



EC-100 Fixed Speed Drawdown Coater



EC-200 Variable Speed Drawdown Coater

The ChemInstruments EC-100 and EC-200 Motorized Drawdown Coaters are precision instruments designed to provide even the smallest coatings laboratory with an affordable tool to make consistent, repeatable samples. The coating bed is a sheet of flat, float glass for consistent, smooth coatings.

EC-100

This fixed speed coater provides machine-controlled preparation of laboratory samples.

- Fixed speed of 47 ipm (119 cm/m)
- Coating load weight is 600 grams
- Coating area is 7.5" x 12" (16cm x 30 cm)
- Rod size is 3/8" x 12" (1.3 cm x 30 cm) with a 8.5" coating path.
- Operating temperature 0 to 70 Celsius
- **Warning! Equipment needs to be completely free of condensation inside and out, before applying power!**

EC-200

This variable speed coater provides controlled speed and pressure to ensure repeatable coating results.

- Maximum Speed of 450 ipm (1140 cm/m)
- Minimum Speed of 15 ipm (38 cm/m)
- Coating load weight is 600 grams
- Coating area is 11" x 13" (28 cm x 33 cm)
- Rod size is 1/2" 16" (1.3 cm x 41 cm) with a 12" coating path
- Operates with input voltage of 120 or 240 VAC
- Operating temperature 0 to 70 Celsius
- **Warning! Equipment needs to be completely free of condensation inside and out, before applying power!**

Coating Rods must be ordered separately. (See "Coating Rods" on next page)

Dimensions (approx.)

EC-100

Height: 5" (13 cm)
 Width: 11" (28 cm)
 Depth: 21.5" (52 cm)
 Weight: 18 lbs. (8.2 Kg)

Dimensions (approx.)

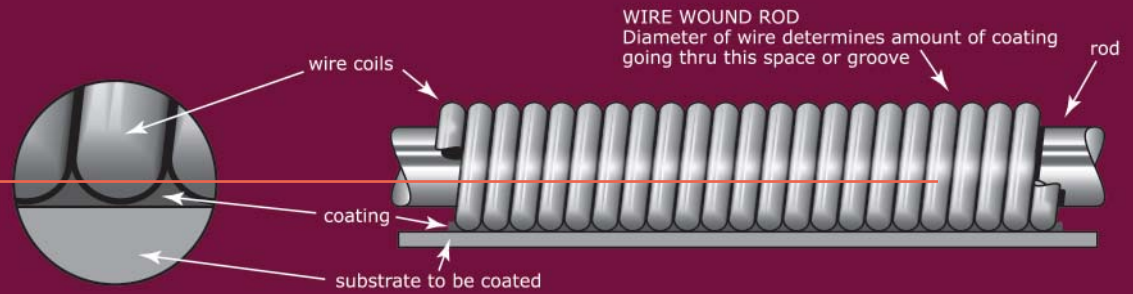
EC-200

Height: 7" (18 cm)
 Width: 14.5" (37 cm)
 Depth: 20.5" (52 cm)
 Weight: 30 lbs. (13.6 Kg)

Options

- 240 VAC/50 Hz
- EC-100 available with single speed
- Bird Bars
- A variety of wire wound bars are available for different coating weights.

Coating Rods



Applied Coating Amounts with Metering Rods*

Rod Size Wire #	Wet Mils	Thickness Microns	Grams Dry Per Square Meter Percent Solids				Pounds Dry Per 3000 Sq. Ft. Percent Solids			
			30%	40%	75%	100%	30%	40%	75%	100%
#2.5	.25	6.4	1.82	2.42	4.54	6.05	1.12	1.49	2.79	3.72
#3	.3	7.6	2.18	2.91	5.47	7.29	1.34	1.79	3.36	4.48
#4	.4	10.2	2.91	3.88	6.83	9.11	1.79	2.39	4.47	5.96
#5	.5	12.7	3.64	4.85	9.11	12.14	2.24	2.98	5.60	7.46
#6	.6	15.2	4.38	5.82	10.93	14.58	2.69	3.58	6.72	8.96
#7	.7	17.8	5.09	6.80	12.74	16.99	3.13	4.18	7.83	10.44
#8	.8	20.3	5.82	7.78	14.58	19.43	3.58	4.78	8.96	11.94
#9	.9	22.9	6.56	8.34	16.40	21.87	4.03	5.37	10.08	13.44
#10	1.0	25.4	7.28	9.71	18.21	24.28	4.48	5.97	11.19	14.92
#11	1.1	27.9	8.00	10.69	20.04	26.72	4.92	6.57	12.32	16.42
#12	1.2	30.5	8.74	11.65	21.87	29.16	5.37	7.16	13.44	17.92
#13	1.3	33.0	9.47	12.63	23.71	31.60	5.82	7.76	14.57	19.42
#14	1.4	35.6	10.20	13.60	25.51	34.00	6.27	8.36	15.68	20.90
#15	1.5	38.1	10.93	14.58	27.32	36.41	6.72	8.96	16.79	22.38
#16	1.6	40.6	11.65	15.54	29.14	38.85	7.16	9.55	17.91	23.88
#17	1.7	43.2	12.38	16.51	30.99	41.29	7.61	10.15	19.04	25.38
#18	1.8	45.7	13.11	17.49	32.78	43.70	8.06	10.75	20.15	26.86
#19	1.9	48.3	13.85	18.45	34.61	46.14	8.51	11.34	21.27	28.36
#20	2.0	50.8	14.58	19.43	36.41	48.55	8.96	11.94	22.38	29.84
#22	2.2	55.9	16.03	21.36	40.07	53.43	9.85	13.13	24.63	32.84
#24	2.4	61.0	17.49	23.31	43.72	58.28	10.75	14.33	26.87	35.82
#26	2.6	66.0	18.94	25.25	47.38	63.16	11.64	15.52	29.12	29.82
#28	2.8	71.1	20.40	27.20	51.04	68.04	12.54	16.72	31.37	41.82
#30	3.0	76.2	21.85	29.14	54.65	72.86	13.43	17.91	33.59	44.78
#32	3.2	81.3	23.31	31.09	58.28	77.72	14.33	19.11	35.82	47.76
#34	3.4	86.4	24.76	33.04	61.62	82.55	15.22	20.31	38.06	50.74
#36	3.6	91.4	26.23	34.96	65.55	87.40	16.12	21.49	40.29	53.72
#38	3.8	96.5	27.60	36.92	69.21	92.28	17.01	22.69	42.54	56.72
#40	4.0	101.6	29.14	38.85	72.86	97.13	17.91	23.88	44.78	59.70
#42	4.2	106.7	30.60	40.79	76.49	101.98	18.81	25.07	47.01	62.68
#44	4.4	111.8	32.07	42.74	80.15	106.86	19.71	26.27	49.26	65.68
#46	4.6	116.8	33.53	44.67	83.79	111.70	20.61	27.46	51.50	68.66
#48	4.8	121.9	34.96	46.62	87.42	116.56	21.49	28.66	53.73	71.64
#50	5.0	127.0	36.43	48.57	91.06	121.40	22.39	29.85	55.97	74.62
#52	5.2	132.1	37.88	50.50	94.72	126.29	23.28	31.04	58.22	77.62
#54	5.4	137.2	39.34	52.45	98.38	131.17	24.18	32.24	60.47	80.62
#56	5.6	142.2	40.79	54.39	102.00	135.98	25.07	33.43	62.69	83.58
#58	5.8	147.3	42.25	56.34	105.62	140.83	25.97	34.63	64.92	86.56
#60	6.0	152.4	43.70	58.28	109.29	145.71	26.86	35.82	67.17	89.56
#62	6.2	157.5	45.17	60.22	112.93	150.56	27.76	37.01	69.41	92.54
#64	6.4	162.6	46.63	62.16	116.56	155.41	28.66	38.21	71.64	95.52
#66	6.6	167.6	48.08	64.12	120.20	160.26	29.55	39.41	73.88	98.50
#68	6.8	172.7	49.54	66.07	123.86	165.86	30.45	40.61	76.13	101.50
#70	7.0	177.8	50.99	67.99	127.49	169.99	31.34	41.79	78.36	104.48
#72	7.2	182.9	52.45	69.93	131.14	174.84	32.24	42.98	80.60	107.46
#74	7.4	188.9	53.90	71.88	134.76	179.69	33.13	44.18	82.83	110.44
#76	7.6	193.0	55.37	73.82	138.43	184.57	34.03	45.37	85.08	113.44
#78	7.8	195.1	56.81	75.77	142.07	189.42	34.92	46.57	87.32	116.42
#80	8.0	203.2	58.28	77.71	145.73	194.30	35.82	47.76	89.57	119.42
#82	8.2	208.3	59.74	79.66	149.34	199.11	36.72	48.96	91.79	122.38
#84	8.4	213.4	61.19	81.59	153.00	203.99	37.61	50.15	94.04	125.38
#86	8.6	218.4	62.66	83.53	156.63	208.84	38.51	51.34	96.27	128.36
#88	8.8	223.5	64.12	85.48	160.28	213.69	39.41	52.54	98.51	131.34
#90	9.0	228.6	65.58	87.42	163.90	218.53	40.31	53.73	100.74	134.32

Percent Solids = 100 x Dry Coating Weight (or Volume) Wet Coating Weight (or Volume)

*8lb/gallon coating weights assumed.

All coating amounts are theoretical. Actual amounts may vary depending upon characteristics and rheology of the coatings.