

8: Specifications

Pump Options

| Model | Cat No. | Approx Size | Approx Weight |
|-----------|----------|--|---------------------|
| 1-channel | 7103-051 | 160 W x 190 D x 210 H (mm) 6.3 W x 7.5 D x 8.27 H (in) | 4 kg 8.75 lbs |
| 2-channel | 7103-052 | 160 W x 190D x 215 H (mm) 6.3 W x 7.5 D x 8.46 H (in) | 4.2 kg 9.25 lbs |
| 4-channel | 7103-054 | 160 W x 190D x 235 H (mm) 6.3 W x 7.5 D x 9.25 H (in) | 4.4 kg 9.75 lbs |
| 8-channel | 7103-058 | 160 W x 190 D x 275 H (mm) 6.3 W x 7.5 D x 10.83 H (in) | 5.3 kg 11.75 lbs |
| Pump body | 7103-050 | 160 W x 190 D x 165 H (mm) 6.3 W x 7.5 D x 6.5H (in) | 3.7 kg 8.25 lbs |

Specifications

| | |
|---|--|
| Head speed: | 0 to 48 rpm |
| Torque: | greater than 3 N-m across full operating range at 115VAC |
| Speed stability: | 0.5% |
| Speed adjustment: | 0.00 to 9.99 rpm in 0.01 rpm increments 10.0 to 48.0 rpm in 0.1 rpm increments |
| Flow rate: | 0-37 mL/min max at 0 backpressure (depending on tubing diameter) |
| Max back-pressure: | 70 psi |
| Wetted surfaces: | PVC, Silicon, Viton (tubing only) |
| Flow tubing diameter: | 0.25 mm ID - 4 mm ID |
| Line voltage: | 110V (nominal): 90V to 130V 220V (nominal): 180V to 260V (The rated voltage implies a $\pm 10\%$ fluctuation of 100-240VAC in mains power output; the RP-1 will operate between 90 and 260 volts.) |
| Line frequency: | 50 - 60 Hz |
| Power consumption | 40 watts max, 20 watts typical |
| Temperature: | 4° to 40°C |
| Humidity: | up to 95% non-condensing |
| Operating position: | vertical $\pm 5^\circ$ |
| Prices and specifications are subject to change without notice. | |

9: Accessories

Tubing

| Cat. No. | Tubing Length (in) | ID, mm | Max Flow (48rpm) mL/min | Color |
|---|--------------------|--------|-------------------------|-----------|
| Polyvinyl Chloride. For most aqueous solutions. Low gas permeability. Pkg. of 12. | | | | |
| 39-620 | 14 | 0.25 | 0.33 | Orn/Blue |
| 39-621 | 14 | 0.38 | 0.66 | Orn/Green |
| 39-622 | 14 | 0.50 | 1.13 | Orn/Yel |
| 39-623 | 14 | 0.63 | 1.6 | Orn/White |
| 39-624 | 14 | 0.76 | 2.2 | Black |
| 39-625 | 14 | 1.52 | 8.3 | Yel/Blue |
| 39-626 | 14 | 2.29 | 17.2 | Pur/Blk |
| 39-627 | 14 | 2.8 | 24.6 | Pur/Wht |
| 39-628 | 14 | 3.16 | 28.2 | Blk/White |
| Silicone. For aqueous and polar solutions. High gas permeability. Cold-room applications. Pkg. of 12. | | | | |
| 39-660 | 14 | 0.25 | 0.26 | Orn/Blue |
| 39-661 | 14 | 0.38 | 0.6 | Orn/Green |
| 39-662 | 14 | 0.50 | 0.95 | Orn/Yel |
| 39-663 | 14 | 0.63 | 1.5 | Orn/White |
| 39-664* | 14 | 0.76 | 2.0 | Black |
| 39-665* | 14 | 1.52 | 7.4 | Yel/Blue |
| 39-666* | 14 | 2.29 | 15.4 | Pur/Blk |
| 39-667* | 14 | 2.8 | 20.6 | Pur/White |
| * Autoclavable | | | | |
| Viton. For gases, oils, strong acids, bases, organics, up to 200°C. Pkg. of 12. | | | | |
| 39-640 | 7 | 0.50 | 0.6 | Orn/Yel |
| 39-641 | 7 | 0.63 | 0.94 | Orn/White |
| 39-642 | 7 | 0.76 | 1.2 | Black |
| 39-643 | 7 | 1.42 | 4.7 | Yellow |
| 39-644 | 7 | 2.28 | 11.8 | Pur/Blk |
| 39-645 | 7 | 2.79 | 15.8 | Pur/White |