



### KEY FEATURES

- Multifunction solenoid driven dosing pump (with constant and proportional dosing)
- Proportional control: P-I (impulse), mA (milliamp), pH, Rx and ppm built-in controllers.
- Multilanguage menu: ITA-ENG-FRA-SPA-GER
- User menu for pause and prime mode
- Installer menu protected by Password
- Day/Week Timer controller
- Injections Frequency control 0 + 100%
- Digital controls + 2 LED display status
- Statistic and Data Storage Menu
- Additional Output Relay for alarm repetition (Open/Close modes)
- On-Off power switch
- Discharge valve for Automatic Prime
- Provided standard with Low Level Facility (Switch not included – model required ADSLG)
- Wall or base mounting bracket included
- Reinforced PBT housing
- Supplied complete with accessory installation kit
- Power Supply : 230V±10% - 50/60 Hz.
- IP 65 rating

### Function modes (All models are equipped with time controller – day/weekly timer)

id.	MODE	FUNCTION	DESCRIPTION
1	COSTANT	FLOW RATE	When powered, the pump doses in constant mode at the selected frequency.
2	COSTANT	TIME	When powered, the pump doses in constant mode at the selected frequency and for "X" amount of time (sec. or min.) set. (ex: 10 sec at 90% frequency rate) This cycle is repeated every time the pump is powered.
3	COSTANT	DOSING QUANTITY	It is necessary to calibrate the pump initially (flow rate). When powered the pump doses a fixed amount of product at the set time (ex. 20 ml. in 10 min.), then pump stops. This cycle is repeated every time the pump is powered.
4	COSTANT	CYCLE	When powered the pump works in a time/cycle mode; (ex. it doses 10 seconds every 10 minutes) at the set frequency.
5	PROPORTIONAL	4-20 mA	The pump doses proportionally to a 4-20 mA signal received.
6	PROPORTIONAL	1/N	The pump operates as a common P-I pump connected to a pulse water pulse. The pump gives 1 stroke every "N" pulses received by the meter (Max frequency 30 Hz.).
7	PROPORTIONAL	1xN	The pump operates as a common P-I pump connected to a pulse water meter. For each pulse received the pump will give "N" strokes at the set frequency. (ex. 1x5 to 90 SpM (Strokes per Minute), the pump will inject 5 times at the set frequency of 90 SpM).
8	PROPORTIONAL	1xN (M) Inst.	"Instant" mode: Same as standard 1xN however the pump adjusts the dosing frequency as an average of pulses received. Moreover if the pump receives a pulse from the water meter while dosing, it will instantly add the extra strokes. (ex. 1X5; if pump receives a pulse between strokes 3 & 4, it immediately add an extra 5 strokes in-between and then terminate the initial cycle with stroke 4 & 5. These added strokes are performed at the pumps <b>max.</b> set SpM.
		1xN(M) Prop.	"Proportional" mode: Same as standard 1xN, however the pump adjusts the dosing frequency as an average of the pulses received. Moreover in this case instead of adding "instantly" the strokes at the moment of receiving a pulse during a cycle, they are memorized and added at the end of the cycle. (ex. 1x5; if pump receives a pulse between strokes 3 & 4, the pump will terminate the strokes 4 & 5 and then add an extra 5 strokes at the end of the initial cycle. These added strokes are performed at the <b>average</b> SpM memorized by the pump.
9	PROPORTIONAL	PPM	It is necessary to calibrate the pump initially (flow rate). The function is the same as the "Proportional" mode; only difference is the setting procedure: By introducing the desired ppm, the type of pulse water meter used (Lt. per pulse) and the concentration of the chemical product (in %). the pump calculates automatically the strokes to inject for each pulse received from the water meter.
10	PROPORTIONAL	pH	The pump doses proportionally by pH reading (range 0-14 pH).
11	PROPORTIONAL	Rx (ORP)	The pump doses proportionally by mV (ORP) reading (range 0-999 mV)

Model	Description	Characteristics	Id. Function
A	HC997 P-I / mA / CLK	Standard Model	From 1 to 9
B	HC997 P-I / mA / CLK / pH / Rx	Standard Model + pH - Rx	From 1 to 11

### LIQUID ENDS MATERIAL

	Standard Version	Upon request
Pump Head	PVDF	PP
Diaphragm	PTFE	-----
Ball Valves	PTFE	PYREX, CERAMIC
Connection Fitting	PVDF	PP
Seals/O-rings	Viton®	Dutral®
Injection Fitting	PVDF	PP
Foot Valve/Filter Fitting	PVDF	PP
<b>Upon request:</b> Lip valves	Viton®	Dutral®

### TECHNICAL CHARACTERISTICS HC997 SERIES

Model	Max Flow @		Stroke frequency per min.	Stroke Volume ml / pulse	Power Cons. watt	Hoze size mm	Pump Head model
	l/h	bar					
HC997 - 1	2	8	150	0,22	18	4x6	PVDF 1/2"
	5	5	150	0,55	18	4x6	PVDF 1/2"
	7	2	150	0,77	18	4x6	PVDF 1/2"
HC997 - 2	7	4	150	0,77	18	4x6	PVDF 1/2"
	8	2	150	0,88	18	4x6	PVDF 1/2"
	10	0	150	1,11	18	4x6	PVDF 1/2"
HC997 - 3	3	12	150	0,33	22	4x6	PVDF 1/2"
	4	10	150	0,44	22	4x6	PVDF 1/2"
	5	8	150	0,55	22	4x6	PVDF 1/2"
HC997 - 4	10	4	180	0,93	22	4x6	PVDF 1/2"
	12	2	180	1,11	22	4x6	PVDF 1/2"
	14	0	180	1,29	22	4x6	PVDF 1/2"

#### Standard Kit:

- |                                    |   |
|------------------------------------|---|
| n. 1 PVDF Injection valve GM1/2"   | n. 1 PVDF Foot Valve with ball valve    |
| n. 2 m. PE Delivery hose           | n. 2 m PVC Discharge Hose (Cristal)     |
| n. 2 m. PVC Suction Hose (Crystal) | Power Supply: 230 Vac- 50/60 Hz / ± 10% |

Upon Request Low Level Probe

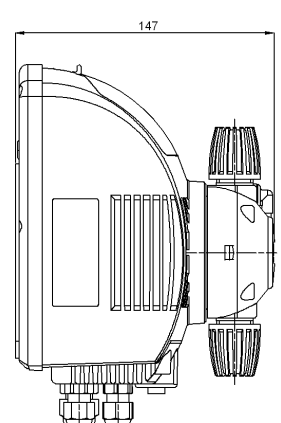
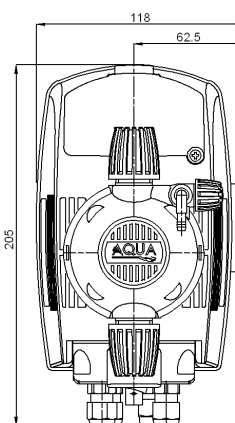
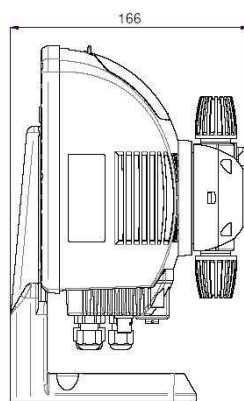
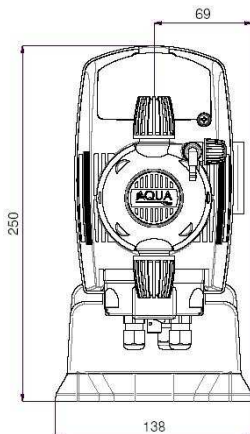
#### Series HC 997 packing, dimensions & weight

##### Base mounting version:

Dimension (mm): 138 x 250 x 166  
Packing weight : 2,5 kg  
Packing size (mm): 320 x 300 x 150  
Packing volume: 0,006 m3

##### Wall mounting version:

Dimension (mm): 118 x 205 x 147  
Packing weight : 2,5 kg  
Packing size (mm): 320 x 300 x 150  
Packing volume: 0,006 m3



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**Technical Data Sheet  
HC 997**