



DOSING SYSTEMS
Solenoid Driven Dosing Pumps

HC201

Technical Data Sheet
HC2 series



KEY FEATURES

- Programmable Microprocessor with several control options
- PTFE Diaphragm
- Electronic Frequency control
- Manual Stroke length adjustment
- Multifunction dosing modes
- Digital keypad controls
- Stop/Start button
- Dosing Head with integral priming valve
- Double Ball Valves as standard
- Lip valves on request
- Horizontal Mounting
- Optional Vertical mount bracket at extra cost
- Reinforced Plastic PP housing IP65
- Supplied complete with hose accessory kit
- Optional flow failure facility
- Low Level facility
- Level probe on request

The **HC201** is a multifunctional electronic solenoid driven dosing pump that has several electronic control options and incorporates a mechanical stroke length adjustment feature as well as electronic frequency control.

PUMP CONTROL MODE

Digital controls: allow easy programming for both proportional and manual modes.

Programming modes:

- **Manual mode:** enables you to select the exact number of strokes, between 1-120 strokes per minute which can be used to prime the pump.
- **Pulse Multiplication mode:** The pump will stroke in response to an external pulse. The pump control panel enables you to set the number of pulses the pump will stroke from a single pulse.
- **Pulse Division mode:** The pump will stroke in response to external pulses. The impulse counter enables you to set the number of pulses received before the pump does 1 stroke.
- **Milliamp mode:** The pump will stroke in response to an external Milliamp signal. The pump control panel enables you to spread the dosing pumps output across all or some of the milliamp signal. There are also 2 set points for creating your own dosing bandwidth.

Optional Level control: If fitted a level switch stops the pump when the chemical level runs low.

LIQUID END MATERIAL HC2		
	Standard Version	Upon request
Pump head	PP	PVDF- PVC - AISI 316 - PTFE
Diaphragm	PTFE	-----
Valve balls	Glass Pyrex	AISI 316
Valve cartridge	PP	AISI 316
Seals/O-rings	Viton®	Dutral® - NBR
Spring loaded injection valve	Hastelloy/Pyrex	Hastelloy/AISI 316
Foot Valve/Filter Fitting	PP	PVDF
Suction Hose /Air Bleed hose	PVC	PVDF
Discharge Hose	PE	PVDF
Upon request:		
Lip Valve	Viton®	Dutral® - NBR
Injection Sleeve-Non return Valve	Viton®	Dutral® - NBR

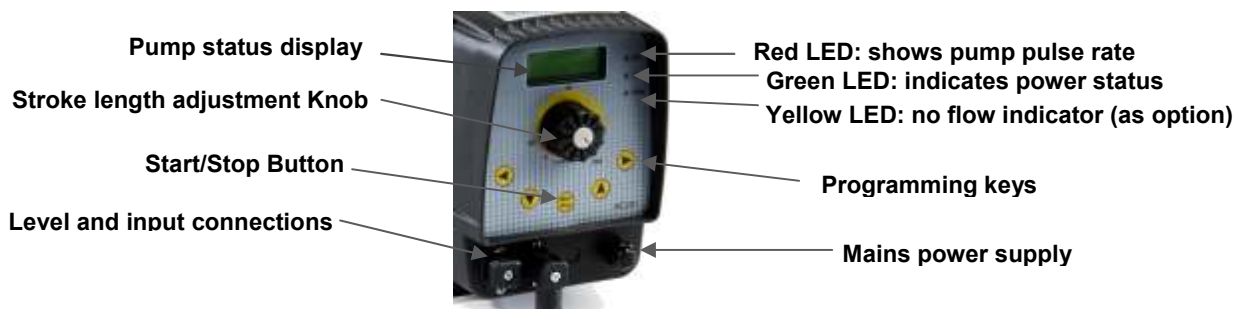
Viton®: FPM / Dutral®: EPDM, are registered trademarks of Dupont Elastomers

TECHNICAL CHARACTERISTICS HC2 SERIES

Model	Max Flow at		Stroke	Stroke	Stroke	Power	Hose	Pump head	Max
	Max Pressure	frequnc	volume	length	cons.	size	(connections)	suction	
	l/h	bar	per min.	ml / l	mm	watt	mm	model	lift m
HC201 02-18	2	18	120	0.27	1.0	66	4x6	PP 3/8"	1.5
HC201 04-18	4	18	120	0.55	1.2	66	4x6	PP 3/8"	1.5
HC201 09-09	9	9	120	1.25	1.9	60	4x6	PP 3/8"	1.5
HC201 15-04	15	3	120	2.08	2	65	4x6	PP 3/8"	1.5

Model	TYPICAL OUTPUT HC2		Flow at max pressure		Flow at median pressure		Flow at 1 bar	
	l/h	bar	l/h	bar	l/h	bar	l/h	bar
02-18	2	18	4	9	9	1		
04-18	4	18	6,7	9	10	1		
09-09	9	9	12.5	4	13.7	1		
15-04	15	4	15.3	2	15.7	1		

NOTE: The flow rates opposite have been obtained by testing the pump with medium hardness water at a 1.5m suction lift at room temperature



Power supply: 230 Vac -1 phase - 50/60 Hz / ± 10%	Power cable: 3 m grounded without plug
Available upon request: 110 Vac - 1 phase - 60 Hz	Ambient working temperature: 45°C
Recommended frequency adjustment: 10 - 100%	Voltage working range: min 207v - Max 253v
Connector: 4 pole IP66 / Level switch 2 m cable	Voltage Peak: Max 270 v
Reproducibility under standard conditions: ± 5%	Plastic housing and support: PP reinforced; IP65

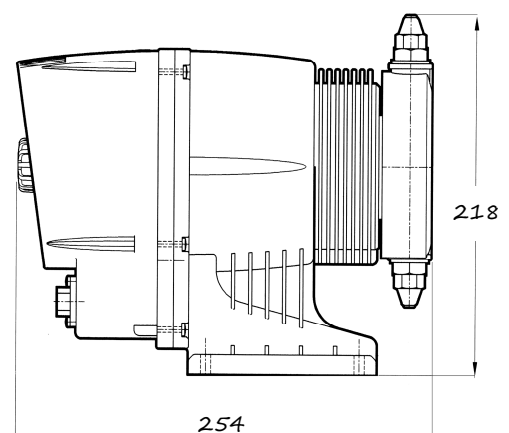
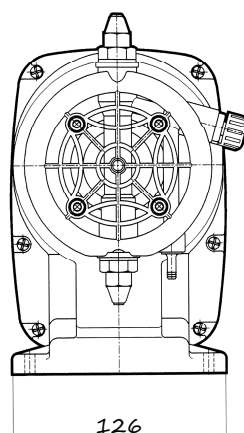
HC201 is provided with a Standard Accessory Kit:

- 1 No - PP Non return Injection fitting (Ball type)
- 2 m - Discharge Hose (PE)
- 2 m - PVC clear suction hose
- 1.5 m - PVC clear priming hose
- HC200 is provided with Low Level facility as standard which requires a low level switch (available on request)
- 1 No - PP Foot valve strainer with lip valve
- Screws and plugs for pump mounting bracket
- For Lip valve version:
- 1 No - Injection Valve- Viton



HC2 series Dimension & Packing Details

Packing weight: 4.5 kg
Packing size (mm): 240 x 340 x 250
Packing volume: 0.01 m³



AQUA WATER SYSTEMS LTD
Unit 135 Oak Drive, Hartlebury Trading Estate
Hartlebury, Worcestershire, DY10 4JB
Tel 0844 967 1616 Fax: 0844 967 1617
email: sales@askaqua.co.uk Web: www.askaqua.co.uk

Technical Data Sheet
HC201