

Introducing
the **Ultimate** in
Peace and Quiet





**Syllent Hydrotherapy
Dramatically Improves
the Benefits of Owning
a Whirlpool Bath**

A Syllent Revolution



With its ultra-quiet operation, Syllent makes the whirlpool bath experience more relaxing and enjoyable.

With its revolutionary centrifugal motor-pump technology, Syllent dramatically improves the benefits of owning a whirlpool bath. This extraordinarily innovative integrated pump and motor design provides the quietest whirlpool bath experience available today, while delivering unparalleled comfort and value-added features not found in traditional bath pumps.

Syllent Hydrotherapy Changes Everything

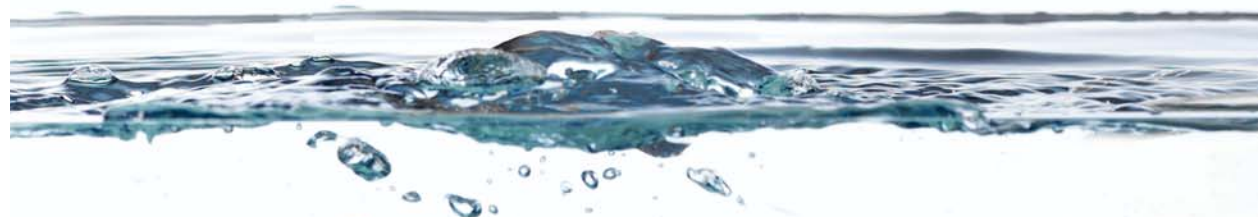
When consumers are choosing whirlpool baths, they tend to look at the design and size of the bathtub, the number of jets, and perhaps the horsepower rating of the pump. What they might not know is that the heart of the whirlpool bath – the pump – is changing.

Over the past 30 years, little has changed in the fundamental design and operation of whirlpool baths. Today's units are just as noisy and energy-inefficient as earlier models. Even the add-on components that have been introduced, such as electric heaters and electronic water sensors, have not improved comfort or performance significantly. At best, electric heaters barely maintain water temperature, and very low wattage heating options hardly heat the water at all.

Syllent changes all of this. The result is a major leap forward in the comfort, ultra-quiet performance, energy efficiency, reliability and safety of whirlpool baths.



The Ultimate in Peace and Quiet



Revolutionary Syllent Technology and Design...A Whole New World of Benefits

- Syllent is the **quietest** bath pump in the world, enhancing the overall whirlpool bath experience. It's perfect for use in the home, in the hospitality industry, or any noise-sensitive area. Traditional whirlpool bath pumps are typically very noisy, which detracts from the whirlpool bath experience and also disturbs others in surrounding areas.
- Syllent **maintains hot water temperature and substantially delays water-cooling** by capturing and circulating the heat energy from its motor. Heat energy produced by traditional motors is dissipated by a (noisy) cooling fan into the ambient air under the bathtub.
- Syllent is **safe** – its composite construction provides triple electrical insulation. It could even run if totally immersed in water. Traditional pumps require electrical isolation between the pump and motor.
- Syllent features its own **internal water sensor**, which automatically shuts the pump off in the absence of water. Add-on electronic water sensors are typically required in traditional pumps to protect against running dry.
- Syllent **cannot leak** – by design it has no shaft seal. The shaft seal between the wet end assembly (pump) and the motor in a traditional pump deteriorates over time, resulting in leaks.
- Syllent features a unique, all-inclusive design that provides **outstanding performance with low energy consumption**. Traditional pumps, with their cooling fans, inefficient motors and impeller assemblies, typically have high energy consumption.



Discerning consumers will appreciate the tranquility and comfort of their whirlpool baths provided by Syllent technology.



The Syllent Story

Syllent is the latest innovative product developed by Eberle Equipment & Processes, the technology and research division of Mundial S.A., a Brazilian company founded in 1896. After extensive product and market research, Mundial engineers developed a special composite that enabled them to create a truly unique product. Built upon Eberle's motor manufacturing tradition, Syllent is the result of applied research and development in the fields of flow analysis, tribology and electronics. Its design creates a hydro-magnetic bearing, the patented core concept behind the extraordinary performance of Syllent. Only this technology can meet the consumer's need for the highest flow performance coupled with the quietest fluid motion. This innovative technology is complemented by Mundial world-class manufacturing and engineering; the company's quality management system has been certified ISO 9001:2000-compliant since 1996. Mundial Inc. is the U.S. distribution arm of Mundial S.A.

Syllent Pump vs Traditional Pump

With its revolutionary technology and design, Syllent delivers all the functionality of a traditional motor, pump and fan in one totally quiet, totally safe, totally dependable unit.

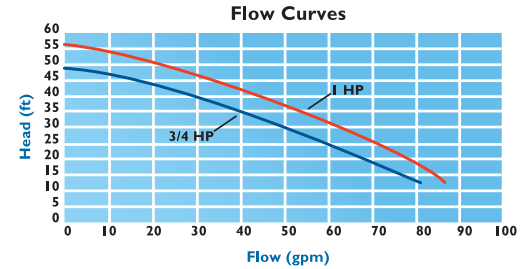
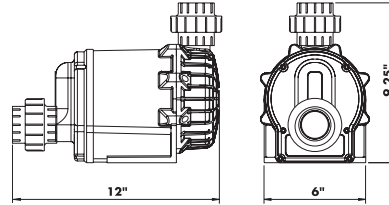
The traditional motor-pump combines an electric motor and a pump (isolated by a mechanical seal) attached to a cooling fan. The result is a noisier, less efficient system that may eventually leak.



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Technical Features and Specifications

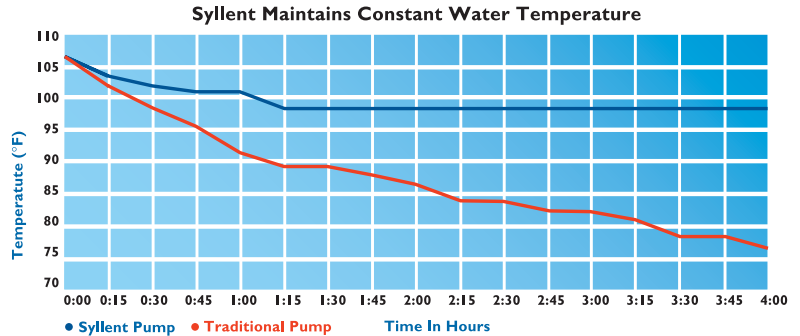
- Self-draining, single stage, centrifugal motor pump
- Less than 5 dB(A) ambient noise
- Maintains constant water temperature through heat exchange
- Unprecedented three-way auto-off protection – lack of water, blocked rotor, overheating
- Unique water-cooled design – no need for external ventilation
- Shielded with IP68 protection – total protection from dust or submersion
- Electrically isolated and non-oxidizing
- Synchronized hydro-magnetic rotor/turbine/bearings
- Resin encapsulated wound stator
- Highly energy efficient
- No dynamic seals (mechanical seal type)
- Single phase motor with permanent capacitor (115V or 230V)
- Power cord with internal ground wire and NEMA three-prong plug



Model #	Voltage (V)	Power (HP)	Current (amp)	Consumption (W)	Pipeline Suction	Pipeline Discharge	Sound (dB A)	Weight (lbs)
MB71-31AS/UL	115	3/4	7.6	857	1.5" w/unions	1.5" w/unions	<5	16.25
MB71-32AS/UL	115	1.0	9.4	1080	1.5" w/unions	1.5" w/unions	<5	18.25
MB71-35AS/UL	230	3/4	3.8	857	1.5" w/unions	1.5" w/unions	<5	16.25
MB71-36AS/UL	230	1.0	4.7	1080	1.5" w/unions	1.5" w/unions	<5	18.25



U.S. Patent: 10/050,033



Test Situation: 53 gallon tub with 5 jets



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