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HEAVY-DUTY PUMPS



HD-MA 80-1

- Pump housings are aluminium protected by double coats of epoxy paint, with option for Teflon coating (green in colour).
- Internal transformer reduces incoming electrical supply to 48V, 'isolating' and protecting against external voltage fluctuations.
- IP65 enclosure protection.
- Approximate weights of 5.4 to 7.6 kg.
- 162-167 mm (depth) x 236 mm (width) x 194 mm (height).
- Manufactured in accordance with **CE** regulations.

TYPES	HD-MA	<ul style="list-style-type: none"> ■ Flow rate adjusted manually by twin-scale stroke rate knob (0-20% / 0-100%).
	HD-MA/T	<ul style="list-style-type: none"> ■ Flow rate adjusted manually by stroke rate knob, or ■ Flow rate controlled by contact water meter, which activates pump's built-in timer.
	HD-VF	<ul style="list-style-type: none"> ■ Flow rate adjusted manually by stroke rate knob, or ■ Flow rate controlled by a contact water meter (X water meter pulses = Y pump pulses).
	HD-PM	<ul style="list-style-type: none"> ■ Flow rate adjusted manually by twin-scale stroke rate knob (0-20% / 0-100%), or ■ Flow rate controlled by a 0.1, 1, 2 or 4 l/pulse contact water meter (X water meter pulses = pump activation to achieve a specified system p.p.m.)
	HD-PH	<ul style="list-style-type: none"> ■ Pump and pH controller (0-14 pH) built into one compact unit. ■ Pump activated ONLY by the incoming pH signal, but stroke rate can be user-set.
	HD-RX	<ul style="list-style-type: none"> ■ Pump and ORP controller (\pm 1400 mV) built into one compact unit. ■ Pump activated ONLY by the incoming ORP signal, but stroke rate can be user-set.
	HD-PH/P	<ul style="list-style-type: none"> ■ Pump and pH controller (0-14 pH) built into one compact unit. ■ Pump activated ONLY by the incoming pH signal. ■ Pump flow rate is proportional to difference between system pH and set point.

MODELS	Model	l/hr	bar	HD-MA	HD-MA/T	HD-VF	Type HD-PM	HD-PH	HD-RX	HD-PH/P	
	0.25-6	0.25	6	✓							
	1-10	1	10	✓	✓	✓	✓	✓	✓	✓	
	2-10	2	10	✓	✓						
	2-20	2	20	✓	✓	✓					
	4-20	4	20	✓							
	5-10	5	10	✓	✓	✓	✓	✓	✓	✓	
	10-5	10	5	✓	✓	✓	✓	✓	✓	✓	
	10-10	10	10	✓	✓	✓	✓	✓	✓	✓	
	15-5	15	5	✓							
	20-3	20	3					✓	✓		
	20-5	20	5	✓	✓	✓	✓			✓	
	30-4	30	4	✓	✓						
	50-0.3	50	0.3	✓	✓	✓					
	50-2	50	2	✓	✓						
	80-1	80	1	✓	✓						

(Full model numbers are designated in the form of "TYPE MODEL" – eg. "HD-MA 5-10")

FEATURES	STANDARD		OPTIONS
	Electricals	230V/50-60Hz/1ph	110V, 240 V and others available.
	Body/casing (non-wetted)	Aluminium with double coats of epoxy paint.	Teflon-coated casing (green).
	Pumphead assembly	PVC (30 l/hr & above, or 20 bar models), PP (all others).	PVC, full PTFE, SS316.
	Check valves	Ball type (50 l/hr & above), Viton lip type (all others).	Lip types: EPDM, NBR, Silicon. Ball types: SS316, glass Pyrex.
	Diaphragm	Entirely PTFE	-
	Seals	Viton	EPDM, NBR, Silicon, PTFE.
	Suction / discharge tube (2m)	PVC / PE	-
	Filter (footvalve) & Injection valve	1/2" BSPm PVC (30 l/hr & above), 3/8" BSPm PP (all others).	-
	4-20 mA output from pump	HD-PH & HD-RX models only.	-
	pH/ORP electrodes	HD-PH, HD-RX & HD-PH-P models only.	-
	Relay outputs	HD-PH/P models only.	-
	Auto air bleed	-	PVC pumpheads only.
	Stroke length adjustment	-	Yes.
	Tank low level sensor	Yes (probe not included).	Order probe separately.

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