



Amperage of Pumps

Volts	10HP Amps	15HP Amps	30HP Amps	50HP Amps	100HP Amps
200	28.10	42.14	84.29	143.75	284.20
208	27.02	40.52	81.05	138.22	273.26
220	25.54	38.31	76.63	130.68	258.36
230	24.43	36.65	73.30	125.00	247.13
240	23.41	35.12	70.24	119.79	236.83
260	21.61	32.42	64.84	110.58	218.61
280	20.07	30.10	60.21	102.68	203.00
300	18.73	28.10	56.19	95.83	189.46
320	17.56	26.34	52.68	89.84	177.62
340	16.53	24.79	49.58	84.56	167.17
360	15.61	23.41	46.83	79.86	157.89
380	14.79	22.18	44.36	75.66	149.58
400	14.05	21.07	42.14	71.88	142.10
420	13.38	20.07	40.14	68.45	135.33
440	12.77	19.16	38.31	65.34	129.18
460	12.22	18.32	36.65	62.50	123.56
480	11.71	17.56	35.12	59.90	118.41
500	11.24	16.86	33.72	57.50	113.68
520	10.81	16.21	32.42	55.29	109.31
540	10.41	15.61	31.22	53.24	105.26
560	10.03	15.05	30.10	51.34	101.50
575	9.77	14.66	29.32	50.00	98.85
580	9.69	14.53	29.07	49.57	98.00
600	9.37	14.05	28.10	47.92	94.73
620	9.06	13.60	27.19	46.37	91.68

Based on Equation

$$(0.577 * P) / (PF * E) = I$$

Derivation at 745.7 Watts/HP

$$(430 * HP) / (PF * E) = I$$

H2O Jet Pump Amperage Calc

$$(((430 * HP) / (PF * E)) * MSF) = I$$

430 = derived HP conversion factor

P = watts

E = voltage [V]

I = amps [A]

HP = horsepower [hp]

PF = power factor

MSF = motor service factor = 1.15

Base Equation Source:

Gary Rockis, Glen Mazur

Electric Motor Controls

(Automated Industrial Systems)

American Technical Publishers, Inc.

Homewood, Illinois, 1992

Page 504