

XpandAir™

Precision Pressure & Flow Controller

Energy Savings And Process Protection

Compressed air systems can be among the most critical and most wasteful utilities. Systems are typically operated at pressures higher than required to ensure sufficient line pressure for all demand conditions. Running systems in this manner increases energy consumption due to leaks, makes compressors work harder and raises operating costs. In addition, wide fluctuations in air pressure may compromise product quality and process repeatability.

Installation of a ZEKS XpandAir™ in conjunction with adequate supply-side storage allows air to be stored at a higher pressure and delivered to the system at the user's minimum required pressure. This reduces compressed air loss through leaks and permits compressors to operate at peak efficiency. XpandAir's™ continuous dynamic response to varying air system demand ensures product and process consistency.

XpandAir™ offers the user the unique ability to select between three modes of operation: Forward Control of pressure and flow; Backward Control to protect critical processes; Combination Control for demand-side control with supply-side protection.



System status indication through main display.



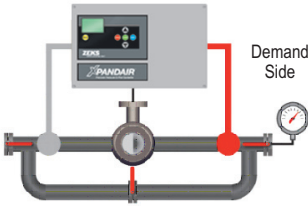
The XPE XpandAir™ Control Solution:

- Lower Overall System Pressure
- Optimum Air Compressor Operation
- Unique Forward Control, Backward or Combination Control Operation Modes
- Constant, Precise System Air Pressure
- Minimum Waste Through Air Leaks
- Prioritization to Protect Critical Processes
- Reduced Air System Operating Cost

Now With
3 Operating Modes

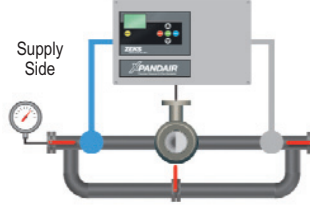
XPE XpandAir™ Features:

- **Modbus Communication-Ready** - Network communications capability permits remote monitoring and control
- **Remote Operation** - Activation of setpoints and valve position from a remote relay contact, PLC, or other device
- **Switchable Fail-Open or Fail-Closed Operation** - Protects either upstream or downstream processes in the event of power loss
- **Fault Code Storage** - Access to stored fault codes facilitates troubleshooting
- **NEMA 12 Enclosure** - Includes UL/cUL Listed electrical panel; Complete mounted and wired assembly
- **Three-Valve Bypass** - Permits uninterrupted flow while XpandAir™ is serviced or maintained
- **Forward, Backward and Combination Control** - Unparalleled flexibility for supply-side and demand-side pressure control



Forward Control

Regulation of downstream pressure to customer-specified set point. Energy savings are realized by reduced air loss through leaks and by utilizing stored air for operation of equipment.



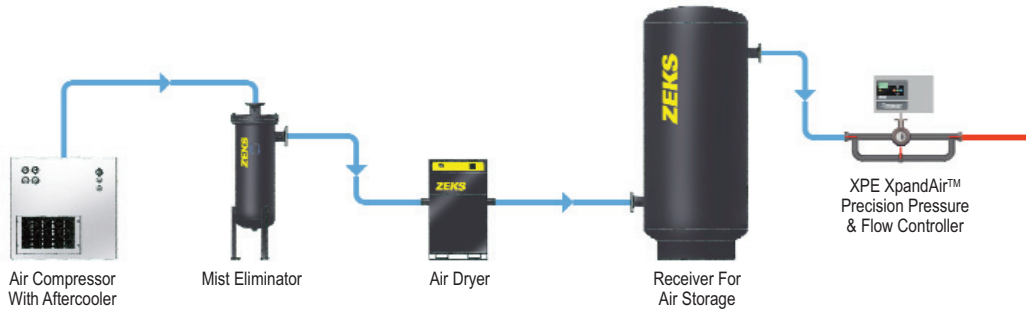
Backward Control

Protection of pressure-sensitive operations by maintaining minimum pressure on supply-side of system to customer-specified set point.



Combination Control

Continuous, precise control of demand-side pressure to optimize compressed air system while maintaining critical upstream minimum pressure.



Technical Specifications

Model	Connection	Width (in)	Depth (in)	Height (in)	Min Flow*		Max Flow* (1 psid)
					(1 psid)	(15 psid)	
20XPE	2" FLG	39.25	15.00	33.87	60	207	835
30XPE	3" FLG	43.87	16.62	38.50	185	580	2664
40XPE	4" FLG	58.50	18.06	44.25	350	1077	4868
60XPE	6" FLG	64.50	20.43	51.25	800	2320	10700
80XPE	8" FLG	70.68	23.06	53.06	1400	4144	19200

* Flow based on 110 psig inlet pressure to valve.

MAWP: 200 psig, Maximum Operating Temperature: 150°F, Control air pressure to filter/regulator must be 80 - 150 psig.

Appropriate storage is critical for proper XpandAir operation.



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