

AIR SYSTEMS ADVANTAGE

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FEATURES OF
THE ESP 20/20

GARDNER DENVER ESP 20/20 COMPRESSED AIR CONTROL SYSTEM VERSION 1.0

The **GARDNER DENVER ESP 20/20 Compressed Air Control System Version 1.0** uses the latest in programmable logic to provide for the intelligent management of multiple air compressors in a common system. Using Gardner Denver's exclusive legacy *BullsEye™* control, multiple compressor control is maintained in a closely held control band. When used in conjunction with the XMx Demand Expander, the "Rate of Pressure Change" feature offers storage management coupled with "wait" routines to eliminate unnecessary compressor starts. The system is available with multiple control output ports and optional control of Gardner Denver exclusive XMx Load Shaping feature. The end result of

all of this intelligence is a system that insures the maximum in compressor efficiency, reduction of energy consumption, and the managed distribution of compressor wear.

One basic model provides for efficient, expandable control of 2 through 12 air compressors in a common system. Optional output ports are available for up to three Demand Expander™ assemblies, **GARDNER DENVER Load Shaping System Control** and *Dryer-Blend™* Control. The XMx Compressed Air Control System hardware and software can also be built into a common platform with the XMx MIS Compressed Air Management System.

SUPER ENERGY SAVER OPTIONS

Base Expert

The Gardner Denver exclusive Base Expert control sequence is designed to be used with compressors of different size and capacity where the sum of the trim compressor capacities exceed the size of the largest base compressor capacity. Schemes are available for compressors piped behind and after Demand Expanders. This control scheme adds and deletes base compressors as required, keeping the smaller and more efficient compressors in a trim position.

Dynamic Expert

Dynamic Expert is another Gardner Denver exclusive control sequence for use when compressors are of different size and capacity (and the trim compressor's) do not exceed or equal the size of the largest base compressor. This intelligent algorithm determines if and when a smaller compressor can perform in the lead position by replacing a larger partially loaded compressor in the sequence.

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EXCITING PRODUCT
OFFERING FROM
MID IOWA TOOLS.

**UNIQUE FEATURES
OF THE ESP 20/20**

Touch Screen entry of sequencing, pressure and timer setpoints and system set up.

Graphical interface with multiple screens to indicate compressor status, operational and load hours, fault messages, system tuning graphs for ease of operation.

BullsEye™ control program maintains tightly constructed operating range...as narrow as +/-3 PSI if desired.

The ESP 20/20 controller will manage rotary screw, reciprocating and centrifugal compressors in a common compressed air system providing the following field selectable control schemes.



The new modular design includes a flange mounted controller and operator interface device with an optional NEMA 4/12 enclosure. Compressor interfaces are accomplished with local compressor mounted modules that communicate with the central controller via a two wire network.

A single pressure transducer for compressor management senses exact system pressure for accurate control and display.

When provided with the XMX Load Shaping Control, controls and introduces stored, high level energy to further minimize compressor starts during peak demand and consequential events.

Automatically defaults to conventional local control in case of power failure, or controller failure. Manual selection to local control for maintenance through the graphical interface.

Please contact your **MID IOWA TOOLS** Sales Engineer for more information on this exciting new product.

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