



## A simple, cost-effective VGBA solution to prevent pool and spa entrapment



ASME A112.19.17 approved  
and CPSC recognized as an  
**Automatic Pump Shut Off System to meet VGBA**



# Simply Saving Lives . . .



The PSP20 uses the existing Pump Motor as a sensor to protect swimmers from the horrific injuries and loss of life caused by pool & spa entrapment.

When a spa or swimming pool pump experiences a loss of suction caused by the drain being blocked, the PSP20 detects a significant drop in motor load and shuts the pump off within 1 second.

## Virginia Graeme Baker Act

Over the past two decades, there have been 147 documented incidents and 36 deaths caused by Entrapment in Swimming Pools and Spas.

In December 2007, the President signed into law the **Virginia Graeme Baker Act**, requiring public pool and spa operators to install specific safety devices to prevent further injury and loss of life. Facilities having a single main suction outlet or two or more outlets within 3 feet of each other are required to have a second layer of anti-entrapment protection; the PSP20 is an approved device. Full details of the requirements of the Act can be found at the Consumer Product Safety Commission's website: [www.poolsafety.gov](http://www.poolsafety.gov)

## Simply Saving Lives!

Using the existing pump motor as a sensor, Emotron's patented Shaft Power Monitoring technology will reliably detect a swimmer blocking the suction drain and quickly shut off the pump. The PSP20 accurately monitors motor power to either single-phase or three-phase pumps.

Alternative mechanical solutions such as vacuum-based SVRS are labor-intensive to install, maintain, and require modifications to the plumbing.

## Simple to install

The PSP20 is supplied as a fully-assembled control panel designed to be installed between an existing pump control panel and the pump motor. Installation typically takes less than one hour - with just one trade skill, an electrician.

## Simple to set up

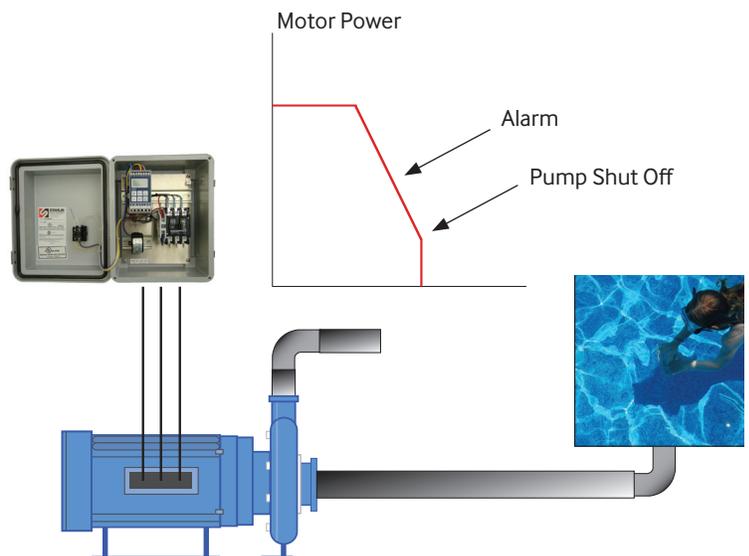
Once installed, programming the PSP20 takes just minutes.

The Motor's HP, Full Load Amps, and the number of phases are the only parameters needing to be set. Once the pump is operating in normal conditions, calibration takes just 3 seconds!

Providing the pool's filtration equipment and pump are correctly maintained, we **guarantee** no false alarms. Before selecting your supplier, we recommend that you ask them to commit to the same standard!

## Filter Backwash / Pool Cleaning

Unlike SVRS-based principles, the PSP20 is impervious to the effects of filter backwashing and pool vacuuming. There is no need to disable the PSP20's protection during these activities - thereby eliminating another layer of system complexity and at the same time, maintaining entrapment protection 100% of the time.



# Compliance in One Hour!

## Pump Prime Time

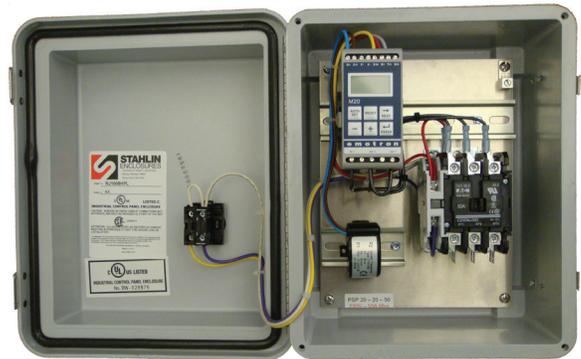
In instances where the pool pump may require an extended period to re-prime itself (e.g., after the pool has been drained or when the pump has been disassembled), the pool operator may extend the PSP20's 'Motor Start Delay' time. The preset time is 180 seconds. Once this time period has expired, entrapment protection will be automatically enabled.

## UL Listing

Many regions of the USA insist that products having greater than 27 Volts applied to them must be listed to UL standards. The PSP20 is listed to **UL508A**.

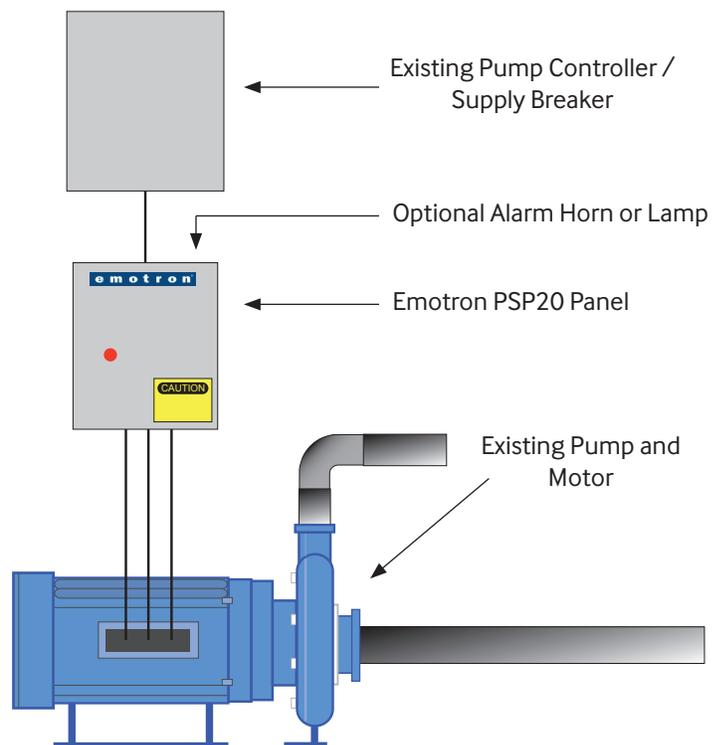
## Key Features

- Automatic Pump Shut-Off System - Tested and approved to ASME-A112.19.17 SVRS standard
- No suction connection - **NO** future leak issues
- **Reliable** - Based on 350,000+ pump monitor installations over 20 years
- **NO** nuisance faults - **GUARANTEED** <sup>(4)</sup>
- UL508A approved - critical for many regions of the USA
- Simple to install and setup (one hour or less)
- Patented 'Autoset' feature allows for calibration in three seconds with the push of a single key
- Password protection prevents unauthorized "tampering"
- Unaffected by Hydrostatic Relief Valves
- No winterization requirements
- Lowest overall cost of ownership
- No modifications to existing controls
- No wearable parts
- No battery backup required
- Uses existing pump and motor



## Important Notes:

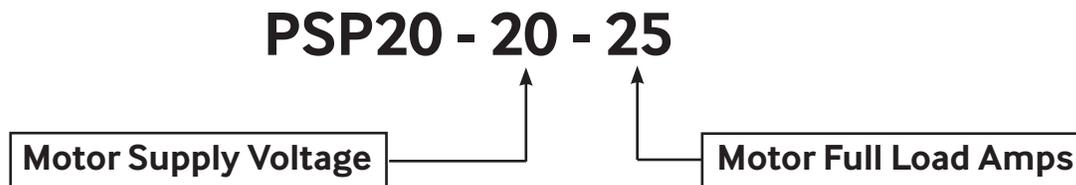
1. H<sub>2</sub>flow recommends that you review all relevant published Federal and State publications prior to installing any device intended to protect against pool and spa entrapment.
2. It is the pool operator's responsibility to frequently check the system's operation.
3. Equipment must be installed (i) by a qualified technician within the trade required for installation, (ii) in compliance with the manufacturer's and/or distributor's instructions and/or installation manual, and (iii) without modification of any kind to the equipment or to the installation instructions and or protocol. Buyer will operate the equipment (i) under normal conditions specified for it (ii) for the purpose, and within the operating limits for which it is designed and specified, and (iii) without misuse, abuse or neglect. Buyer shall properly and timely conduct all maintenance, testing and inspections of the equipment recommended in the instructions, and all safety mechanisms and devices shall be in place and in operation at all times, without modification.
4. Pool & Spa Filters, Strainers and Pumps must be correctly maintained in order to avoid false alarms.



## Available PSP20 Models

PSP20 Model #	Motor Voltage	Full Load Amp Range	No. of Phases	Motor HP Range
PSP20-10-25	120	0.4 - 25	1	0.5 - 1.5
PSP20-10-50	120	26 - 50	1	2.0 - 3.0
PSP20-20-25	208/240	0.4 - 25	1	0.5 - 3.0
PSP20-20-25	208/240	0.4 - 25	3	0.5 - 7.5
PSP20-20-50	208/240	26 - 50	1	5.0 - 7.5
PSP20-20-50	208/240	26 - 50	3	10.0
PSP20-20-65	208/240	51 - 65	1	10.0
PSP20-20-65	208/240	51 - 65	3	15.0 - 20.0
PSP20-20-100	208/240	66 - 100	3	25.0 - 30.0
PSP20-40-10	480	0.4 - 10	3	0.5 - 7.5
PSP20-40-25	480	11 - 25	3	10.0 - 15.0
PSP20-40-50	480	26 - 50	3	20.0 - 30.0
PSP20-40-65	480	51 - 65	3	40.0
PSP20-40-100	480	66 - 100	3	50.0
Remote Horn - 874-N5	120/480	N/A	N/A	N/A
Remote Horn - 874-R5	208/240	N/A	N/A	N/A

Note: The PSP20 can be supplied for larger motor HP in all supply voltages



## Other products from H<sub>2</sub>flow Pool & Spa Products Division

H<sub>2</sub>flow focuses on energy cost saving solutions for swimming pools, spas, and water features. For more information, please call us and ask us about our Eco-Flow product lines, or visit us online.



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