



# imPulse™

## imPulse™ - the programmable spa motor

The imPulse™ electronically commutated motor (ECM) combines the rugged efficiency of a permanent magnet, brushless-DC motor with the sophisticated capabilities of an onboard control processor that interfaces with a spa's control panel. When coupled with our proprietary software, designers can program new and better functionality into the pump motor. The result is a variable-speed pump motor, whose nearly unlimited range of operating speeds give it the unprecedented ability to execute programmed commands.

Some of the key features of the imPulse™ include:

- Full programmability allowing the spa manufacturers to add depth to the spa's massage features by continuously modifying motor speed and water flow
- Wide speed range from 400 to 4000 RPM means the spa can run more quietly by reducing water turbulence
- The brushless-DC, permanent-magnet design, is inherently more efficient than a conventional PSC motors. The programmability of the imPulse pump motor also offers spa manufacturers the opportunity to eliminate the circulation pump and reduce power consumption by up to 64%
- imPulse™ is built on the ECM technology that we have manufactured for the HVAC market for over 20 years, ensuring that the benefits of the imPower motor can be experienced for years to come

## Technical specifications

- Horsepower: 1.8 HP
- Speed: 400-4000 RPM
- Voltage: 230V
- Design: NEMA 56-frame
- Interface: Digital Serial Interface (DSI) provided by Spa OEM
- Bearing System: Ball Bearings
- UL-approved
- Permanent Magnet Brushless DC

