



September 27, 2019

Important Upcoming Changes to Fire Pumps

Underwriters' Laboratories (UL) Standard 448 has been revised to change the maximum horsepower required by the driver (electric motor or diesel engine) paired with a fire pump, effective November 2019. The new requirement specifies that *maximum* brake-horsepower must be demonstrated during *each* performance test. If the maximum horsepower developed is greater than current motor or engine horsepower offering, the pump will fail testing under the new criteria. This is an *industry-wide change*, meaning compliance is required by all UL Listed fire pump manufacturers.

To maintain compliance to the Standard, driver requirements for several split case, end suction, and vertical inline fire pump duties will be changed to reflect maximum horsepower across the curve effective with orders shipped beginning November 1, 2019.

Some fire pumps in Pentair's portfolio are not affected by UL's change --

- Selection tables for split case models HGT/471 already reflect compliance to the new UL448 standard.
- Vertical turbine fire pumps, by the nature of their design, are not affected by the change in Standard.
- The UL448 Standard pertains only to centrifugal pumps, therefore Aurora Edwards Series pumps, which are positive displacement pumps, are not affected by this change.

New Pump-Driver Configurations Compliant with UL448 as of November 1, 2019

New selection tables for affected split case, vertical inline, and end suction fire pumps are posted now on the Distributor Only sites. The electric-driven pump tables are color-coded to indicate whether the horsepower requirement for a pump at a given duty condition has increased, decreased, or remained the same. These new selections are now also implemented in Encompass. Please note that Encompass is the definitive source for making pump/driver selections; the posted Selection Tables are for reference only.

Current Quotes and Quotes in Process

Please use these new horsepower requirements to quote all new opportunities. Review all submitted bids to ensure there are no changes to required horsepower.

Pending Orders

It is important that you review all quotes in process as well as orders you are submitting to the factory to ensure the correct size driver is ordered. As you open an item in a quote, if the horsepower has changed, you will receive an alert that there has been a change in the horsepower of the driver paired to your selected pump.



In the case of diesel-engines, there may be a few pump-diesel pairings that require a larger driver, however there is no correct-size engine available at the specified engine speed. In those cases, it may be required that you reconfigure the full fire pump package.

Orders in Process at the Factory

North Aurora is currently reviewing all orders that are scheduled for shipment on or after November 1, 2019, to ensure that the required horsepower of the pump complies with the new UL448 Standard. If a higher or lower horsepower driver is required, Customer Service will contact you.

Red Hot Orders for Shipment Prior to November 1

For orders such as Red Hot that will be ordered with leadtime to ship prior to November 1, please reference the posted Selection Tables to determine whether the horsepower requirement for the particular pump at the specific duty condition remains the same. If so, you can configure the Red Hot order in Encompass and process the order as usual. If the “new” horsepower compliant with the November 2019 requirement has changed, you will need to process the Red Hot order outside of Encompass using an Order Transmittal, reflecting the horsepower requirement that is acceptable for orders shipping prior to November 1.

If you should have any questions, please contact your local Pentair Sales or Customer Service representative.

FAQs

Does this change in the UL448 Standard affect both electric-driven and diesel-driven fire pump packages?

Yes, this change applies to both electric and diesel fire pump packages.

You state “*maximum* brake-horsepower must be demonstrated during *each* performance test.” Haven’t fire pumps always been tested this way?

Until now, fire pumps have been tested up to shortly beyond the secondary duty point and not to runout.

I have a very large job going through a lengthy bid process. How do I know right now whether the driver size is adequate or whether it will need to be up-sized?

You can reference the Selection Tables posted on the Distributor Only site which are color-coded to reflect any horsepower changes. Encompass also reflects the new horsepower requirements.



What about replacement pumps? Might they need higher horsepower drivers or are they “grandfathered” in?

All fire pumps shipped after November 2019 must be compliant with the new UL448 Standard, meaning some horsepower requirements may increase. This applies to replacement pumps as well as pumps for new installations since they all must undergo Certified Performance testing and demonstrate the maximum brake horsepower during this test. Rotating elements can be replaced like-for-like.

What if my customer asks that I delay shipment of a fire pump package due to ship in October until a ship date in December? Unfortunately North Aurora is not able to hold shipments.

What is Pentair doing to mitigate the impact of the new UL448 Standard?

Pentair is currently redesigning higher-volume pump models to improve the competitive nature of the pumps while maintaining full compliance with the new UL448 Standard. Please watch your eNews for updates and new pump announcements.