



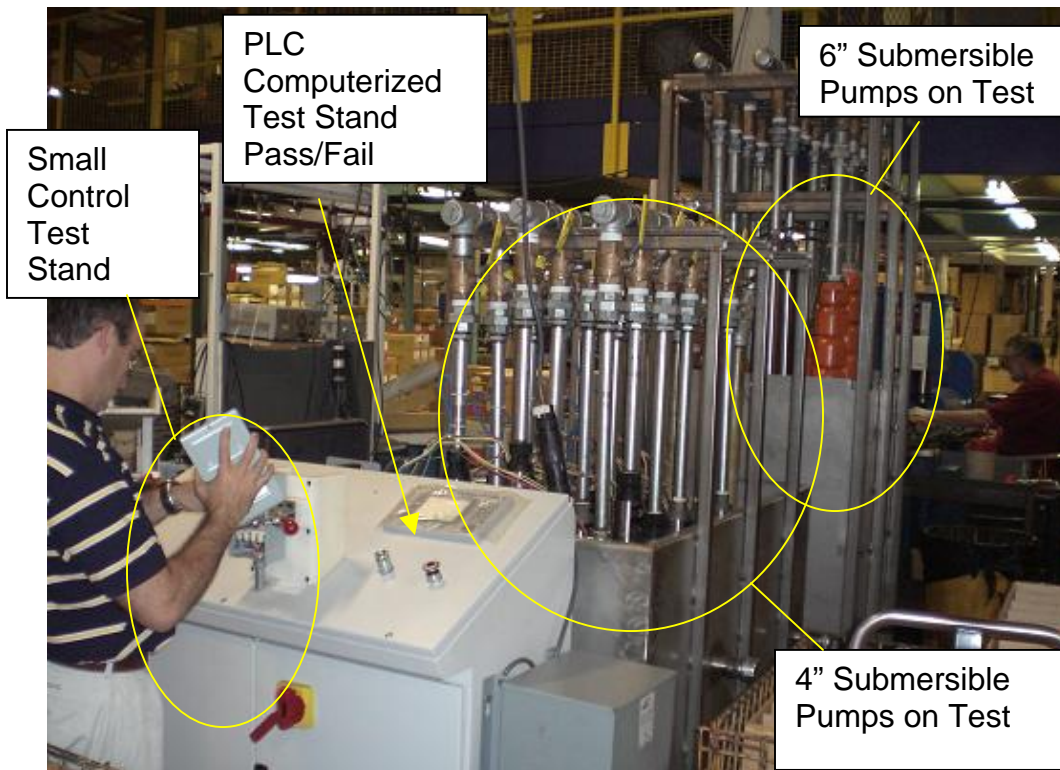
Single Phase Control Box Product News

Pentair Water is pleased to introduce the Next Generation of Submersible Motor Controls (SMC). The new PENTEK[®] SMC's will replace the Pentair branded controls, offering many new and improved product features and operational benefits. To aide you in the ordering process, the part numbers and nomenclature will remain unchanged.

PENTEK[®] SMC Product Features

1) Comprehensive Testing Process

All PENTEK[®] control boxes are 100% tested and validated through a computer controlled system powering the appropriate pump/motor. During this process each component in the system is automatically monitored to ensure that it is running correctly and within specification.



One of Several New Test Fixtures for PENTEK Controls

Each PENTEK® control will include a “Tested By” decal with a number correlating to the employee running the test to improve traceability.

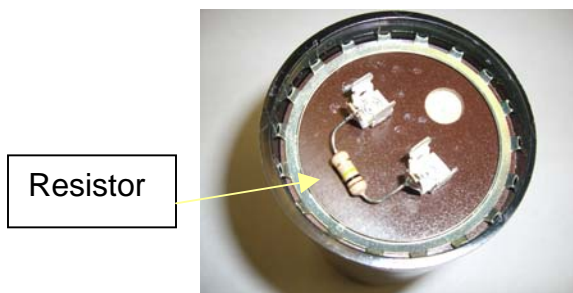


2) Increased Start Capacitor Ratings

All start capacitor ratings have been increased, which will improve the life expectancy of the control box.

3) Resistors added to Start Capacitors

All start capacitors use resistors across the terminals to greatly reduce the chance of failure in rapid cycle situations. The resistor dissipates the energy across the terminals, ensuring clean starts. PENTEK® now includes resistors in start capacitors across the entire SMC control box line.

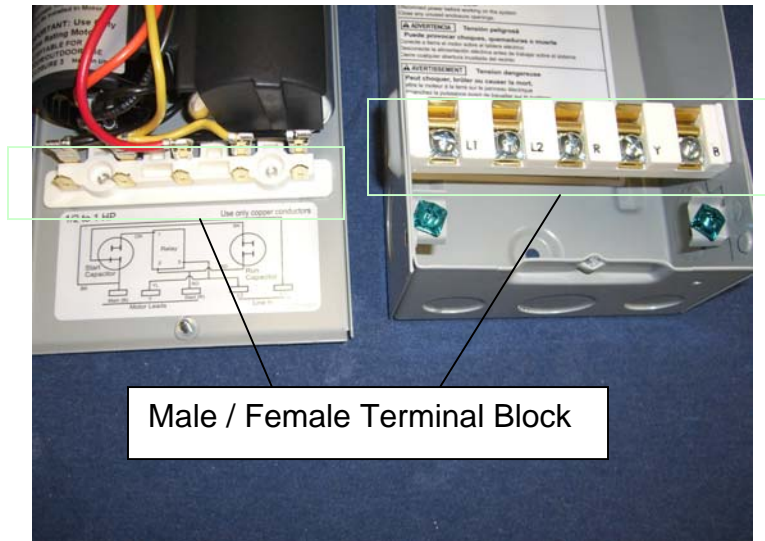


4) New Improved Cover Fit (1/2 – 1 Hp)

The PENTEK[®] cover now fits better than ever due to the following improvements:

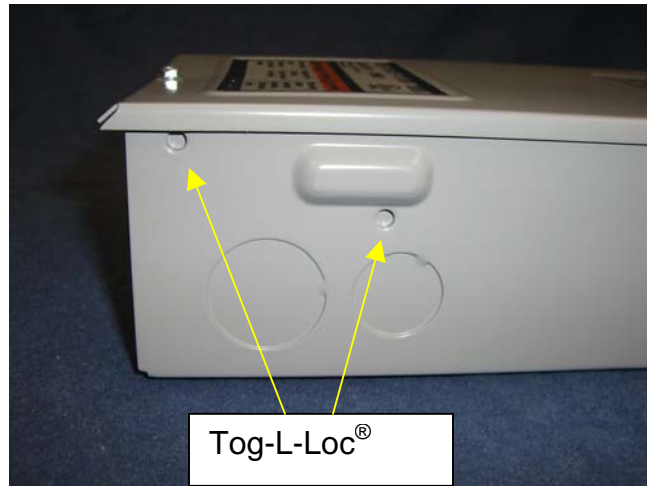
A. More Generous Terminal Engagement

The mating terminal design has been improved to provide a better fit and more positive engagement between the cover and base. The cover is retrofittable to most existing control boxes.



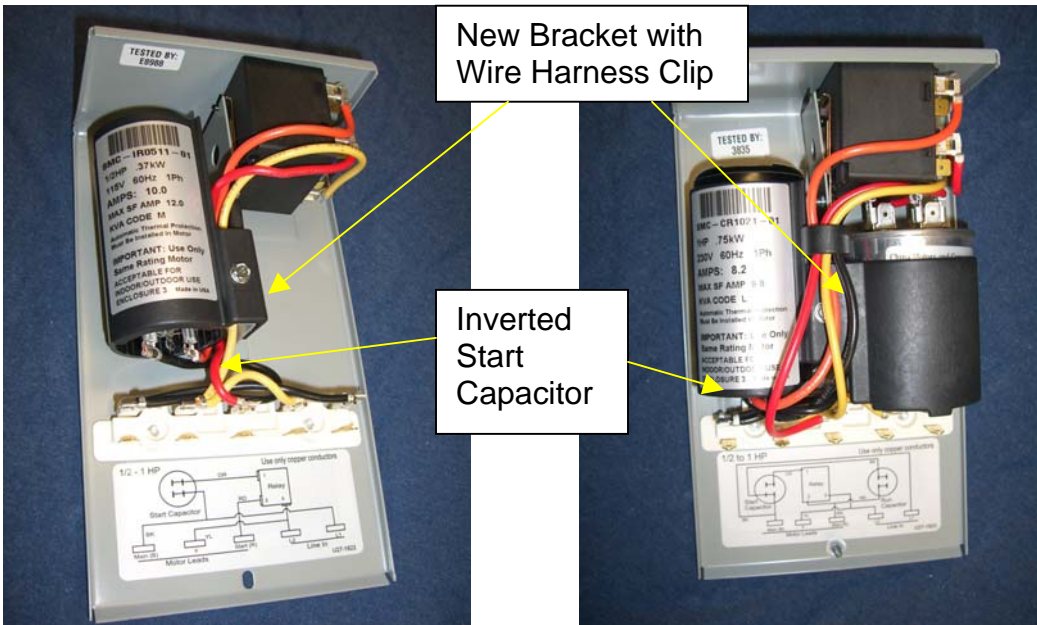
B. Tog-L-Loc[®]

The enclosure has been changed from welded to Tog-L-Loc[®]¹ construction (a method commonly used to secure car under body panels) to provide better dimensional consistency which provides a better cover fit.



¹Tog-L-Loc[®] is a registered trademark of BTM Corporation

5) Improved Capacitor Brackets (1/2 – 1 Hp)



New Bracket with Wire Harness Clip

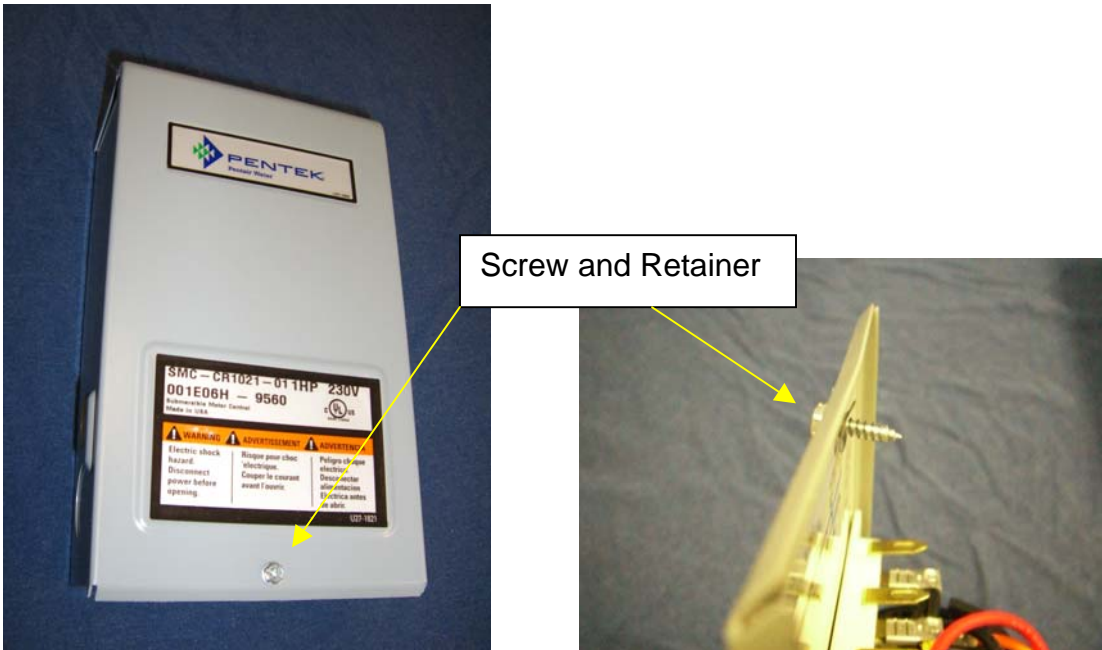
Inverted Start Capacitor

Capacitor Start Induction Run

Capacitor Start Capacitor Run

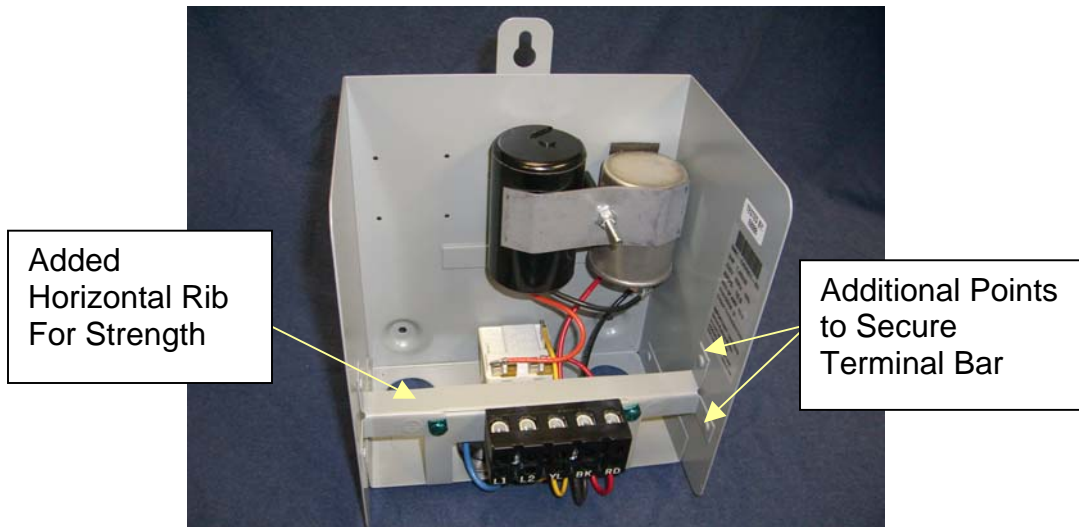
6) Improved Screw/Retainer

The cover has been improved to include a flat/phillips/hex screw configuration with a retainer to keep the screw held within the cover.

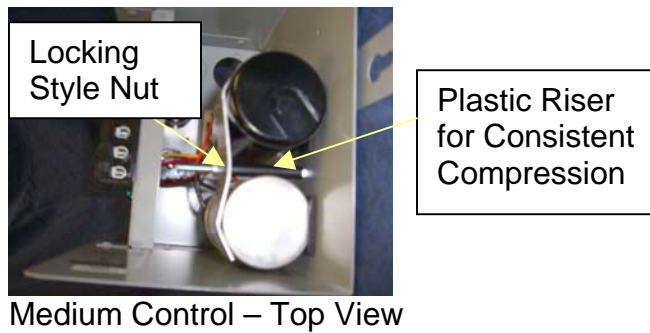
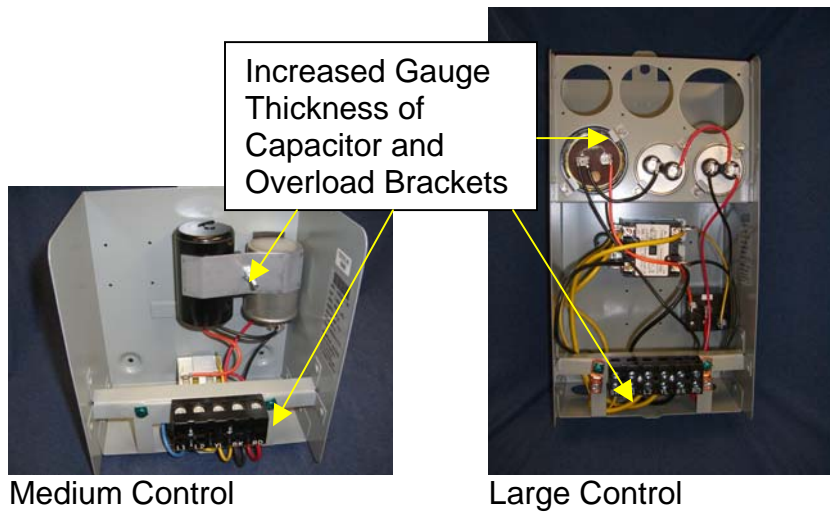


Screw and Retainer

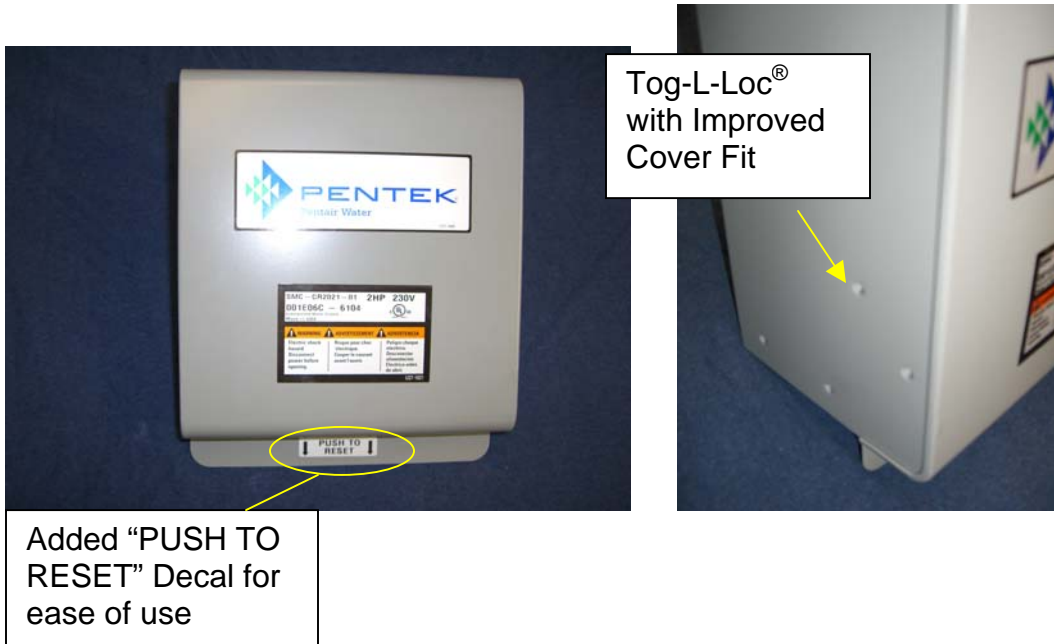
7) Stronger Terminal Bar Support (1 ½ - 15 Hp)



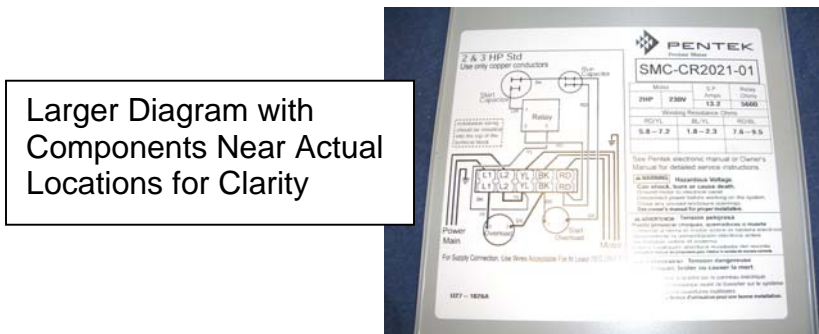
8) Enhanced Capacitor and Overload Retention (1 ½ - 15 Hp)



9) Improved Cover Fit (1 ½ - 15 Hp)



10) Clarified Wire Diagrams (1 ½ - 15 Hp)



11) Improved Relay Support (1 ½ - 15 Hp)

