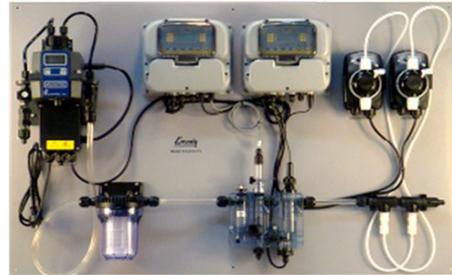


Chlorine Dosing Panels



Chlorine Dosing and pH Correction with Data Logging



Chlorine Dosing and pH Correction with Turbidity Monitoring



Chlorine Dioxide Dosing, pH Neutralisation Turbidity Monitoring with Recording and Data Logging



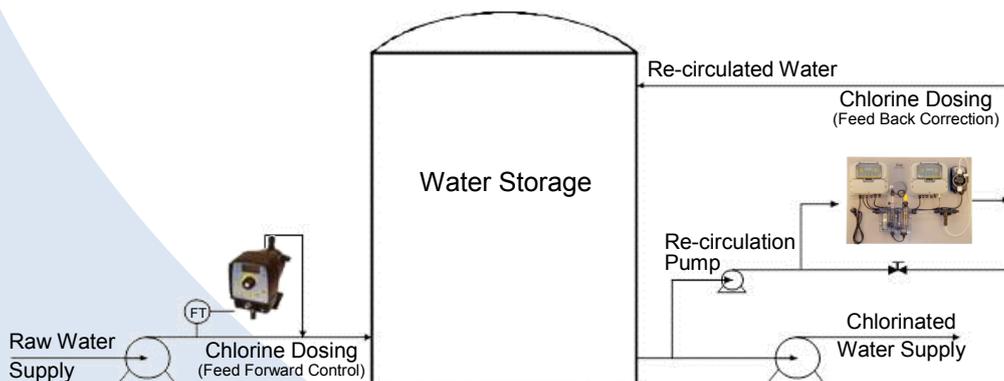
Chlorine Dosing and pH Monitoring



Chlorine Dosing and pH with Self Cleaning Pre-Filter



Chlorine Dosing with Self Cleaning Pre-Filter



Typical Installation



- ACG5** - With Cu/Pt cell for amperometric measurement
- With flow sensor for interlock needle valve for flow adjustment
 - Non-return flow function
 - 80 micron washable filter
 - SS earth electrode
 - Combination connection for 10/14 tube & with 1/2" BSP-M
 - Capability to accept pH probe
 - Capability to accept 1/2" CD or temperature probe



- ACG6** - With Cu/Pt cell for amperometric measurement
- As for ACG5 but with additional module for additional probe



Electrolytic Chlorine Sensor

- With membrane & electrolyte.
- Ranges: 0-2 ppm chlorine
- 0-5 ppm chlorine
- 0-10 ppm chlorine

Note: Not compatible with AW96 electronics.
Requires SRP and/or CMC Electronics.



Electrolytic Chlorine Dioxide Sensor

- With membrane & electrolyte.
- Ranges: 0-2 ppm chlorine dioxide
- 0-10 ppm chlorine

- Note: Not compatible with AW96 electronics.
Requires SRP and/or CMC electronics.



CLX OnLine Residual Chlorine Analyzer

The CLX comes with 4-20 mA & RS-485 Modbus, Backlight display, inline pressure regulator, power supply, replacement tubing / cuvette kit (one year supply) & owners manual. Reagents purchased separately.



Chlorine Pocket Photometer - Instrument

Each unit includes: 4 measuring cuvettes w/caps, 4 AAA batteries, rugged carrying case & instructions.



12mm Epoxy Probes

- pH, ORP + conductivity
- Single junction
- Low cost, low pressure
- Easy install & removal through compression fitting
- Without temperature compensation



Barben BAT 1 & 2

- Long life threaded probe
- pH only
- With temperature compensation
- Immersion or in-line installation



Barben 7 Long Life Probe with Nut Lock Adaptor

- Quick & easy remove & install for checking & calibration
- pH or ORP



Barben Platinum Bullet Sensor

- Solid platinum billet non-glass electrode
- Flat tip eliminates breakage, reduces build up and simplifies cleaning.
- Longer lasting, minimal maintenance and customer convenience
- Patented ultra-stable Axial Ion Path reference cell.
- Sulfide, oxidizer, and poison proof



FLS SS Conductivity Electrodes

Model No.	K Factor	Range	TC is with
C100.01 (TC)	10	1 - 1,000µs	PT100 for
C100.02 (TC)	5	5 - 5,000µs	Temperature
C300.1 (TC)	1	10 - 10,000µs	Compensation



FLS Graphite Conductivity Electrodes

Model No.	K Factor	Range	TC is with
C150.01 (TC)	100	0.02 - 2,000µs	PT100 for
C150.1 (TC)	10	0.2 - 10,000µs	Temperature
C200.01 (TC)	100	0.2 - 2,000µs	Compensation
C200.1 (TC)	1000	0.2 - 10,000µs	
C200.10 (TC)	0.1	2 - 200,000µs	



FLS Inductive Conductivity Electrodes

2 Wire, 4-20mA Sensor

Model No.	Range
C3.30.01	0-10 mS
C3.30.02	0-100mS
C3.30.03	0-1,000mS



AQUA Conductivity Probes

Model	K Factor	Range
PACD	K1	0-20,000 µS
PACD	K5	0-200/0-2,000 µS
PACCD	K1	0-20,000 µS
PACCD	K5	0-200/0-2,000 µS

Turbidity Measurement



All MicroTOL Models include:

Backlight display, 4-20 mA, RS-485/Modbus, inline pressure regulator, desiccant, universal power supply (100-240VAC), & operator's manual.

MicroTOL 2 also includes spare measuring cuvette with light shield. Calibration kits must be ordered separately. *Pro Cal* custom NTU values available.

Online Turbidimeter

Model MicroTOL3 (code 20055)

- Designed for filtered water, raw water, waste water final effluent and industrial applications.
- Nephelometry measurement principal.
- 0 – 100 NTU range.
- Fast response and easy calibration.
- Accurate, reliable and cost effective.
- Certified to CE, UL, CSA (ETL, ETLc).
- With ultrasonic cleaning

MicroTOL – Laboratory Turbidity

Micro100 – Instruments.

Includes a complete set of calibration standards (0.02, 10 & 1000 NTU), two measuring cuvettes with light shield cap & operator's manual.

- Micro 100 WL Laboratory Turbidimeter, 0-1000 NTU, 120V 60 Hz.
- Micro 100 WL Laboratory Turbidimeter, 0-1000 NTU, Universal Power 100 - 240V 50-60 Hz.
- Micro 100 IR Laboratory Turbidimeter, 0-1000 NTU, 100-240V Universal Power 50-60 Hz.

Micro1000 – Instruments.

Includes a complete set of calibration standards (.02, 10, 100 & 1750 NTU), two measuring cuvettes with light shield caps, operator's manual & plug-in power adaptor.

- Micro 1000 WL Laboratory Turbidimeter, 0-10,000 NTU, 100 - 240V Universal Power 50-60 Hz.
- Micro 1000 IR Laboratory Turbidimeter, 0-10,000 NTU, 100 - 240V Universal Power 50-60 Hz.

MicroTOL – Field Turbidity

MicroTPW / TPI – Instruments.

Includes carrying case, one set of calibration standards, indexing rings, 4AAA alkaline batteries operator's manual & measuring cuvettes with light shield caps.

- MicroTPW Portable Turbidimeter (White Light) 0-1,100 NTU
- MicroTPI Portable Turbidimeter (IR) 0-1,100 NTU

MicroTOL – Field Turbidity

DRT -15CE - Instruments.

Includes carrying case, one set of calibration standards, indexing rings, 4AAA alkaline batteries operator's manual & measuring cuvettes with light shield caps.

- MicroTPW Portable Turbidimeter (White Light) 0-1,100 NTU
- MicroTPI Portable Turbidimeter (IR) 0-1,100 NTU

Electronics, Data Recorders & Displays



AW96 — Chlorine, pH, ORP & Conductivity

- 2 x 4-20mA - Recording & Proportional Control
- 3 x relay—2 x alarm & 1 x pulse width modulation
- Sample flow interlock for AW96CL
- Manual temperature compensation only
- 240 Vac



ADIN20 — PH, CD, RX, CL

- 1 x 4-20mA output (fixed range)
- 2 x relay, alarm or On/Off control
- Manual temperature compensation only
- 240 Vac



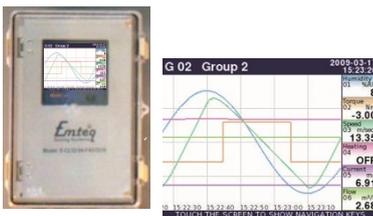
AR96— Chlorine, pH, ORP & Conductivity

As for AW96, but panel mount.



FLS ChemX — pH/ORP Conductivity Controller

- 1 x 4-20mA—Recording
- 240 Vac, or 24 Vdc/ac
- 2 x Relay or OC, Configurable
- IP 67
- Manual or auto temperature compensation (PT100/PT1000)
 - Alarm
 - Control On/Off, Pulse Width Modulation or Frequency
 - Auto calibration routine
 - Simulating Mode
 - Direct reading of raw probe response for diagnostic purpose & probe condition



Simex CMC-99 MultiCon (inputs)

- Traditional graphs & status displays
- Data logging
- Installed in IP65 enclosure with clear lid
- Option control & alarm function
- Optional remote access via Modbus or internet
- 240 Vac or 24 Vdc



Simex SRP

Controller with calibration routine for 2 wire, 4-20mA instruments,

- with scaleable 4-20mA output
- -24 Vdc or 240 Vac
- 2 x relay outputs for control or alarm functions.



FineTek PB Bar Graph Controller & Display

- Single or dual channel
- With 4, 6 or 8 relays for control or alarm function
- 24 Vdc or 240 Vac



HC897 - ON/OFF Control

- Adjustable stroke rate
- 0-20% 0-100%
- PVDF head
- Input for interlock
- 4 Sizes (l/hr-Bar) :
 1. 2 - 8, 5 - 5, 7 - 2
 2. 7 - 4, 8 - 2, 10 - 0
 3. 3 - 12, 4 - 10, 5 - 8
 4. 10 - 4, 12 - 2, 14 - 0



HC997 - Proportional Dosing

- PVDF head, viton seals
- Pulse input
- 4-20 mA timer
- 7 Day timer
- 4 Sizes (l/hr-Bar):
 - 1A/1B. 2 - 8, 5 - 5, 7 - 2
 - 2A/2B. 7 - 4, 8 - 2, 10 - 0
 - 3A/3B. 3 - 12, 4 - 10, 5 - 8
 - 4A/4B. 10 - 4, 12 - 2, 14 - 0



HC201 - Proportional Dosing

- PP head, viton seals
- Pulse input & 4-20 mA input
- 7 day timer
- Settable in ppm
- Stroke length & frequency adjustment
- Input for interlock
- Size (l/hr - bar)



HC200PH/RX - Proportional Dosing

- pH & ORP sensor input
- Stroke length & frequency adjustment
- Input for interlock

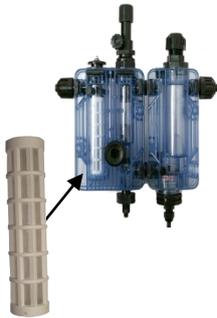
Options

De-gassing head (Auto Bleed Valve) in PVC

Dutral/EPDM valves

PVC head

DIN plug connection for power lead (HC200 series only)



F1: Inline Filter in ACG5

- 80 Micron washable
- for clean applications as safeguard function only



F3: A-FV3 - 80µm basket filter

- Washable filter, 5"
- Combination tube & thread connector for 10/14 tube on 1/2" BSP thread
- Transparent housing



F4: AP Pro - In line self cleaning 90µm filter

- Manual action flushes & brushes filter
- Cleans filter online without disrupting service
- Transparent housing
- Brass union style connections
- Configurable orientation for vertical or horizontal pipe

Other Sensors & Fittings



Water Meter

- With pulse output for connection to dosing pumps
- 4 impulses/litre
 - sizes 1/2", 3/4", 1", 1 1/4", 1 1/2" & 2"



Blind Insertion MAG Flow Meter



Insertion MAG Flow Meter



Insertion Paddle Wheel Flow Sensors

- 4-20 mA signal or frequency output



Temperature Probe

- PT100 temperature probes
- 1/2" connection
- Range 0-100°C
- PVC or PTFE body



Tee Fittings

- PVC, CPVC, PP and PVDF
- 1/2" to 1.1/2"
- Solvent and thread connections
- Range 0-100°C
- PVC or PTFE body



Saddle Clamp

- CPVC
- 2" to 12"



A-PSL Installation Fitting for 12mm Probe



A-PSV Off-line Electrode for Two Electrodes



Twin Injection Point with Tube Connection

General Accessories



DB-3 Flow Switches

- Brass with SS paddle
- Sizes 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"



pH Calibration Starter Kits

- 75 ml bottle of pH 7 buffer
- 75 ml bottle of pH 4 buffer
- 75 ml empty bottle for probe wash



ORP Calibration Starter Kits

- 75 ml bottle of 465 mv solution



Chlorine Starter Test Kit

- Colour chart
- Sample vial
- Pack of 10 tablets



Level Probes for Pump Interlock

- With DIN plug, tinned connections or terminal housing
- Option for clip for mounting on foot filter
- Option for top mounting or tank



PE Tanks with Large (150mm) Cap for Easy Filling/Access

- 3 sizes: 100, 220, 330L.
- suitable to accept stirrers/mixers
- suitable to accept level switches & ports for suction/ bleed tubing
- suitable to accept HC200 mounted on top



Mixers/Stirrers, Motor Driven

- Fast & Slow
- Single phase & 3 phase
- SS & PVC



Calibration Cylinders

- Sizes: 100 ml up to 5 l/hr
- 250 ml up to 15 l/hr
- 500 ml up to 30 l/hr
- 1,000 ml up to 60 l/hr
- 2,000 ml up to 120 l/hr
- 4,000 ml up to 250 l/hr



Calibration Cylinder Manifold on Base Plate

- Options:
 - 10 x 14mm tube connections
 - 4 x 6mm tube connection
 - 1/2" BSP - F connections



Static Mixers for Blending Injected Chemicals into Pipes

- Sizes 1", 1 1/2", 2", 2 1/2" & 3".
- Injection port 1/2" thread



Enclosures

- Plastic enclosures as junction box for user termination to alarm & signal outputs
- Plastic enclosure for panel mounted instruments
- Powder coated steel enclosures for complete panels

Chlorine Accessories



Turbidity Calibration Kit

Pro Cal model 39953

0.02, 10 & 100 NTU

Spares

- Desiccant pouch, code 21555R
- Pressure reducing valve, code 243065
- Tubing kit, code 21062



PPD-2 DPD Powder Pop® Dispenser

The HF PPD-2 DPD Dispenser is compatible with HF & many non-HF scientific photometers.



DPD Powder Pops®



Chlorine Micro Check Test Strips (bottle of 50 strips)



pH Buffers



ProCal gallon
For Hach® 1720

Pro Cal Primary Turbidity Standards (for Hach® instruments)

ProCal primary turbidity standards are pre-diluted, factory certified*, & ready for use with Hach® process, laboratory & field instruments as well as the HF scientific product line & other manufacturer's instrumentation. The ProCal standard formulation utilizes a preservative that enhances stability, yet it is safe & biodegrades rapidly. Custom NTU values available.

Available pre-diluted standard: 0.0, 1.0, 10, 20, 100, 200, 800, 1000, & 4000.



ProCal litre
For Hach® 1720

Standards certified * for use with the Hach® Company's turbidimeters.

Hach® 1720 c/d/e Process Turbidimeter
Hach® 2100N Laboratory Turbidimeter
Hach® 2100Q Portable Field Turbidimeter



Standards certified * for use with the Hach® Company's 2100AN turbidimeter.

Hach® 2100AN Laboratory Turbidimeter



Standards certified * for use with the Hach® Company's 2100P turbidimeter.

Hach® 2100P Portable Field Turbidimeter

About PCS



For more than twenty years Process Control Services (PCS) have provided Measurement & Dosing equipment to an extensive range of industries, varying in size, throughout Australasia.

Continuous growth over the past twenty years driven predominately through word of mouth referrals has led to PCS achieving an outstanding market profile. With offices in Sydney, Brisbane and Melbourne combined with a network of over twenty regional sales outlets PCS is able to deliver top quality international brands at very competitive prices, backed by an outstanding level of customer service throughout Australia and New Zealand.

Process Control Services (PCS) are renowned for their industry expertise together with their extensive choice and range of equipment. Their highly trained engineers are able to offer extraordinary levels of expert service and advice through combining their extensive product knowledge with industry experience that extends in many cases beyond the life of the company.

We supply Flow, Level, Pressure, Temperature and Specialty Measurement Equipment and Chemical Dosing Equipment to the following industries:

- Water and Waste Water Treatment
- Mining and Mineral Processing
- Chemical and Petrochemical
- Sugar, Food and Beverage

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National: John Lane	jlane@pcspl.com.au
Head Office & Warehouse: 4 / 198-222 Young St, Waterloo, NSW, 2017	

E-CL1-8-F3 Chlorine Dosing System

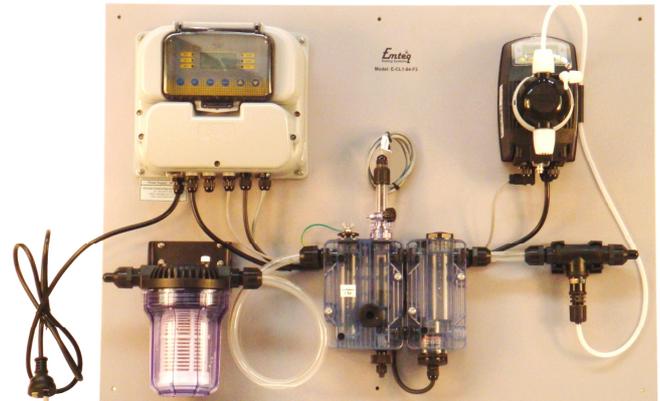
With Free Chlorine Analyser & Dosing Pump



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 2nd 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:

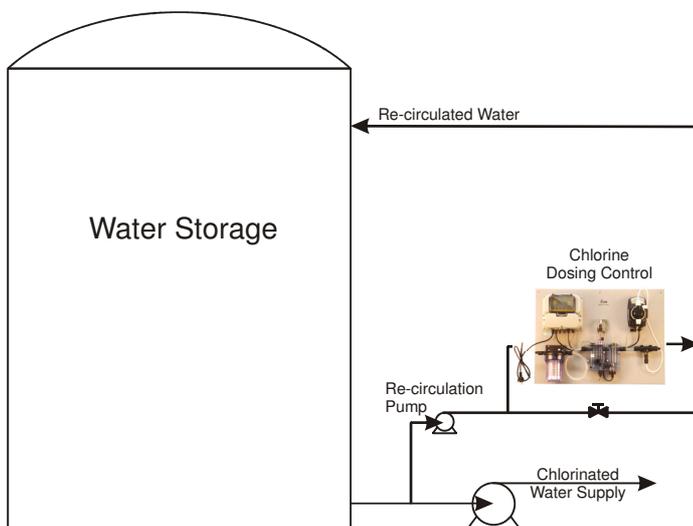
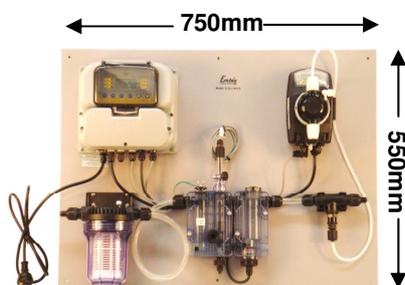
Measurement: Amperometric (A-CG5)
 Electrodes: Platinum/Copper.
 Range: 0-10 ppm
 Display: 4 Digit LCD
 Outputs: 2x 4-20mA
 3x Relay (5A, 250 Vac)
 Power Supply: 240 Vac, 50 Hz
 Dose Rate: refer to pump data
 Filter: 80 Micron.
 Water Flow Rate: 40-50 l/hr
 Connections: 1/2" BSP-F & 10x14 Tube
 Control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

Dose Rates:

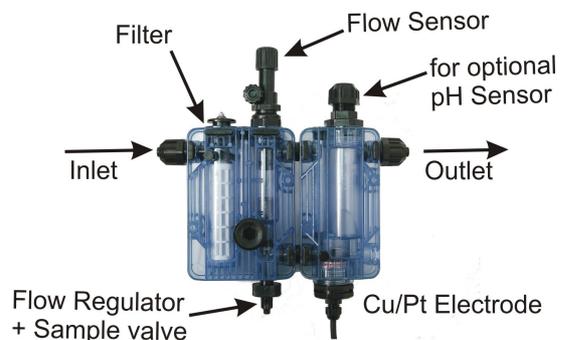
HC897-1 (l/hr - Bar) 2 - 8, 5 - 5, 7 - 2.
 HC897-2 (l/hr - Bar) 7 - 4, 8 - 2, 10 - 0.
 HC897-3 (l/hr - Bar) 3 - 12, 4 - 10, 5 - 8.
 HC897-4 (l/hr - Bar) 10 - 4, 12 - 2, 14 - 0.

Options:

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



Typical Installation



A-CG5 Amperometric Cell

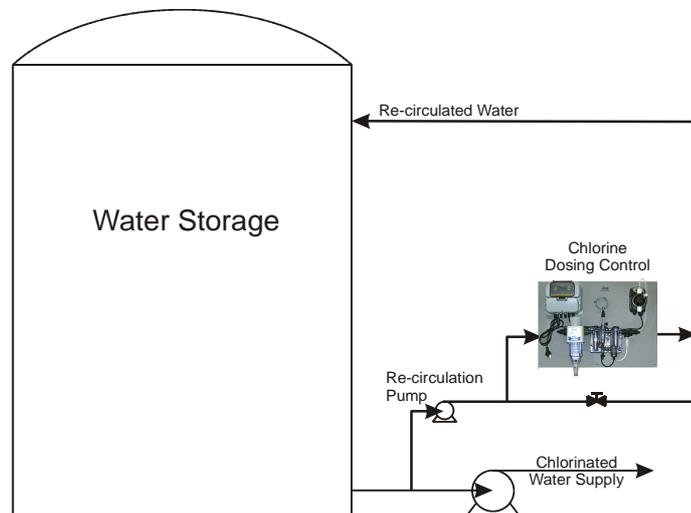
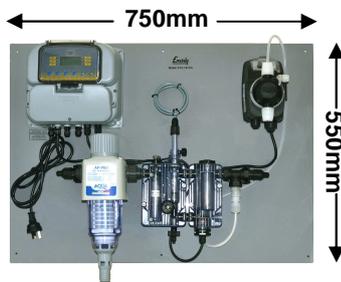
E-CL1-8x-F4 Chlorine Dosing System

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 auto de-gassing pump head.
- ◆ Option for 2nd 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:

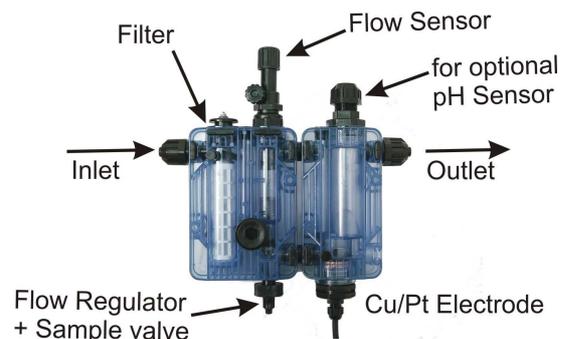
Measurement:	Amperometric (A-CG5)
Electrodes:	Platinum/Copper
Range:	0-10 ppm
Display:	4 Digit LCD
Outputs:	2x 4-20mA 3x Relay (5A, 250 Vac)
Power Supply:	240 Vac, 50 Hz
Dose Rate:	refer to pump data
Filter:	80 Micron.
Water Flow Rate:	40-50 l/hr
Connections:	½" BSP or 10x14 Tube
Control Method:	On/Off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

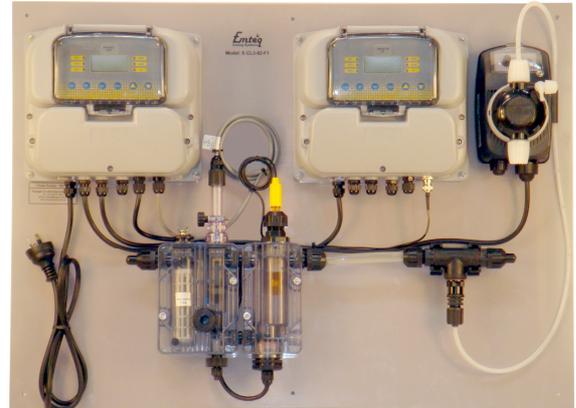
E-CL3-8-F1 Chlorine Dosing System

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 2nd 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:

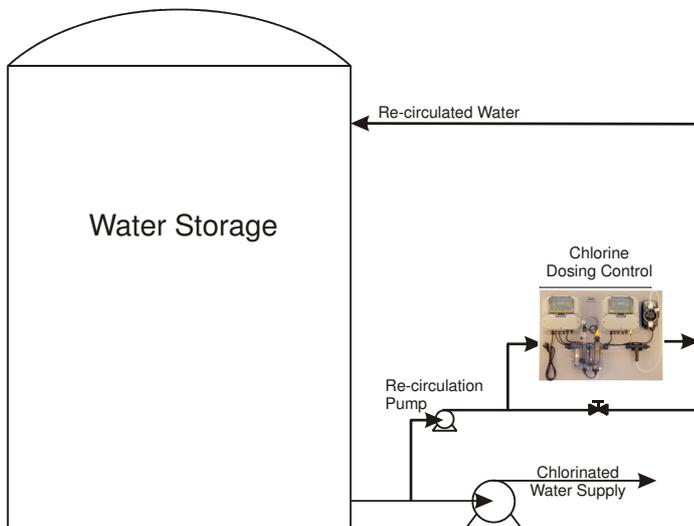
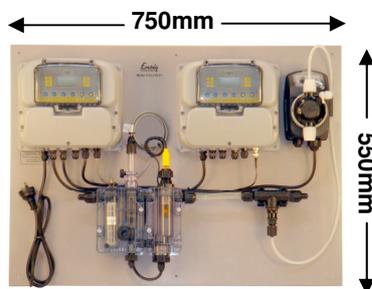
Measurement: Amperometric (A-CG5)
 Electrodes: Platinum/Copper.
 Range: 0-10 ppm and 1-14pH
 Display: 4 Digit LCD
 Outputs: 2x 4-20mA
 3x Relay (5A, 250 Vac)
 Power Supply: 240 Vac, 50 Hz
 Dose Rate: refer to pump data
 Filter: 80 Micron.
 Water Flow Rate: 40-50 l/hr
 Connections: ½" BSP-F & 10x14 Tube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

Dose Rates:

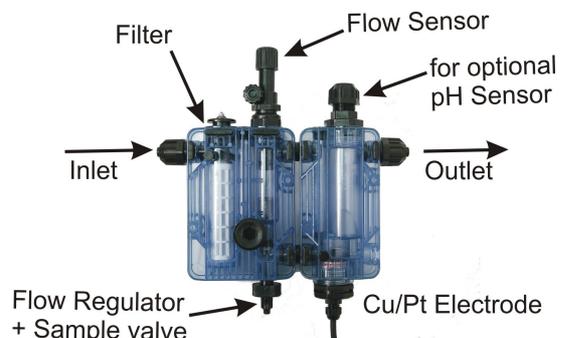
HC897-1 (l/hr - Bar) 2 - 8, 5 - 5, 7 - 2.
 HC897-2 (l/hr - Bar) 7 - 4, 8 - 2, 10 - 0.
 HC897-3 (l/hr - Bar) 3 - 12, 4 - 10, 5 - 8.
 HC897-4 (l/hr - Bar) 10 - 4, 12 - 2, 14 - 0.

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

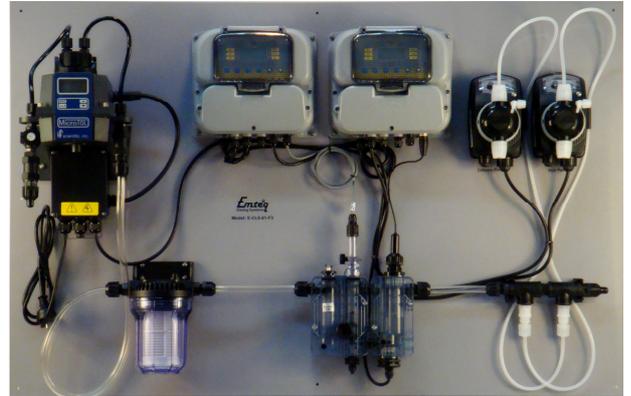
E-CL6-8-F3 Chlorine Dosing System

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.

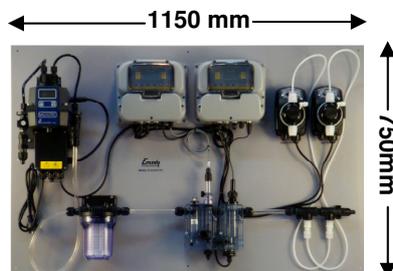
The AW-96 controller and the A-CG5 cell with integral flow regulator and sensor combine to provide a safe dosing controller that is easy to operate and maintain.

- ◆ 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 2nd 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

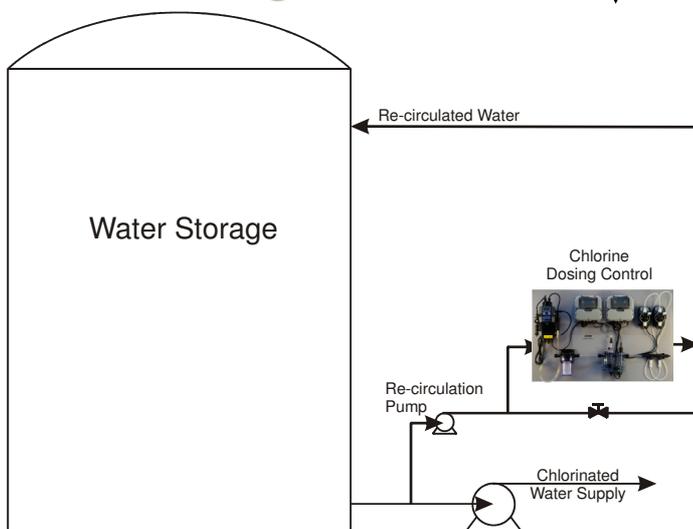


Dose Rates:

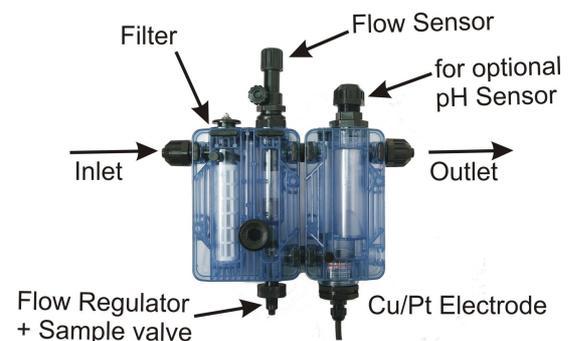
HC897-1 (l/hr - Bar)	2 - 8, 5 - 5, 7 - 2.
HC897-2 (l/hr - Bar)	7 - 4, 8 - 2, 10 - 0.
HC897-3 (l/hr - Bar)	3 - 12, 4 - 10, 5 - 8.
HC897-4 (l/hr - Bar)	10 - 4, 12 - 2, 14 - 0.

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

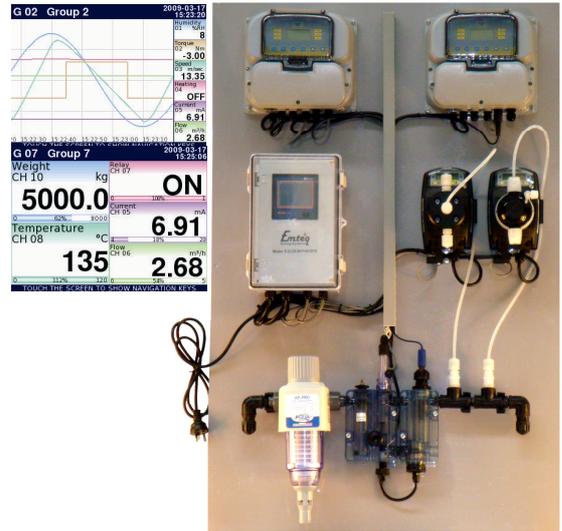
With pH Correction and Data Logging/Recorder



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 2nd 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:

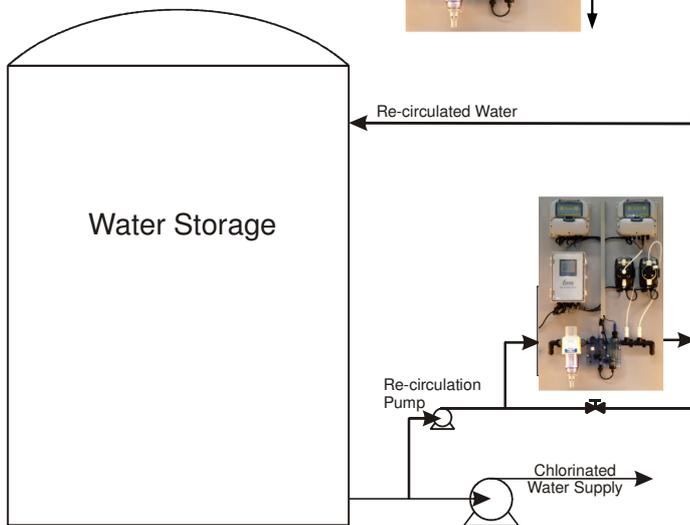
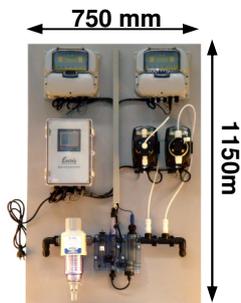
Measurements: Cl ppm, pH
 Ranges: 0-10 ppm, 1-14pH
 Outputs: 2+2x 4-20mA + 6x Relays
 Power Supply: 240 Vac, 50 Hz
 Dose Rate: refer to pump data
 Filter: 80 Micron.
 Water Flow Rate: 40-60 l/hr
 Connections: 1/2" BSP-F & 10x14 Tube
 Control Method: Proportional.
 Temperature: 5-50°C

Dose Rates:

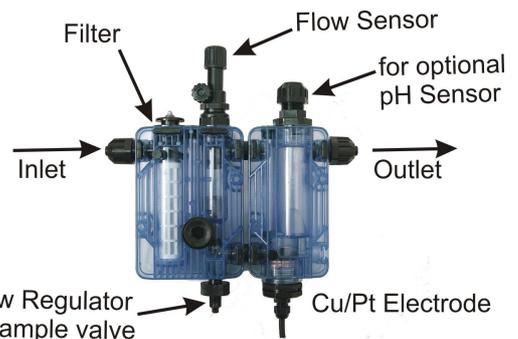
HC997A-1 (l/hr - Bar) 2 - 8, 5 - 5, 7 - 2.
 HC997A-2 (l/hr - Bar) 7 - 4, 8 - 2, 10 - 0.
 HC997A-3 (l/hr - Bar) 3 - 12, 4 - 10, 5 - 8.
 HC997A-4 (l/hr - Bar) 10 - 4, 12 - 2, 14 - 0.

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

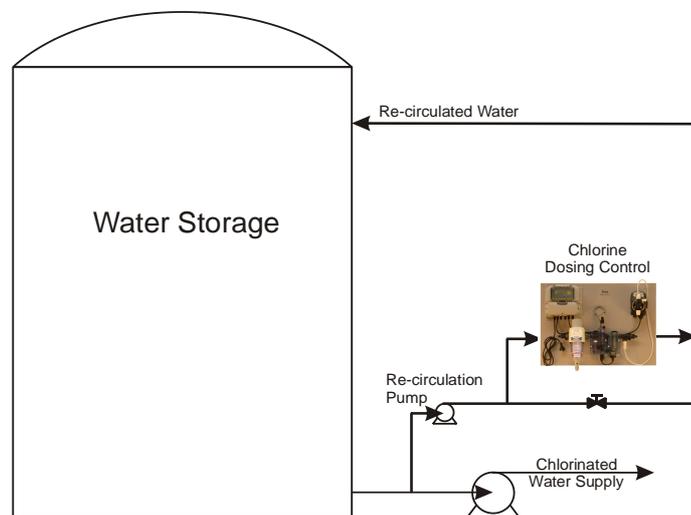
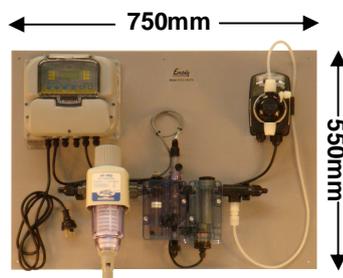
E-CL1-8x-F4 Chlorine Dosing System

With Free Chlorine Analyser & Dosing Pump

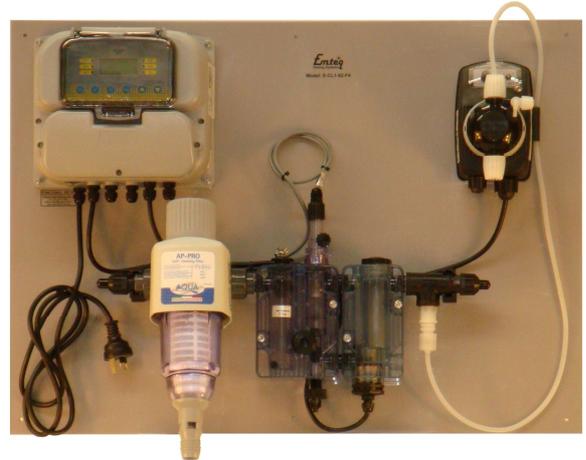
The AQUA Chlorine Dosing System is a fully engineered measurement and dosing control package for the chlorination of water in the range of 0 to 10ppm. The system uses the proven amperometric principle for measurement of free chlorine.

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 2nd 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:

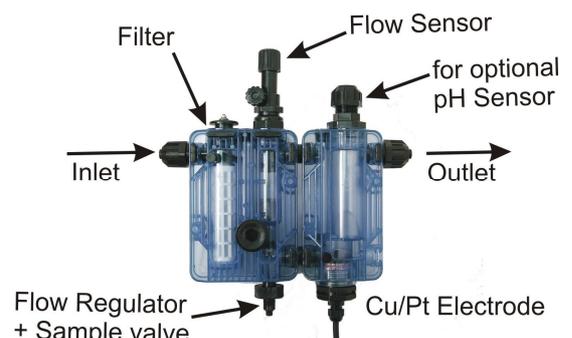
Measurement:	Amperometric (A-CG5)
Electrodes:	Platinum/Copper
Range:	0-10 ppm
Display:	4 Digit LCD
Outputs:	2x 4-20mA 3x Relay (5A, 250 Vac)
Power Supply:	240 Vac, 50 Hz
Dose Rate:	refer to pump data
Filter:	80 Micron.
Water Flow Rate:	40-50 l/hr
Connections:	½" BSP or 10x14 Tube
Control Method:	On/Off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

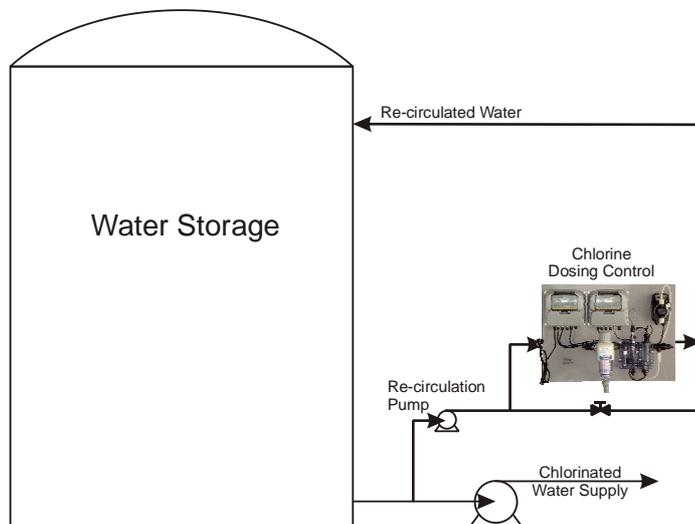
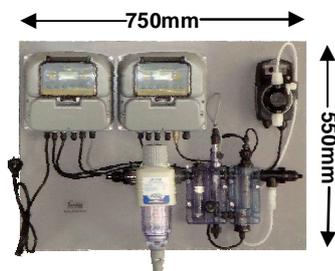
E-CL3-8-F4 Chlorine Dosing System

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 2nd 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:

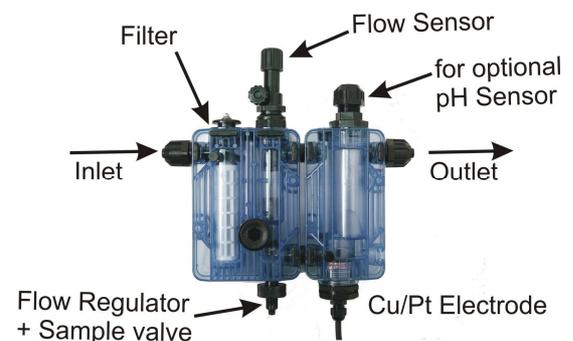
Measurement:	Amperometric (A-CG5)
Electrodes:	Platinum/Copper.
Range:	0-10 ppm
Display:	4 Digit LCD
Outputs:	2x 4-20mA 3x Relay (5A, 250 Vac)
Power Supply:	240 Vac, 50 Hz
Dose Rate:	refer to pump data
Filter:	80 Micron.
Water Flow Rate:	40-50 l/hr
Connections:	½" BSP-F & 10x14 Tube
Control Method:	On/Off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