

Ismatec® ecoline Pumps



VC-280

EasyLoad

VC-MS/CA8-6

Save space— pumps stack easily

- Durable stainless steel housing and four stabilizing feet for easier stacking
- Simple setup and operation with preassembled pump heads
- Start, stop, and reverse flow with a single switch
- Angled speed control displays for easy user access

Remotely control these economical pumps via an analog input signal (0 to 5 VDC, 0 to 10 VDC, 0 to 20 mA, or 4 to 20 mA); start/stop drive or reverse direction via contact closure (eight-pin DIN). Input signals from your existing instruments actuate drive functions.

Single-Channel Pumps

- Minimize tubing wear and ensure automatic centering with convex roller (VC models)
- Change tubing quickly with easily accessible pump head (EasyLoad models)
- Rotors accommodate 1.6 or 2.4 mm wall tubing

Minicartridge Pumps

- No adjustments needed—spring-loaded cassettes for optimal occlusion at all times
- Get consistent, low-pulse flow with 6 or 12 rollers
- Three-stop, color-coded tubing provides longer tubing life as well as quick identification

Specifications

Motor type: DC motor

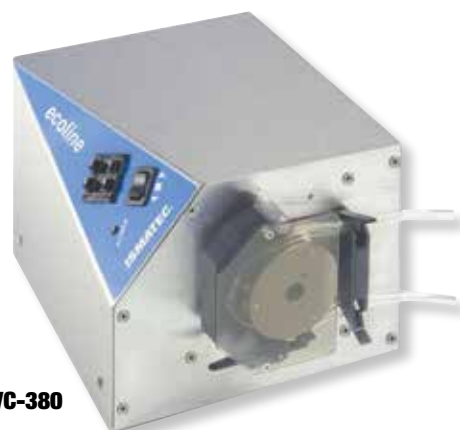
Speed range: 3.5 to 350 rpm

Speed setting: 1 to 99%, resolution 1% 2-digit potentiometer

Interfaces: speed control (0–5 V, 0–10 V, 0–20 mA, 4–20 mA), start/stop, rotation direction

Protection rating: IP30

Power consumption: 100 W



VC-380

Flow Ranges

(mL/min) for Single-Channel Pumps



Tube ID (mm)	Wall thickness (mm)	VC-280	VC-380	VC-360	EasyLoad	EasyLoad II
0.8	1.6	—	—	0.25 to 25	0.23 to 23	0.21 to 21
1.6	1.6	1.7 to 170	1.6 to 160	0.90 to 90	0.86 to 86	0.77 to 77
3.2	1.6	6.6 to 660	5.9 to 590	3.5 to 350	3.2 to 320	2.80 to 280
4.8	1.6	15 to 1500	13 to 1300	7.7 to 770	6.5 to 650	5.85 to 585
4.8	2.4	13 to 1300	12 to 1200	—	—	—
6.4	1.6	25 to 2500	13 to 1300	13 to 1300	11 to 1060	9.90 to 990
6.4	2.4	23 to 2300	20 to 2300	—	—	—
8.0	1.6	37 to 3700	34 to 3400	—	16 to 1600	13.40 to 1340
8.0	2.4	35 to 3500	31 to 3100	—	—	—
9.5	1.6	48 to 4800	44 to 4400	—	—	—
9.5	2.4	46 to 4600	42 to 4200	—	—	—
11.1	1.6	54 to 5400	50 to 5000	—	—	—

Flow Ranges

(mL/min) for Minicartridge Pumps



Tube ID (mm)	VC-MS/CA8-6	VC-MS/CA4-12
0.13	0.005 to 0.49	0.003 to 0.32
0.19	0.010 to 0.98	0.007 to 0.75
0.25	0.017 to 1.7	0.013 to 1.3
0.38	0.038 to 3.8	0.031 to 3.1
0.44	0.050 to 5.0	0.042 to 4.2
0.51	0.067 to 6.7	0.055 to 5.5
0.57	0.084 to 8.4	0.067 to 6.7
0.64	0.10 to 10	0.084 to 8.4
0.76	0.15 to 15	0.12 to 12
0.89	0.20 to 20	0.15 to 15
0.95	0.22 to 22	0.18 to 18
1.02	0.26 to 26	0.20 to 20
1.09	0.29 to 29	0.22 to 22
1.14	0.32 to 32	0.24 to 24
1.22	0.36 to 36	0.26 to 26
1.30	0.40 to 40	0.29 to 29
1.42	0.47 to 47	0.33 to 33
1.52	0.53 to 53	0.36 to 36
1.65	0.61 to 61	0.42 to 42
1.75	0.67 to 67	0.44 to 44
1.85	0.73 to 73	0.47 to 47
2.06	0.87 to 87	0.53 to 53
2.29	1.0 to 100	0.60 to 60
2.54	1.2 to 120	0.68 to 68
2.79	1.3 to 130	0.75 to 75
3.17	1.5 to 150	0.83 to 83

Ordering Information



Model	Flow range per channel	No. of channels	No. of rollers	Tubing accepted	Size (mm)	Weight (kg)	Catalog number	
							115 VAC, 60 Hz	230 VAC, 50 Hz
Single-channel pumps								
VC-280	1.7 to 5400 mL/min	1	2	Ismatec pump tubing	256 x 169 x 138	5.2	ISM1078B-115	ISM1078B-230
VC-380	1.6 to 5000 mL/min		3		256 x 169 x 138	5.3	ISM1079B-115	ISM1079B-230
VC-360	0.25 to 1300 mL/min		3		238 x 169 x 138	4.9	ISM1076A-115	ISM1076A-230
EasyLoad	0.23 to 1600 mL/min		3		285 x 169 x 138	5.2	ISM1091-115	ISM1091-230
EasyLoad II	0.24 to 1000 mL/min		4		238 x 169 x 138	5.4	ISM1091B-115	ISM1091B-230
Minicartridge pumps								
VC-MS/CA8-6	0.01 to 130 mL/min	8	6	Ismatec three-stop tubing	313 x 169 x 138	5.5	ISM1063-115	ISM1063-230
VC-MS/CA4-12	0.0075 to 75 mL/min	4	12		281 x 169 x 138	5.4	ISM1090-115	ISM1090-230

Accessories _____

IS0649A Adjustable occlusion minicartridge

IS3510A Replacement Click'n'go™ minicartridge

ISM016 Foot switch, momentary contact