



DOSING SYSTEMS
Solenoid Driven Dosing Pumps

HC200 PH/RX

Technical Data Sheet
HC2 series



- Built-in pH- Rx instrument
- pH range 0-14pH
- Redox range +/- 0-1000mv
- Manual Stroke length adjustment
- PTFE Diaphragm
- LED Display (pH or ORP Reading)
- Analogue 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
- Low Level facility
- Level probe on request

*The **HC200 PH/RX** electronic solenoid driven dosing pump has an integral **pH/Redox controller** with a single control set point which monitors the pH/Redox level of water. Its main purpose is to operate the pump if this level goes above or below the set point. This set point can be adjusted and features a digital display of the value at any time. Connection to the electrode is made via a BNC connector. It also incorporates a mechanical stroke length adjustment feature.*

PUMP FUNCTIONS, DOSING MODES AND CONTROLS

Digital controls: allow easy programming for both pH & Redox settings

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	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

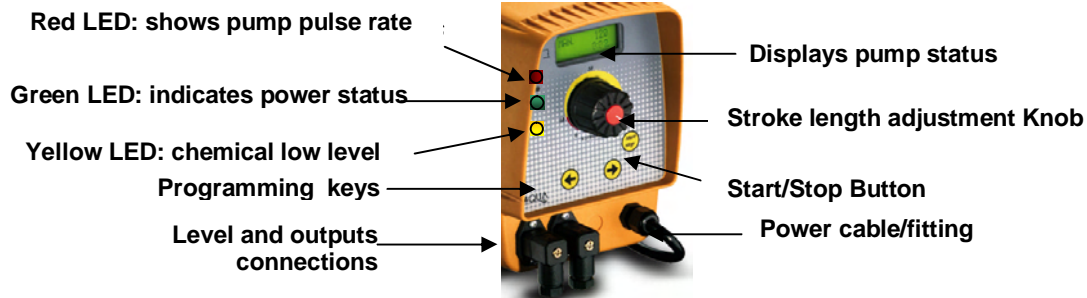
Viton®: FPM / Dutral®: EPDM, are registered trademarks of Dupont Elastomers

TECHNICAL CHARACTERISTICS HC2 SERIES

Model	Max Flow at		Stroke frequency per min.	Stroke volume ml / l	Stroke length mm	Power cons. watt	Hose size mm	Pump head (connections) model	Max suction lift m
	l/h	bar							
HC200 PHRX 02-18	2	18	120	0.27	1.0	66	4x6	PP 3/8"	1.5
HC200 PHRX 04-18	4	18	120	0.55	1.2	66	4x6	PP 3/8"	1.5
HC200 PHRX 09-09	9	9	120	1.25	1.9	60	4x6	PP 3/8"	1.5
HC200 PHRX 15-04	15	4	120	2.08	2	65	4x6	PP 3/8"	1.5

Model	TYPICAL OUTPUT HC2		Flow at max pressure		Flow at average 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	6.5	9	12	1		
09-09	9	9	12	4.5	15	1		
15-04	15	4	16	1.5	18	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

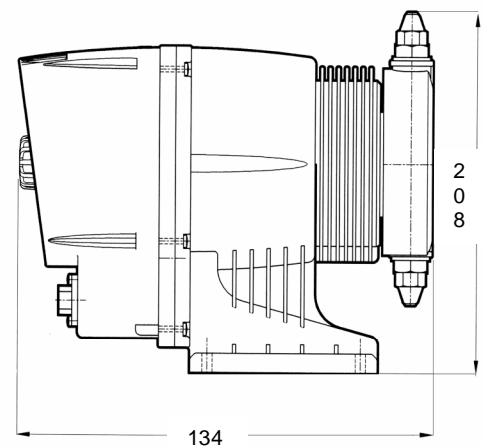
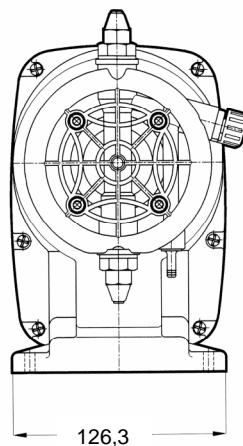
HC200 is provided with a Standard Hose Accessory Kit:

- 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 PH/RX 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
 Units 3-6 - Hodfar Road - Sandy Lane Ind Est
 Stourport-on-Severn - Worcestershire - DY13 9QB
 Tel. : 01299 827703 - Fax : 01299 827704
 email: sales@askaqua.co.uk Web: www.askaqua.co.uk

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