

SmartVAr Optimum – Power Factor Correction by kVArCorrect



Why Automatic Power Factor Systems?

- Cost effective
- Reliable
- Reduces peak demand
- Easily maintained

Why kVArCorrect?

- Power factor specialists
- Highest quality German capacitors (KBR)
- Top selling Austrian contactors
- Locally designed Harmonic Blocking Reactors
- Hot swappable rear bus system
- Type tested German cabinets (Rittal)
- Superior modular design:
 - Front access to capacitors meaning full online diagnosis, as well as replacement of capacitors without powering down the system
 - Modules confined to removable trays, which are easily swapped out in less than 3 minutes without powering down the system
 - Temperature controlled fan & over-temperature cabinet shutdown module, able to be connected to both audible and visible external alarms
 - Specifically designed thermal management system including separate thermal areas to prolong capacitor life. This has been extensively tested in all environments with outstanding results
- System very rarely requires an air-conditioned room
- Ongoing protection against penalties or peak demand charges in the event of a breakdown – any electrical technician can replace contactors, capacitors, fans, and entire modules without powering down the system
- Locally designed, manufactured, and fully customisable kVArCorrect controller – built for simplicity of use, reliability, and value. Options include communication interfaces such as GSM text capability
- Easy maintenance program that can be done by any electrical technician
- Excellent value for money
- Exceptional customer service, after sales support, and service resources
- 5 year warranty



For over 40 years, more than 110 employees have been developing, manufacturing and servicing customer-driven solutions in the energy management field. As a medium-sized company, KBR creates innovative products and system solutions in close cooperation with their customers. KBR capacitors are rated at 5°C above the IEC standard and with a lifetime of >250,000 hours when operated within their temperature rating.

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Warranty & Maintenance Details

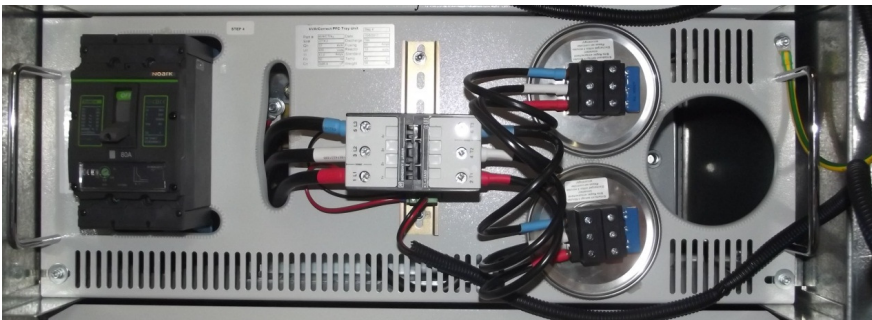
- 5 years warranty provided regular maintenance is done and recorded
- Cabinet filters need checking at a frequency dependent on the environment, typically 3-6 monthly
- Capacitor current draw should be checked 6-12 monthly
- Connections should be checked at each inspection
- The easiest way to ensure the product remains under warranty is to contract kVArCorrect's Service Team to take care of everything

Technical Information

- Systems range from 20kVAr up to 1000kVAr and beyond
- Modules are available in a variety of kVAr ratings from 4.3kVAr to 67kVAr
- Maximum kVAr per cabinet is 470kVAr made up of 7 modules of 67kVAr each
- Maximum cabinet size is 800mm wide, 600mm deep, 2200mm high
- SmartVAr Optimum utilises one cabinet, SmartVAr Optimum Max utilises two cabinets side by side
- Blanking covers are installed over empty module positions, and blanking plugs into empty capacitor slots
- The fan control and over-temperature management module occupies the top position of each cabinet, although these can be relocated to the door to allow two empty module positions if required

Did you know?

kVArCorrect can trace its experience and knowledge of manufacturing both power factor capacitors and power factor control systems back to 1978 when local Rotorua Businessman, David Dawson, started Metalect Industries. The business was sold to Australian Company Ampcontrol in 2007 and operated for 8 years before closure in 2015. kVArCorrect started trading in the same market sector in April 2016 with the senior experienced people of the earlier companies.



- Each module is individually tested and signed off as compliant with the design and the relevant standards
- Also available are specialised tuning trays designed for control of small loads often experienced in factory downtimes. These modules have two small steps and are offered in several combinations to suit your needs

Keen to learn more? Get in touch with us!

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