

Recycler Cost of Operation Calculations

Formulas:

Volts (V) x Amps (A) = Watts (W) Watts (W) x Hours (H)/1000 = Killowatt Hours (KwH) KwH x Cost/KwH = Cost per cycle Compressed Air Usage Formula – 4cfm = 1 Hp = .75 KwH Calculations are based on US National Average 16 cents/KwH

Example:

1. 55 Gallon Recycler

Volts – 220V Amps – 50A Cycle Time – 6-8 hours

220 x 50 = 11000 W 11000W x 6H/1000 = 66 KwH 66KwH x 16 cents/KwH = 1056 cents or **\$10.56 per 6 Hour cycle** 11000W x 8H/1000 = 88 KwH 88KwH x 16 cents/KwH = 1408 cents or **\$14.08 per 8 Hour cycle**

2. 17.5 Gallon Recycler

Volts – 220V Amps – 13.5A Cycle Time – 3-7 hours

220 x 13.5 = 2970 W 2970W x 3H/1000 = 8.91 KwH 8.91KwH x 16 cents/KwH = 143 cents or **§1.43 per 3 Hour cycle** 2970W x 7H/1000 = 20.79 KwH 20.79KwH x 16 cents/KwH = 333 cents or **§3.33 per 7 Hour cycle**

3. 6 Gallon Recycler

Volts – 220V Amps – 10 A Cycle Time – 3-5 hours

220 x 10 = 2200 W 2200W x 3H/1000 = 6.6 KwH 6.6KwH x 16 cents/KwH = 106 cents or **\$1.06 per 3 Hour cycle** 2200W x 5H/1000 = 11 KwH 11KwH x 16 cents/KwH = 176 cents or **\$1.76 per 5 Hour cycle**

4. Accel-Cool

Cycle Time – 30m - 1 hr Air consumption of Venturi – 21.4cfm

21.4cfm x .75KwH/4cfm x .5Hr = 2 KwH 2 KwH x 16 cents/KwH = 32 cents or \$.32 per 30 minute cycle21.4cfm x .75KwH/4cfm x .1Hr = 4 KwH 4 KwH x 16 cents/KwH = 64 cents or \$.64 per 1 hour cycle