

Frick® Screw Compressor with Powermizer Control Advantage



Economizer Optimization System

Built-In!

**Boost Your Economizer Advantage
More Tons – Less Horsepower**

SMOOTHER, QUIETER OPERATION

The Quantum™LX with the Powermizer Economizer Optimization System takes the control of your economizer to the highest level. The integration of Powermizer economizer control with the Frick Volumizer control enables your Frick Compressor to deliver the most Tons of refrigeration for less horsepower!

EASY to USE

Powermizer understands the relationship between economizer pressure and volume ratio. By continuously monitoring this relationship, Powermizer ensures ideal compression, eliminating wasted horsepower.

Frick		Jan 19 2011	09:03:01	Setpoint Off	110.0 PSIG
Compressor Safeties		Actual			106.9 PSIG
High Discharge Temperature					
Load Inhibit	230.0 °F				
Force Unload	230.0 °F	Delay			
Warning	230.0 °F	5 SEC			
Shutdown	240.0 °F	5 SEC			
			Start Differential Pressure Below	115.0 PSI	
High Discharge Pressure					
			Dual Mode	Disabled	
Load Inhibit	120.0 PSK				
Force Unload	122.0 PSK	Delay			
Warning	130.0 PSK	2 SEC			
Shutdown	145.0 PSK	2 SEC			
High Suction Pressure					
Load Inhibit	105.3 PSIG				
Force Unload	115.3 PSIG	Delay			
Warning	125.3 PSIG	5 SEC			
Shutdown	135.3 PSIG	5 SEC			
Economizer					
			Enabled		
On When Above	90.0 %	Capacity			
Off When Below	85.0 %	Capacity			
Override: Discharge Pressure < (suction x 1.6 ^k)	15.0				
Port Value	1.60				
Pressure Input	Disabled				
	Disabled				
	Fixed Pressure Setpoint				
	Economizer Analog Value				
Balance Piston					
Highest Capacity To Permit Starting	10.0 %				
Starting Period Before Permitting Capacity Increase	0 SEC				
Stopping Period For Capacity Unload	60 SEC				
Compressor Automatic Mode Minimum Capacity	10.0 %				
Capacity Unload Assist	Disabled				
Separator Velocity Reference	0.00				
Compression Ratio	4.00				
Liquid Slugging Warning	900.0 °F				
Liquid Slugging Shutdown	900.0 °F				
Oil Log	Disabled				
Oil Pump Unload Assist	Enabled				
Main Oil Injection	On When Discharge Temperature Is Above	150.0 °F	For	5 SEC	

FACTORY INSTALLED or FIELD RETROFIT

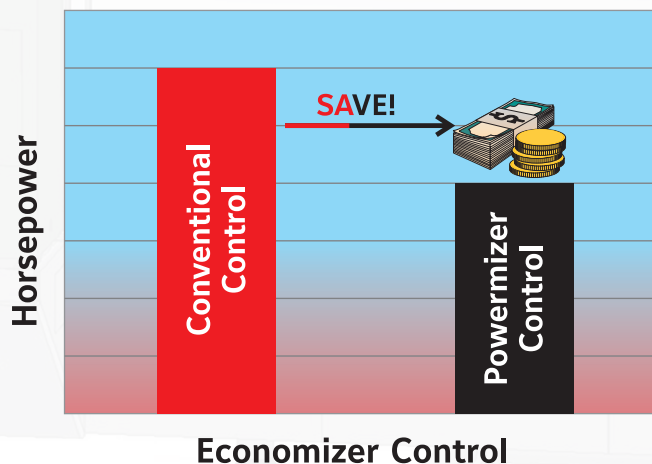
Powermizer is available for all new and existing equipment. Easy to install, easy to operate, the Quantum™LX does all the work.



Powermizer ECONOMIZER OPTIMIZATION SYSTEM

WHY YOU NEED IT

The gas introduced into any screw compressor by economizing affects the ideal volume ratio resulting in overcompression. Overcompression always consumes more horsepower than required.



Powermizer available only with the Quantum™LX control panel always maintains ideal volume ratio eliminating overcompression and wasted horsepower.

Powermizer Saves You Money!

Contact your Frick® Factor for more information



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