ABB – the world’s leading supplier of motors and variable speed drives

For water and waste water applications, ABB motors and drives bring many benefits – including major efficiency improvements and energy savings, as well as reduced wear and tear on moving equipment. In addition, motors and drives provide better control of the water quality, increased process automation and minimum energy consumption.

These benefits boost the cost efficiency of processing plants and can help to:
- Reduce cost of water supply
- Recover raw material and/or product
- Reduce effluent treatment costs
- Improve asset life
- Increase plant availability/output

Instrumentation for the water and waste water industry

With unrivalled expertise, ABB supplies world-class products, solutions and service that are certified to international standards. Its extensive portfolio includes instrumentation for flow measurement, analytical chemistry, and pressure and temperature recording and control.

ABB can offer complete solutions, products and services for:
- Water Extraction
- Desalination Plants
- Water Treatment
- Pumping Stations
- Waste Water Treatment
ABB low voltage drives are in use throughout the water processing industry, regulating a wide variety of pumps, fans, compressors and conveyors in flow and pressure control applications. ABB’s variable speed AC drives help to optimize the water supply, process use and effluent treatment, improving the industry’s overall competitiveness.

LV drives products:
- Component drives 0.12 to 2.2 kW
- Standard drives 0.75 to 355 kW
- Industrial drives, single drives 0.55 to 2800 kW
- Industrial drives, multidrives 1.5 to 5600 kW

In the water and waste water industry, low voltage motors are mostly used in pump applications. ABB offers two standard motor ranges, ensuring that the right motor can be found for every purpose. ABB motors are designed and manufactured for reliability and efficiency, with motors available in EU efficiency classes EFF1 and EFF2.

LV motors:
- Process performance motors for demanding applications, cast iron and aluminum frames, 0.25 to 710 kW
- General purpose motors for standard applications, cast iron, aluminum and steel frames, 0.06 to 630 kW

ABB’s medium voltage drives are the perfect solution for the water and waste water industry. They incorporate state-of-the-art technologies developed by ABB: DTC (Direct Torque Control) for the highest torque and speed performance as well as lowest losses ever achieved in MV drives, and IGCT (Integrated Gate Commutated Thyristor) semiconductor power switching devices for more efficient, reliable and compact MV drives.

MV drives products:
- ACS 1000 standard drive for new or existing motors, 315 to 5000 kW
- ACS 6000 drive for synchronous or induction motors up to 27 MW
- LCI, variable speed drive and soft starter up to 100 MW

ABB offers a comprehensive range of high voltage motors, built around a modular platform. The simplicity of this concept allows them to be perfectly engineered according to each individual customer’s requirements and applications. High efficiency, together with a range of advanced ventilation technologies, results in considerable energy savings over the life of the motor.

HV motors:
- Modular induction motors ranging up to 15 kV and 18 MW, 50 and 60 Hz
- High voltage cast iron motors ranging up to 2250 kW
- Synchronous motors
ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs around 105,000 people.

ABB offers a full range of low and medium voltage products and systems for the water and waste water industry. Our offering covers electrical systems, water leakage management, lift station diagnostics, plant information management, water utility services and utility communications, as well as products and services for pumping stations and water and waste water treatment.