BROLGA - WHAT IS IT?

Many parts of the developing world - and some rural locations elsewhere - do not have access to a centralised supply of clean water, making people dependent on unreliable and expensive decentralised systems for their water.

Water Source Australia is changing all this with the introduction of the Brolga. The Brolga contains the latest thinking and technology to deliver safe drinking water to single or multiple properties in the absence of centralised infrastructure.

Amazingly, the small 'plug and play' unit means that even highly contaminated water can be transformed to meet World Health Organization drinking water standards, anywhere, anytime.

THE WATER SOURCE BROLGA
A GAME CHANGER IN WATER PURIFICATION

Inside the sleek outer casing of the Water Source Brolga is a multi-stage system that removes bacteria before micro-filtering and ultraviolet (non-chemical) disinfection.

The unit measures just 120 x 60 x 180cm and is easily transportable by truck or freight. It can be plugged straight into mains electricity or 24-volt solar power, backed by a battery, in more remote areas.

There is no ongoing requirement for use of chemicals and additional stages of purification can be added if required. Most monitoring and maintenance of the Brolga is taken care of remotely so you don't need to do anything and can have confidence in the quality of your water at all times.

BROLGA KEY FEATURES

Live monitoring & control
Owners can monitor and receive reports on their Brolga via the web or mobile apps.

Low cost communications
Brolgas currently run on 3G/4G/5G cellular networks, with Wi-Fi connectivity a future option.

Anti-theft
The Brolga will shut down if it is tampered with or moved.

Removes particles
Larger than 0.05 microns will be removed by the Brolga. A particle this small would be invisible to the human eye and includes disease causing microorganisms like bacteria and viruses . A human hair is 80-100 microns in size by comparison.

Raspberry Pi
Brolgas have an industrial Raspberry Pi inside. This may sound delicious but it is actually an industrial grade single board computer which controls the operation and provides highly secure data encryption.

Learns from its own operations
The Water Source Brolga learns from its own operations - and that of other Brolgas around the world - to create the most efficient maintenance program.

IoT CONNECTIVITY

Water Source Australia uses the Amazon Web Service (AWS) cloud to deliver a highly secure Internet of Things (IoT) platform that will support millions of Brolgas across the globe. The IoT platform enables remote monitoring and control of all units from any location, as well as providing data analytics and machine learning for predictive maintenance.

HOW DOES IT WORK?

01 Device Control System

Powered by an industrial grade single board computer incorporating a hardware security module, the device control system continually monitors the health of the unit and collects over 30 data points every second to make intelligent decisions to ensure safe drinking water is always produced.

02 Communications

All communications between the Brolga and the cloud is encrypted and sent over the 4G cellular network (with 3G fallback). Support for Wifi coming soon.

03 IoT Cloud Platform

The AWS IoT platform can collect, store, and analyse billions of data points from the Brolgas. Machine learning algorithms will enable predictive maintenance to minimise servicing requirements.

04 User interaction

Web and mobile applications provide dashboards to monitor the operation of all Brolgas. Consumers and engineers can be alerted to any potential problems with the Broglas, and authorised users can remotely diagnose control units if necessary.

THE BENEFITS OF BROLGA

Up to 10,000 litres of clean drinking water a day

Can use 24-volt solar power or mains electricity

State-of-the-art remote monitoring and maintenance

Uses proven technology and no chemicals

Cost effective installation and operation

WANT TO KNOW MORE?

Reach out to us for an introduction to Brolga.

+ 61 419 889 770
info@watersourceaustralia.com.au