

LabTec Specifications: Summary

Mechanical:

Dimension: 5.75" (14.6 cm) W x 8.5" (21.6 cm) H x 11"(27.9 cm)D

Weight: 14 lbs (6.4 kg).

Enclosure: Aluminum / Steel; Corrosion Resistant, Recessible Handle.

TANDEM™ Dual Channel Peristaltic Pump Head: Stainless Steel and Noryl Plastic, four(4) roller design (stainless steel). Passive pump tube retention; two stainless steel forks automatically engage pump tubing when the TANDEM pump head is closed. The **TANDEM Model 1082** (P/N:080-1082) is compatible with **thick-walled** Masterflex tubing sizes 15 & 24. Optionally, the **TANDEM Model 1081** (P/N: 080-1081) is available and is compatible with **thin-walled** Masterflex® pump tube sizes 13, 14, 16, 25, 17 & 18.

TANDEM Pump Performance: 2.0 ml/min. to 2000 ml/min. per channel, 30 psi for continuous pumping, 40 psi for intermittent pumping.

Electrical:

Power: 110-120 / 220-240 V, 60 / 50 Hz, 75 Watts; double fused, Fuse Rating: TIAL 250V (CE: IR35A, 250VAC)

Motor: Variable speed, 600 RPM max. at 30 VDC, 3.8 Amps; optically encoded, servo - controlled.

Operating Range: 4 to 40° C, 100% Humidity.

Motor Encoder: 100 lines per motor revolution.

I/O Ports:

1. First serial port labeled "Balance", Male DB9 connector.
2. Second serial port labeled "Printer", Female DB9 connector.
3. Phone jack connector labeled "Foot Switch" for remote On / Off control of LabTec via foot switch.
4. DB15 labeled " Valve V", not used with LabTec.
5. DB37 labeled "I/O", not used with LabTec.

Display: Two line LCD, 20 characters each, back-lit.

Data Entry: Membrane keyboard with auditory feedback.

Software:

- Main menu with the following six (6) operational modes.
- Weight Ratio Dispensing: Auto-weighing and diluting of samples..
- Volume Dispensing: Programmable batch dispensing by volume.
- Weight Dispensing: Programmable batch dispensing by weight.
- Setup: Selection of user preferences and interface options.
- Manual: Simple pump control; no alarms.
- Serial: Remote control of LabTec pump via PC using RS-232 connection.