

Detailed Course Outline

FBC Advanced Module: 2020 Pool/Spa Energy Efficiency Regulations

Introduction

1. History of the Florida Energy Code
2. HB7135
3. HB663
4. Impact on Florida consumers for energy saving

Discussion of the Florida Energy Code Workgroup

1. Pool Efficiency subcommittee
 - a. Pool pump standards
 - b. Pool plumbing system design
 - c. Performance and prescriptive compliance paths for pools
 - d. Credits for alternative energy sources for pool heating, lighting and pumping

Specific Regulations

1. Swimming pool pumps and motors
 - a. Variable speed, two speed and multi-speed capabilities
 - b. Rated horsepower – service factor
 - c. Elimination of split-phase, shaded-pole, or capacitor start-induction run
 - d. Compliance dates and testing methods.

Swimming pool/spa heating systems

1. Gas-fired pool heaters – thermal efficiency of not less than 78% test methods for gas fired and oil fired pool heater efficiency (ANSIZ21.56)
2. Electric resistance pool heaters (ANSI/ASHRAE146-1998)
3. Heat pump coefficient of performance (COP) of not less than 4.0
 - a. AHRI Standard 1160
4. Solar heating – new piping requirements and connections for solar modifications.

Portable spa energy efficiency

1. Requirements apply to factory built residential spas
2. Minimum energy efficiency requirements.

Conclusion

1. Impact on the consumer and the swimming pool & spa industry
2. Reasonable and substantial connection to health, safety and welfare of the general public.