



DOSING SYSTEMS
Solenoid Driven Dosing Pumps

HC300 PH-RX

Technical Data Sheet
HC3 series

KEY FEATURES



- Built-in pH- Rx instrument
- pH range 0-14pH
- Redox range +/- 0-1000mv
- Electronic Frequency adjustment
- PTFE Diaphragm
- LCD display
- Microprocessor based
- Touch Sensitive controls
- Glass (Pyrex) Ball valves as standard
- Double Ball valves on request
- Dosing Head with integral priming valve
- Wall mount or foot mount with bracket
- Reinforced Plastic PP housing IP65
- Low Level facility
- Level probe on request

The **HC300 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. The pump is provided with a level facility and level switch. Also available is a plastic support bracket for horizontal mounting.

PUMP FUNCTIONS, DOSING MODES AND CONTROLS

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

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

LIQUID ENDS MATERIAL HC3

	Standard Version	Upon request
Pump head	PP	PVC - AISI 316 - PTFE
Diaphragm	PTFE	-----
Double Ball check valve:	Glass Pyrex	AISI 316
Valve cartridge	PP	AISI 316
Seals/O-rings	Viton ®	Dutral® - NBR
Injection Fitting	PP	Dutral® - NBR
Foot Valve/Filter Fitting	PP	AISI 316 - PTFE
Suction Hose /Air Bleed hose	PVC	-----
Discharge Hose	PE	-----
Spring loaded injection valve	Hastelloy/Pyrex	Hastelloy/AISI 316
Upon request:		
Lip Valve	Viton ®	Dutral® - NBR
Injection Sleeve-No return Valve	Viton ®	Dutral® - NBR

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

TECHNICAL CHARACTERISTICS HC3 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							
• HC300 PH/RX 02-09	2	9	120	0.27	0.8	30	4x6	PP 3/8"	1.5
• HC300 PH/RX 05-09	5	9	120	0.69	1	50	4x6	PP 3/8"	1.5
• HC300 PH/RX 10-04	10	4	120	1.38	1.2	50	4x6	PP 3/8"	1.5
HC300 PH/RX 18-04	18	4	120	2.50	1.5	65	4x6	PP 3/8"	1.5
HC300 PH/RX 30-02	30	2	120	4.17	1.5	70	10x14	PVC 1/2"	1.5
HC300PH/RX 50-0.05	50	0.5	120	6.94	1.5	70	10x14	PVC 1/2"	1.5

• Available to special order only



HC3 pump mounted on horizontal support available on request

HC3 CURVES	Flow at max pressure		Flow average pressure		Flow at 1 bar	
	l/h	bar	l/h	bar	l/h	bar
Model						
02-09	2	9	3.2	4.5	10.8	1
05-09	5	9	8.4	4.5	9.8	1
10-04	10	4	11	2	14	1
18-04	18	4	22	2	24	1
30-02	30	2			35	1
50-0.5	0.5	50				

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%**

Available upon request: **110 Vac - 1 phase - 60 Hz**

Recommended frequency adjustment: **10 - 100%**

Connector: **4 pole IP66 / Level switch 2 m cable**

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

Power cable: **3 m grounded without plug**

Ambient working temperature: **45°C**

Voltage working range: **min 207v - Max 253v**

Voltage Peak: **Max 270 v**

Plastic housing and support: **PP reinforced; IP65**

HC300 PH-RX is provided with Standard Hose Accessory Kit:

1 No - PP Non return Injection fitting (sleeve type)

2 m - Discharge Hose (PE)

2 m - PVC clear suction hose

1.5 m - PVC clear priming hose

HC300 PH-RX is provided with a 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 Ball valve version:

1 No - Injection Valve- hastelloy spring -ball Pyrex

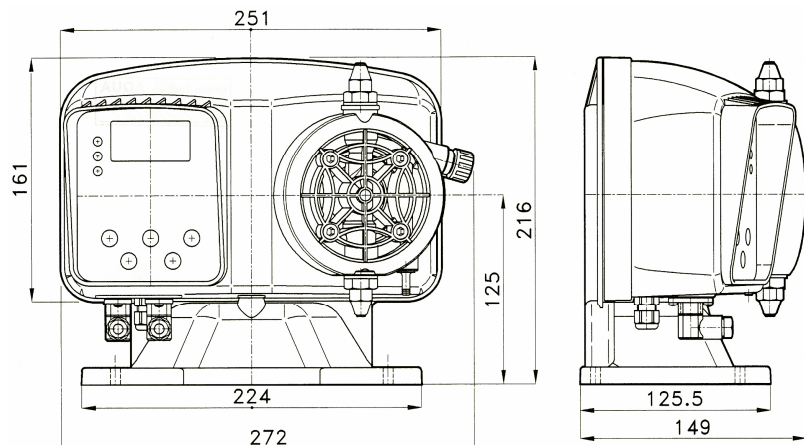


HC3 series dimensions and packing

Packing weight: **4 - 6 kg**

Packing size (mm): **330 x 250 x 375**

Packing volume: **0.01 m3**



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