

# E-CL1-8-F3 Chlorine Dosing System

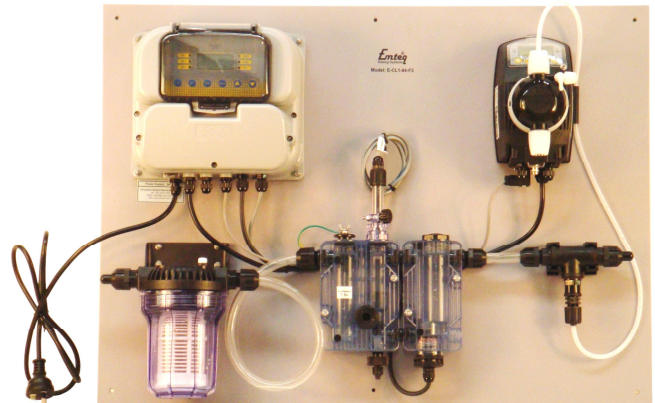
## With Free Chlorine Analyser & Dosing Pump



The AQUA Chlorine Dosing System is a fully engineered measurement and dosing control package for the chlorination of water in the range of 0 to 10ppm. The system uses the proven amperometric principle for measurement of free chlorine.

The AW-96 controller and the A-CG5 cell with integral flow regulator and sensor combine to provide a safe dosing system that is easy to operate and maintain.

- ◆ Amperometric cell with integral flow control.
- ◆ Option for pH Measurement or control.
- ◆ Option for auto de-gassing pump head.
- ◆ Option for 2<sup>nd</sup> pump for duty/stand-by or for pH control.
- ◆ Option for proportional control.
- ◆ Dosing rates from 0.1 l/hr to 10 l/hr.
- ◆ Pressures: 4 Bar (std), up to 12 Bar (Option).
- ◆ IP-65 Protection.
- ◆ Dosing interlock on loss of sample water flow.
- ◆ Includes pump accessories and mounting kit.
- ◆ Self Cleaning Cell with glass balls.
- ◆ Simple calibration routine.
- ◆ Integral flow regulation.
- ◆ Isolated 4-20mA output for recording.
- ◆ PVDF pump head.



### Specifications:

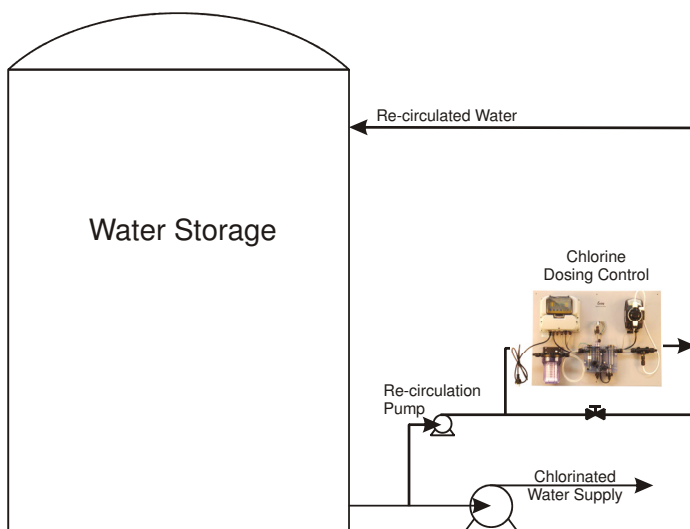
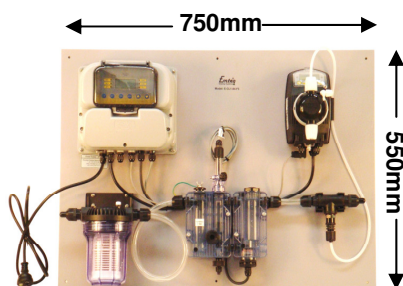
Measurement:	Amperometric (A-CG5)
Electrodes:	Platinum/Copper.
Range:	0-10 ppm
Display:	4 Digit LCD
Outputs:	2x 4-20mA
	3x Relay (5A, 250 Vac)
Power Supply:	240 Vac, 50 Hz
Dose Rate:	refer to pump data
Filter:	80 Micron.
Water Flow Rate:	40-50 l/hr
Connections:	1/2" BSP-F & 10x14 Tube
Control Method:	On/Off or Proportional.
Temperature:	5-60°C
Pressure:	5 Bar max

### Dose Rates:

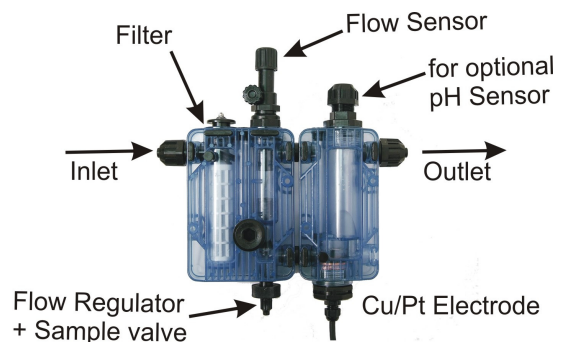
HC897-1 (l/hr - Bar)	2 - 8, 5 - 5, 7 - 2.
HC897-2 (l/hr - Bar)	7 - 4, 8 - 2, 10 - 0.
HC897-3 (l/hr - Bar)	3 - 12, 4 - 10, 5 - 8.
HC897-4 (l/hr - Bar)	10 - 4, 12 - 2, 14 - 0.

### Options:

- Proportional Dosing
- Electrolytic Cell Sensor
- 5" basket pre-filter
- Self Cleaning pre-filter



**Typical Installation**



**A-CG5 Amperometric Cell**

# E-CL1-8x-F4 Chlorine Dosing System

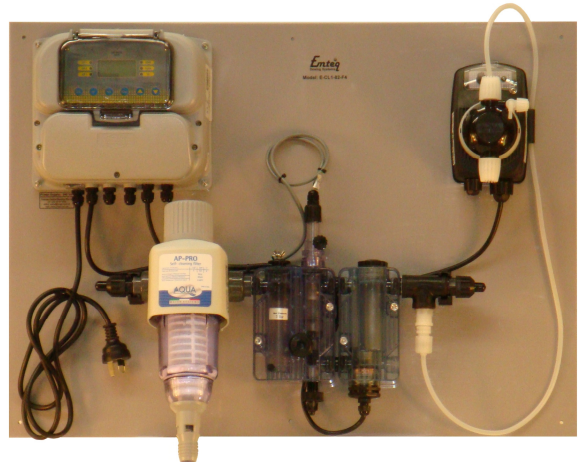
With Free Chlorine Analyser & Dosing Pump



The AQUA Chlorine Dosing System is a fully engineered measurement and dosing control package for the chlorination of water in the range of 0 to 10ppm. The system uses the proven amperometric principle for measurement of free chlorine.

The AW-96 controller and the A-CG5 cell with integral flow regulator and sensor combine to provide a safe dosing system that is easy to operate and maintain.

- ◆ Amperometric cell with integral flow control.
- ◆ Proportional control by PWM.
- ◆ Option for proportional control by 4-20mA.
- ◆ Option for pH Measurement or control.
- ◆ Option for auto de-gassing pump head.
- ◆ Option for 2<sup>nd</sup> pump for duty/stand-by or for pH control.
- ◆ Dosing rates from 0.1 l/hr to 10 l/hr.
- ◆ Pressures: 4 Bar (std), up to 12 Bar (Option).
- ◆ IP-65 Protection.
- ◆ Dosing interlock on loss of sample water flow.
- ◆ Includes pump accessories and mounting kit.
- ◆ Self Cleaning Cell with glass balls.
- ◆ Simple calibration routine.
- ◆ Integral flow regulation.
- ◆ Isolated 4-20mA output for recording.



### Specifications:

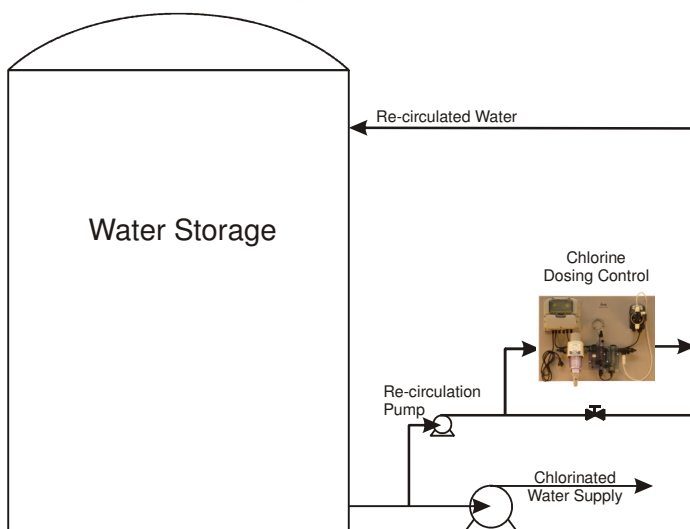
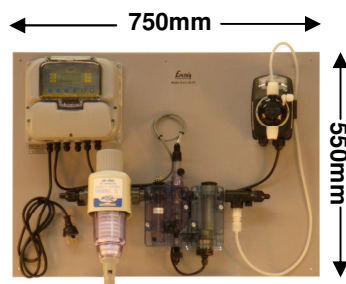
Measurement: Amperometric (A-CG5)  
 Electrodes: Platinum/Copper.  
 Range: 0-10 ppm  
 Display: 4 Digit LCD  
 Outputs: 2x 4-20mA  
 3x Relay (5A, 250 Vac)  
 Power Supply: 240 Vac, 50 Hz  
 Dose Rate: refer to pump data  
 Filter: 80 Micron.  
 Water Flow Rate: 40-50 l/hr  
 Connections: 1/2" BSP or 10x14 Tube  
 Control Method: On/Off or Proportional.  
 Temperature: 5-60°C  
 Pressure: 5 Bar max

### Dose Rates (x):

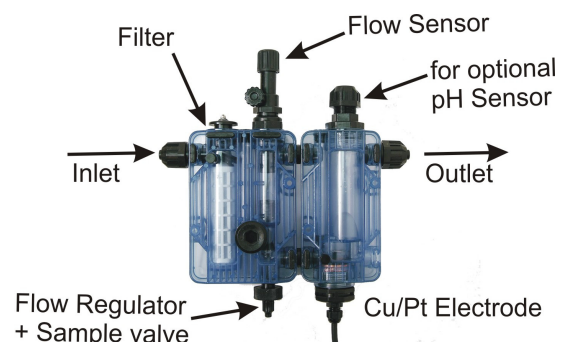
HC897-1 (l/hr - Bar)	2 - 8, 5 - 5, 7 - 2.
HC897-2 (l/hr - Bar)	7 - 4, 8 - 2, 10 - 0.
HC897-3 (l/hr - Bar)	3 - 12, 4 - 10, 5 - 8.
HC897-4 (l/hr - Bar)	10 - 4, 12 - 2, 14 - 0.

### Options:

Electrolytic Cell Sensor  
 pH and/or Conductivity (TDS) measurement  
 Tank Level Switches for Interlock or Alarms  
 Loss of flow alarm



**Typical Installation**



**A-CG5 Amperometric Cell**

# E-CL3-8-F1 Chlorine Dosing System

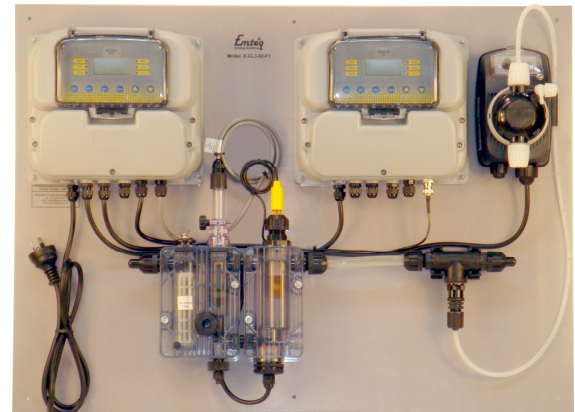
With Free Chlorine & pH Analyser & Dosing Pump



The AQUA Chlorine Dosing System is a fully engineered measurement and dosing control package for the chlorination of water in the range of 0 to 10ppm. The system uses the proven amperometric principle for measurement of free chlorine.

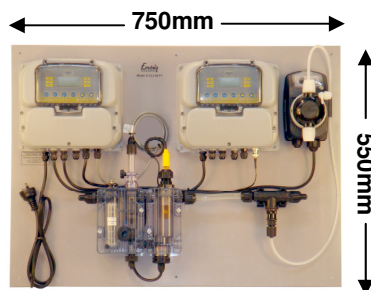
The AW-96 controller and the A-CG5 cell with integral flow regulator and sensor combine to provide a safe dosing system that is easy to operate and maintain.

- ◆ Amperometric cell with integral flow control.
- ◆ pH Measurement with option for control.
- ◆ Option for auto de-gassing pump head.
- ◆ Option for 2<sup>nd</sup> pump for duty/stand-by or for pH control.
- ◆ Option for proportional control.
- ◆ Dosing rates from 0.1 l/hr to 10 l/hr.
- ◆ Pressures: 4 Bar (std), up to 12 Bar (Option).
- ◆ IP-65 Protection.
- ◆ Dosing interlock on loss of sample water flow.
- ◆ Includes pump accessories and mounting kit.
- ◆ Self Cleaning Cell with glass balls.
- ◆ Simple calibration routine.
- ◆ Integral flow regulation.
- ◆ Isolated 4-20mA output for recording.
- ◆ PVDF pump head.



## Specifications:

Measurement:	Amperometric (A-CG5)
Electrodes:	Platinum/Copper.
Range:	0-10 ppm and 1-14pH
Display:	4 Digit LCD
Outputs:	2x 4-20mA 3x Relay (5A, 250 Vac)
Power Supply:	240 Vac, 50 Hz
Dose Rate:	refer to pump data
Filter:	80 Micron.
Water Flow Rate:	40-50 l/hr
Connections:	½" BSP-F & 10x14 Tube
Control Method:	On/Off or Proportional.
Temperature:	5-60°C

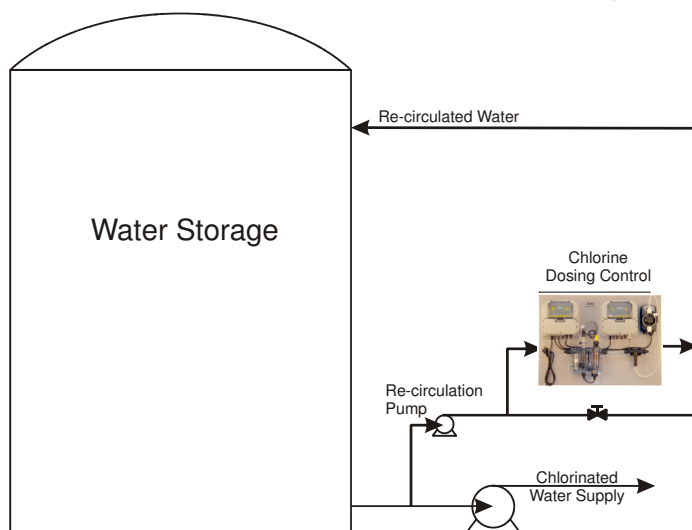


## Dose Rates:

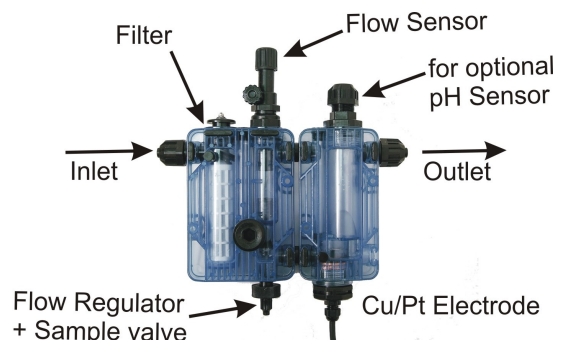
HC897-1 (l/hr - Bar)	2 - 8, 5 - 5, 7 - 2.
HC897-2 (l/hr - Bar)	7 - 4, 8 - 2, 10 - 0.
HC897-3 (l/hr - Bar)	3 - 12, 4 - 10, 5 - 8.
HC897-4 (l/hr - Bar)	10 - 4, 12 - 2, 14 - 0.

## Options:

- Proportional Dosing
- Electrolytic Cell Sensor
- 5" basket pre-filter
- Self Cleaning pre-filter



**Typical Installation**



**A-CG5 Amperometric Cell**

Process Control Services Pty Ltd, ABN 22 054 111 018

Ph: Brisbane (07) 3299 7881, Melbourne (03) 9859 0157, Sydney (02) 9319 1808  
 Fx : Brisbane (07) 3299 6134, Melbourne (03) 9005 2775, Sydney (02) 9319 2786,  
 eMail sales@pcspl.com.au, Web www.pcspl.com.au



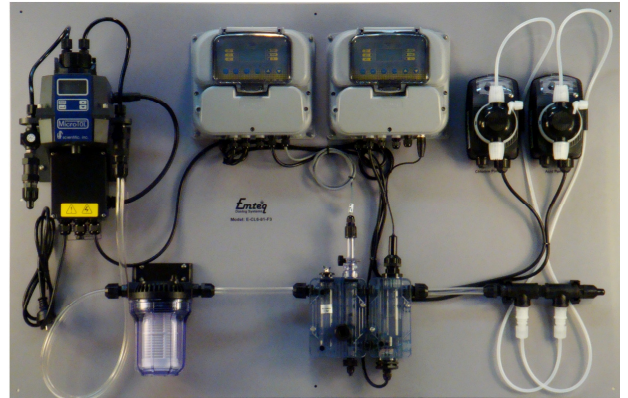
# E-CL6-8-F3 Chlorine Dosing System

## With pH Correction and Turbidity Measurement

The Emteq Chlorine Dosing Systems are fully engineered measurement and dosing control packages for the chlorination of water in the range of 0 to 10ppm. The system uses the proven amperometric principle for measurement of free chlorine.

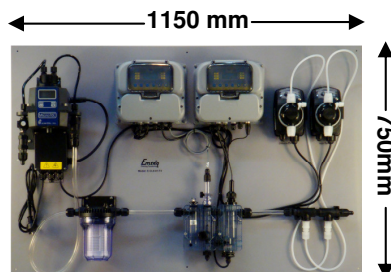
The AW-96 controller and the A-CG5 cell with integral flow regulator and sensor combine to provide a safe dosing controller that is easy to operate and maintain.

- ◆ Amperometric cell with integral flow control.
- ◆ pH Measurement for monitoring and control.
- ◆ Turbidity measurement for performance or compliance monitoring.
- ◆ Option for auto de-gassing pump head.
- ◆ Option for 2<sup>nd</sup> pump for pH control.
- ◆ Option for proportional control instead of On/Off.
- ◆ Dosing rates from 0.1 l/hr to 10 l/hr.
- ◆ Pressures: Atmospheric with options for raised pressures.
- ◆ IP-65 Protection.
- ◆ Dosing interlock on loss of sample water flow.
- ◆ Includes pump accessories and mounting kit.
- ◆ Self Cleaning Cell with glass balls.
- ◆ Simple calibration routine.
- ◆ Integral flow regulation.
- ◆ Option for self cleaning pre-filter



### Specifications:

Measurement:	Cl ppm, pH and Turbidity (NTU)
Ranges:	0-10 ppm, 1-14pH and 0-10(100) NTU
Displays:	3x 4 Digit LCD
Outputs:	3x 4-20mA + 8x Relays
Power Supply:	240 Vac, 50 Hz
Dose Rate:	refer to pump data
Filter:	80 Micron.
Water Flow Rate:	40-60 l/hr
Connections:	1/2" BSP-F & 10x14 Tube
Control Method:	On/Off or Proportional.
Temperature:	5-60°C

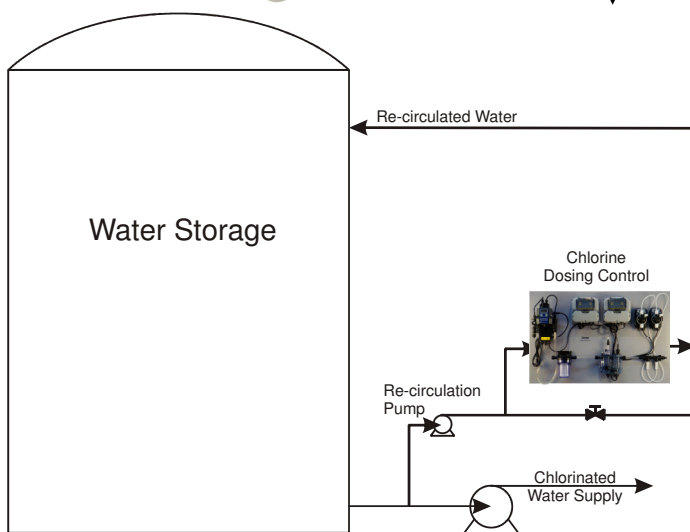


### Dose Rates:

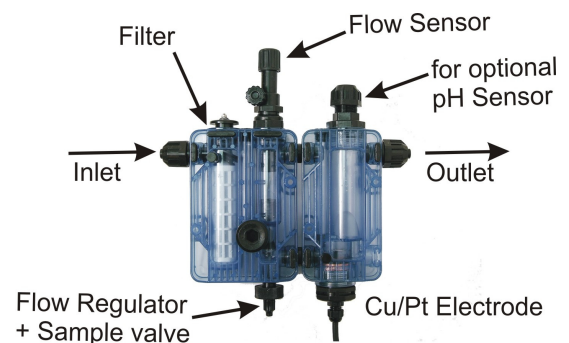
HC897-1 (l/hr - Bar)	2 - 8, 5 - 5, 7 - 2.
HC897-2 (l/hr - Bar)	7 - 4, 8 - 2, 10 - 0.
HC897-3 (l/hr - Bar)	3 - 12, 4 - 10, 5 - 8.
HC897-4 (l/hr - Bar)	10 - 4, 12 - 2, 14 - 0.

### Options:

- Proportional Dosing (HC997 instead of 897).
- Electrolytic Cell Sensor.
- 5" basket pre-filter.
- Self Cleaning pre-filter.
- Data logging and remote access.



**Typical Installation**



**A-CG5 Amperometric Cell**

**Process Control Services Pty Ltd, ABN 22 054 111 018**

Ph: Brisbane (07) 3299 7881, Melbourne (03) 9859 0157, Sydney (02) 9319 1808  
 Fx: Brisbane (07) 3299 6134, Melbourne (03) 9005 2775, Sydney (02) 9319 2786,  
 eMail sales@pcspl.com.au, Web www.pcspl.com.au

# E-CL52-9-F4G1D14 Chlorine Dosing System

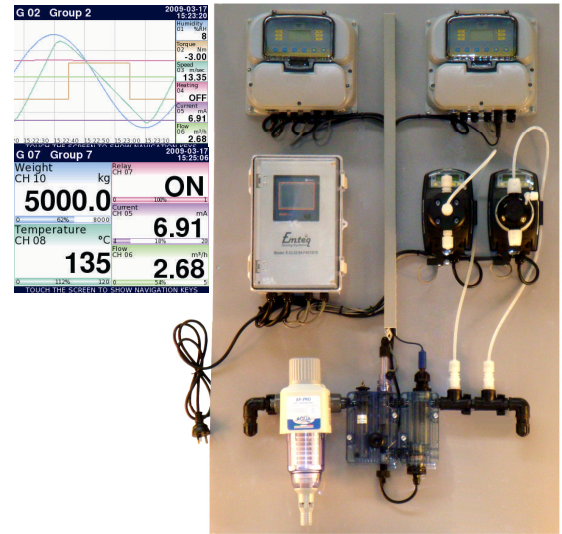
With pH Correction and Data Logging/Recorder



The Emteq Chlorine Dosing Systems are fully engineered measurement and dosing control packages for the chlorination of water in the range of 0 to 10ppm. The system uses the proven amperometric principle for measurement of free chlorine.

The AW-96 controller and the A-CG5 cell with integral flow regulator and sensor combine to provide a safe dosing controller that is easy to operate and maintain.

- ◆ Amperometric cell with integral flow control.
- ◆ pH Measurement for monitoring and control.
- ◆ With paperless chart and data logging of measurement and dose rate.
- ◆ With auto de-gassing pump head on Chlorine pump.
- ◆ With 2<sup>nd</sup> pump for pH control.
- ◆ With proportional control instead of On/Off.
- ◆ Dosing rates from 0.1 l/hr to 10 l/hr.
- ◆ Pressures: Atmospheric with options for raised pressures.
- ◆ IP-65 Protection.
- ◆ Dosing interlock on loss of sample water flow.
- ◆ Includes pump accessories and mounting kit.
- ◆ Self Cleaning Cell with glass balls.
- ◆ Simple calibration routine.
- ◆ Integral flow regulation.
- ◆ With self cleaning pre-filter.



### Specifications:

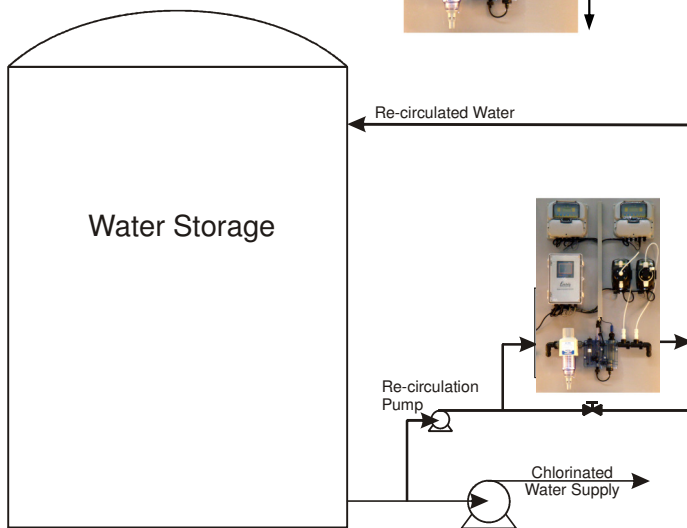
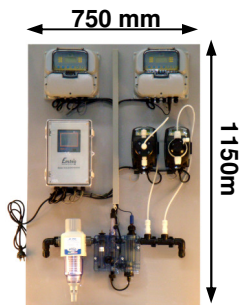
Measurements: Cl ppm, pH  
 Ranges: 0-10 ppm, 1-14pH  
 Outputs: 2+2x 4-20mA + 6x Relays  
 Power Supply: 240 Vac, 50 Hz  
 Dose Rate: refer to pump data  
 Filter: 80 Micron.  
 Water Flow Rate: 40-60 l/hr  
 Connections: 1/2" BSP-F & 10x14 Tube  
 Control Method: Proportional.  
 Temperature: 5-50°C

### Dose Rates:

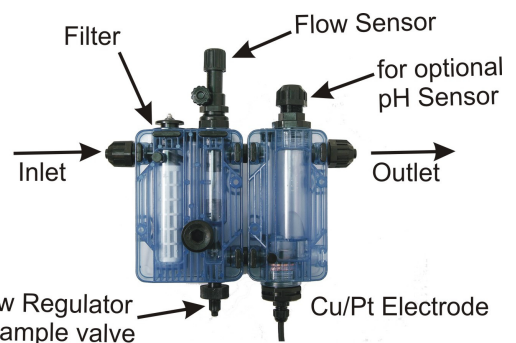
HC997A-1 (l/hr - Bar) 2 - 8, 5 - 5, 7 - 2.  
 HC997A-2 (l/hr - Bar) 7 - 4, 8 - 2, 10 - 0.  
 HC997A-3 (l/hr - Bar) 3 - 12, 4 - 10, 5 - 8.  
 HC997A-4 (l/hr - Bar) 10 - 4, 12 - 2, 14 - 0.

### Options:

Feed Forward Control (Flow Paced).  
 Electrolytic Cell Sensor.  
 Remote access to data.  
 SMS Alarms and status data.  
 Turbidity, DO and TDS Measurements.



**Typical Installation**



**A-CG5 Amperometric Cell**

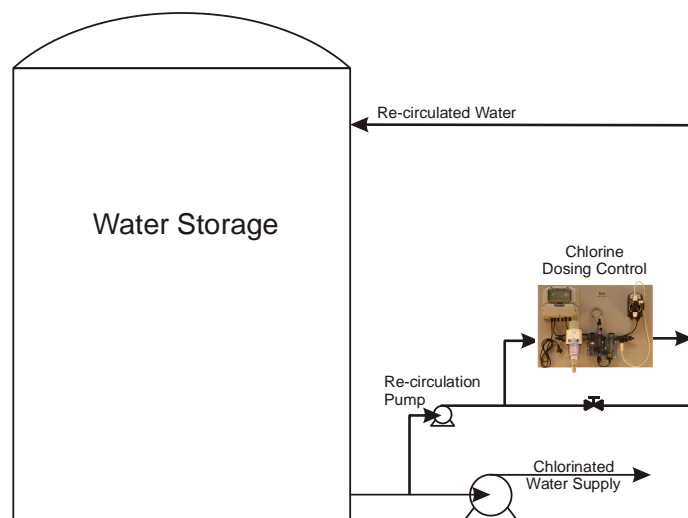
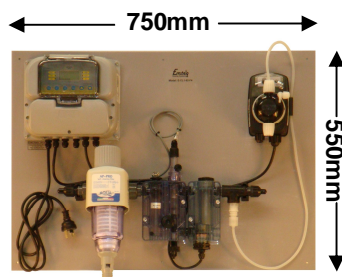
# E-CL1-8x-F4 Chlorine Dosing System

With Free Chlorine Analyser & Dosing Pump

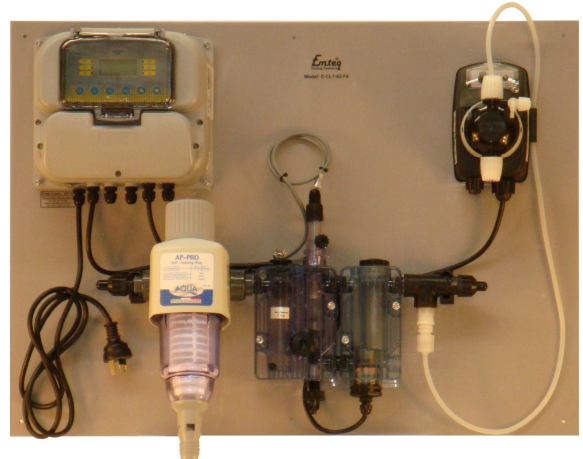
The AQUA Chlorine Dosing System is a fully engineered measurement and dosing control package for the chlorination of water in the range of 0 to 10ppm. The system uses the proven amperometric principle for measurement of free chlorine.

The AW-96 controller and the A-CG5 cell with integral flow regulator and sensor combine to provide a safe dosing system that is easy to operate and maintain.

- ◆ Amperometric cell with integral flow control.
- ◆ Proportional control by PWM.
- ◆ Option for proportional control by 4-20mA.
- ◆ Option for auto de-gassing pump head.
- ◆ Option for 2<sup>nd</sup> pump for duty/stand-by or for pH control.
- ◆ Dosing rates from 0.1 l/hr to 10 l/hr.
- ◆ Dosing Pump Pressures: 4 Bar (std), up to 12 Bar (Option).
- ◆ IP-65 Protection.
- ◆ Dosing interlock on loss of sample water flow.
- ◆ Includes pump accessories and mounting kit.
- ◆ Self Cleaning Cell with glass balls.
- ◆ Simple calibration routine.
- ◆ Integral flow regulation.
- ◆ Isolated 4-20mA output for recording.
- ◆ PVDF pump head.
- ◆ PP pump head with option for PVC.



**Typical Installation**



## **Specifications:**

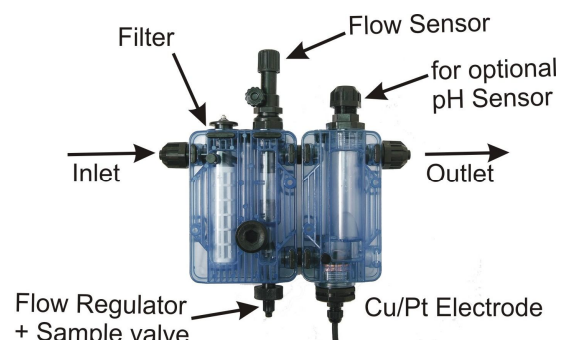
Measurement:	Amperometric (A-CG5)
Electrodes:	Platinum/Copper
Range:	0-10 ppm
Display:	4 Digit LCD
Outputs:	2x 4-20mA 3x Relay (5A, 250 Vac)
Power Supply:	240 Vac, 50 Hz
Dose Rate:	refer to pump data
Filter:	80 Micron.
Water Flow Rate:	40-50 l/hr
Connections:	½" BSP or 10x14 Tube
Control Method:	On/Off or Proportional
Temperature:	5-60°C
Pressure:	3 Bar or 1 Bar with pH measurement. (High pressure on request)

## **Dose Rates (x):**

HC897-1 (l/hr - Bar)	2 - 8, 5 - 5, 7 - 2.
HC897-2 (l/hr - Bar)	7 - 4, 8 - 2, 10 - 0.
HC897-3 (l/hr - Bar)	3 - 12, 4 - 10, 5 - 8.
HC897-4 (l/hr - Bar)	10 - 4, 12 - 2, 14 - 0.

## **Options:**

- Electrolytic Cell Sensor
- Conductivity (TDS) measurement
- pH measurement
- Tank Level Switches for Interlock or Alarms



**A-CG5 Amperometric Cell**



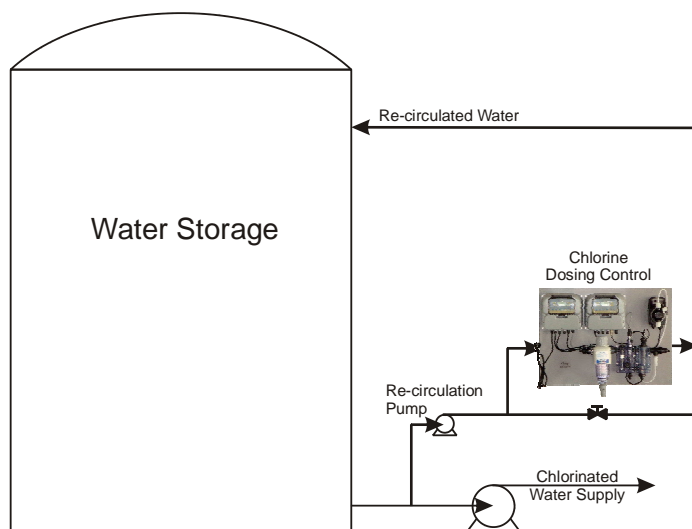
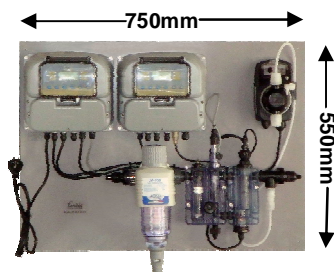
# E-CL3-8-F4 Chlorine Dosing System

With Free Chlorine Analyser & Dosing Pump

The AQUA Chlorine Dosing System is a fully engineered measurement and dosing control package for the chlorination of water in the range of 0 to 10ppm. The system uses the proven amperometric principle for measurement of free chlorine.

The AW-96 controller and the A-CG5 cell with integral flow regulator and sensor combine to provide a safe dosing system that is easy to operate and maintain.

- ◆ Amperometric cell with integral flow control.
- ◆ With pH Measurement.
- ◆ Option for auto de-gassing pump head.
- ◆ Option for 2<sup>nd</sup> pump for duty/stand-by or for pH control.
- ◆ Proportional control with PWM.
- ◆ Dosing rates from 0.1 l/hr to 10 l/hr.
- ◆ Pressures: 4 Bar (std), up to 12 Bar (Option).
- ◆ IP-65 Protection.
- ◆ Dosing interlock on loss of sample water flow.
- ◆ Includes pump accessories and mounting kit.
- ◆ Self Cleaning Cell with glass balls.
- ◆ Simple calibration routine.
- ◆ Integral flow regulation.
- ◆ Isolated 4-20mA output for recording.
- ◆ PVDF pump head.



**Typical Installation**



## **Specifications:**

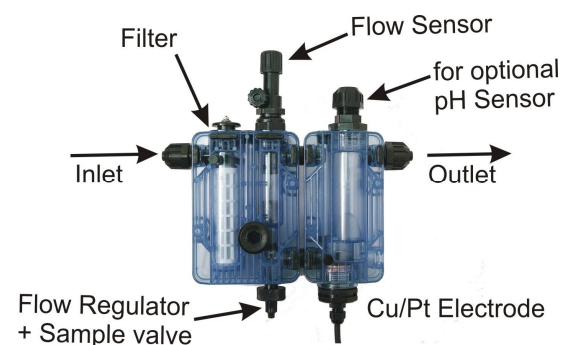
Measurement:	Amperometric (A-CG5)
Electrodes:	Platinum/Copper.
Range:	0-10 ppm
Display:	4 Digit LCD
Outputs:	2x 4-20mA 3x Relay (5A, 250 Vac)
Power Supply:	240 Vac, 50 Hz
Dose Rate:	refer to pump data
Filter:	80 Micron.
Water Flow Rate:	40-50 l/hr
Connections:	½" BSP-F & 10x14 Tube
Control Method:	On/Off or Proportional.
Temperature:	5-60°C
Pressure:	1 Bar (higher pressure on request)

## **Dose Rates:**

HC897-1 (l/hr - Bar)	2 - 8, 5 - 5, 7 - 2.
HC897-2 (l/hr - Bar)	7 - 4, 8 - 2, 10 - 0.
HC897-3 (l/hr - Bar)	3 - 12, 4 - 10, 5 - 8.
HC897-4 (l/hr - Bar)	10 - 4, 12 - 2, 14 - 0.

## **Options:**

- Proportional Dosing from 4-20 mA
- Electrolytic Cell Sensor
- Conductivity (TDS) measurement
- Tank Level Switches for Interlock or Alarms
- Loss of flow alarm



**A-CG5 Amperometric Cell**