

# TUBING PUMPS-2 TO 4 CHANNELS

## MS-CA Stand-mounted pumps

Save space with stand-mounted pumps

- 고정된 스피드
- 시작/중료 기능
- 재현성이 우수
- 좁은 공간에 사용이 용이



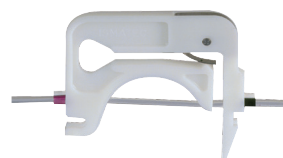
### MS-CA

0.021-26 ml/min (per channel)

- 2 또는 4채널
- 6 또는 8 rollers
- Click'n'go cassettes
- 각 채널별 다른 사이즈의 tubing 사용 가능
- 3-stopper tubing 사용
- 1.0 bar의 differential pressure

#### Specifications MS-CA

Motor type	Synchronous motor
Speed	20, 40 또는 60 rpm
Power consumption	8 W
Mains connection	230V <sub>AC</sub> (50/60 Hz) 또는 115V <sub>AC</sub> (50/60 Hz)
Depth/Width/Height	2-channel 125×88×135 mm 4-channel 145×88×135 mm
Weight	2-channel 1.2kg 4-channel 1.3kg
Protection rating	IP 30



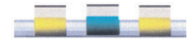
Spare cassettes MS/CA  
(see Page 64)



## Applications

- 일정한 유속으로 다채널 액체 이송시
- Sipper pump for flow-through cuvettes
- 과유량 조절 시스템이 필요할 때

## Flow rates and tubing



Model	MS-CA _ /620	MS-CA 4/640	MS-CA 2/660	MS-CA _ /820	MS-CA 4/840	MS-CA 2/860	
Channels	2/4	4	2	2/4	4	2	
Rollers	6	6	6	8	8	8	
Speed rpm	20	40	60	20	40	60	
Tygon® LMT-55 Order No.	Tubing i.d.(mm)	ml/min per channel		ml/min per channel		ml/min per channel	
		min. <sup>1</sup>	max.	min. <sup>1</sup>	max.	min. <sup>1</sup>	max.
SC0189T	0.13	0.028	0.055	0.083	0.021	0.043	0.064
SC0050T	0.25	0.10	0.19	0.29	0.08	0.16	0.24
SC0053T	0.51	0.38	0.77	1.2	0.34	0.67	1.0
SC0056T	0.76	0.84	1.7	2.5	0.73	1.5	2.2
SC0059T	1.02	1.5	2.9	4.4	1.3	2.5	3.8
SC0062T	1.22	2.0	4.1	6.1	1.8	3.5	5.3
SC0065T	1.52	3.0	6.0	9.1	2.6	5.1	7.7
SC0068T	1.85	4.2	8.4	13	3.5	7.0	10
SC0071T	2.54	6.6	13	20	5.5	11	16
SC0224T	3.17	8.5	17	26	7.1	14	21

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



OEM용 사용 가능



튜브 선택 안내 책자  
(각 펌프에 공급)  
- 재료와 튜빙 특징  
- 화학적 저항력 목록  
- 주문 정보

## Ordering information

Model	Order No.	Flow rates ml/min per channel	Channels max.	Rollers	Speed rpm
MS-CA 2/620	ISM 844	0.028 - 8.5	2	6	20
MS-CA 2/640	ISM 845	0.055 - 17.0	2	6	40
MS-CA 2/660	ISM 846	0.083 - 26.0	2	6	60
MS-CA 2/820	ISM 847	0.021 - 7.1	2	8	20
MS-CA 2/840	ISM 848	0.043 - 14.0	2	8	40
MS-CA 2/860	ISM 849	0.064 - 21.0	2	8	60
MS-CA 4/620	ISM 850	0.028 - 8.5	4	6	20
MS-CA 4/640	ISM 851	0.055 - 17.0	4	6	40
MS-CA 4/820	ISM 852	0.021 - 7.1	4	8	20
MS-CA 4/840	ISM 853	0.043 - 14.0	4	8	40

\*26 different tubing i.d.'s give 26 flow rates !

Spare cassettes MS/CA... (see Page 64)