3 ΔP = 16psi to 2atm
Power = 29046 Bbu/hr
Rate = 55061 US gal/hr

~~η = 55061 USgal/hr x0~~

$\eta = \frac{Rate \times \Delta P}{Power}$ ~~∴ η =~~

Conversion
* 1 psi = 6.894757 kPa
16 psi = x
x = 110.316 kPa //
* 1 atm = 101.325 kPa
x = 110.316 kPa
x = 1.08 atm
* ΔPressure = 2 - 1.08
= 0.92 atm
* 1 Hp ≡ 2545 Btu/hr
x = 29046
x = 11.412966 ~~HP~~ Hp
* 1 Hp = 550 lbf · ft/s
11.412966 = x
x = 6,277.131 lbf · ft/s
* 1 US gal = 0.003785 4 $m^3$
5506 US gal = x
x = 208.4279094 $m^3$
* 1 $m^3$ = 35.315 $ft^3$
208.4279 = x
x = 7,360.631 $ft^3$
* 1 atm = 101.325 kPa
0.92 atm = 93.219 kPa x1000
x = 93219 Pa