

# Technote: Propane Tank Run time vs load

updated 6/1/2016

## Understanding pressure regulators

Pressure	
<b>Inside Tank</b>	60psi to 120psi+ (very high!)
<b>Red Regulator<sup>1</sup> reduces to:</b>	10-12 psi / 277-330" w.c.
<b>Silver regulator<sup>2</sup> reduces to:</b>	1/2 psi / 7-12" w.c.

(psi = pounds per square inch) (w.c. = inches Water Column)

GenConneX™  
Generators  
and all indoor  
appliances →

<sup>1</sup>Typical regulator found on large tanks for homes to get propane to side of house

<sup>2</sup>Typical regulator found on side of home to reduce down to standard appliance pressure

## Comparing gasoline and Propane

Gasoline and Propane have very similar run times on a pound for pound basis

## How long will a tank run my generator?

	20lb/4.7gal (400,000Btu)	30lb/7.0gal (600,000Btu)	2-30lb/14gal (1,200,000Btu)	100lb/25gal (2,000,000Btu)		
<b>EU7000is</b>	5500W average load	won't vaporize fast enough	won't vaporize fast enough	15hrs	25hrs	35'+ camper w 2a/c
	4125W average load	won't vaporize fast enough	<b>8hrs</b>	20hrs	33hrs	
	2750W average load (eco on)	won't vaporize fast enough	<b>10hrs</b>	27hrs	45hrs	25-35' camper w 2a/c
	1375W average load (eco on)	12hrs	19hrs	38hrs	63hrs	25-35' camper no a/c
<b>EU3000is</b>	2600W average load	won't vaporize fast enough	<b>13hrs</b>	27hrs	44hrs	
	1950W average load	<b>10hrs</b>	15hrs	30hrs	50hrs	
	1300W average load (eco on)	13hrs	19hrs	39hrs	65hrs	16-25' camper 1a/c
	650W average load (eco on)	18hrs	27hrs	55hrs	91hrs	16-25' camper no a/c
<b>EU2000i</b>	1600W average load	<b>11hrs</b>	19hrs	37hrs	62hrs	
	1200W average load	19hrs	30hrs	60hrs	106hrs	Small trailer 1a/c
	800W average load (eco on)	22hrs	36hrs	72hrs	131hrs	
	400W average load (eco on)	28hrs	43hrs	85hrs	160hrs	Small trailer no a/c

**RED** means only can use tank/average load combination in weather above 40 deg F or tank won't vaporize propane fast enough to keep up with demand. Propane stops vaporizing at -44Deg F.

Based on lower heating value of Propane C<sub>3</sub>H<sub>8</sub> is approx 85,000 Btu/gal @ 100% full tank  
Note that tank refill to varying levels of "full" - Costco reportedly stops at 3/4 full.