

PROXA

www.proxa.co.za

CORPORATE BROCHURE



A wave of success

South African water solutions company Proxa is extending its reach globally. Ben Sansom discovers how strategic agreements and a strong customer focus lie at the heart of this success

Water has always been a precious commodity, particularly in regions of the world where rainfall is low. Today however, good water management is becoming recognised as an important social and business responsibility worldwide, regardless of its abundance. Not only is it essential to life, but it's vital to almost all forms of industry and business. At a financial and corporate level, water management is therefore becoming an essential element of good risk management. Indeed for many, it can make the difference between business success and business failure.

One company that understands the importance of water, and offers a comprehensive range of services and expertise to enable businesses to manage this vital commodity, is Proxa of South Africa. An independent provider of integrated and sustainable industrial water solutions, Proxa can trace its pedigree back to 1986 when Aqua Gold Services was established to provide bulk water and wastewater treatment solutions in KwaZulu Natal. But it wasn't until 2001 that Proxa Pty was launched as a chemical engineering services consultancy in the field of advanced water engineering and separation technology. By 2003 the company had been appointed as the lead technical advisor in establishing a masterplan for the largest mine water application in South Africa and the growth continued.

In 2006 the company established two groundbreaking strategic agreements that accelerated its growth and gave it a global reach. The first was a long term cooperation and technical assistance agreement



The world is facing a crisis in terms of drinkable, clear, healthy water.

Aquamats mission is to ensure that this very precious resource is made available at the most cost-effective price through practical and reliable technology that will empower people.

Since 1968 we have been developing and supplying innovative products.

We continually develop and improve our products. We also supply Internationally, wherever our products are needed and find a use!

We make our technology available to both Governments and private individuals. Our track record speaks for itself.

We tailor products to suit particular needs and conditions. Most of our products are tested in the field under very harsh African conditions.

Our products also need to have a low level of sophistication to ensure ease of operation by people who do not have a technological background. This implies minimal maintenance and built-in reliability to benefit all conditions, whether First or Third World!



Fully Mobile Water Purification Systems are manufactured according to requirements. Caged or boxed units (depicted) are available. These can be towed to any water source and within minutes provide crystal clear, safe drinking water to entire communities.



Static Water Purification Systems, tailor-made, can be installed at any water source to provide crystal clear, safe drinking water for entire communities.



Various sized Reverse Osmosis Systems, complete with pump, are available. These systems deliver up to 15 000 litres potable water per day.

A range of Ultra Violet (UV) Steriliser Systems are manufactured to requirements. These can deliver up to 36 000 litres of 100% germ free, sterile water per hour.



Industrial Super Size Filter Banks are tailored to requirements. This example delivers 477 699 litres of filtered water per hour!

Micron Horizontal Filters: space saving, high performance design give uniform flow from both inlet and outlet collection assemblies. Available with a 500mm(M) and 1200mm(MD) filter media bed. Natural flow is greatly enhanced and Hydraulic efficiency improved.



Smaller, mobile filter systems on skids are manufactured to fit on the back of a delivery vehicle or trailer. These, like the fully mobile or static units, provide clean, sterile drinking water with a flow rate up to 10 000 litres per hour.

The Aquamaster Catalytic Ioniser conditions water containing harmful elements such as minerals and metals as well as hard water, saline and brackish water for domestic, industrial or irrigation purposes. Scaling is prevented, water leaching is improved resulting in less water required and improved plant growth.



For more information contact us or visit our website!

- Tel: 27 11 472 1311
- E-mail: [aquamat@mweb.co.za](mailto:aquamats@mweb.co.za)
- 10 Goldman Street, Florida, Gauteng, South Africa, 1709.
- Fax: 27 11 672 7592
- Website: www.aquamats.co.za
- P.O. Box 1137, Florida, 1710. Johannesburg, Gauteng, South Africa.

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YOUR QUAY TO SERVICE EXCELLENCE

Aquamat (Pty) Ltd

Aquamat (Pty) Ltd acknowledges the preciousness of water in our quest to develop and make available products that enable humans to utilise water to maximum benefit without further degradation thereof.

Aquamat is a South Africa-based solutions company operating from Florida in Gauteng Province. Our mission is to ensure that water is made available at the most cost-effective price with practical and reliable technology that will empower individuals and communities. Since 1968 we have developed and supplied innovative products to local and international customers.

We continuously develop and improve solutions. Our technology is available to governments as well as individuals. Our track record speaks for itself, especially in agriculture requiring irrigation water that prevents scaling and optimises ground leaching and plant water absorption. Specialised equipment processes water to ensure crystal clear, healthy drinking water from source, be it a river, dam or borehole. Industrial water for manufacturing processes requiring sterile and 100 per cent pure water is delivered through tried and tested systems, tailored to requirement. Most of our products are field-tested under harsh African conditions.

Operating in remote areas, often under inaccessible conditions, means we need to provide products that are cost effective, with as low a level of sophistication as possible, to ensure ease of operation. This implies minimal maintenance and built-in reliability to benefit all conditions, whether First or Third World!

Call us and discuss your needs. We may have a ready-made solution! www.aquamat.co.za

with Suez Environment, a provider of drinking water, wastewater treatment and waste management solutions that today has more than 70,000 industrial clients worldwide. The second was a joint venture with operations and maintenance specialist WSSA (Water and Sanitation Services South Africa) to provide advanced water treatment solutions for the industrial markets of Africa and the Middle East. Through this joint venture Proxa also began to establish a collaborative relationship with Mea Aqua, a Luxembourg-based organisation that provides water services to Africa and the Middle East.

In 2007, Proxa had launched its Aqua Mobile and Q-Trak divisions and H2O Unlimited followed in 2008. Finally in 2009 the company merged formally with WSSA to establish Proxa as a provider of complete water cycle solutions to the industrial sectors of Africa and the Middle East.

The company has administrative offices in Woodmead, Johannesburg, and its design, technical support and research capabilities are located at Paarl in the Western Cape. Meanwhile, there are regional offices in seven of the country's nine provinces as well as site offices in various countries from the UK and France in the west to Vietnam and Malaysia in the east, and from Morocco and Lebanon to Botswana and Namibia.

The company's capabilities span the entire

industrial water cycle, from raw water and wastewater, to resource recovery and reuse, waste management and minimisation, and in-process optimisation. In line with its engineering consultancy origins, Proxa focuses on economic and environmental sustainability and offers a complete turnkey service, overseeing projects from the initial concept and development stage through installation and commissioning to ongoing operations and maintenance.

No two projects are ever approached in the same way. By working closely with the client, the company works to develop the optimal, integrated design that will satisfy the client's long term economic and environmental needs. And by so doing, the resulting solution often plays an important role in enhancing the site's operational efficiency. Moreover, by rejecting the easy and often used option of one-size-fits-all, Proxa is also able to deliver enhanced performance with significantly smaller plant size, thereby increasing the efficiency of water management and lowering capital and operating costs.

The company has developed considerable experience across a wide range of industries and private enterprises ranging from mining, metals processing and power generation through to food



We have the filtration products to remove contaminants from as small as 0.02 micron to over 3000 micron at flowrates from as little as 1 litre a minute to almost limitless.



FILCON FILTERS CC

Tel: 0860 FILCON (0860 345266), +27 (0)21 702-0979

Fax: +27 (0)21 702-1989 email: info@filconfilters.co.za

www.filconfilters.co.za

“The commitment by our teams to interacting closely with our clients and using feedback they give us is at the heart of our ability to continually improve”

Filcon Filters

Filcon Filters is one of the leading liquid filtration specialists in Southern Africa. Our business is supplying a wide range of filtration equipment for the removal of contaminants such as self-cleaning mechanical filters, bag and cartridge filter housings (stainless & carbon steel, polypropylene and PVC) as well as centrifugal separators, in line strainers, drum filters and sludge dewatering separators. We have built up a good working relationship with Proxa who have obtained a number of filtration products from us for the varied projects which they have undertaken. Quality products from suppliers whom we are proud to be associated with.

and beverage, chemicals, petro chemical and waste management industries. The link with WSSA has also provided significant experience and knowledge of providing water and wastewater service contracts for municipal clients. Not only does the company maintain and service bulk water and wastewater treatment facilities, but also reservoirs and pump stations, distribution pipes, secondary reticulation networks and sewer systems.

Innovation plays a key role in maintaining Proxa's leading position in this highly competitive field. The Paarl facilities house an extensive R&D lab, and the company works in close cooperation with strategic partners and clients to develop relevant and groundbreaking solutions, and often takes advantage of the close relationship it has built with a number postgraduate research institutions.



To date, the in-house R&D teams have contributed significantly to the development of technologies such as the separation of protein and amino acids from effluent, and the integration of mari-culture into seawater desalination, through to catalyst recovery from pharmaceutical processes. The R&D teams have also played a role in the development of a national brine disposal strategy.

Industrial and businesses clients, however, do not always have the luxury of long term planning and design, particularly if timelines are very short, the requirement is temporary, or an emergency has occurred to legacy equipment. And in recognition of this, Proxa launched its Aqua Mobile rapid deployment services in 2007. This division does exactly what its name implies and provides high quality, customisable mobile water treatment systems mounted on skids and trailers that can be delivered at short notice to the customer's site.

The Aqua Mobile systems come complete with operations, maintenance and technical support, are supplied on a rental basis, and provide the



reassurance of business continuity. To date, these units have been employed in an extensive range of applications. For example, they have provided temporary water supply, mine water desalination, boiler feed water, side stream cooling tower filtration,



Pump Logic

Pump Logic is a distributor for Grundfos Pumps which is one of the largest and most technologically advanced pump manufacturers in the world. We offer technical design assistance for pumping systems for commercial buildings, sporting facilities, high pressure cleaning and boiler feed pumps for factories; from raw or recovered water supply to reverse osmosis, filtration and reticulation plant.

reduction of effluent dam levels, maintenance shut down supplies, power plant commissioning, seasonal capacity increase and emergency potable water supply.

To complete the service offering, Q-Trak is a web-enabled remote monitoring system which enables the

company to track the performance of important and critical water systems and to provide rapid technical support and preventative recommendations to plant operators and process managers. And finally, H2O Unlimited is an environmental and quality management subsidiary that provides water quality monitoring and process support services both internally for Proxa and for its clients.

According to CEO Elie Sakhat, the secret of the company's success lies in a strong client focus across all disciplines, from development consultants and engineers through to the commissioning and operations teams. "It's a mix of anticipation, proactivity and reactivity that ensures our clients' expectations are met at all times. And the commitment by our teams to interacting closely with our clients and using feedback they give us is at the heart of our ability to continually improve." www.proxa.co.za

pump logic cc

The line of products that Grundfos has to offer covers a wide spectrum of applications. Each model is available in a number of variants and thus, the Grundfos product programme covers almost any conceivable application within the water treatment industry.



If the standard range does not comply fully with our customers' requirements customised models can be provided. This option includes customisation of pump performance, electrical and hydraulic connections and monitoring and control equipment.

Phone 021 552 3116
 Fax 021 555 0934
 Cell 083 461 4996
pumplogi@iafrica.com

PO Box 361 Edgemoed 7407
 Unit 7 Railway Park, Railway Road
 Montague Gardens

PROXA

www.proxa.co.za