

SmartVAr Classic – 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
- 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
 - 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
 - Design emphasis on ease of maintenance
- 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, etc 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
- 3 year warranty

kVArCorrect has gone back to first principles to develop the SmartVAr Classic automatic power factor correction system. Comes standard at 175kVAr – able to be easily altered to 125kVAr or 225kVAr.

This straight line product is available in 4 steps of premium KBR capacitors, as (3 x 50kVAr) and (1 x 25kVAr), totalling 175kVAr. Each system has a 5th position prewired, and an additional 50kVAr step can be easily installed in under 1 hour. The 50kVAr kit includes reactor, capacitors, contactor, fused disconnect, pre-made cable, and all nuts, bolts, and fastenings.

Although no compromise has been made in the quality of the components fitted, costs have been reduced through standardisation, economies of scale, and lower cabinet costs for the reduced size.

This is the SmartVAr Classic.



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

- 3 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

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.



Technical Information

- Comes standard at 175kVAr
 - Easily altered to 125kVAr by removing one of the 50kVAr steps
 - Easily altered to 225kVAr by utilising a 50kVAr kit and the pre-wired 5th position
- 50kVAr kits to be purchased at the same time as order placement
- Cabinet size is approximately 600mm wide, 350mm deep, 1200mm high

Keen to learn more? Get in touch with us!

NEW ZEALAND

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