

A photograph of a swimmer in a pool, captured in a dynamic pose with arms extended forward, creating a large splash of water. The scene is lit with a cool blue light, emphasizing the movement and texture of the water.

DIVE INTO PUMP & MOTOR REGULATIONS LIKE A PRO

The Department of Energy issued the Dedicated Purpose Pool Pump regulation or DPPP, set to take effect July 19, 2021, requiring energy efficiency standards for pool pumps. This list of frequently asked questions will take the mystery out of this complex regulation to help you prepare for the July 2021 deadline. It's never too early to begin educating your customers.

BASIC TERMINOLOGY

First, some basic terminology will help you understand the DPPP regulation.

HYDRAULIC HORSEPOWER (HHP)

Hydraulic horsepower is the amount of hydraulic power produced by the pump's wet-end. HHP will be used to size pumps instead of motor horsepower.

WEIGHTED ENERGY FACTOR (WEF)

The weighted energy factor is used to compare the energy efficiency of pool pumps. Think of WEF as "miles per gallon." The higher the number, the more energy efficient the pump is.

TOTAL HORSEPOWER (THP)

Total horsepower is the maximum load under which a pump motor can operate properly. It is calculated by multiplying the motor horsepower by the service factor. Up-rate and full-rate labeling of pumps will be eliminated.

FREQUENTLY ASKED QUESTIONS ABOUT MOTORS

Q: Is there a motor only replacement regulation?

A: With the exception of California state regulations, there is not currently a DOE motor only replacement regulation. We anticipate one could eventually be added and will likely align with the pump rule.

Q: Am I still able to purchase single speed motors after July 19?

A: Yes, single speed replacement motors will still be available for purchase and installation.

Q: What are the California motor regulations?

A: CEC Title 20 Section 1605.3(g)(5) requires any motor used for residential filter pump applications and manufactured before July 19, 2021 that is greater than or equal to 1.0 THP be replaced with a two-speed or variable speed motor. Effective July 19, 2021 CEC Title 20 1605.3(g)(6) requires any motor used for replacement dedicated-purpose pool pump motor on all residential and commercial applications and manufactured on or after July 19, 2021 that is greater than or equal to 0.5 THP be replaced with a variable speed motor.

FREQUENTLY ASKED QUESTIONS ABOUT PUMPS

Q: *How do I know if a pump meets the DPPP regulation criteria?*

A: After July 19, 2021, manufacturers will no longer be permitted to make non-compliant pumps. Once old inventory is depleted, new inventory will all be compliant. You will also see that compliant pumps state the hydraulic horsepower, weighted energy factor and total horsepower on the nameplate.

Q: *What types of pumps will be compliant?*

A: After July 19, 2021, most pumps will need to be variable speed to comply with the regulation. Exceptions include smaller pumps less than 0.711 HHP (~1.15 THP) or larger pumps over 2.5 HHP (~5 THP). Up to 80% of single speed pumps could be obsolete.

Q: *What types of pumps are excluded?*

A: Pumps with less than 0.711 HHP (~1.15 THP) are included in the regulation but have lower WEF requirements which can be met with single or two-speed motor and pump designs. Also exempt are 3-phase pumps, hot tub pumps, pumps designed for integral sand cartridge filter pumps and waterfall applications of 1,800 RPM or less.

Q: *Should I replace non-compliant pumps before failure?*

A: There is no need to replace non-compliant pumps before failure. These units can remain in the field. Motor only replacements on these pumps can be considered. A variable speed motor can easily be installed on a single speed pump to maximize energy savings and sound reduction.

RESOURCES

Pool Hot & Tub Alliance, Energy Efficient Pool Pumps, "Department of Energy Dedicated Pool Pump (DPPP) Regulations Frequently Asked Questions."

Regulations.gov DPPP Final Rule, <https://www.regulations.gov/document?D=EERE-2015-BT-STD-0008-0109>

Visit the Century Motors Facebook page to ask additional questions at www.facebook.com/centurymotors or reach out to your local Century motors sales representative.

Century motors Dive into the DOE Regulations Like a Pro Page, <https://www.regalbeloit.com/brands/Century/products/pool-and-spa/doe-dppp-regulations>

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