



## Capability Profile

### **kVArCorrect Ltd. – Power Factor Specialists:**

- Power Quality Control Systems
- Power Quality Components
- Power Quality Support
- Power Quality Advice

kVArCorrect Ltd. is a small Australasian company specialising in supplying goods and services to the Medium and Low Voltage Power Quality markets. We have a factory in Rotorua, New Zealand, and offices in Auckland, New Zealand, and Perth, Australia. Power Quality can include a wide range of products and services but kVArCorrect Ltd. has specific expertise, products, solutions and support services in the following areas:

- 1) Medium and Low voltage capacitors, from small motor and lighting capacitors through to large power factor correction capacitors suitable for Medium Voltage applications
- 2) Medium and Low voltage reactors (in-rush and harmonic blocking), as used to de-tune Power Factor Correction systems at Low and Medium Voltage
- 3) System design and manufacture of Power Factor Correction systems for LV and MV applications
- 4) Design and manufacture of Neutral Earth Resistors (NERs) for applications up to and including 220kV Grid Exit points

### **kVArCorrect Ltd. – Agent for Select Companies:**

- 1) KBR of Germany. Highest quality of capacitors available in Europe and Worldwide.
- 2) Iskra of Slovenia. High quality Motor, Lighting and LV capacitors, specifically selected to support the existing Australasian installed base.
- 3) Reactors:
  - a. Yasho and KBR high quality in-rush and harmonic blocking reactors for LV
  - b. Mangoldt of Germany highest quality of MV reactors
- 4) Benedikt and Jager LV switchgear for LV power factor systems and components supply. Benedikt and Jager are the largest supplier of LV capacitor contactors in Europe.

- 5) MegaResistor of Canada for high quality stainless Neutral Earth Resistors complying with accepted international standards for MV applications.
- 6) Fuerte Electrical comprehensive range of MV and HV porcelain bushings, fuse links, insulators, lightning arrestors, vacuum circuit breakers, disconnect switches, isolators, re-closers for the transmission market.

### **kVARCorrect Ltd. – Expertise:**

kVARCorrect is well aware of the changing electricity charges, including poor power factor penalties and peak demand charges, as well as the trend changes that see very diverse loads existing in many buildings today. In addition, never before has the need for detailed and competent inspection, testing, repair, and total replacement been greater – risk mitigation or removal is a paramount concern to Facility Managers, Building owners, Insurers and government agencies. Unfortunately, there are very few true experts in this field. Whilst most electrical companies will understand the basic requirements of power factor, few have the resources, test equipment, knowledge, experience and back-up parts and technical advice to check and diagnose current issues and perhaps more importantly, potential issues.

kVARCorrect employs three engineers with considerable Power Quality experience built up over many years, firstly in Metalect Industries, followed by Ampcontrol New Zealand, and now with kVARCorrect Ltd. These three companies have all specialised in the Power Quality market with specific focus on Power Factor since the mid 1970's, and since 2009, Neutral Earth Resistors. kVARCorrect has a considerable amount of specialist test equipment and first-hand experience in system design and manufacture of components and systems. With inherited knowledge from the previous companies, we have experience and knowledge of over 500 LV power factor systems installed across Australasia. Additionally, we have been involved with manufacture of MV power factor correction systems in both Australia and New Zealand. In addition, our Office Manager has provided exceptional customer service to the New Zealand Power Quality market for over 20 years. From a service perspective, we have access to trained power factor service technicians to provide on-site installation and support services as and when required. Our trans-national sales team is made up of Chemical Engineers who have worked in the Electrical industry for several years.

### **kVARCorrect Ltd. – Summary:**

kVARCorrect Ltd. has the people, the equipment, the component products, the system designs and the experience to design, manufacture, install, commission and then support Power Quality systems throughout Australasia and beyond. We will work comfortably with Consultants, End-Users, Contractors and individuals to provide state-of-the-art solutions in our chosen fields of expertise. Should you choose kVARCorrect as your supplier of Power Quality solutions, I give you the assurance that we will handle your project with the highest levels of professionalism available. We may be small, but we are focussed, experienced, ready and able. We have the technology and we know how to use it!

*Allan Ramson*

Allan Ramson (NZCE, BEng, MBT)

General Manager kVARCorrect Ltd.

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For Enquiries, please contact your local  
Account Manager Claire-Elizabeth Ramson:

[ClaireRamson@kVARCorrect.com](mailto:ClaireRamson@kVARCorrect.com)

Phone: 0435 798 323

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