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Ecoline

Economical and powerful

Stackable pumps for dispensing and filling applications with variable flow rates

- Robust stainless steel housing (stackable)
- 2-digit potentiometer adjustable in 1% steps



Ecoline VC-MS/CA8-6

0.005–150 ml/min

8 channels
6 rollers

Ecoline VC-MS/CA4-12

0.003–83 ml/min

4 channels
12 rollers (low pulsation)

- Click'n'go cassettes with automatic pressure setting
- 3-stop tubing
- Differential pressure 1.0 bar ¹

¹ Possible with appropriate tubing material; tubing with small i.d.'s and/or cassettes with the pressure lever (see Page 60) may enable higher pressures.



Ecoline VC-Easy-Load®

0.23–1600 ml/min

- 1 channel
- 3 rollers
- Easily accessible pump-head
- Allows rapid tube change-over
- Pump-head PSF housing (Polysulfone)
- Standard tubing 1.6 mm WT
- Differential pressure 1.5 bar ¹

¹ Differential pressure depends on tubing material; tubing with small i.d.'s may enable higher pressures.



Ecoline VC-360

0.25–1300 ml/min

- 1 channel
- 3 convex rollers treat the liquid and tubing gently
- Hinged tube-bed for easy and rapid tube change-over
- Standard tubing 1.6 mm WT
- Differential pressure 1.5 bar ¹

¹ Differential pressure depends on tubing material; tubing with small i.d.'s may enable higher pressures.

Specifications

Motor type	DC motor
Speed	3.5 to 350 rpm
Speed setting	1–99%, resolution 1% 2-digit potentiometer
Power consumption	100 W
Mains connection	230V _{AC} /50Hz, 115V _{AC} /60Hz adjustable
Protection rating	IP 30

Size

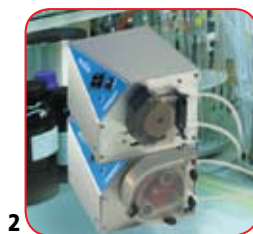
Model	Depth/Width/Height
Ecoline VC-280	256 x 169 x 138 mm
Ecoline VC-380	256 x 169 x 138 mm
Ecoline VC-360	238 x 169 x 138 mm
Ecoline VC-Easy-Load®	285 x 169 x 138 mm
Ecoline VC-MS/CA8-6	313 x 169 x 138 mm
Ecoline VC-MS/CA4-12	281 x 169 x 138 mm

Weight

Model	Weight
Ecoline VC-280	5.2 kg
Ecoline VC-380	5.3 kg
Ecoline VC-360	4.9 kg
Ecoline VC-Easy-Load®	5.2 kg
Ecoline VC-MS/CA8-6	5.5 kg
Ecoline VC-MS/CA4-12	5.4 kg



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1 Available without pump-head: ISM 1077

2 Easy stackable

3 These pump-heads are also available as OEM versions. Ask for the detailed data sheet.

**Easily exchangeable rotor**

WT 1.6 mm, 2 or 3 rollers
VC-280 or VC-380

WT 2.4 mm, 2 or 3 rollers
VC-281 or VC-381

Ecoline VC-280**1.7–5400 ml/min****Ecoline VC-380****1.6–5000 ml/min**

1 channel

2 or 3 convex rollers treat the liquid and tubing gently

- With exchangeable rotor e.g. for lower pulsation, higher flow rates, or elevated differential pressures
- Standard tubing 1.6 mm wall thickness (WT)
- Differential pressure 1.5 bar ¹

¹ Differential pressure depends on tubing material; tubing with small i.d.'s may enable higher pressures.

Flow rates / Tubing

Model Type Channels Rollers			Ecoline VC-280 1 2		Ecoline VC-380 1 3		Ecoline VC-360 1 3		Ecoline VC-Easy-Load® 1 3	
Speed rpm			3.5	350	3.5	350	3.5	350	3.5	350
Tygon®ST R-3603/R-3607 Order No.	WT (mm)	Tubing i.d.(mm)	ml/min per channel		ml/min per channel		ml/min per channel		ml/min per channel	
			min.	max.	min.	max.	min.	max.	min.	max.
MF0001	1.6	0.8					0.25	25	0.23	23
MF0028	1.6	1.6	1.7	170	1.6	160	0.9	90	0.86	86
MF0030	1.6	3.2	6.6	660	5.9	590	3.5	350	3.2	320
SC0379	1.6	4.8	51	1500	13	1300	7.7	770	6.5	650
MF0031	1.6	6.4	25	2500	23	2300	13	1300	11	1060
MF0032	1.6	8.0	37	3700	34	3400			16	1600
SC0383	1.6	9.5	48	4800	44	4400				
SC0384	1.6	11.1	54	5400	50	5000				

Approx. values: determined with water at 22°C, no differential pressure, Tygon®ST tubing.

Interfaces

- Speed control (0–5 or 0–10 V, 0–20 or 4–20 mA)
- Start/Stop, rotation direction

1**Flow rates / Tubing**

Model Type Channels Rollers		Ecoline VC-MS/CA8-6 8 6		Ecoline VC-MS/CA4-12 4 12	
Speed rpm		3.5	350	3.5	350
Tygon ST R-3603/R-3607 Order No.	Tubing i.d.(mm)	ml/min per channel		ml/min per channel	
		min.	max.	min.	max.
SC0189	0.13	0.005	0.49	0.003	0.32
SC0050	0.25	0.017	1.7	0.013	1.3
SC0053	0.51	0.067	6.7	0.055	5.5
SC0056	0.76	0.15	15	0.12	12
SC0059	1.02	0.26	26	0.20	20
SC0062	1.22	0.36	36	0.26	26
SC0065	1.52	0.53	53	0.36	36
SC0068	1.85	0.73	73	0.47	47
SC0071	2.54	1.2	120	0.68	68
SC0224	3.17	1.5	150	0.83	83

Approx. values: determined with water at 22°C,

no differential pressure, Tygon®ST tubing.

Ordering information

Model	Order No.	Flow rates ml/min per channel	Channels max.	Rollers
Ecoline VC-280 WT 1.6	ISM 1078	1.7 to 5400	1	2
Ecoline VC-380 WT 1.6	ISM 1079	1.6 to 5000	1	3
Ecoline VC-281 WT 2.4*	ISM 1085	13 to 4600	1	2
Ecoline VC-381 WT 2.4*	ISM 1080	12 to 4200	1	3
Rotor with 2 rollers WT 1.6	IS 3762	1.7 to 5400	1	2
Rotor with 3 rollers WT 1.6	IS 3763	1.6 to 5000	1	3
Rotor with 2 rollers, WT 2.4	IS 3757	13 to 4600	1	2
Rotor with 3 rollers, WT 2.4	IS 3754	12 to 4200	1	3
Ecoline VC-360	ISM 1076	0.25 to 1300	1	3
Ecoline VC-Easy-Load®	ISM 1091	0.23 to 1600	1	3
Ecoline VC-MS/CA8-6	ISM 1089	0.005 to 150	8	6
Ecoline VC-MS/CA4-12	ISM 1090	0.003 to 83	4	12
Ecoline without pump-head	ISM 1077			
Foot switch	IS 3572	see Page 61		
Spare cassettes MS/CA	IS 3510	see Page 60		

*For standard tubing 2.4 mm wall thickness 4.8 – 9.5 mm (3/16 – 3/8") inner diameter

Tubing for aggressive media see Page 35

Applications**Ecoline VC-280**

To apply protective lacquer to cartons

Ecoline VC-380

As recirculating pump for coolant in thermostat bath

Ecoline VC-360

Externally controlled spectrophotometer cuvette filling

Ecoline VC-MS/CA8-6

8-channel flushing of the tubing system of a digital fabric printing machine