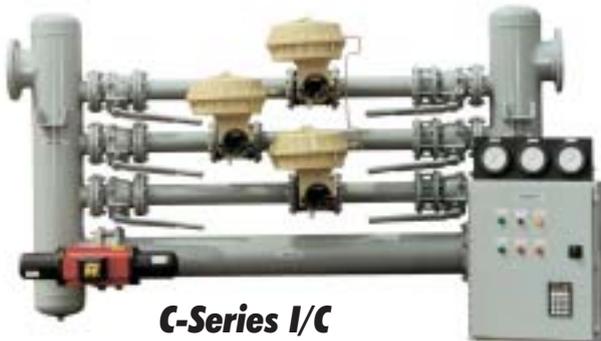
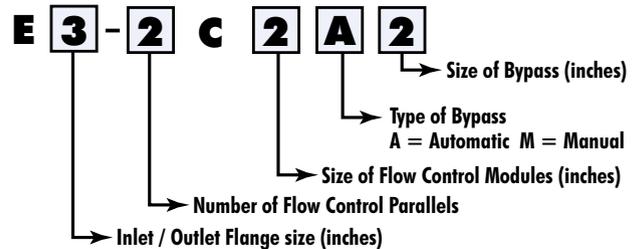
- Maximum Inlet Pressure: 150 PSI
- Maximum outlet pressure: 145PSI
- For higher pressure requirements, consult factory
- Dimensions and weights are approximate and for reference only

For certified dimensional drawings, consult factory.

C-Series Features:

- Larger flow capacities above 5,000 SCFM
- Higher pressure ratings
- Full PID electronic control authority
- Sequenced parallel configurations
- Fully redundant pneumatic backup parallel
- Special mounting
- More sophisticated monitoring, annunciation and instrumentation
- Direct computer interface
- Additional control inputs

The C-Series I/C is custom designed to meet specific applications that cannot be satisfied with the standard models listed above.



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%.

ConservAIR strongly supports the Compressed Air Challenge initiative announced in January 1998.

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.

ConservAIR's ongoing investment in research and development results in continuous product improvements. Changes in specifications or product designs in connection with any product feature do not entitle the purchaser to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

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