

Nozzle & Pump Performance Data

Nozzle Flow Rates @ Various Pressures: Gallons Per Hour

Nozzle	Orifice		10 Bar	45 Bar	70 Bar	83 Bar
	US	Metric	150PSI	650PSI	1000PSI	1200PSI
106	.006"	.15mm	N/A	0.85	1.06	1.26
108	.008"	.2mm	0.5	1.05	1.3	1.48
112	.012"	.3mm	0.68	1.41	1.74	1.94
115	.015"	.4mm	0.93	1.93	2.39	2.64
120	.020"	.5mm	1.26	2.63	3.26	3.59



Convert to Liters per hour: Multiply by 3.79

Percentage of Droplets This Size or Smaller @ 1000 PSI

Nozzle	5 Micron	10 Micron	20 Micron	Sauter Mean Diameter
106	74%	92%	98%	9 Micron
108	73%	89%	98%	10 Micron
112	69%	87%	97%	11 Micron
115	63%	82%	95%	13 Micron
120	58%	79%	94%	14 Micron

Sauter Mean Diameter

Is the best measure to determine the effective evaporation rates which is directly related to a ratio of surface area to volume. The diameter of a droplet whose ratio of volume to surface area is equal to that of the entire spray sample

Pump Flow Rate and Maximum and Minimum Number of Nozzles Supported @ 1000PSI



Model 400
14" wide x 7.5" deep x 14" tall
Add 6" for filter



Models 410 & 420
25.5 long x 14.5" wide x 12" tall
Add 6" for filter



Models 405 & 408
23" long x 11.5" wide x 11" tall
Add 6" for filter

Pump			Flow	Flow	106	106	108	108	112	112	115	115	120	120
Model	Power	Application	US GPM	Liter/Min	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
400	60hz	US	0.5	1.89	10	28	8	23	6	17	4	13	3	9
400-50hz	50hz	International	0.44	1.67	8	25	7	20	5	15	4	11	3	8
405	60hz	US	0.5	1.89	10	28	8	23	6	17	4	13	3	9
405-50hz	50hz	International	0.44	1.67	8	25	7	20	5	15	4	11	3	8
408	60hz	US	1.35	5.11	26	76	21	62	16	47	12	34	8	25
408-50hz	50hz	International	1.18	4.47	23	67	19	54	14	41	10	30	7	22
410	60hz	US	1.35	5.11	26	76	21	62	16	47	12	34	8	25
410-50hz	50hz	International	1.18	4.47	23	67	19	54	14	41	10	30	7	22
420	60hz	US	2.2	8.33	42	125	35	102	26	76	19	55	14	40
420-50hz	50hz	International	1.92	7.27	37	109	30	89	23	66	16	48	12	35

Pumps with other flow rates available on request.