Williamson
Manufacturing
Company Limited

AQUADOSER cased 230vAC pumps

Specification Sheet 1 (last updated April 2016)

200 fixed speed (200-AQUADOSER-FS-050)

Pump reliability and performance are critical to dosing pump users. Whether it is water recirculation or replenishment, for nutrient dosing, or mineral/pH adjustment, users need to depend on the pump for accurate dosing and long term reliability.

To meet this need we have developed the AQUADOSER range of peristaltic pumps, offering a compact and low cost pump capable of continuous running*, in either variable or fixed speed configurations.

All Aquadoser pumps are available with two pump head types, the 100 series, pictured below, for lower flows and the 200 series, pictured left, for higher outputs. There are various configurations of tubing type/ID and they are self priming up to 5m from dry with a max head pressure of 10m.

AQUADOSER dimensions: Height 140 x Width 87 x Depth 87mm

The key benefit of peristaltic pumps is that only the inner surface of the tubing comes into contact with the fluid thereby minimising the risk of contamination and making regular servicing of the pump extremely simple. There are two tube materials and three sizes giving a wide range of flows. The 100 & 200 models are fitted with peroxide cured silicone tubing and the 101 & 201 models are fitted with Norprene tubing which is more durable and less prone to splitting when worn out.

Additionally peristaltic pumps are some of the best self-priming pumps available, ensuring quick and easy installation and set-up. Replacement pump head assemblies are inexpensive, and all the replacement process involves is undoing two screws and swapping the pump head over on the motor shaft – all done in about two minutes!

For applications where the pump is dosing aggressive or corrosive fluids we can supply alternative chemically resistant pump tubing – please contact us to discuss.

For ease of installation the Fixed speed AQUADOSER pumps are fitted with a 2m cable and fused UK 3-pin plug for use on 230v 50Hz UK mains voltage. The Variable speed AQUADOSER pumps are supplied with an adjustment knob on the front face of the box and are supplied with an inline power supply unit (which should be mounted above the pump and in a dry area). Other power supply options such as 6 volt DC, 24 volt DC, and 110 volt AC (fixed speed only) are available (to order only).

Replacement pump heads and other spares are available. NB: - The Variable speed pumps are fitted with a brushed DC gear motor so efforts should be made not to run the pump continuously to minimise brush wear. The brushes are expected to last approximately 2500 hours under normal conditions. The gear motors are available as a spare part.

* Continuous running should be avoided where ever possible to maximise pump life. Plug in clock timers (available from most hardware stores) can be used to avoid running the pump 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.

100 Fixed speed (100-AQUADOSER-FS-030/4)

Aviation House, The Street, Poynings, West Sussex, BN45 7AQ
Phone: 0845 226 3638 Fax: 0845 226 3639 WEB: www.wmcpumps.com

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Specification Sheet 2 (last updated April 2016)

The Aquadoser range of pumps are available in various configurations of tubing type/ID bore as detailed below. 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. All prices are plus carriage & plus VAT at the prevailing UK rate.

Important: The standard version of this pump is supplied sealed so the tube cannot be changed. The pump has been designed so that when the pump head has worn out it is changed as a whole. We are able to supply pumpheads unsealed for customers that wish to change the tubing periodically. Please contact our office for details.

Pumps

Model No	Series	ml/min	Rollers	RPM	Voltage	Tube id/material	
100-Aqua15-FS-016/4	100 series fixed speed	1	4	15rpm	230v	1.6mm	Silicone
101-Aqua15-FS-016/4	100 series fixed speed	1	4	15rpm	230v	1.6mm	Norprene®
100-Aqua15-FS-030/4	100 series fixed speed	3.5	4	15rpm	230v	3.0mm	Silicone
101-Aqua15-FS-030/4	100 series fixed speed	3.5	4	15rpm	230v	3.0mm	Norprene®
100-Aqua-SC-016/4	100 series speed control	7	4	80rpm	115-230v	1.6mm	Silicone
101-Aqua-SC-016/4	100 series speed control	7	4	80rpm	115-230v	1.6mm	Norprene®
100-Aqua-SC-030/4	100 series speed control	18	4	80rpm	115-230v	3.0mm	Silicone
101-Aqua-SC-030/4	100 series speed control	18	4	80rpm	115-230v	3.0mm	Norprene®
200-Aqua-FS-016	200 series fixed speed	6	3	30rpm	230v	1.6mm	Silicone
201-Aqua-FS-016	200 series fixed speed	6	3	30rpm	230v	1.6mm	Norprene®
200-Aqua-FS-030	201 series fixed speed	17	3	30rpm	230v	3.0mm	Silicone
201-Aqua-FS-030	202 series fixed speed	17	3	30rpm	230v	3.0mm	Norprene®
200-Aqua-FS-050	200 series fixed speed	36	3	30rpm	230v	5.0mm	Silicone
201-Aqua-FS-050	201 series fixed speed	36	3	30rpm	230v	5.0mm	Norprene®
200-Aqua-SC-016	200 series speed control	14	3	80rpm	115-230v	1.6mm	Silicone
201-Aqua-SC-016	200 series speed control	14	3	80rpm	115-230v	1.6mm	Norprene®
200-Aqua-SC-030	200 series speed control	40	3	80rpm	115-230v	3.0mm	Silicone
201-Aqua-SC-030	200 series speed control	40	3	80rpm	115-230v	3.0mm	Norprene®
200-Aqua-SC-050	200 series speed control	84	3	80rpm	115-230v	5.0mm	Silicone
201-Aqua-SC-050	200 series speed control	84	3	80rpm	115-230v	5.0mm	Norprene®

Spare Parts

Model No	Series	Number Rollers	Tube id/material	
100.PH.016/4	100 fixed & variable	4	1.6mm	Silicone
100.PH.030/4	100 fixed & variable	4	3mm	Silicone
101.PH.016/4	101 fixed & variable	4	1.6mm	Norprene®
101.PH.030/4	101 fixed & variable	4	3mm	Norprene®
200.PH.016	200 fixed & variable	3	1.6mm	silicone
200.PH.030	200 fixed & variable	3	3mm	silicone
200.PH.050	200 fixed & variable	3	5mm	silicone
201.PH.016	200 fixed & variable	3	1.6mm	Norprene®
201.PH.030	200 fixed & variable	3	3mm	Norprene®
201.PH.050	200 fixed & variable	3	5mm	Norprene®
MTR-12-70-AQUA	Variable speed models	n/a	all	n/a
MTR-230-AC-030	200 series Fixed speed models –230VAC	n/a	all	n/a
MTR-230-AC-015	100 series Fixed speed models –230VAC	n/a	all	n/a

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.

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