

2021 DOE REGULATION GUIDE

Starting July 19, 2021, the Department of Energy (DOE) is increasing the minimum energy efficiency standards for pool pumps.

<.711 HHP = lower WEF requirements

Can be met by a single speed pump

≥.711 HHP = higher WEF requirements

Requires variable speed technology today

DEFINITIONS

WEF – WEIGHTED ENERGY FACTOR

Measure of energy efficiency. Similar to MPG in an automobile, the higher the WEF, the more efficient the pump. *Required to be labeled on pump.*

HHP – HYDRAULIC HORSEPOWER

Measure of pump's performance. The amount of water your pump can push to, and through, the pool. **NOT** equivalent to the motor horsepower. *While not required, Pentair is adding HHP to pump labels.*

Rated 1 HP ≠ 1 HHP

THP – TOTAL HORSEPOWER

Measure of the total HP created at the motor shaft, not at the wet-end. This represents the *potential* output, not the *actual* output. *Each pump must be labeled with its THP.*

WHAT THEY SAY

"Many of our single speed pumps will still be DOE compliant."

VS.

WHAT WE SAY

"Most single speed pumps will no longer be DOE compliant."

IT'S HHP NOT RATED HP THAT DEFINES THE PERFORMANCE OF YOUR PUMP

Product	Rated HP	Average HHP	% more flow*
Pentair's .75 HP SS Pumps	0.75	0.672	6%
Pentair's 1 HP SS Pumps	1	0.972	22%
Competitor's 1 HP SS Pumps	1	0.553	

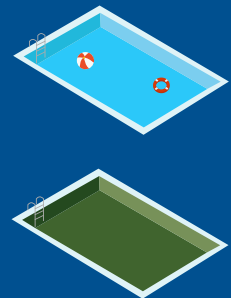
*than equivalent competitor's average 1HP pump on a typical inground pool (20k gallon with a curve c system friction)

THE WHOLE STORY:

- ▶ Competitors are putting higher HP motors on their pumps and smaller hydraulics (i.e. impellers) to govern them back so that the HHP is less than .711 output.
- ▶ Pentair's 1 HP SS pumps have nearly twice the HHP of the competitors 1 HP SS pump.
- ▶ Because of this, our current 1 HP pumps will need to transition to variable speed.

LOW HHP CAN LEAD TO POOR PERFORMANCE*

- Unsanitary pool
- Poor water clarity
- Requires more chlorine
- Increased wear & tear
- More frequent filter cleaning
- Shorter pump lifetime



*pool size and other factors determine specific pool pump needs

BOTTOM LINE:

NOT ALL SINGLE SPEED PUMPS ARE CREATED EQUAL.

WHY CHOOSE A VARIABLE SPEED PUMP?

HIGHER PERFORMANCE



Improved circulation

ENERGY & COST SAVINGS



Save money on energy bills*

QUIETER



Lower speed runs quieter

LONGER LASTING



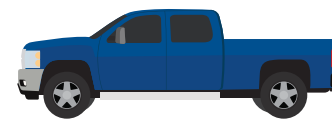
Less wear & tear

*Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors.

HOW TO CHOOSE A VARIABLE SPEED PUMP

You need the right tool for the job. While WEF is important, the pump's performance (HHP) is just as important.

You would never choose a car based only on MPG, so don't choose a pump on WEF alone.



MPG: 24
TOWING CAPACITY: 11,000 LBS



MPG: 58
TOWING CAPACITY: 1,500 LBS

Pentair invented variable speed pool pump technology and remains the leader

WHY CHOOSE PENTAIR?

Pentair offers high performing VS pumps with high WEF scores, giving you the right pump for your pool.



Energy Star® Partner Of The Year for seven consecutive years.