

Bay® Software Options

STREAMLINE MANAGEMENT OF COMPRESSED AIR SYSTEMS

Features

Distributed Capacity

Control: Networks and automates any mix of multiple compressors.

Performance Log Software:

Records up to 12-months of compressor performance data.

Autonomous Operation:

Automates compressor start/stop functions based on pre-determined set-points.

Auxiliary Control:

Incorporates auxiliary units into a controlled environment.

Benefits

Distributed Capacity

Control: Peak compressor performance with lower operating costs.

Performance Log Software:

Provides data to make informed decisions.

Autonomous Operation:

Immediate reaction to unexpected changes, increases energy efficiency.

Auxiliary Control:

Maintain constant air temperature for increased efficiency.

Save time, energy and money with Bay software options. Based on your facility's unique needs, customize and enhance your Bay Compressor Controller system with these powerful, purpose driven tools.

Bay software packages offer the appropriate solutions to network on-site compressors; automate operation schedules; access, track and use compressor performance data; control compressor related auxiliary equipment and more. Each software program is specifically designed to increase efficiency and simplify the operation of compressed air systems.

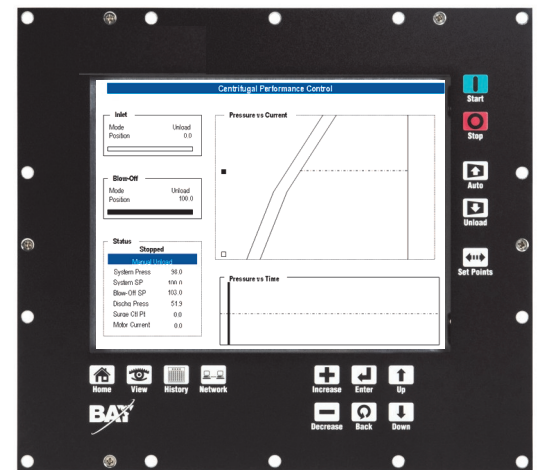
Software Options

Distributed Capacity Control

Provides automated, integrated, accurate control of multiple compressors for optimum energy efficiency. Average operating pressure is decreased by operating as many compressors as possible at maximum efficiency; and simultaneously modulating as few compressors as possible to maintain system pressure (see figure 1). Compressors share monitoring and control data through a multiple control communication link. Requires a Bay Compressor Controller or Vantage controller and can be used with any manufacturer or type of compressor.

Performance Log Software

Helps you make informed decisions related to compressor operation. Records and tracks the performance of a compressor for a 12-month period. Retains total run time, time loaded and unloaded, power consumption, and compressor and system mass flow. View the past 40-days of daily history, past 12-months of monthly history, in a manageable environment.



Autonomous Operation Software

Automate compressor start/stop functions based on system set points. Start compressor automatically when the system pressure falls to a configurable offset from the system set point. Automatically stop the compressor when operating unloaded for an arranged period of time. This simplifies operation and enhances energy efficiency.

Auxiliary Control Software

Implement up to four independent proportional-integral (PI) control loops to manage compressed air auxiliary systems. Typically used for interstage coolant control and pressure regulation of multiple header air systems.



Distributed Capacity Control figure 1



	Unit 1 200 HP Rotary Screw	Unit 2 600 HP Reciprocating	Unit 3 500 HP Centrifugal	Unit 4 300 HP Centrifugal	Unit 5 300 HP Reciprocating	
DCC Linked Operation Profile	Off	Off	75%	100%	100%	Maximum Efficiency
Unlinked Operation Profile (without Bay Compressor Controller)	50%	0%	100%	50%	25%	Inefficient

Requirements

Software Option	Item No.	Required
Distributed Capacity Control Software option license	VS-DCC	All Bay software options require the Bay Compressor Controller, or Vantage control systems. Software licenses purchased individually.
Autonomous Operation Software option license	VS-AUTO	
Auxiliary Control Software option license	VS-COOL	
Performance Log Software option license	VS-PERF	

Who We Are

Bay is an energy solutions company that provides products and services to a broad range of industrial, commercial, government, and now, home customers. We provide cost savings for our clients through increased energy efficiency, improved system management, better reliability, and reduced downtime. Bay was founded in 1983. As of December 1, 2008, our solutions - with over 5,000 installed units worldwide - are providing over 1.8 terawatt-hours (1,800 million kilowatt-hours) of annual energy savings for our customers in 70 countries. Our headquarters and network operations center is located in Maumee, Ohio.

Other Products

Bay Compressor Controller
Industry leading controls for all rotary screw, reciprocating, and centrifugal air compressors.

BayWatch®

Web-based hosted monitoring and alerting system for single and multi-plant applications.

BayView® Server

Full featured, HMI/SCADA system for air compressors controlled by the Bay Compressor Controller.

BayNet®

Advanced scheduling system, automating compressor schedules and operating conditions.

BayView® 20/20

Customizable HMI/SCADA system for integrating varying plant systems.

WaveSync®

Advanced ride through control system for rotary screw and centrifugal compressors.

PLC Custom Controls

Advanced customized control systems for cooling towers, dryers, and other industrial applications.



6528 Weatherfield Court
Maumee, OH 43537
419-891-4390

www.bay.ws

© Bay Controls LLC 8/13/09