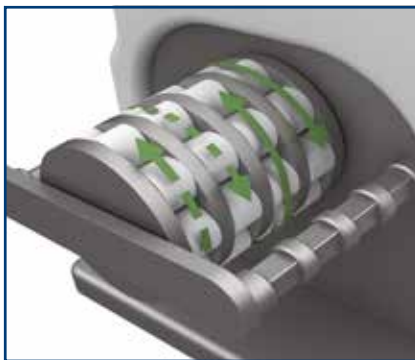


## Masterflex<sup>®</sup> Ismatec<sup>®</sup> Reglo Independent Channel Control (ICC) Pumps

### Ideal for space-limited applications

- Get the benefits of peristaltic dispensing with these compact, easy-to-use pumps
- Independent channel control—each channel can be individually set to a different flow rate and/or rotational direction
- Intuitive user interface for quick setup and programming
- Independent channel calibration gives you synchronous flow from each channel



#### Independent Channel Design

- ✓ Up to four independently controllable channels
- ✓ Flexibility of bidirectional flow in each channel
- ✓ Continuous pumping or precision dispensing
- ✓ Enhanced accuracy through separate channel calibration



# Masterflex Reglo ICC (Independent Channel Control) Pumps

- Set each channel to pump at different speeds and directions
- Independent channel calibration minimizes the tube-to-tube differences offering excellent accuracy
- Control each channel individually via front panel or up to eight pumps remotely via USB or RS-232 interface—eliminates the clutter of multiple pumps
- Click'n'go™ tubing cassettes allow quick changeovers

Use the Reglo ICC pump to control up to four channels, each with independent functionality—start, stop, dispense, reverse, aspirate, and calibrate. Time-based routines allow for complex experiment development. Control up to eight pumps at once, via the USB hub or by daisy-chaining the RS-232 connectors. Windows®-based software is included. Select from benchtop or panel-mount models.

## Specifications

**Motor type:** stepper motor (1/channel)

**Speed range:** 0.1 to 100 rpm, 0.01 rpm resolution

**Interfaces:** USB 2.0, Mini-B, RS-232

**Protection rating:** IP30

**Weight:** 2.7 kg

**Power consumption:** 30 W

**Differential pressure:** 1.0 bar (14.5 psi)

### Operating Modes

**Flow rate:** continuous operation at a set rate and direction

**Volume over time:** dispensing a desired volume over a desired time

**Volume:** dispensing a desired volume at a set flow rate

**Time mode:** dispensing for a set time duration with a set flow rate

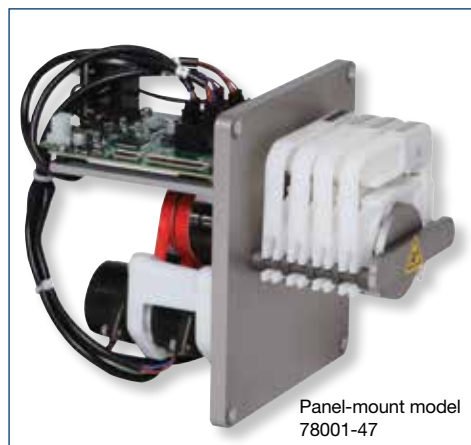
**Volume with pause:** dispensing a set volume over multiple cycles with defined pause time in between

**Time with pause:** dispensing for a set time duration over multiple cycles with defined pause time in between

**Calibration:** allows each channel to be calibrated for dispensed fluid volume accuracy



Benchtop model  
78001-70



Panel-mount model  
78001-47

## Flow Ranges (mL/min)



Tubing ID (mm)	6 rollers	8 rollers	12 rollers
0.13	0.0002 to 0.14	0.0002 to 0.11	0.0001 to 0.093
0.51	0.0019 to 1.9	0.0017 to 1.7	0.0016 to 1.6
0.57	0.0024 to 2.4	0.0021 to 2.1	0.0019 to 1.9
0.64	0.0030 to 3.0	0.0026 to 2.6	0.0024 to 2.4
0.95	0.0064 to 6.4	0.0056 to 5.6	0.0050 to 5.0
1.02	0.0073 to 7.3	0.0063 to 6.3	0.0056 to 5.6
1.42	0.013 to 13	0.011 to 11	0.0094 to 9.4
1.75	0.019 to 19	0.016 to 16	0.013 to 13
1.85	0.021 to 21	0.017 to 17	0.014 to 14
2.54	0.033 to 33	0.027 to 27	0.019 to 19
2.79	0.036 to 36	0.031 to 31	0.021 to 21
3.17	0.043 to 43	0.035 to 35	0.024 to 24

## Ordering Information



No. of channels	No. of rollers	Tubing accepted	Size (mm)	Power	Catalog number
<b>Benchtop pumps</b>					
2	6	Ismatec three-stop tubing	193 x 125 x 170	100 to 240 VAC, 50/60 Hz	MK-78001-58
	8				MK-78001-60
	12				MK-78001-62
3	6		205 x 125 x 170		MK-78001-68
	8		MK-78001-70		
	12		MK-78001-72		
4	6		218 x 125 x 170		MK-78001-78
	8				MK-78001-80
	12				MK-78001-82
<b>Panel-mount pumps</b>					
2	8	Ismatec three-stop tubing	157 x 127 x 145	24 VDC	MK-78001-43
3	8		169 x 127 x 145		MK-78001-45
4	8		182 x 127 x 145		MK-78001-47
4	12		182 x 127 x 145		MK-78001-49

MK-78016-98 Replacement MS/CA Click'n'go tubing cassette, POM-C

MK-78016-96 MS/CA Click'n'go tubing cassette, PVDF

POM-C = polyoxymethylene copolymer, PVDF = polyvinylidene fluoride

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