



DOSING SYSTEMS
Solenoid Driven Dosing Pumps

HC200 PH/RX

Technical Data Sheet
HC2 series



KEY FEATURES

- Built-in pH- Rx instrument
- pH range 0-14pH
- Redox range +/- 0-1000mv
- Manual Stroke length adjustment
- PTFE Diaphragm
- 2 Line LCD display
- 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

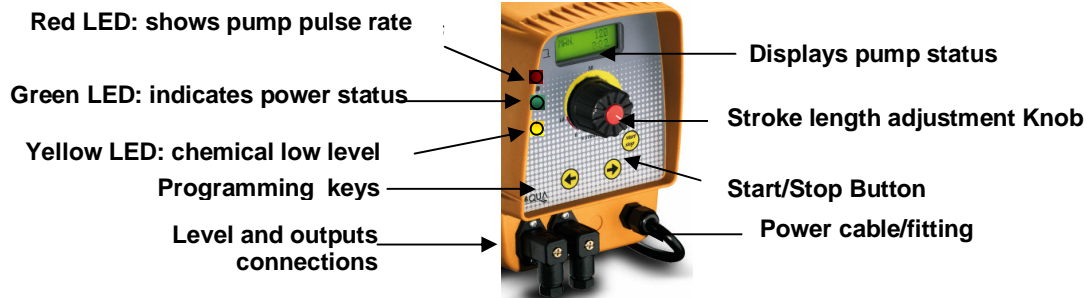
Viton®: FPM / Dutral®: EPDM, are registered trademarks of Dupont Elastomers

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

TYPICAL OUTPUT HC2 Model	Flow at max pressure		Flow at average pressure		Flow at 1 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)

1 No - PP Foot valve strainer with lip valve

2 m - Discharge Hose (PE)

Screws and plugs for pump mounting bracket

2 m - PVC clear suction hose

For Lip valve version:

1.5 m - PVC clear priming hose

1 No - Injection Valve- Viton

HC200 PH/RX is provided with Low Level facility as standard which requires a low level switch (available on request)

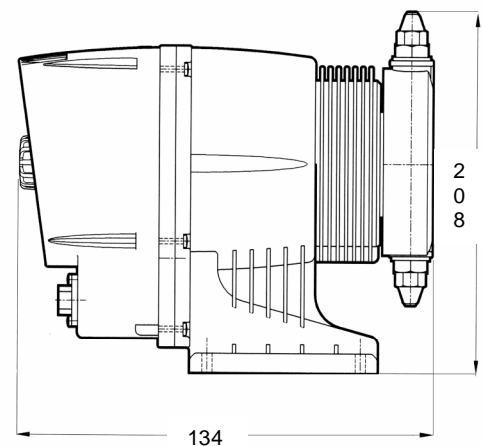
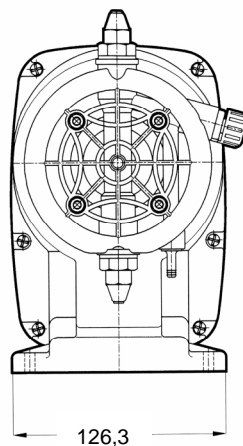


HC2 series Dimension & Packing Details

Packing weight: **4.5 kg**

Packing size (mm): **240 x 340 x 250**

Packing volume: **0.01 m³**



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