

810 series with DC powered motors

Specification Sheet 1 (last updated May 2011)



The 810 series peristaltic pumps are available in 12 or 24v DC motor options. They are capable of delivering flow rates as high as 987 ml/min, the pump heads are polypropylene with stainless steel fasteners, self priming up to 29 ft. (8.8m), run up to 20 psi (2.7 bar), are non-siphoning and can be run dry continuously.

The easiest way to place an order or check prices is via our online shop at <http://www.williamson-shop.co.uk> but please contact us for any requirements not listed or to place an order over the phone.

Model No	Series	ml/min	Rollers	RPM	Supply Voltage	Tube id/material
810.040.012.187/2	810 series pumphead	80	2	40	12VDC	4.8mm 55 food sant
810.040.012.187/3	810 series pumphead	70	3	40	12VDC	4.8mm 55 food sant
810.040.024.187/2	810 series pumphead	80	2	40	24VDC	4.8mm 55 food sant
810.040.024.187/3	810 series pumphead	70	3	40	24VDC	4.8mm 55 food sant
811.040.012.187/2	810 series pumphead	80	2	40	12VDC	4.8mm silicone.
811.040.012.187/3	810 series pumphead	70	3	40	12VDC	4.8mm silicone.
811.040.024.187/2	810 series pumphead	80	2	40	24VDC	4.8mm silicone.
811.040.024.187/3	810 series pumphead	70	3	40	24VDC	4.8mm silicone.
810.090.012.187/2	810 series pumphead	180	2	90	12VDC	4.8mm 55 food sant
810.090.012.187/3	810 series pumphead	158	3	90	12VDC	4.8mm 55 food sant
810.090.024.187/2	810 series pumphead	180	2	90	24VDC	4.8mm 55 food sant
810.090.024.187/3	810 series pumphead	158	3	90	24VDC	4.8mm 55 food sant
811.090.012.187/2	810 series pumphead	180	2	90	12VDC	4.8mm silicone.
811.090.012.187/3	810 series pumphead	158	3	90	12VDC	4.8mm silicone.
811.090.024.187/2	810 series pumphead	180	2	90	24VDC	4.8mm silicone.
811.090.024.187/3	810 series pumphead	158	3	90	24VDC	4.8mm silicone.
810.143.012.187/2	810 series pumphead	286	2	143	12VDC	4.8mm 55 food sant
810.143.012.187/3	810 series pumphead	250	3	143	12VDC	4.8mm 55 food sant
810.143.024.187/2	810 series pumphead	286	2	143	24VDC	4.8mm 55 food sant
810.143.024.187/3	810 series pumphead	250	3	143	24VDC	4.8mm 55 food sant
811.143.012.187/2	810 series pumphead	286	2	143	12VDC	4.8mm silicone.
811.143.012.187/3	810 series pumphead	250	3	143	12VDC	4.8mm silicone.
811.143.024.187/2	810 series pumphead	286	2	143	24VDC	4.8mm silicone.
811.143.024.187/3	810 series pumphead	250	3	143	24VDC	4.8mm silicone.
810.282.012.187/2	810 series pumphead	564	2	282	12VDC	4.8mm 55 food sant
810.282.012.187/3	810 series pumphead	494	3	282	12VDC	4.8mm 55 food sant
810.282.024.187/2	810 series pumphead	564	2	282	24VDC	4.8mm 55 food sant
810.282.024.187/3	810 series pumphead	494	3	282	24VDC	4.8mm 55 food sant
811.282.012.187/2	810 series pumphead	564	2	282	12VDC	4.8mm silicone.
811.282.012.187/3	810 series pumphead	494	3	282	12VDC	4.8mm silicone.
811.282.024.187/2	810 series pumphead	564	2	282	24VDC	4.8mm silicone.
811.282.024.187/3	810 series pumphead	494	3	282	24VDC	4.8mm silicone.

Please note DC motor RPM varies with load. Motor voltages stated are nominal, most DC motors can be run at the stated voltage minus 50% & plus 25%. All the above motors are fitted with carbon brushes which are a wearing part. The estimate life of brushes when pumping under minimal load at the stated voltage is approx 2000 hours, but many factors affect this life. These motors may require filtering to meet EMC regulations.

Please note: Items in Red - available for volume orders only

The flow rates shown on this website were calculated either by measuring the flow rate on the stated voltage with a one metre suction lift and zero discharge head pumping ordinary tap water with an ambient temperature of 20C or extrapolated from those figures by factoring for different gearshift rotation speed. The flow rates given should only be used as a guide and customers should run their own tests on their own application. We reserve the right to make changes to the pump which may result in variations to these figures and reserve the right to do this without notice. Customers should also check regularly to see if the published figures have changed in case it affects their system. The Williamson Manufacturing Company Ltd provides no warranty on usage of pumps. We recommend that life tests be carried out prior to use. This information is given in good faith and believed to be correct and current at time of publishing. The Williamson Manufacturing Company Ltd cannot accept responsibility for its inaccuracy or any errors or omissions contained herein. Copyright The Williamson Manufacturing Company Ltd 2011.

810 series with DC powered motors

Specification Sheet 2 (last updated May 2011)



The 810 series peristaltic pumps are available in 12 or 24v DC motor options. They are capable of delivering flow rates as high as 987 ml/min, the pump heads are polypropylene with stainless steel fasteners, self priming up to 29 ft. (8.8m), run up to 20 psi (2.7 bar), are non-siphoning and can be run dry continuously.

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Model No	Series	ml/min	Rollers	RPM	Supply Voltage	Tube id/material
810.040.012.250/2	810 series pumphead	140	2	40	12VDC	6.4mm 55 food sant
810.040.012.250/3	810 series pumphead	120	3	40	12VDC	6.4mm 55 food sant
810.040.024.250/2	810 series pumphead	140	2	40	24VDC	6.4mm 55 food sant
810.040.024.250/3	810 series pumphead	120	3	40	24VDC	6.4mm 55 food sant
811.040.012.250/2	810 series pumphead	140	2	40	12VDC	6.4mm silicone.
811.040.012.250/3	810 series pumphead	120	3	40	12VDC	6.4mm silicone.
811.040.024.250/2	810 series pumphead	140	2	40	24VDC	6.4mm silicone.
811.040.024.250/3	810 series pumphead	120	3	40	24VDC	6.4mm silicone.
810.090.012.250/2	810 series pumphead	315	2	90	12VDC	6.4mm 55 food sant
810.090.012.250/3	810 series pumphead	270	3	90	12VDC	6.4mm 55 food sant
810.090.024.250/2	810 series pumphead	315	2	90	24VDC	6.4mm 55 food sant
810.090.024.250/3	810 series pumphead	270	3	90	24VDC	6.4mm 55 food sant
811.090.012.250/2	810 series pumphead	315	2	90	12VDC	6.4mm silicone.
811.090.012.250/3	810 series pumphead	270	3	90	12VDC	6.4mm silicone.
811.090.024.250/2	810 series pumphead	315	2	90	24VDC	6.4mm silicone.
811.090.024.250/3	810 series pumphead	270	3	90	24VDC	6.4mm silicone.
810.143.012.250/2	810 series pumphead	501	2	143	12VDC	6.4mm 55 food sant
810.143.012.250/3	810 series pumphead	429	3	143	12VDC	6.4mm 55 food sant
810.143.024.250/2	810 series pumphead	501	2	143	24VDC	6.4mm 55 food sant
810.143.024.250/3	810 series pumphead	429	3	143	24VDC	6.4mm 55 food sant
811.143.012.250/2	810 series pumphead	501	2	143	12VDC	6.4mm silicone.
811.143.012.250/3	810 series pumphead	429	3	143	12VDC	6.4mm silicone.
811.143.024.250/2	810 series pumphead	501	2	143	24VDC	6.4mm silicone.
811.143.024.250/3	810 series pumphead	429	3	143	24VDC	6.4mm silicone.
810.282.012.250/2	810 series pumphead	987	2	282	12VDC	6.4mm 55 food sant
810.282.012.250/3	810 series pumphead	846	3	282	12VDC	6.4mm 55 food sant
810.282.024.250/2	810 series pumphead	987	2	282	24VDC	6.4mm 55 food sant
810.282.024.250/3	810 series pumphead	846	3	282	24VDC	6.4mm 55 food sant
811.282.012.250/2	810 series pumphead	987	2	282	12VDC	6.4mm silicone.
811.282.012.250/3	810 series pumphead	846	3	282	12VDC	6.4mm silicone.
811.282.024.250/2	810 series pumphead	987	2	282	24VDC	6.4mm silicone.
811.282.024.250/3	810 series pumphead	846	3	282	24VDC	6.4mm silicone.

Please note DC motor RPM varies with load. Motor voltages stated are nominal, most DC motors can be run at the stated voltage minus 50% & plus 25%. All the above motors are fitted with carbon brushes which are a wearing part. The estimate life of brushes when pumping under minimal load at the stated voltage is approx 2000 hours, but many factors affect this life. These motors may require filtering to meet EMC regulations.

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