



Variable Speed ECM

Versatility and performance best describe A. O. Smith's new V-Green® variable speed pump motor with integrated timer. Capable of delivering superior energy savings of over 80% versus a standard single-speed motor, V-Green motors are well suited for pump applications ranging from 3/4 - 2.7 total horsepower (THP). Spurred by consumer interest in energy-saving products and government-mandated efficiency standards, the innovative V-Green variable speed ECM offers premium efficiency boosted by such features as Power Factor Correction, which raises overall efficiency while reducing input amps! The state-of-art user interface ensures programming ease and flexibility, with on-screen navigation, ergonomic selector switch, and pre-set programs for out-of-the-box operation. A. O. Smith's V-Green is Title 20** compliant and with three user-defined variable speeds is a superb choice for reducing energy consumption, for lowering overall pool ownership costs, and for satisfying regulatory requirements.

***California's Title 20 legislation states that pumps > 1HP (total) must be 2-speed or variable speed, and must have a control to default to low speed (i.e. timer)*

FEATURES

- Innovative user interface with step-by-step on-screen navigation and ergonomic selector switch
- On - or off-board versatility
- Power factor correction
- Adjustable freeze protection
- Auxiliary load circuit with configurable run time
- Motor designed to reduce noise emissions
- UV and rain proof enclosure
- Real time clock with 5-year battery back up
- Integrated LCD backlight and adjustable contrast
- Manual high and low overrides

BENEFITS

- Set-up and programming ease – preset program
- Ease of installation, with no additional wiring required
- Display can be mounted on - or off-board, facing the pump or facing the lead end
- Lower power consumption
- Design reliability
- Lower internal peak currents; Input current reduced from 16A to 10A, efficiency increased from 82%+ to 95%+
- Ability to set a temperature at which the pump will automatically turn on to protect the system from freezing
- Ability to install and program an extra load (i.e. salt, chlorine generator, booster pump, etc.)
- Meets FCC Part 15, Class B for quieter run time
- Other aftermarket timers require a secondary enclosure for outdoor use
- No need to replace battery or reset time/settings during a power outage or following an off-season shut down
- Ensures the display can be viewed easily in dark, shady, or direct sunlight conditions
- User can instantly change motor parameters for cleaning or maintenance without adjusting programmed settings



Features:

- Integrated Timer Interface
- On- and Off-Board Mountable Interface
- Timer Mode
- Manual Mode
- Freeze Protection
- Auxiliary Load Capacity
- Configurable Prime Settings
- Noise Reduction Design
- Adjustable Contrast
- Power Factor Correction
- Factory Reset
- Battery Backup - Program Saver
- LCD Display with Backlight
- Ball Bearing
- TEFC
- Rotation: CCWPE
- Single Phase
- 303 Stainless Steel Shaft
- Class F Insulation
- 50°C Ambient
- UV and Rain-Proof Enclosure

THP	RPM	Volts	Service Factor	Full Load Amps	Stock Number	Flange	Percent Energy Savings*	Yearly \$ Savings**
3/4 ~ 2.7	3450/600	230	1.0	10.5/0.5	ECM27SQU	Square	80%	\$1318.05
3/4 ~ 2.7	3450/600	230	1.0	10.5/0.5	ECM27CU	C-Face	80%	\$1318.05

*Savings over the equivalent single-speed motor.

**Calculated @ \$.23 per Kilowatt hour, pumping same amount of water as a single-speed motor, eight hours per day.

See the Energy Savings Calculator at: www.aosmithmotors.com

The reasons a V-Green® premium-efficiency replacement motor can offer such impressive savings are numerous including:

- An integrated timer interface allows for easier installation and operation of a variable speed motor. The all-in-one design reduces installation time and expense with no additional wiring required. The interface can be installed off-board at the pool owner's discretion with kit# 2512723-001 (sold separately).
- The amount of horsepower required to move the water through the pipes drops much more quickly than the speed. While it may take one horsepower to move the water through the pipes on high speed, it only takes 1/8 horsepower to move one half as much water through those same pipes on low speed. Even when run on low speed twice as long to pump the same amount of water as on high speed, the lower horsepower results in significant energy savings.



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