



### What is Vacuum IQ™?

*Vacuum IQ™ is an electronic motor control and software program designed for motor-driven centrifugal vacuum and pump systems that automatically adjusts motor speed to changing load requirements.*

The result is equipment that “thinks” for itself and matches production to demand at any given time. The most significant benefit Vacuum IQ™ offers is dramatic energy savings. Vacuum IQ™ also extends equipment life, reduces maintenance and downtime costs, and often increases productivity.

Vacuum IQ™ combines the technology of a variable frequency drive (VFD) with AutoVac’s proprietary computer programming that is customized for each industrial application. Its Windows based operating platform can be interfaced with existing equipment and allows for comprehensive motor control and easy data retrieval.

### Software Features

- View and modify drive data with a simple user interface
- Download and save data to a drive or file
- Ability to save parameter or graph data as comma separated variable (.csv) file for use with other software applications such as Microsoft EXCEL
- Online monitoring for troubleshooting and diagnostic purposes
- Fault history of drive
- Digital scope feature for graphing drive data
- Basic online control of the drive to test parameter adjustments, simulate events, and to perform motor auto-tunes
- Cost savings calculator tracks exact savings



Manage your dryers with **VACUUM IQ™** and cut energy consumption, reduce energy costs, and extend the life of your equipment.

	Full Throttle	Air Brake Closed (But Still Full Throttle)	Air Brake Closed with DryerIQ™
Flow in AMPS	48 Amps	24 Amps	12 Amps
RPMs - Hz (Hz x sec=RPM)	60 Hz	60 Hz	40 Hz
Kilowatts (\$ energy \$)	11 kW	9 kW	2 kW



## BENEFITS OF VACUUM IQ™

Vacuum IQ™ provides cost savings on many levels.

- Dramatically lower electric bills through reduced energy consumption
- Extended equipment life since lower operating speeds result in longer life for bearings and motors
- Lower maintenance costs and downtime
- Simplified equipment – there is no need for throttle valves, dampers, and soft start controls
- Improved airflow control
- Rebates offered by most energy suppliers
- Return on investment is short and savings continue year after year
- Controlled ramp-up speed can eliminate vacuum or air surges
- Protect driven equipment by limiting torque to a user-selected level that cannot tolerate excessive torque
- Control process temperature, pressure or flow without the use of a separate controller
- Built-in bypass control
- Increased productivity and improved product quality and process control

## APPLICATIONS

Vacuum IQ™ is the ideal tool to: improve the efficiency of motor-driven equipment by matching speed to changing load requirements; or allow accurate and continuous airflow control over a wide range of speeds.

Because Vacuum IQ™ operates with most motor-driven centrifugal vacuums, exhausters, pumps, fans and blowers, the applications are virtually unlimited.

- Industrial Manufacturing Process
- Aerospace Manufacturing Process
- Production Assembly Lines Clean Up
- Dustless Sanding
- Carwash Central Vacuum Systems
- Carwash Tunnel Blowers/ Dryers
- Medical Vacuum Systems
- Clean Room Technologies
- Many More Applications - Consult Factory