

Rad-X Medical Power Filtration System[®] (Rad-X Filter)



Applied Power Quality
Solutions LLC (APQS)

P.O. Box 14915
Scottsdale, Arizona 85267-4915

Tel: 480-214-5676
Fax: 480-214-5677

www.appliedpqs.com

Rad-X Medical Power Filtration System is a
Registered Trademark of APQS

FEATURES

- Manufactured in the USA
- High quality filtration components
- Proprietary Custom Activation Process™
- Category "B" TVSS protection
- Industrial control quality indicator system
- UL Listed

BENEFITS

Uses a minimal amount of electrical power to operate

Minimizing the cost of operation and environmental impact

Has no internal electronic components to fail

The Rad-X Filter will never be the source of your downtime

Does not generate any appreciable heat

The Rad-X Filter has no special cooling requirements

Is wall mounted at any height (including above a drop ceiling)

Does not take up valuable hospital real estate

Does not require any regular maintenance

There has not been a Rad-X Filter failure since its introduction in 2005

GUARANTEE

APQS will guarantee that if during the first year of Rad-X Filter operation, the hospital does not save at least the purchase price of the Filter in reduced non-mechanical related maintenance costs, the user may choose to return the Rad-X Filter to APQS for a full refund.*

*Client is obligated to provide APQS with verifiable cost of maintenance records of the filtered system for the year of Rad-X Filter operation and the year prior to Rad-X Filter activation.

WARRANTY

The Rad-X Filter is warranted to be free from manufacturer defect for a period of two years from date of activation.



Rad-X Filter installed for CT System

The Rad-X Filter is a low pass, bi-directional, pi configuration power filtration system with transient voltage surge suppression (TVSS). It is manufactured exclusively for imaging, diagnostic and interventional radiology, neurology, oncology, and nuclear medicine equipment. These X-ray and magnet based systems present a unique power quality challenge:

During the operation of this equipment, significant and repetitive bursts of current are demanded. The electrical system's response to this demand is high frequency electrical noise and voltage impulses.

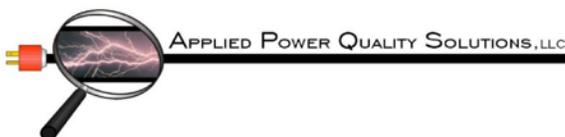
These "power disturbances", which are a normal by-product of the process, can dramatically impede performance, reduce uptime and increase cost of service for this equipment. They can also adversely affect neighboring equipment that share common electrical distribution.

Traditional power quality solutions such as UPS and Power Conditioners have always been designed to attenuate power disturbances that might be produced by sources outside the protected equipment (**line generated**). The objective was to isolate the protected equipment from these potentially disruptive and damaging events. They were not, however, designed to attenuate power disturbances that might be produced by the protected equipment itself (**load generated**). It was simply not considered necessary, since the equipment that traditionally needed protection, did not normally produce power disturbances. All that changed with the introduction of X-ray and magnet based medical equipment. This type of equipment, in fact, does produce power disturbances as a normal byproduct of operation. An effective solution for this type of equipment, must therefore address both line and load generated power disturbances.

The Rad-X Filter:

1. Attenuates power disturbances generated by sources outside the protected equipment (**line generated**).
2. Attenuates power disturbances generated by the protected equipment itself (**load generated**).

The end result is optimal equipment performance with minimal failures and maximum uptime.



For more information, referrals, or to arrange for an in-house presentation, please contact APQS at 480-214-5676.