



## Feed Pumps

### Peristaltic Nutrient Pumps

Peristaltic pumps are ideal for pumping plant nutrients and dilute acids. The liquid is contained within a tube which is squeezed by a roller around a semi-circular track. This action moves the liquid along the pipe providing the pumping action. There are therefore no valves to clog up or fail. The tube itself is made of a robust material that should last a complete season. This tube is easily replaced. Peristaltic pumps are completely self priming with no back flow or syphoning. Peristaltic pumps are not recommended for concentrated acids, use the diaphragm pumps detailed below. Tomtech manufacture a range of peristaltic pumps with different capacities.

#### PDP101 Peristaltic Pump

This is the smallest pump in the range. It is normally fitted with a 4.8mm bore tube giving a maximum flow rate of 0.39 litres per minute. Smaller tube sizes can be fitted to reduce the volume for research applications. This pump is driven by a DC motor which is speed controlled by altering the duty cycle. The pump unit is housed in a plastic enclosure with front panel auto/manual switch and prime button.

#### M1500 Peristaltic Pump

This pump is normally fitted with an 8mm bore tube giving a maximum flow rate of 1.6 litres per minute. This pump is driven by a DC motor which is speed controlled by altering the duty cycle. This pump is housed in a stainless steel enclosure with front panel auto/manual switch and prime button.

#### M3000 Peristaltic Pump

Larger volume pump with 10mm tube providing a maximum flow rate of 3 litres per minute. This pump uses a 230v AC motor that is duty cycle controlled. The motor control electronics are housed in a plastic enclosure with front panel auto/manual switch and prime button. The pump unit may easily be mounted on a vertical or horizontal surface.

#### M6000 and M8000 Peristaltic Pumps

Larger volume pumps, the M6000 unit is fitted with 12.7mm bore tube giving a maximum flow rate of 6 litres per minute while the M8000 uses 14.5mm tube providing 8 litres per minute. These pumps are driven by a three phase motor from a standard single phase 230v AC supply. The control electronics for this unit is enclosed in a separate control box which provides full variable speed control for the motor.

### Diaphragm Acid Pumps

The DXF diaphragm pumps are made from PTFE and Viton which make them very inert and ideal for handling concentrated acids. Three models are available:

DXF2	maximum flow 2 litres per hour
DXF8	maximum flow 8 litres per hour
DXF15	maximum flow 15 litres per hour

All these pumps are compatible with the Tomtech T200, IC20, HC80 and HC160 computers and the Micro Feed controller with the exception of the M6000/M8000 which is designed to be driven by the T200.

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