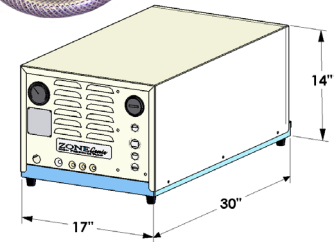


ZONE Genie

HIGH PRESSURE PUMPS

SG Series Zone Genie pumps are multiple outlet (Multi-Zone) high pressure pump systems. The outlet of the pump is comprised of one always open port and up to a three station bank of additional high pressure solenoid valves. Each outlet (zone) can operate independently. The pump is a single speed pump so attention to zone size is required. Extended bypass with integrated thermal protection combined with hydraulic shock dampening lessen the negative effects of a single speed multi-zone system. The result is an affordable multi-zone solution.

- ⦿ Catpumps® Industrial Grade Pumps, Leeson Industrial Motors
- ⦿ 20 Gauge Powder Coated Cabinet & Stainless Steel Hardware
- ⦿ Low Pressure, Thermal, & Pressure Relief Safety Systems
- ⦿ Grade A Pressure Gauge and Integrated Hour Meter
- ⦿ Variable up to 1250 PSI High Pressure Output
- ⦿ Maximum Efficiency in single speed system
- ⦿ Compatible With Any Switch Type Control
- ⦿ Zero to Three Independent Outlet Ports
- ⦿ Integrated Pulsation Dampening
- ⦿ Cross Flow Ventilated Cabinet
- ⦿ Extended Bypass Loop



SG Series

Single Speed

0 - 3 Zones

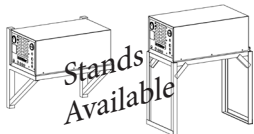
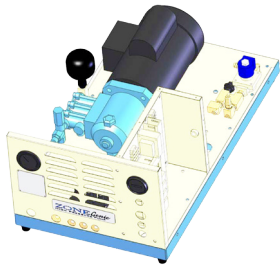
0.5 - 2.85 GPM

Medium Cabinet

Pressure Washer Limitations Mode

Single speed pumps are always pumping their rated GPM. Unused water is redirected back to the inlet of the pump in a bypass loop. When setting up zones it is important to pay attention to zone flow rates. The pump should never operate below 50% of its rated GPM. Many times this is accomplished by using the zero zone (the always open port) to operate a large enough zone to fulfill the 50% flow requirement. If the design calls for operation under 50% of rated GPM, it is recommended the pump is upgraded to a ZS or ZG series.

Used to create a permanent, always ready to go, property wide pressure washer system. Mist pumps and pressure washer pumps are both high pressure pumps. With the optional pressure washer mode, the always open outlet is routed to a single or multiple washing areas such as patios and garages. The pressure washer mode is activated with a switch next to each pressure washer port. Once activated, the pump is controlled by the trigger on the wand gun. Water delivery is limited by selected pump size and the set pump pressure.



Typical Pump Model Specifications

Model #	GPM	HP	Zones	Voltage	Phase	Amps	lbs
SG0500	0.50	0.5	0-3	120	1	10	90
SG1100	1.10	1	0-3	120/240	1	15/8	100
SG1500	1.50	1.5	0-3	120/240	1	20/10	110
SG1750	1.75	1.5	0-3	120/240	1	20/10	110
SG2200	2.20	2	0-3	240	1	11	115
SG2850	2.85	2	0-3	240	1	11	115

SG SERIES MODEL NUMBERS

Pump Size	Zones	Pump Type	Pressure Capability	Control	Voltage	Cord
SG0500 (0.5 GPM)	01 (Always On Outlet + 1 Zone)	S (Single Speed)	0 (1000 PSI 2.85 GPM Model Only)	L (Low Voltage Control)	1 (120V, 60Hz)	Blank (Hard Wire Connection)
SG1100 (1.1 GPM)	02 (Always On Outlet + 2 Zone)	V (VFD Controlled Variable Speed)	2 (1200 PSI All Except 2.85 GPM)	D (Low Voltage Control 24VDC)	2 (240V, 60Hz - Required for 2.2 GPM and 2.85 GPM)	C (120V Plug 15 amp, for 1.5, 1.75, 2.2 and 2.85 GPM 20 amp, or 240V plug type NEMA 6-20)
SG1500 (1.5 GPM)	03 (Always On Outlet + 3 Zone)	M (VFD with Multiple Speed Settings)				
SG1750 (1.75 GPM)						
SG2200 (2.2 GPM)						
SG2850 (2.85 GPM)						

Example SG1500-02S-2S2

Installation

Placement - 24" X 30" Pad

Equipment pad or equivalent is required. Provide clearance for air flow and service access - leave 8" around the back for air intake and at least 24" on the right side for access to controls.

Electric Connection - Hard Wired

1/2" and 3/4" Electrical knock-outs are provided for main power connection, control system connections, and accessory connections.

Controls - Low Voltage

The pump and each zone are controlled by a low voltage signal. Simply connect the on-board supplied 24VAC signal to the terminal corresponding to the desired zone to activate the pump and that zone. Use any switch type mechanism (relay, contactor, standard switch) to control the connection. Each zone draws 50mA @ 24VAC. Pumps can also be controlled with external 24VAC sources such as a sprinkler timers. Low power requirements allow the pump to be directly controlled by home automation relay boards, bypassing the need for high amp contactors such as pool controllers.

Water Inlet Connection - Filtered

Sufficient filtration is required. Staged filtration is recommended, where 1 micron filtration is the final stage. Pump water supply connection is in the form of a 1/2" ID braided PVC hose for connection to filter outlet. Stainless steel hose clamp is included. Inlet water pressure: 25 PSI MIN, 70 PSI MAX.

High Pressure Outlet

The multi-zone outlet manifold has one to four 1/4" Female NPT ports, where one is always open. Pressure washer option upgrades the open port to 3/8" always for connecting pressure washer plumbing.