

*WATSON-  
MARLOW*

**502E**

**502E/R · 502E/D · 502E/M  
502E/AA · 502E/303D/A**

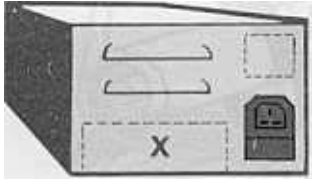


220-240V 50Hz

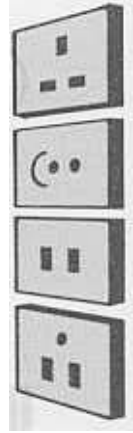
Brown		Live
Blue		Neutral
Green/Yellow		Earth

100-120V 50/60Hz

Black		Active
White		Neutral
Green		Ground

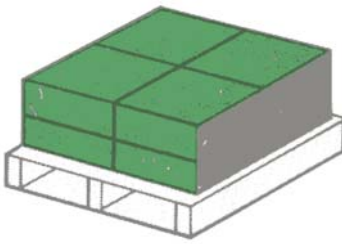


?



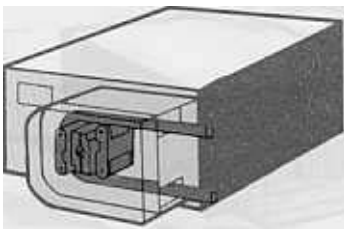
220-240V  
50/60Hz

100-120V  
50/60Hz



70 C

-40 C



37 C

0 C



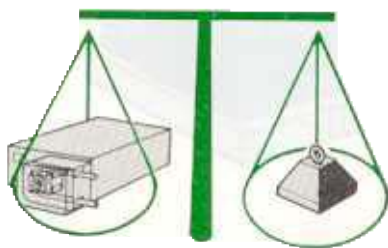
100 F



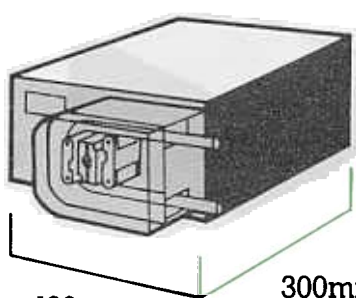
IP31



65 dBa



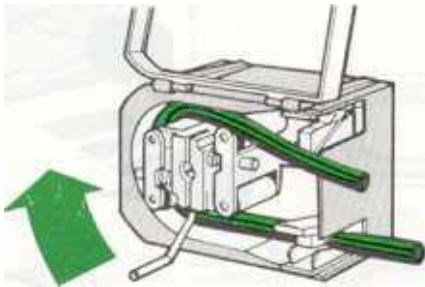
4.7kg 10lbs



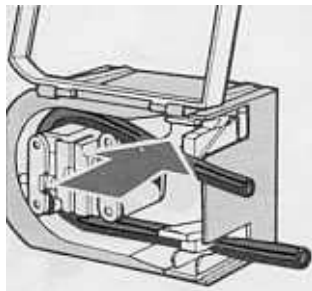
125mm 4<sup>15</sup>/<sub>16</sub>"

180mm  
7<sup>5</sup>/<sub>16</sub>"

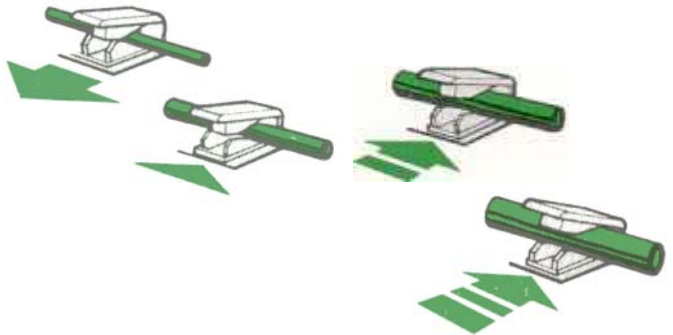
300mm  
11<sup>13</sup>/<sub>16</sub>"

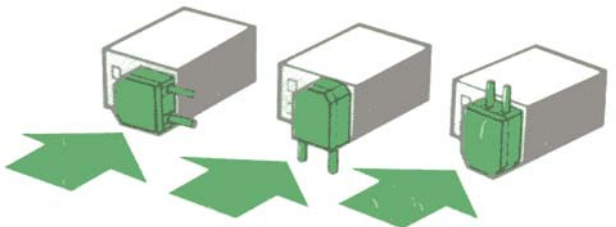
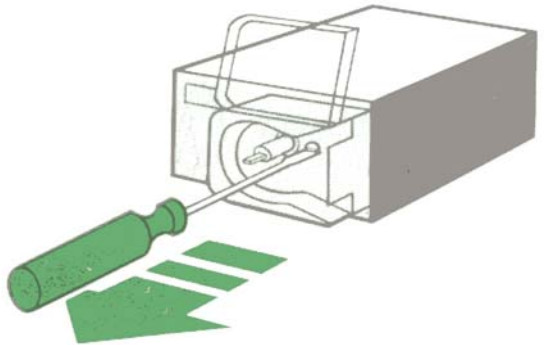
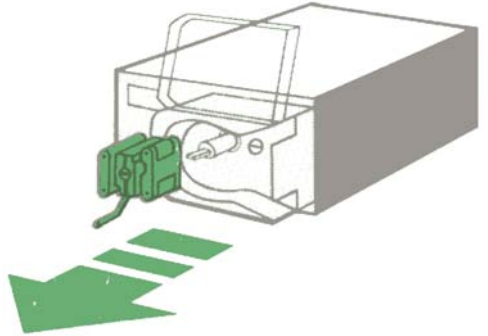
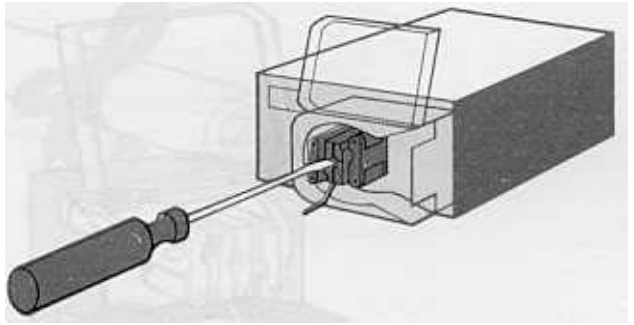


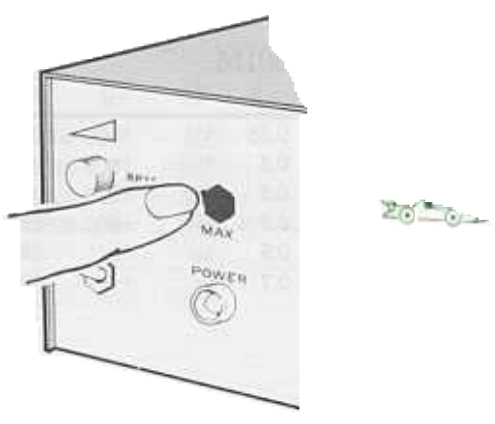
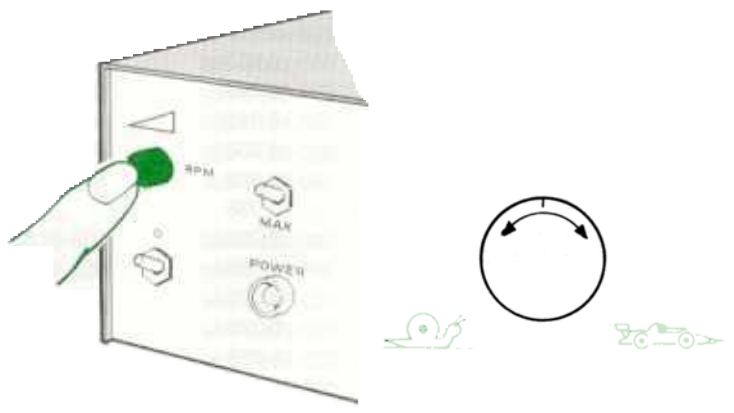
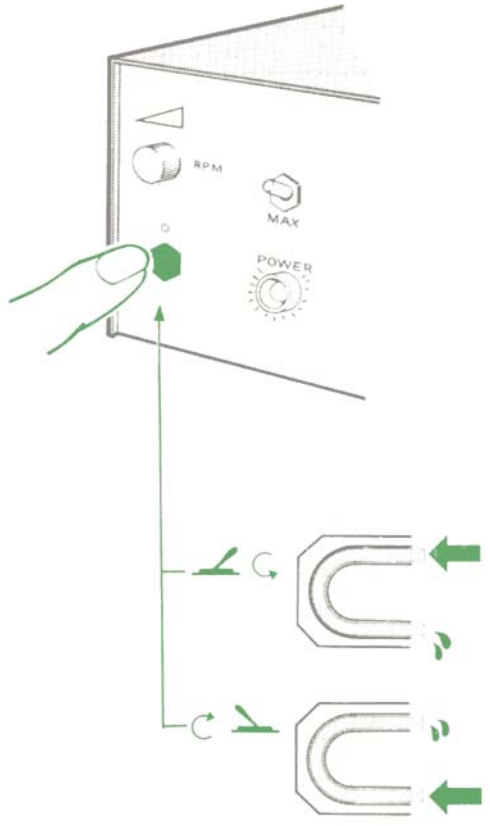
2



3



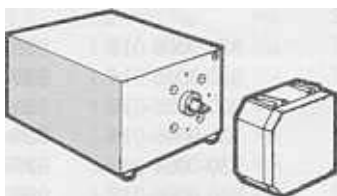






### 501R

55 rpm, 220 rpm 1 × 501R



rpm	mm	0.5	0.8	1.6	3.2	4.8	6.4	8.0
	"	1/50	1/32	1/16	1/8	3/16	1/4	5/16
		2.3	6.7	24	101	220	347	550
		9.2	27	94	410	892	1400	2200

### 502AA

55 rpm



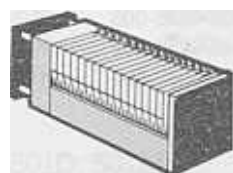
502AA4



502AA8



502AA12



502AA16

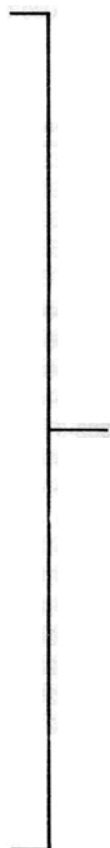


502AAX12

+



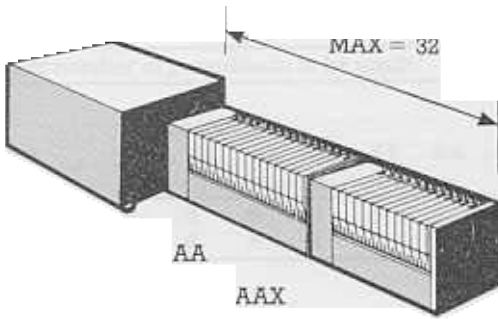
502AAX16



### ml/min

rpm	mm	0.13	0.19	0.25	0.38	0.52	0.63	0.76	0.88
	"	0.005	0.007	0.010	0.015	0.020	0.025	0.030	0.035
55		0.026	0.068	0.16	0.27	0.43	0.63	0.85	1.20



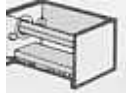
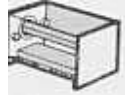
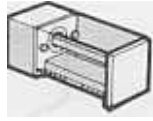
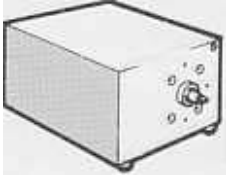


1.02	1.14	1.29	1.42	1.47	1.52	1.65	1.85	2.05	2.28	2.54	2.79
0.040	0.045	0.050	0.055	0.058	0.060	0.065	0.070	0.080	0.095	0.100	0.110
1.58	2.04	2.48	3.18	3.48	3.76	4.14	5.37	6.46	7.83	10.0	11.2



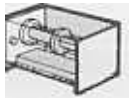
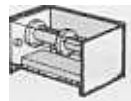
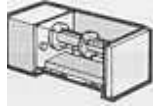
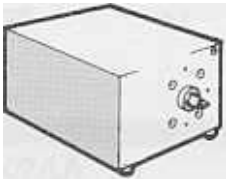
### 501D

55 rpm 1 × 501D 4 × 501DX

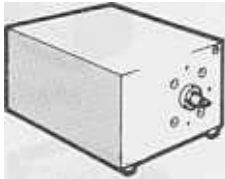


### 501M

55 rpm 1 × 501M 3 × 501MX



### 303



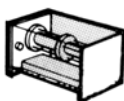


ml/min

	mm	1.0	1.5	2.0	2.5	3.0	4.0
rpm	"	1/25	1/16	1/12	1/10	1/8	1/6
55		1.5	3.2	5.0	6.8	11	15

ml/min

	mm	1.0	1.5	2.0	2.5	3.0	4.0
rpm	"	1/25	1/16	1/12	1/10	1/8	1/6
		2.9	6.4	10	17	26	43



ml/min

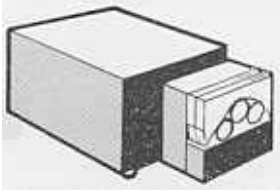
	mm	0.5	0.8	1.6	3.2	4.8	6.4	8.0
rpm	"	1/50	1/32	1/16	1/8	3/16	1/4	5/16
55		1.7	3.9	15	55	121	198	275
220		6.6	15.4	60	220	484	792	1100

Maximum number of pumpheads to be used:

Bore mm Bore "	Silicon tubing							Marprene, Marvinal, Neoprene, Butyl and Viton tubing						
	0.5 1/50	0.8 1/30	1.6 1/16	3.2 1/8	4.8 3/16	6.4 1/4	8.0 5/16	0.5 1/50	0.8 1/30	1.6 1/16	3.2 1/8	4.8 3/16	6.4 1/4	8.0 5/16
55rpm	6	6	6	6	5	4	2	6	6	6	5	3	2	2
220rpm	6	6	5	4	3	2	1	6	6	5	3	2	1	1



## 504MC2 / 508MC8



### 504MC2 ml/min

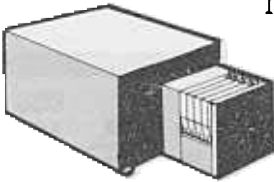
rpm	mm	0.13	0.19	0.25	0.38	0.50	0.63	0.76	0.88
	"	0.005	0.007	0.010	0.015	0.020	0.025	0.030	0.035
55		0.04	0.15	0.26	0.46	0.83	1.50	2.30	3.20

### 508MC2 ml/min

rpm	mm	0.13	0.19	0.25	0.38	0.50	0.63	0.76	0.88
	"	0.005	0.007	0.010	0.015	0.020	0.025	0.030	0.035
55		0.04	0.14	0.24	0.41	0.70	1.30	1.90	2.60

## 304MC / 308MC

55 rpm



1 × 304MC  
308MC

1 × 304MCX  
308MCX



### 304MC ml/min

rpm	mm	0.13	0.19	0.25	0.38	0.50	0.63	0.76	0.88
	"	0.005	0.007	0.010	0.015	0.020	0.025	0.030	0.035
55		0.04	0.15	0.26	0.46	0.83	1.50	2.30	3.20

### 308MC8 ml/min

rpm	mm	0.13	0.19	0.25	0.38	0.50	0.63	0.76	0.88
	"	0.005	0.007	0.010	0.015	0.020	0.025	0.030	0.035
55		0.04	0.14	0.24	0.41	0.70	1.30	1.90	2.60

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1.02	1.14	1.29	1.42	1.47	1.52	1.65	1.85	2.05	2.38	2.54	2.79
0.040	0.045	0.051	0.056	0.058	0.060	0.065	0.070	0.080	0.095	0.100	0.110

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4.10 5.00 6.60 8.30 8.80 9.40 11.0 14.0 17.0 20.0 24.0 26.0

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1.02	1.14	1.29	1.42	1.47	1.52	1.65	1.85	2.05	2.38	2.54	2.79
0.040	0.045	0.051	0.056	0.058	0.060	0.065	0.070	0.080	0.095	0.100	0.110

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3.30 4.40 5.20 6.10 6.60 7.20 8.30 9.90 12.0 14.0 17.0 18.0

Maximum Channels

10

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1.02	1.14	1.29	1.42	1.47	1.52	1.65	1.85	2.05	2.38	2.54	2.79
0.040	0.045	0.051	0.056	0.058	0.060	0.065	0.070	0.080	0.095	0.100	0.110

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4.10 5.00 6.60 8.30 8.80 9.40 11.0 14.0 17.0 20.0 24.0 26.0

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1.02	1.14	1.29	1.42	1.47	1.52	1.65	1.85	2.05	2.38	2.54	2.79
0.040	0.045	0.051	0.056	0.058	0.060	0.065	0.070	0.080	0.095	0.100	0.110

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3.30 4.40 5.20 6.10 6.60 7.20 8.30 9.90 12.0 14.0 17.0 18.0

