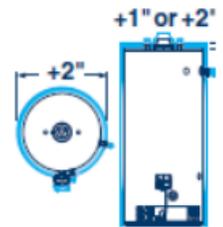


Autobooster Training Flyer

Last year the NAECA made some [efficiency standard changes](#) to residential water heaters. These changes have impacted the market in several ways. The main difference between the old and new style heaters are the physical dimensions. This flyer is intended to cover one of the challenges created by the bigger water heaters and a solution we offer; the Autobooster.

Water Heater Size Change:

The dimension changes vary but they typically had to increase the size of a heater by 2 inches in diameter and 1 to 2 inches in height. Also, electric water heaters over 55 gallons have to be a hybrid heat pump heater which will now require more space. The reason for the size increase was to allow for additional insulation to help improve efficiency.



So what's the problem with a bigger heater?

In new construction a utility closet or room can be built with adequate space for the new style heaters. However, in replacement applications it is possible a new style heater will not fit into the same utility closet. This means the home owner has to either move the heater, change the size of the closet or look for a third option.

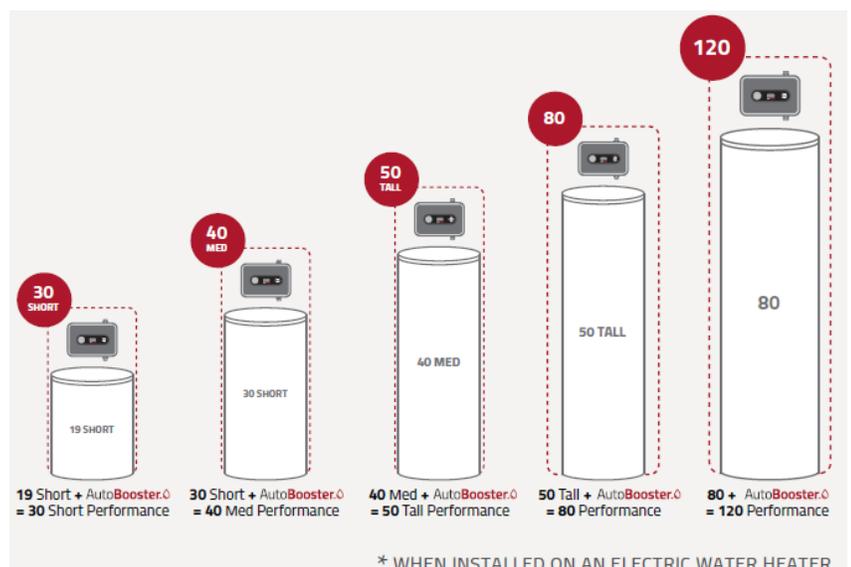
Also, in some cases a home owner that frequently runs out of hot water may look for a solution that is less expensive than replacing the entire water heater. These two situations are why the Autobooster was created. This is product number AUTOBOOSTER in Mincron.



What is the Autobooster?

The autobooster is an electric style [tankless water heater](#) that is installed on the hot water outlet of a traditional tank style water heater.

The Autobooster will allow electricity to pass through to the water heater elements to heat and maintain the tank storage temperature. When demand for hot water is detected, the Autobooster will monitor the discharge temperature. Once the temperature drops below a desired setting the Autobooster will divert the electricity from the water heater elements to the Autobooster element- boosting the volume of available hot water.



For example a 30 gallon tank type electric water heater with an autobooster performs like a 40 gallon tank type heater.

This allows the home owner to keep a smaller tank type style heater and gain the capacity of a larger heater. It can increase the capacity of a tank style heater up to 45%. It can be used on both gas or electric water heaters but requires an electric panel for power so is not ideal for gas tank style water heaters.

Utilizing an Autoboster can help extend the life of a water heater tank by lowering the temperature of the store water in the tank thus relaxing the thermal expansion cause by drastic temperature difference between the stored hot water temperature and the incoming cold supply water.

An example of this would be in a home that does not currently run out of hot water. They could install the autoboster and lower the temperature set point in the tank style water heater.

Ease of Installation:

The autoboster is installed either directly to the hot water discharge of the water heater or in a close proximity of the hot water discharge. For electric heaters no additional electrical service is needed, simply use the existing 240v service and wire it to the Autoboster. Then, using the provided wire, wire from the autoboster to the water heater. It is that simple!

Are there other options other than the Autoboster?

There is another option with a less expensive up front cost the home owner may choose called a thermostatic mixing valve that is made by Honeywell. This is a valve that connects the cold water line to the outgoing hot water line. The tank style heater is then set to a higher temperature.

As the hot water leaves the tank style heater, the water is too hot to send into a shower so the mixing valve brings the temperature back to that of normal hot water by adding cold water. This allows the tank style heater to use the hot water in the tank over a longer period of time. Using this method will require additional energy consumption to keep the water at a higher temperature and also put additional strain on the water heater. This may shorten the life of the water heater. This model AMX300.



Thermal Expansion Tanks:

It is also important to note the thermal expansion tank. When using either of these options a Thermal Expansion tank is still required. When you raise the temperature in the water heater with a mixing valve it can change the size of expansion tank required.

Next Steps and a Couple Questions:

The first next step is to learn more the second is to start bringing it up with customers. The link below is to a video detailing how the Autoboster works.

<https://www.youtube.com/watch?v=3nxDfT7SRs0>

TRUE or FALSE: The autoboster can only be used on electric heaters.

TRUE or FALSE: The AMX300 is less expensive up front but will put additional strain on the water heater.