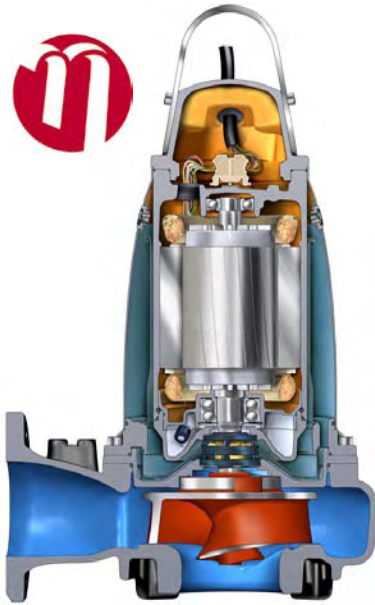


Flygt Municipal Newsletter

Fall 2005, First Edition



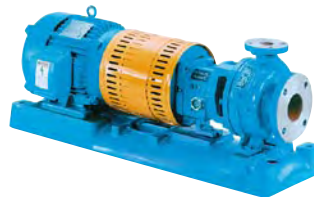
Welcome to the new ITT Flygt Canada Municipal Newsletter!

This is the first issue of the Flygt Canada Municipal Newsletter. We hope you find the contents both informative and of interest. The intent is to publish several issues each year with articles of interest to the Flygt customers regarding processes, products and events of interest to the Public Utilities Market in Canada.

Anthony Altavilla
Market Manager, Public Utilities

ITT Flygt expands product offerings to meet your requirements for clean water and sludge.

ITT Flygt is proud to announce that it is the exclusive distributor for the Canadian Municipal Market for the products of its sister company, ITT Goulds Industrial Bio-Pharm Division. These products include end suction, double suction and large vertical turbine pumps that are sold under the ITT Goulds and ITT AC brands.



In addition, ITT Flygt is offering a complete line of progressive cavity pumps. Together with the N-pump and its superior solids handling capacities, this will provide a wide range of solutions to satisfy requirements in the pumping of municipal sludge through the various stages of the treatment process. These well established products, which are used in handling both water and wastewater applications are well known for their excellent quality and design. Please contact a Flygt Canada sales office near you for further information and assistance in the application and selection of these products.

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Flygt



ITT Industries

Life Cycle Costing, a valuable concept.

Life Cycle Cost is a valuable concept that helps us focus on ensuring we evaluate all costs in our decision-making process for purchasing equipment. Initial cost is a major consideration in determining what to buy but other factors must also be considered. Factors that affect the total cost of ownership must be considered to make a founded decision. ITT Flygt is happy to participate in a major initiative together with Hydraulic Institute and Europump to better understand Life Cycle Costing.

Life cycle cost analysis is used when comparing life cycle costs for different pumping solutions. Future energy costs and miscellaneous annual costs are calculated into a capitalized present day value based on the selected interest rate. The calculation is based on the summation of the cost elements that make up the LCC.

$$LCC = (C_{ic} + C_{in} + C_e + C_o + C_m + C_s + C_d + C_{env})$$

C = cost element

ic = initial cost, purchase price (pump, system, pipe, auxiliary services)

in = installation and commissioning cost (including training)

e = energy costs (predicted cost for system operation, including pump driver, controls, and any auxiliary services)

o = operation cost (labor cost of normal system supervision)

m = maintenance and repair cost (routine and predicted repairs)

s = down time cost (loss of production)

d = decommissioning/disposal cost (including restoration of the local environment and disposal of auxiliary services).

env = environmental cost (contamination from pumped liquid and auxiliary equipment)

The N-pump: a success story that saves you costs.

ITT Flygt expands product range of the N-pump family.

In the short few years that have passed since ITT Flygt has introduced its revolutionary N-pump hydraulics, thousands of customers have experienced first hand the superior solids handling capabilities of this new impeller design. It has proven over and over again its superior sustained efficiency characteristics.

Sustained efficiency is the term we at ITT Flygt use to designate the N-impellers' ability to keep on pumping even though there are rags, rubber gloves and other detritus in the wastewater that have clogged other impeller designs.

The importance of sustained efficiency to the Life Cycle Cost (LCC) equation is significant. When we consider all the factors that affect the cost of owning and operating a piece of equipment, sustained efficiency is a key factor in terms of energy consumption.

Pump companies publish efficiencies based on water performance. These do not properly reflect operating conditions when pumping sewage and heavily laden wastewater unless the impellers are properly designed to handle the pumped media. Too often, rags and other materials can accumulate around a leading edge to either partially or completely clog the passages in the impellers. These conditions can cause increased vibration, shortened life of components and increased operating and energy costs.

The use of pumps that provide sustained efficiency, and our N-pumps provide excellent sustained efficiency, is fundamental to minimize operating costs.

We are expanding the family of N-pumps. Our mid-range N-pumps can now produce heads in excess of 80m. We are introducing the revolutionary N-pump hydraulics to our large pumps. Please contact your local branch. They will be most pleased to provide you additional information on these new pumps.

The new sizes are:

N-3153 SH

N-3171 SH

N-3231

N-3306

N-3312

N-3356

N-3400



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ITT Flygt - Proud sponsor of CSJWP.

Ontario high school students compete in the International Stockholm Junior Water Prize competition.

Patrick Danielson and Robin Miron, both of North Bay, Ontario, have recently returned from the Stockholm Junior Water Prize (SJWP) competition in Stockholm, Sweden. The two 17-year old students, from Algonquin Secondary School, won the Canadian competition, held last May in Vancouver. Patrick commented that "it was one of the best weeks of my life". He and Robin passed on thanks to all of the Canadian organizers and sponsors, who made the trip to the competition possible.

Student teams from 27 countries participated in the week long competition. The team from South Africa was awarded the prestigious Stockholm Junior Water Prize in a formal ceremony at Dansens Hus in Stockholm. The award, presented

by Crown Princess Victoria, on behalf of the Stockholm Water Foundation, is accompanied by a \$5000US scholarship and a crystal sculpture.

The prestigious SJWP event recognizes students for excellence in water research. The Canadian SJWP competition is organized by the Canadian Affairs Council of the WEF. The Canadian Water and Wastewater Association (CWWA), Canadian Member Associations of WEF and ITT Flygt Industries provided funding. For more information, visit: www.stockholmjuniorwaterprize.org

Flygt Canada congratulates the participants and we are proud to be a sponsor to the CSJWP.



Introduction of the new MAS 711 pump monitoring system.

A new age has arrived in monitoring large pumps. The MAS 711, which is replacing the CAS, is now our standard Monitoring and Supervision package. The MAS 711 pump monitoring system is designed to assure optimal operation by monitoring and recording pump measurements. These can be viewed quickly and easily by using a web server. By using this system over a pump's lifetime, reliability is increased and costs can be significantly reduced. MAS 711 consists of a base unit located in a control panel, an operator interface panel and a pump memory located in the pump.

The system monitors a pump's temperature, leakage, vibration, current and power, running time and amount of starts and stops. Alarms are listed on a browser page, linked to an alarm plot function, which can be used for troubleshooting and maintenance. Settings for the customer's selection of sensors are factory pre-loaded in the pump memory. These are uploaded to

the base unit at installation, greatly simplifying setup. All the information gathered by the system can be viewed at any time via a standard web browser. The MAS 711 pump monitoring system is compatible with most Supervision, Control and Data (SCADA) systems.

Your local representative would be pleased to provide any additional information you may require.

