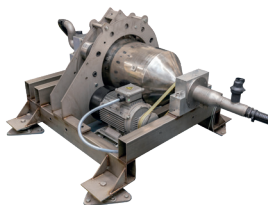


## THE GM INNOVATIONS (GMI) RANGE OF WATER TREATMENT & CONTAMINANT SEPARATION DEVICES



ROTAFLOW®



MKI Mobile Unit



MKII Compact Unit



HYDROROTOR®

### THE BLUE GOLD OF THE FUTURE

The development of **HYDROROTOR®** is for the provision of safe drinking water on a certified, continuous basis for rural private water users here in scotland with ongoing global development opportunities into decentralised water supplies.

### THE ROTAFLOW® HYDRATED CENTRIFUGAL CONTAMINANT SEPARATOR

- INNOVATIVE **ROTAFLOW®** CONTAMINANT SEPARATORS DEVELOPED, USING “CENTRIFUGAL FORCE”
- DELIVERING PROCESS CAPABILITY FOR CONTINUOUS WATER PURIFICATION
- **ROTAFLOW®** DEVELOPED FOR APPLICATIONS IN THE OIL & GAS, WATER AND MINING SECTORS
- A SUBSIDIARY OF GMI, **HYDRO INNOVATIONS LIMITED** FURTHER DEVELOPED **HYDROROTOR®** FOR THE PROVISION OF SAFE DRINKING WATER
- THE ROTAFLOW® PORTFOLIO OF SEPARATORS ARE PROTECTED BY SEVERAL FAMILIES OF PATENTS WITH NINE PATENTS GRANTED IN US, EUROPE AND RUSSIA AND ANOTHER 22 NATIONAL AND INTERNATIONAL APPLICATIONS IN PROCESS.

### THE GMI HYDROVOYAGER® MKI AND MKII

- GMI PRODUCED MOBILE WATER PURIFICATION UNITS **HYDROVOYAGER® MKI AND MKII**
- FILTRATION AND BACTERIAL TREATMENT FOR CONTAMINATED WATER
- DESIGNED FOR THE USE OF AID AGENCIES IN DISASTER AREAS
- SYSTEMS INSTALLED IN AFRICA AND SPAIN
- DESIGNED FOR PORTABLE / MOBILE / STATIC APPLICATIONS AND RANGE OF GEOGRAPHIC LOCATIONS
- **HYDROVOYAGER®** WAS SPECIFICALLY DESIGNED TO MINIMISE SUPPORT AND MAINTENANCE

### THE HYDRO INNOVATIONS LIMITED HYDROROTOR®

The separator element uses centrifugal force to remove the particulates that has a higher specific gravity (sg) or density, from the water that is then securely filtered and bacteria treated to certified drinking water standards.

The process is continuously monitored both on site and remotely using a telemetry system with advanced transducers including water purity sensors that ensures consistency and quality of operation

This drinking water technology is licenced to the **GMI** subsidiary **Hydro Innovations Limited (HI)** that is focused into water applications.

# GM Innovations Limited

THE GMI ROTAFLOW® HYDRATED CENTRIFUGAL SEPARATOR IS A SIMPLE, STATE OF THE ART MACHINE THAT IS A GAME CHANGER IN THE USE OF CENTRIFUGES FOR A RANGE OF APPLICATIONS INCLUDING THE PROVISION OF DRINKING WATER WITH HYDROROTOR®

## MARKET STRATEGY

Private water users here in Scotland with ongoing global development opportunities in the provision of potable drinking water and the decentralisation of water supplies here in the UK and Worldwide.

## THE HYDRO INNOVATIONS LIMITED HYDROROTOR®

- ▶ The device is designed to incorporate an on-board plc (programmable logic controller), scada (supervisory control and data acquisition) package allowing the continuous monitoring of all process outcomes together with a telemetry system to transmit these parameters to a central monitoring and management control station.
- ▶ By removing the organic matter at the input, the degradation effect on filtration effectiveness is dramatically decreased and through continuous monitoring, ensures that safe and certified levels of purity are maintained.
- ▶ The extraction of particulates to levels measured in ppm (parts per million) has already been proven with ROTAFLOW® and the quality of the purification of water confirmed with HYDROVOYAGER®.

## HYDRO INNOVATIONS LIMITED THROUGH MARKET RESEARCH ADAPTED AND DEVELOPED HYDROROTOR®

- ▶ HYDROROTOR® uses proven and tested technologies to meet the latest defined and legislated water supply criteria.
- ▶ The integration of 21st century technology was introduced to provide accurate process measurement using specialist transducers.
- ▶ HYDROROTOR® has the ability to transmit from rural locations to global local support centres and the HYDRO INNOVATIONS control centre in Scotland.

## THE OPPORTUNITY

- ▶ ROTAFLOW® is a 'new concept' fully patented separator for a range of solid contaminants and fluids based on hydrated centrifugal force.
- ▶ The process treatment package aligns with the global understanding on the importance of water as a commodity
- ▶ Scotland branded as HYDRONATION are very supportive of environmentally friendly processes especially water treatment innovations.
- ▶ HYDROROTOR® is a scalable water treatment process for the provision of potable drinking water
- ▶ Applications also under development include the treatment of surface water from streams and rivers to provide safe potable drinking water.

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