



Pharmaceutical

— BONITRON SOLUTIONS FOR INDUSTRY —

"Bonitron designs and manufactures electronic instruments and control systems with the highest degree of quality and reliability."

Many companies in the Pharmaceutical industry are now relying on variable frequency drives (VFDs) in order to improve process control and save in energy costs. Bonitron has numerous products that can maximize both the effectiveness and efficiency of these drives while solving many problems you may be experiencing with equipment. This brochure briefly describes our most popular products used in the Pharmaceutical industry. Feel free to check out our individual brochures on each product that are available through Bonitron or at www.bonitron.com.



PHARMACEUTICAL

APPLICATIONS: CENTRIFUGES | PUMPS | MIXERS

- Centrifuges -

Line Regeneration Modules

- **M3345 Line Regen**

- Up to 100hp | 100% Duty -

In applications with extended braking times, high horsepower, or where frequent regeneration occurs, the M3345 is the most economical solution due to substantial energy savings! When a resistive absorber kit is used, the regenerated energy is dissipated as heat and the energy is wasted. With Bonitron's M3345 Regen Module, the regenerated energy is returned to the input AC line at **95% efficiency**. Substantial energy savings result as the regenerated energy can now be used to power other equipment and the cooling requirements for the control room are reduced.



PHARMACEUTICAL



APPLICATIONS

- Centrifuges - (continued)

Filtering Modules

- **M3464 Sine Wave Filter**

- *Increase Motor Life -*

Problems such as premature motor winding or bearing failures, cable insulation failures, drive ground fault problems, noise interference in analog signal transducers or in RF communication systems can be alleviated with the use of a Bonitron M3464 Sine Wave Filter.

- Pumps -

Filtering Modules

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Ride-Thru Modules

- **M3534 Series**

- *Drives below 67hp or 50kW -*

Need constant, uninterrupted power for drives? The M3534 Series Ride-Thrus offer Ride-Thru protection for up to 15 minutes in some situations and up to 50kW for 2 minutes.

- **M3460 Series**

- *Drives 67hp or 50kW and Above-*

Like the M3534 Series, the M3460 Series offer Ride-Thru protection for up to 15 minutes in some situations and up to 1080kW for 2 minutes.

- Mixers -

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