



DOSING SYSTEM
Solenoid Driven Dosing Pumps

HC100 PH

Technical Data Sheet
HC1 series



KEY FEATURES

- Dosing Pump with integral pH controller
- One Proportional control set point
- pH Measuring range: 0-14 pH
- PTFE Diaphragm
- Microprocessor technology
- Touch Sensitive controls
- Double ball valves as standard
- Lip valves on request
- Dosing Head with integral priming valve
- LED Display of pH reading
- Wall Mount with bracket & fixing kit
- Reinforced PP Plastic housing
- Optional Low level control
- Supplied with hose accessory kit

The **HC100 PH** incorporates a **pH controller** with a single control set point which monitors the pH level of water. It's main purpose is to operate the pump if the pH level goes above or below the set point. This set point can be adjusted through from 0 - 14 pH and features a digital display of the pH value. External connections from the electrode are made via a BNC connector on the pump.
This model also features low level protection operated by an optional level switch.

PUMP FUNCTIONS, DOSING MODES AND CONTROLS

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

Manual mode: (F1) enables you to select the exact number of strokes, between 1-105 strokes per minute, mainly used to prime the pump.

Proportional mode: (L1) dictates the speed the pump will run proportional to the distance from the selected pH set point, once this set point is reached the dosing pump will automatically stop.

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

LIQUID END MATERIAL HC100 SERIES

	Standard Version	Upon request
Pump head	PP	PVDF
Diaphragm	PTFE	-----
Valve balls	Glass Pyrex	AISI 316 – PTFE - CERAMIC
Valve cartridge	PP	PVDF
Spring loaded injection valve:	Hastelloy/Pyrex	Hastelloy/AISI316 - PTFE
Seals/O-rings	Viton®	Dutral® - NBR
Spring Loaded Injection Fitting	Hastelloy/Pyrex	Hastelloy (AISI 316 – PTFE - CERAMIC)
Injection Fitting	PP	PVDF
Foot Valve Strainer	PP	PVDF
Suction Hose /Air Bleed hose	PVC	PVDF
Discharge Hose	PE	PVDF
Upon request: Lip type valve	Viton®	Dutral® - NBR
Injection Sleeve-Non return Valve	Viton®	Dutral® - NBR

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

TECHNICAL CHARACTERISTICS HC1 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
	Max Pressure l/h	bar							
HC 100 PH 01-08	1	8	105	0.16		20	4x6	PP 3/8"	1.5
HC 100 PH 02-07	2	7	105	0.32	1.2	20	4x6	PP 3/8"	1.5
HC 100 PH 04-05	4	5	105	0.64	1.1	20	4x6	PP 3/8"	1.5
HC 100 PH 05-08	5	8	105	0.79	2.0	20	4x6	PP 3/8"	1.5

Model	TYPICAL OUTPUT HC1		Flow at max pressure		Flow at medium pressure		Flow at 1 bar	
	l/h	bar	l/h	bar	l/h	bar	l/h	bar
01-08	1	8	4.5	4	7.5	1		
02-07	2	7	5	3.5	8	1		
04-05	5	5	6	2.5	9	1		
05-08	5	8	7	4	10	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**

Reproducibility under standard conditions: **± 5%**

Voltage Peak: **Max 270v**

Plastic housing: **PP Reinforced**

Wall mounting bracket: **Polypropylene**

HC100 PH is provided with a Standard Hose Accessory Kit:

1 No - PP Non return Injection valve (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

Upon Request: Low Level facility & Low Level switch

HC1 series

Dimension & Packing Details

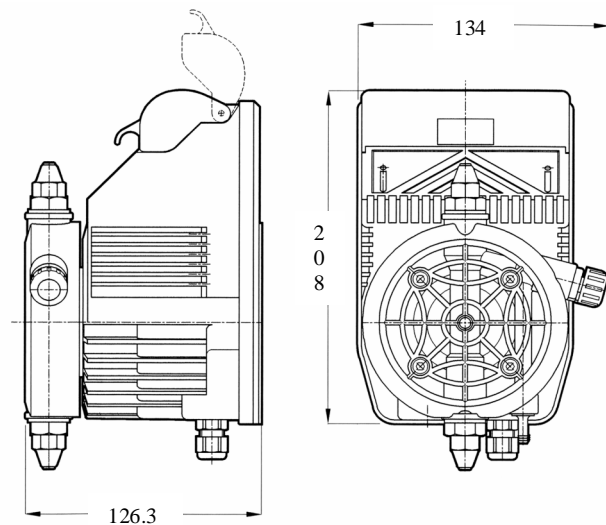
Packing weight: **2.5 - 3 kg**

Packing size (mm): **220 x 170 x 210**

Packing volume: **0.008 m3**

Now Available;

Horizontal Mount for HC100 series pumps



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