

Chemical Dosing



Selection Guide



In terms of how we approach kit selection our starting point is primarily safety. There are questions we look to answer before we even start to think about controllers and probe selection. For example, what equipment represents the least risk? Which chemicals will minimise operator risk? Is there sufficient space for the equipment to be installed safely? Is the equipment easily accessible for interaction and maintenance? Can sample and injection points be easily accessed? Is there a safe route for chemical lines to be run?

All commercial sites should consider Risk Assessments and Method Statements (RAMS) and with our assistance in kit selection, the best operating strategy can be implemented.

The team are more than happy to assist with selecting equipment from the following pages. We can also arrange an FOC On-site Survey to thoroughly assess kit selection from a safety and technical point of view. Please contact the CertiChem team.

Installation, Commissioning & Training - Please see page 309 for details.

The first weeks following the installation of a dosing system are crucial in terms of the satisfaction of the end client. If the installation is performed correctly and goes smoothly, there is less chance of teething problems which may lower confidence. CertiDos Engineers install and commission many systems, all year round. Before attempting an installation, there are a number of site preparations that we ask to be completed. One of the most important being water balance and sanitiser levels. For a full list of requirements and further advice, please contact the CertiChem team. We are more than happy for the trade to install our systems

and if you would like us to attend to commission and train the operator once the installation is complete, this can be arranged.

As a distributor, we take industry guidance notes very seriously and will only sign jobs off once deemed 'safe'.

Operator training is a crucial part of ensuring that the equipment is correctly operated and maintained. Staff training needs will vary. We provide 'handover' training following commissioning. In some cases, longer and more in depth training may be required. At the time of carrying out an On-site Survey, we can assess the training needs of the on-site staff and advise if a more intensive session is required. We can also return to site further down the line to deliver 'refresher' training or to train new members of staff.

Preventative Maintenance - Please see page 309 for details.

'Service visits' or 'Planned Preventative Maintenance (PPM)' form an essential part of the smooth running of any chemical dosing system. The frequency of visits will depend on the facility, bather load and the site's own maintenance schedule. As a general rule, we recommend at least two service visits a year at 6 month intervals. Depending on the individual site requirements, more or less frequent visits may be required. We can act on your behalf as our trade customer, and provide the necessary service contract for your client. Again, this can be assessed at the time of an initial pre-site survey.

From help sizing dosing pumps up to specifying complete systems, we're here to help. CertiChem can be contacted on 01993 777200 or certichem@certikin.co.uk

On Site Installation, Commissioning Training - Trade Only

Installation, commissioning and training is available for all of our chemical dosing equipment. Our dedicated team of dosing engineers can ensure that systems are set up and continue to run safely and efficiently for years to come. The information below outlines the available packages and are Trade only cost (exclusive of VAT).

| Installation, Commissioning & Training | | Nett Price |
|--|---|-----------------|
| - | CDEICT Installation, Commissioning & Training | £1095.00 |
| - | CDEICT Installation Inspection, Commissioning & Training | £665.00 |
| - | CDECT Commissioning & Training Only | £545.00 |
| - | CDET Training Only | £385.00 |

Prices quoted based on UK Mainland only. For overseas including Channel Islands, Isle of Wight and the Isle of Man, please contact the CertiChem team.

Installation, commissioning and training typically lasts for two consecutive working days.

Commissioning and training typically lasts for one working day.

Training typically lasts for half a working day.

Time frames include travel there and back.

Based on one monitoring and control system.

WE would Recommend

| Service Visits - Planned Preventative Maintenance | | Nett Price |
|---|---|-----------------|
| - | CDESER4 Service Contract - 4 visits per year | £2002.00 |
| - | CDESER2 Service Contract - 2 visits per year | £1140.00 |
| - | CDESER1 Service Contract - 1 visit per year | £630.00 |

Service visit or Planned Preventative Maintenance (PPM) form an essential part to the smooth running of any chemical dosing system. The frequency of visits will depend on your facility, bather load and own maintenance schedule. Please speak with a member of the CertiChem team to discuss your requirements fully.

Prices quoted based on UK Mainland only. For overseas including Channel Islands, Isle of Wight and the Isle of Man, please contact the CertiChem team.

Service visits typically consist of 1 working day per visit.

Service spares charged as extra. Prices based on one monitoring and control system.

| Call Outs | | Nett Price |
|-----------|---|----------------|
| - | CDECAL Initial call out fee - Inc 1st hour on site | £218.00 |
| - | CDESHR On site hourly rate | £62.70 |

As well as the above we offer one off emergency and non emergency call outs. Costs will depend entirely on the nature of the call out and time spent on site. The 'initial call out fee' covers travel to site plus the first hour on site. **Please contact CertiChem with postcode.** We reserve the right to price accordingly.

Prices quoted based on UK Mainland only. For overseas including Channel Islands, Isle of Wight and the Isle of Man, please contact the CertiChem team.

Service spares charged as extra.

Free On Site Survey

Don't forget that we offer free, no obligation, on-site surveys that will allow us to specify not only the equipment but the level of service plus training that will be required. To arrange a visit to your site, please contact the CertiChem team or complete the pool/spa questionnaire at the back of this section.



Don't forget our Exclusive 5 Years Warranty*

5 Year Warranty

Was your dosing system installed by us or one of our approved installers?

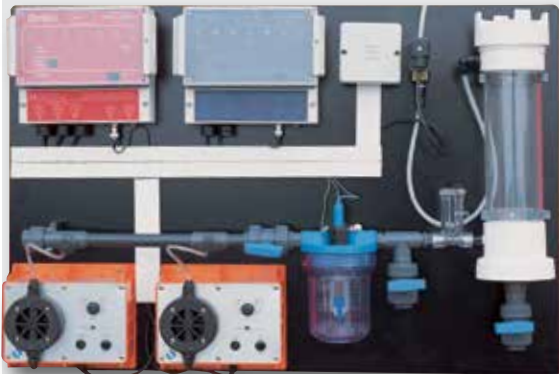
Do you have a current service contract with an approved contractor?

If the answer is yes to both questions then relax - your dosing system is covered by CertiChem's 5 year warranty!*

*Terms and conditions apply - please contact the CertiChem team for a copy.

System Upgrade Offer - SAVE UP TO £200!

Thinking of upgrading your chemical dosing equipment?
Why not upgrade to a current CertiDos system and take advantage of our loyalty promotion.....



OUT WITH THE OLD

What are you waiting for?

Upgrade your chemical dosing equipment today!

Let us supply and install a brand new chemical dosing system with up to date functions and features.

We can commission the system and provide you / your client with dedicated operator training.

Contact the CertiChem team on 01993 777200 for further details or why not complete the dosing questionnaire on page 327

To make it even easier, we can complete a free site survey to ensure that the equipment supplied is best for you!

*Terms and conditions apply - contact the CertiChem team for more information



Don't forget our
**Exclusive 5 Years
Warranty***

IN WITH THE NEW

You could save up to £200.00* when replacing your old dosing equipment. Upgrading could increase your profit margin or allow you to pass a saving onto your customer - the choice is yours!

Special nett prices on start up chemicals, testing equipment and other accessories also available when replacing a full system.



Connected Controllers

You've decided to upgrade why not add connectivity to your new controller. View live information and water parameters as well as historical logs using any internet enabled device.

See page 319 for more information.



GPRS Modem

Using a data SIM card, the controller is connected to the mobile data network. The controller automatically connects to ERMES and can be accessed 'live' via the ERMES web server using any internet enabled device. GPRS users can send alerts by email and SMS. ERMES uses approx 250mb data per calendar month.



Ethernet

Controller is connected to a local area network with internet access. Once configured, the user can access the controller 'live' via the ERMES web server using any internet enabled device. Ethernet users can send alerts by email.



USB

For local connection only. Controller is fitted with a USB port. Once a USB drive is connected, the event log is automatically transferred for further analysis. A special version of the software is provided for reading the logs on a compatible computer.

Chemical to be dosed must be positioned below the unit



CertiDos WPRH Price
H CDEPAWPRH WPRH Dosing System **£1910.00**

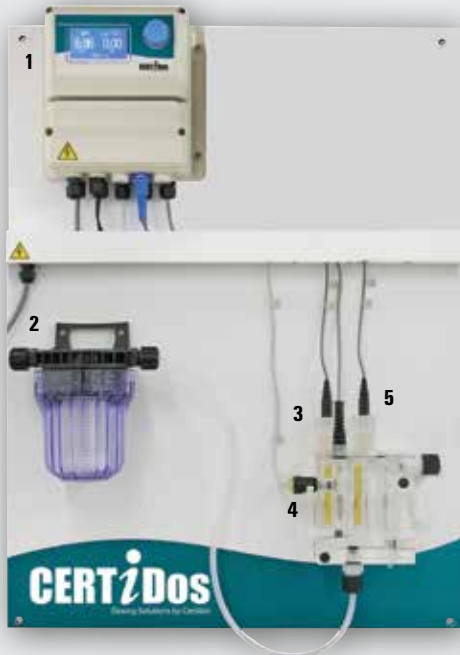
- 1) Controller with integral peristaltic pumps (solenoid pumps available on request)
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) ORP Electrode

Redox based systems indicate the Oxidation Reduction Potential (ORP) of the water (sanitiser activity) and not directly the quantity of sanitiser present.

ORP is an indication of the activity level of the sanitiser and can be used to control a set point to safe guard bathers. ORP (Redox) can be used in conjunction with amperometric systems which can then show both the ppm level (sanitiser quantity) and activity of the sanitiser (displayed as a mV value) see page 316

The systems shown offer an economical method of monitoring the pool or spa water quality and are best suited to domestic applications.

* Pumps (where applicable), tanks and other accessories are required in order to form a complete system. See page 320-323 for more information



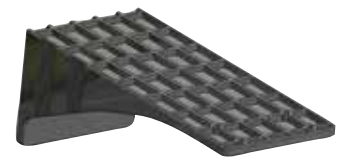
CertiDos LRH Price
H CDEPALDPRH LRH Dosing System **£1950.00**

- 1) Controller
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) ORP Electrode

Recommended Accessories



Chemical storage tank and bund - page 323



Pump mounting bracket - page 325



Chemical dosing pump - page 321



Withdrawable injection valve - page 325

Domestic Feeder Systems

Tablet feeders or salt chlorinators can be directly 'plugged in' to the integrated socket on the controller making it ideally suited to both domestic and light commercial applications.

Integral software has pH priority to ensure optimum conditions for sanitation.

Controllers with feeder sockets are available with ORP probes; open amperometric cells or closed amperometric probes.

The Autopilot Digital has the functionality required to connect.

Feeders and the Autopilot Digital can be found on page 299

* Pumps (where applicable), tanks and other accessories are required in order to form a complete system.

See page 320-323 for more information

** Approved installers can purchase equipment for self installation at a reduced cost

Recommended Accessories



Chemical storage tank and bund - page 323



Withdrawable injection valve - page 325



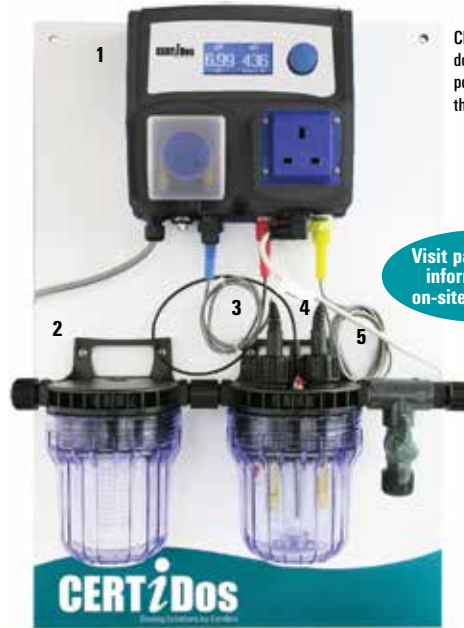
Available upon request



Electrovalve - page 324



Autopilot Digital - page 299



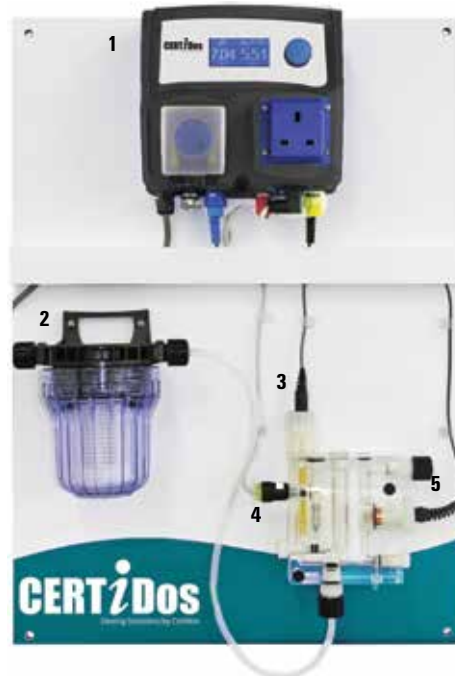
Chemical to be dosed must be positioned below the unit

Visit page 309 for information on on-site assistance

CertiDos WPSRH

| H | CDEPAWPSRH | WPSRH Dosing System | Price |
|---|------------|---------------------|-----------------|
| | | | £1865.00 |

- 1) Controller with integral peristaltic pump and feeder output (socket) - solenoid pump available on request
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) ORP Electrode



Chemical to be dosed must be positioned below the unit

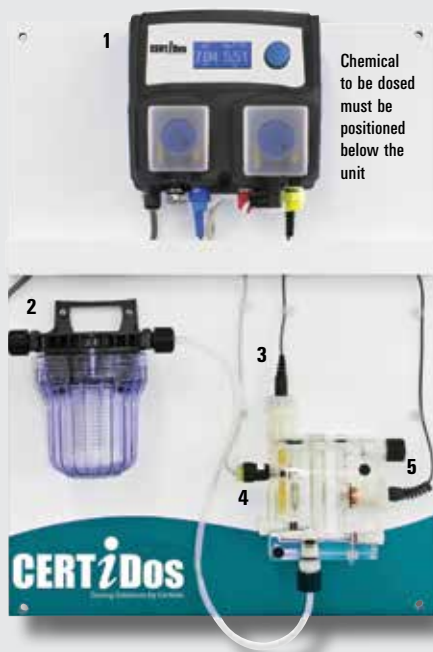
CertiDos WPSOC & WPSCP

| H | CDEPAWPSCP | WPSCP dosing system (closed probe) | Price |
|---|------------|------------------------------------|-----------------|
| | | | £3455.00 |

- 1) Controller with integral peristaltic pump and feeder output (socket) - solenoid pump available on request
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) Closed Amperometric probe

Light Commercial Systems - Open Cell

Visit page 309 for
information on
on-site assistance

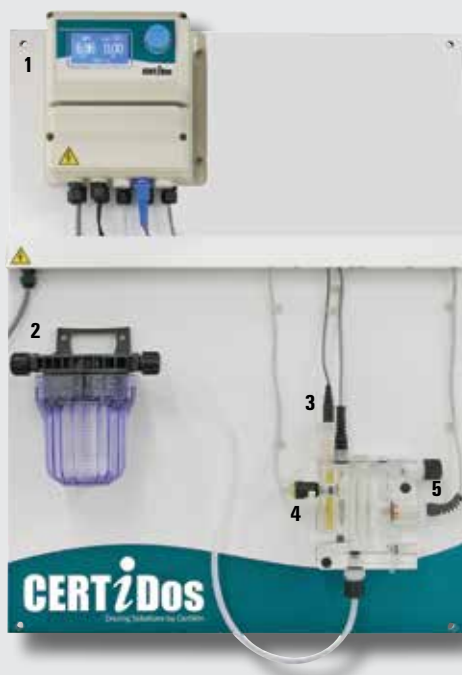


CertiDos WPOC

H CDEPAWPOC WPOC Dosing System

Price
£3094.00

- 1) Controller with integral peristaltic pumps
- (solenoid pumps available on request)
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) ORP Electrode



CertiDos LOC

H CDEPALDPHCL6 LOC Dosing System

Price
£2825.00

- 1) Controller
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) ORP Electrode

Open amperometric cells offer a relatively low cost method of automating the monitoring of the chlorine residual (displayed in ppm) of a water sample.

Broadly speaking, most applications are suited to an open amperometric cell. However, the cells functionality depends on a constant flow and pressure across the sample block. Also, the cells output can be affected by other factors such as combined chlorine, stabilisers and other oxidants.

Calibration can be required more frequently than closed Amperometric options

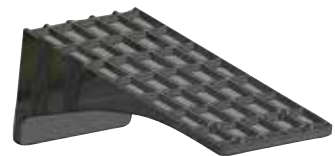
Please note that circulation must operate on a 24/7 basis when using open amperometric systems

- * Pumps (where applicable), tanks and other accessories are required in order to form a complete system. See page 320-323 for more information
- ** Approved installers can purchase equipment for self installation at a reduced cost

Recommended Accessories



Chemical storage tank
and bund - page 323



Pump mounting
bracket - page 325



Chemical dosing pump
- page 321



Withdrawable injection
valve - page 325

Domestic Active Oxygen With pH Control

CertiDos WDPHOS Dosing panel for pH monitoring and control plus Active Oxygen timed addition.

* Pumps (where applicable), tanks and other accessories are required in order to form a complete system. See page 320-323 for more information

Recommended Accessories



Chemical storage tank and bund - page 323



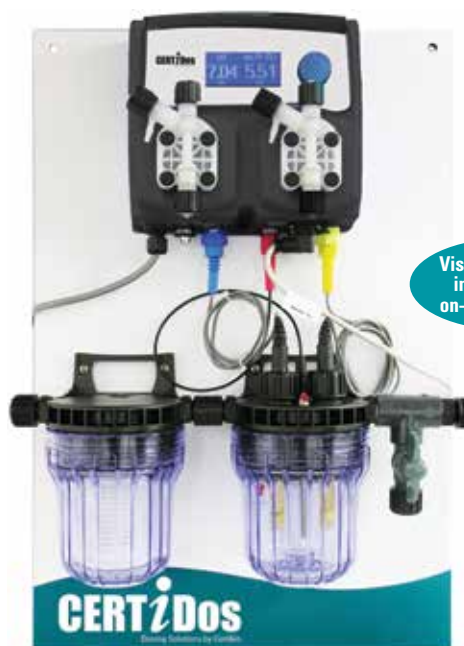
Withdrawable injection valve - page 325



Carboy Bund - page 323



Carboy Suction Lance - page 325



Chemical to be dosed must be positioned below the unit

Visit page 309 for information on on-site assistance

CertiDos WDPHOS

| | | Price |
|----------|--|-----------------|
| H | CDEPAWDPHOS Controller with integral solenoid pumps | £1696.00 |

Hydrogen Peroxide

| | | No in pack | Unit Price | Price |
|----------|--|------------|------------|----------------|
| D | HP1222WA 25kg Hydrogen Peroxide 12% with Algicide | 1 | - | £103.95 |

As with any hazardous substance, care should be taken when storing and handling

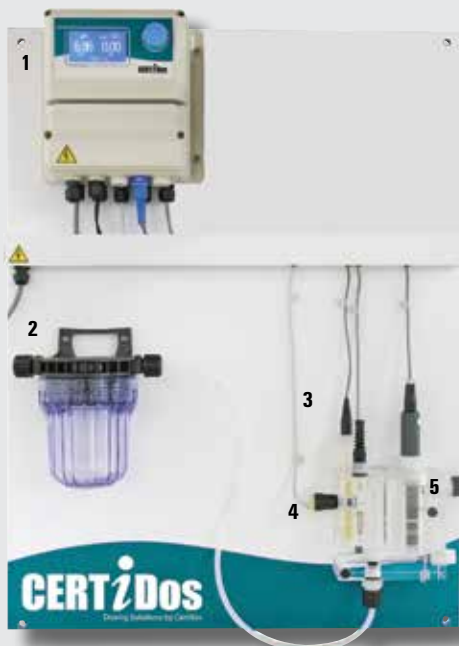


See page 292 for more information on the Certikin UV systems.



CertiDos WPCP
H CDEPAWPCP WPCP Dosing System **Price £3700.00**

- 1) Controller with integral peristaltic pumps
- (solenoid pumps available on request)
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) ORP Electrode



CertiDos LCP
H CDEPALDPHCL3 LCP dosing system **Price £3490.00**

- 1) Controller
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) Closed Amperometric Chlorine Probe

Closed Amperometric Chlorine Probe systems offer the most accurate free chlorine residual measurement available (displayed in ppm).

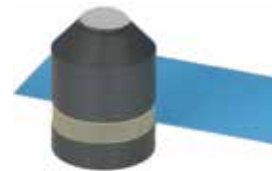
Please contact CertiChem for further information.

- * Pumps (where applicable), tanks and other accessories are required in order to form a complete system. See page 320-323 for more information
- ** Approved installers can purchase equipment for self installation at a reduced cost

Recommended Accessories



Chemical storage tank and bund - page 323



Replacement membrane cap - page 324



Chemical dosing pump - page 321



Withdrawable injection valve - page 325

Heavy Use Commercial Systems

CertiDos PRC System

A commercial grade system giving pH and chlorine monitoring and control. The system also features a Redox (mV) monitor for general analysis of the water quality (display only). The system uses closed amperometric probes to give the most accurate measure of the levels available.

CertiDos M5 System

A complete sampling and monitoring panel featuring a 5 channel controller offering pH, ORP, Free Chlorine, Total Chlorine and Combined Chlorine. The MAX5 offers a comprehensive monitoring solution for a commercial facility.

* Pumps (where applicable), tanks and other accessories are required in order to form a complete system. See page 320-323 for more information

** Approved installers can purchase equipment for self installation at a reduced cost

Recommended Accessories



Chemical storage tank and bund - page 323

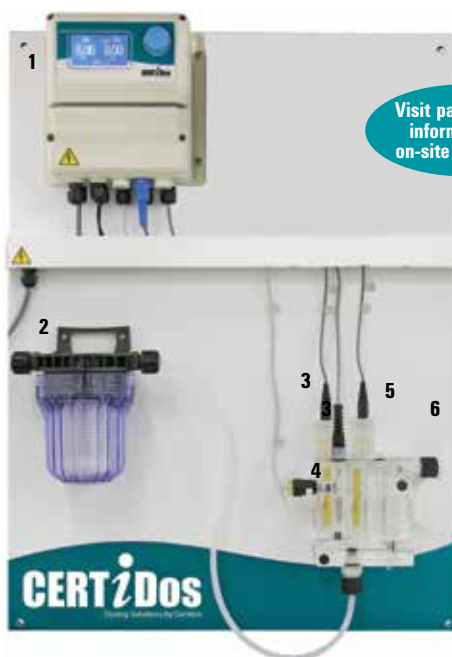
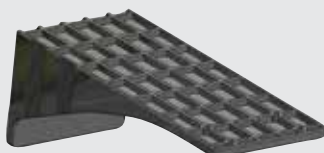


Withdrawable injection valve - page 325



Chemical dosing pump - page 321

Pump mounting bracket - page 325



Visit page 309 for information on on-site assistance

CertiDos PRC

| H | CDEPALDPRC3 | PRC Dosing System | Price |
|---|-------------|-------------------|-----------------|
| | | | £3655.00 |

- 1) Controller
- 2) Pre-filter
- 3) pH Electrode
- 4) Flow Sensor
- 5) Closed Amperometric Chlorine Probe
- 6) ORP Electrode



CertiDos M5

| H | CDEPAMAX5 | M5 Dosing System | Price |
|---|-----------|------------------|-----------------|
| | | | £7010.00 |

- | | |
|-----------------|----------------------------|
| 1) Controller | 5) ORP Electrode |
| 2) Pre-filter | 6) Free Chlorine probe * |
| 3) Flow sensor | 7) Total Chlorine probe * |
| 4) pH Electrode | * Closed Amperometric type |

Carbon Dioxide (CO₂) Dosing

Carbon Dioxide (CO₂) is increasingly being used for pH control within the swimming pool industry. When injected or diffused into the pool water, the CO₂ forms a mild carbonic acid for pH control as well as forming natural bicarbonate which assists in the stabilisation of the pH level.



CO₂ Flow Controller

Q **CDECO2FC** CO₂ Flow Controller - 240VAC Price **£414.00**

CO₂ Flow Controller

An IP rated enclosure which allows adjustment of CO₂ flow to the injection point. Supply can be connected to CertiDos controllers for automatic control based on pH water parameters.

CO₂ Injector Diffuser

Q **CDECO2LIN** CO₂ Injection valve - stainless steel quill Price **£280.00**

CO₂ Injector / Diffuser

An essential part of any CO₂ system - the injector. The injector has been specifically designed so that the injection quill / diffuser can easily be removed for cleaning without the need to isolate the circulation line.

Accessories

| | | Price |
|---|---|------------|
| - | CDEMC1 Manual changeover valve assembly 1x1 cylinder configuration | POA |
| - | CDEMC2 Manual changeover valve assembly 2x2 cylinder configuration | POA |
| - | CDESC1 Cylinder safety chain - 1 metre | POA |
| - | CDESCH Cylinder safety chain wall hook M6 | POA |
| - | CDECOD CO ₂ Leak detection spray 500ml | POA |
| - | CDEBRE Bottle regulator 230V/Bar | POA |
| - | CDEAD8 Adaptor 3/8" cone x 1/4" cone | POA |
| - | CEDAD4 Adaptor 1/4" cone x 8mm OD hose | POA |

Why CO₂?

CO₂ offers a number of advantages over the mineral acids such as sodium bisulphate and hydrochloric acid:

- CO₂ is colourless, odourless and a nonflammable gas. It is easy to handle and dose and is dangerous only if released into a confined area. It requires no special protective equipment
- Under COSHH regulations a pool operator must carry out a risk assessment in selecting the chemicals to use in a pool. The first step is to ascertain whether using an alternative process or chemical can eliminate the risk - CO₂ scores on this count
- Deliveries are unlikely to result in emergencies because of spillages and, where ventilation is good, CO₂ does not demand any special safety monitoring for leakage
- Unlike mineral acids, it is not possible to mix CO₂ with sodium or calcium hypochlorite (in liquid form) through spillage in bunds or operator error. This means there is no possibility of accidental production of chlorine gas - a significant hazard in swimming pool installations
- Due to its natural buffering action, CO₂ provides improved process control. pH reduction is more gradual than with mineral acids making accurate control inherently easier but sometimes slower.



FLOC Dosing Set

A complete FLOC or PAC dosing solution. Ideally suited for chemicals supplied in 25L carboys reducing chemical handling by the end user.

FLOC or Flocculant, is a liquid that is metered into a pool improving the filter efficiency and in turn, the water quality. FLOC works by bonding together small particles in the water making them much larger and easier to trap in the filtration system.

Installation Tips

When installing a Certikin FLOC set we would generally recommend that it is:

- As far away as possible from other dosing equipment
- Away from all sources of chlorine to reduce the risk of chlorine gas generation
- Injected as far upstream as possible

Also:

- Acid/chlorine injection points should be located POST filter
- FLOC cannot be used with DE (Diatomaceous Earth) or high rate sand filters

Calculating the addition rate

- Minimum dose rate (gr/24hrs) =
Filter flow rate (m³/h) x 5.8*
- E.g. 100m³/h flow =
100 x 5.8 = 580gr/24hrs

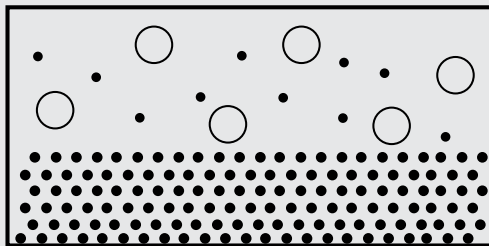
*Assumes the following:

Minimum addition rate of 0.2ml/m³/hr

SG of 1.2

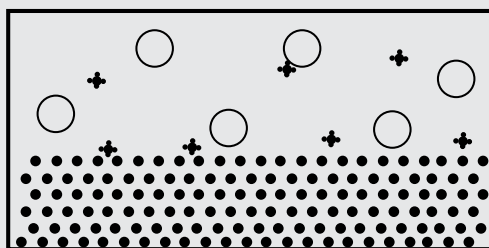
CDEVCLG pumps are rated 300 or 3000 gr/24hrs max (twin scale)

How FLOC works



Without FLOC

The larger particles are trapped by the sand filter (towards the bottom) as normal. The smaller particles are too small for the filter to trap and so, freely circulate.



With FLOC

After FLOC is introduced to the line, it binds itself and other particles together. This forms much larger particles which can be trapped easily by the sand filter for later removal as part of the backwashing process



CertiFloc - Supplied Fully Assembled

| | | Price |
|---|----------|---------------------------------------|
| Q | CDEFLOC1 | Floc dosing set (as pictured) £830.00 |
| Q | CDEFLOC2 | Twin Pump Floc dosing set * £1375.00 |

* Two pumps drawing from one carboy.

Individual Components - Supplied Loose

| | | Price |
|---|-------------|--|
| Q | CDEVCLG | VCLG Floc dosing pumps gr/24hr £433.00 |
| Q | CDELASP/V40 | Carboy suction lance with level switch (4-6mm connections) £145.00 |
| Q | CDEW75U | Carboy bund with support plinth £183.00 |
| Q | CDESTVN | Pump mounting bracket £21.50 |

For twin Floc set, 2 x VCLG pumps and 2 x pump mounting brackets are required.

All current CertiDos controllers can be remotely accessed from any compatible web browser via our dedicated remote connectivity suite 'ERMES.'



Real Time Monitoring

All controller parameters can be viewed, in real time, through ERMES server. Information that can be viewed includes probe readings; outputs; alarms and set points.

Alarms

Controllers can be programmed to text (SMS) or e-mail preset users a list of current parameters on request or in the event of an alarm being triggered such as low level in the chemical tanks; high/out of range parameters and sample line no flow.



24/7 History and Logs

All parameters on the controller such as pH, sanitiser and flow etc are automatically logged. The stored data can be used for identifying trends or in problem solving making it invaluable.

The logs can be viewed and exported using the online web interface. The data can be displayed on an interactive graph or in text form.

For controllers that don't have access to the internet, an optional USB port can be fitted so that the logs can be downloaded onto a USB drive. The data stored on the drive can be uploaded to ERMES and viewed as outlined above.

Multiple Pools/Spas? Multiple Sites?

Multiple controllers on the same site can be linked through the same connectivity device. Similarly, multiple connectivity devices across multiple sites can be linked to the same ERMES account.

ERMES can display all controllers linked to the account in an easy to read overview screen. Each controller can also be individually interegrated for further, more in depth, information.

| MAX 5 - PH_RH_CL_CLT_CLC | |
|--------------------------|------|
| pH | 7.45 |
| mV | 752 |
| Cl2 | 2.02 |
| Cl2 | 0 |
| Clco | 0 |



Local USB



Ethernet



WIFI



Mobile Data (GPRS)

Wall Mount Dosing Pumps

Solenoid driven dosing pumps with various features ranging from manual, automatic and pulse proportional control. All Certikin dosing pumps are designed to integrate with Certikin controllers or can be used independently.

Certikin dosing pumps can also be purchased as part of tank and bund sets. Please see page 322 for more information.



**£285.00
RETAIL**

CDEFCE505

5 ltr/hr pump

Maintenance Kits available for all pumps. Please call CertiChem for assistance

Recommended Accessories



Chemical storage tank and bund - page 323

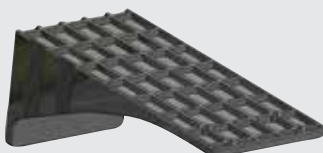


Withdrawable injection valve - page 325



Multifunction Valve - page 325

Pump mounting bracket - page 325



Certikin FCE Economy Dosing Pumps

| Q | Code | Description | Price |
|---|------------|---------------------------------------|---------|
| Q | CDEFCE1022 | FCE Dosing pump 2.2 Ltr / hr @ 10 BAR | £230.00 |
| Q | CDEFCE505 | FCE Dosing pump 5 Ltr / hr @ 5 BAR | £199.00 |
| Q | CDEFCE3065 | FCE Dosing pump 6.5 Ltr / hr @ 3 BAR | £230.00 |
| Q | CDEFCE0311 | FCE Dosing pump 11 Ltr / hr @ 3 BAR | £250.00 |

Super economy pump with manual stroke frequency adjustment - PP/FPM

Certikin FCO Series Dosing Pumps

| Q | Code | Description | Price |
|---|-------------|---------------------------------------|---------|
| Q | CDEFCE01022 | FCO Dosing pump 2.2 Ltr / hr @ 10 BAR | £285.00 |
| Q | CDEFCE0505 | FCO Dosing pump 5 Ltr / hr @ 5 BAR | £285.00 |
| Q | CDEFCE03065 | FCO Dosing pump 6.5 Ltr / hr @ 3 BAR | £285.00 |
| Q | CDEFCE00311 | FCO Dosing pump 11 Ltr / hr @ 3 BAR | £345.00 |

Economy pump with manual stroke frequency adjustment - PVDF/FPM

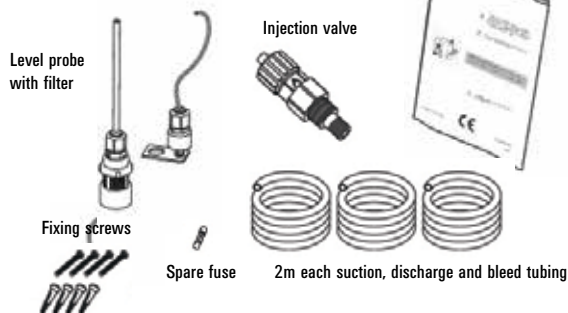
All dosing pumps supplied with metric connections. Imperial connections available on request.



Certikin Peristaltic Dosing Pump

| Q | Code | Description | Price |
|---|---------|---|---------|
| Q | CDEPERI | Peristaltic pump 7 Hr/hr @ 1 BAR adjustable speed | £146.00 |

What's in the box



End User Manual

Injection valve

Level probe with filter

Fixing screws

Spare fuse

2m each suction, discharge and bleed tubing

Foot Mount Dosing Pumps



Certikin HTA Series - Manual Pumps

| | | Price |
|---|---|----------------|
| Q | CDEHTA1006 HTA Dosing pump 0.6 Ltr / hr @ 10 BAR | £350.00 |
| Q | CDEHTA1002 HTA Dosing pump 2 Ltr / hr @ 10 BAR | £350.00 |
| Q | CDEHTA0704 HTA Dosing pump 4 Ltr / hr @ 7 BAR | £350.00 |
| Q | CDEHTA0705 HTA Dosing pump 5 Ltr / hr @ 7 BAR | £350.00 |

Economy pump with manual stroke length and frequency adjustment - PVDF/FPM

Certikin HTS Series - Proportional Pumps

| | | Price |
|---|---|----------------|
| Q | CDEHTS1006 HTS Dosing pump 0.6 Ltr / hr @ 10 BAR | £440.00 |
| Q | CDEHTS1002 HTS Dosing pump 2 Ltr / hr @ 10 BAR | £440.00 |
| Q | CDEHTS0704 HTS Dosing pump 4 Ltr / hr @ 7 BAR | £440.00 |
| Q | CDEHTS0705 HTS Dosing pump 5 Ltr / hr @ 7 BAR | £450.00 |

Economy pulse proportional pump with manual stroke length adjustment - PVDF / FPM

Certikin AMS CL Series - Manual Pumps

| | | Price |
|---|---|----------------|
| Q | CDEAMS0720 AMS Dosing pump 20 Ltr / hr @ 7 BAR | £895.00 |
| Q | CDEAMS0340 AMS Dosing pump 40 Ltr / hr @ 3 BAR | £915.00 |

High capacity pump with manual stroke length and frequency adjustment with low level probe - PVDF / FPM

Certikin KMS MF Series - Proportional Pumps

| | | Price |
|---|--|----------------|
| Q | CDEKMF2001 KMS MF Dosing pump 1 Ltr / hr @ 20 BAR | £765.00 |
| Q | CDEKMF0808 KMS MF Dosing pump 8 Ltr / hr @ 8 BAR | £765.00 |
| Q | CDEKMF0510 KMS MF Dosing pump 10 Ltr / hr @ 5 BAR | £765.00 |
| Q | CDEKMF0218 KMS MF Dosing pump 18 Ltr / hr @ 2 BAR | £765.00 |

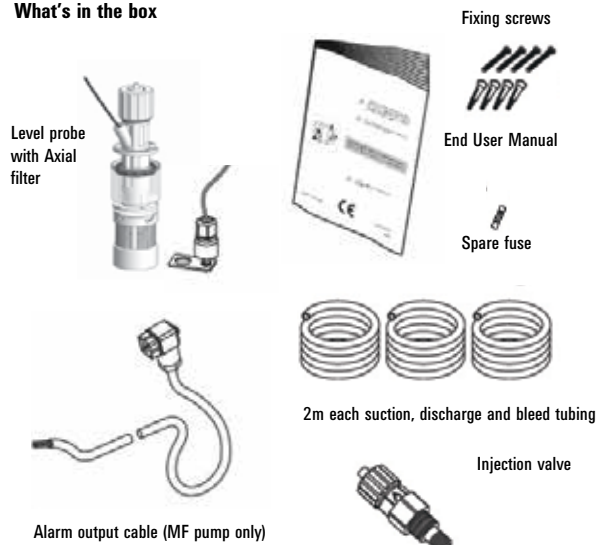
Multifunction pump with manual stroke length adjustment - PVDF / FPM
Modes: Constant, Pulse Divide, Pulse Multiply, PPM, Batch, Volt, % and ml/q

Solenoid driven dosing pumps with various features ranging from manual to automatic proportional control. All Certikin dosing pumps are designed to integrate with Certikin controllers or can be used independently.

Certikin dosing pumps can also be purchased as part of tank and bund sets. Please see page 322 for more information.

Maintenance Kits available for all pumps. Please call CertiChem for assistance

What's in the box



Recommended Accessories



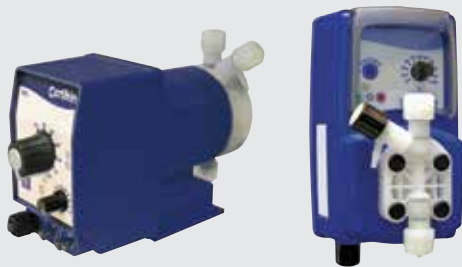
Pump, Tank & Bund Sets

Pump & Carboy Bund Sets

Ideally suited to plant rooms where tank space is of a premium. This set allows the end user to simply place chemical carboys into the bund, reinsert the pump suction lance and continue operation. This reduces significantly the amount of chemical handling by the end user.

As the bund is square, this gives greater flexibility in positioning the equipment inside the plant room and an overall reduced footprint.

Certikin Pump and Carboy Bund Sets are suitable for use with most standard 20L and 25L Chemical Carboys.



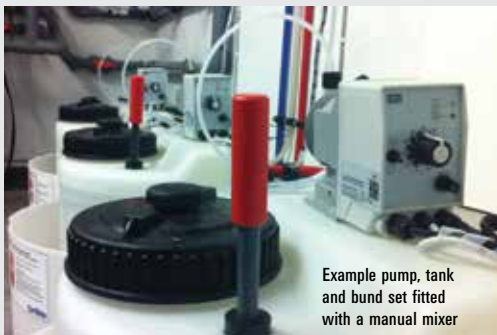
Wall mounted dosing pumps can be found on page 320*
Foot mounted dosing pumps can be found on page 321

Pump & Carboy Bund Sets

Comprising of a dosing pump, day tank and matching bund, components which are commonly found in the majority of commercial pool/spa plant rooms.

Tank sizes range from 25Ltr to 530Ltr as standard with larger sizes available upon request. All tanks can be supplied with suitable bunds that provide a minimum of 110% ullage of the tank volume.

Other accessories, such as electric or manual mixers, are available upon request.



- 1) Dosing pump (wall mount pictured)
- 2) CDESTVN Mounting bracket
- 3) CDELASP/40 Carboy suction lance
- 4) CDEW75U Carboy bund
- 5) Chemical Carboy

Package Components

| Q | Code | Description | Price |
|---|-------------|---|---------|
| 1 | CDELASP/V40 | Carboy suction lance with level switch | £145.00 |
| 1 | CDEW75U | 27 Ltr Carboy bund with support plinth | £183.00 |
| 1 | CDESTVN | Mounting bracket for wall mounted pumps | £21.50 |

*Don't forget a mounting bracket (CDESTVN) when using a wall mount dosing pump (as pictured)

Putting it all together - Why not let us preassemble them for you?

| Q | Code | Description | Price |
|---|--------|--------------------------------------|-------|
| 1 | CDEPTC | Pump, tank and bund set construction | POA |

Recommended Accessories

Large Diaphragm Pumps - page 285



Standard Hand Transfer Pump - page 285



925 Transfer Pump - Plunger Type - page 285



PP25 Koshin Syphon Pump - page 285



Tanks & Bunds



Chemical Holding Tanks - Cylindrical - White MPDE

| | | Price |
|---|--|----------------|
| Q | ETCHT25 25Ltr Holding tank - 340mm dia x 425mm h | £97.25 |
| Q | ETCHT050 60Ltr Holding tank - 380mm dia x 635mm h | £115.45 |
| Q | ETCHT108 108Ltr Holding tank - 470mm dia x 680mm h | £160.00 |
| Q | ETCHT230 230Ltr Holding tank - 610mm dia x 870mm h | £219.00 |
| Q | ETCHT530 530Ltr Holding tank - 830mm dia x 1065mm h | £411.00 |

Larger sizes available on request

Chemical Bund Tanks - Cylindrical - White MPDE

| | | Price |
|---|---|----------------|
| Q | ETCBT30 To suit ETCHT25 - 470mm x 173mm h | £158.00 |
| Q | CDEB05 To suit ETCHT25 - 380mm x 343mm h | £113.40 |
| Q | ETCBT060 To suit ETCHT50 - 470mm x 430mm h | £158.10 |
| Q | ETCBT130 To suit ETCHT108 - 610mm x 480mm h | £225.00 |
| Q | ETCBT260 To suit ETCHT230 - 680mm x 800mm h | £260.00 |
| Q | ETCBT583 To suit ETCHT530 - 1005mm x 735mm h | £769.00 |

Chemical Holding Tanks - Rectangular - White MDPE

| | | Price |
|---|---|----------------|
| Q | CDE25U 25Ltr Holding tank - 370mm x 270mm x 350mm | £73.85 |
| Q | CDE50U 50Ltr Holding tank - 370mm x 300mm x 500mm | £109.50 |
| Q | CDE75U 75Ltr Holding tank - 440mm x 300mm x 600mm | £160.00 |
| Q | CDE125U 125Ltr Holding tank - 460mm x 290mm x 1100mm | £186.00 |
| Q | CDE175U 175Ltr Holding tank - 620mm x 290mm x 1100mm | £216.50 |
| Q | CDE250U 250Ltr Holding tank - 825mm x 325mm x 1100mm | £266.50 |

Larger sizes available on request

Chemical Bund Tanks - Rectangular - White MDPE

| | | Price |
|---|--|----------------|
| Q | CDE50B To suit CDE25U - 210mm h x 300mm x 500mm | £102.25 |
| Q | CDE85B To suit CDE50U - 300mm h x 310mm x 600mm | £130.50 |

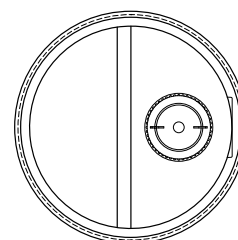
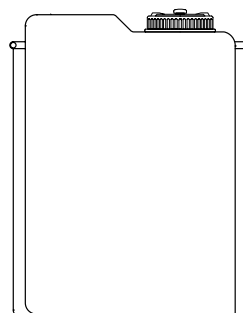
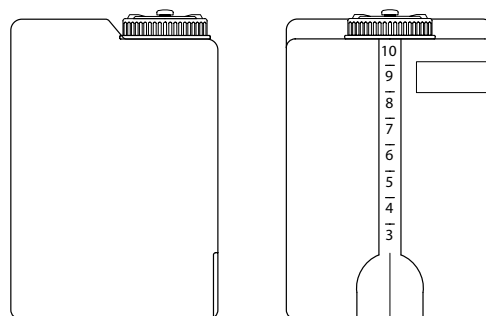
Chemical Carboy Bunds - White MDPE

| | | Price |
|---|--|----------------|
| Q | CDEW75U To suit 25Ltr Carboys - 600mm h x 440mm x 300mm | £183.00 |

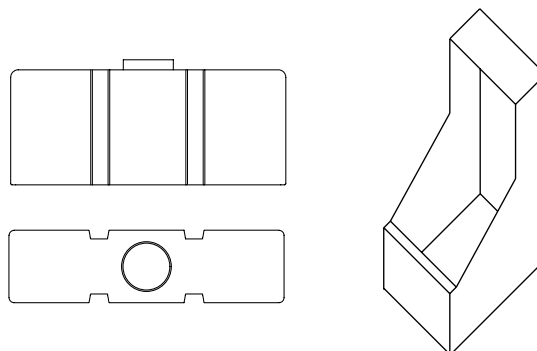
Tank & Bund Sets

Certikin tanks and bunds can be supplied as prefabricated sets to suit your requirements.

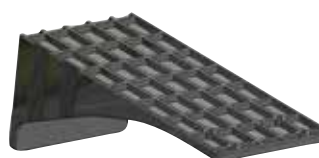
Please see page 322 for more information or call CertiChem on 01993 778855.



Tank sold separately



Recommended Accessories



Pump mounting bracket - page 325



Chemical dosing pump - page 321

Dosing Accessories



ORP probe /
electrode with
cable

pH probe / electrode
with cable



CDEEVLA

CDEECL3S/10



CDEPELC



CDEECL6



CDENPED4



Probes, Sensors & Accessories

| | | Price | |
|---|-------------|---|----------|
| Q | SPETPP | pH probe - no cable | £97.75 |
| Q | CDEERHSN6 | ORP (Redox) probe - no cable | £212.25 |
| Q | CDEEPHS | pH probe - 0.8m cable | £145.60 |
| Q | CDEEPMH | pH probe - 4.5m cable | £153.50 |
| Q | CDEEPLH | pH probe - 15m cable | £189.00 |
| Q | CDEERHS | ORP (Redox) probe - 0.8m cable | £153.50 |
| Q | CDEERHM | ORP (Redox) probe - 4.5m cable | £164.00 |
| Q | CDEERHL | ORP (Redox) probe - 15m cable | £191.00 |
| Q | CDEELE/PRLD | Copper/Platinum ECL6 Electrode for LD controllers | £570.00 |
| Q | CDEELE/PRWD | Copper/Platinum ECL6 Electrode for WD controllers | £570.00 |
| Q | CDEECL3S/10 | Free chlorine amperometric probe - 0-10ppm | £1812.00 |
| Q | CDEMC | Membrane cap & cleaning cloth to suit CDEECL3S/10 | £180.00 |
| Q | CDEES | Electrolyte solution to suit CDEECL3S/10 | £110.00 |
| Q | CDEECL6 | Free Chlorine / Bromine amperometric cell - 0-10ppm | £1515.00 |
| Q | CDEECL4 | Free Chlorine / Bromine amperometric cell - 0-10ppm | £840.00 |
| Q | CDEPEF22 | 5 probe holder - Free, Total, pH and temperature probes | £835.00 |
| Q | CDEPEF1 | 4 probe holder - Free, pH, ORP and temperature probes | £675.00 |
| Q | CDENFILCA | Carbon filter - 5" filter with cartridge - 6 x 8 connections | £92.00 |
| Q | CDENFIL/60 | 5" Standard Pre filter with cartridge - 60 micron - 6 x 8 connections | £56.00 |
| Q | CDENPED4 | 2 probe holder - pH & Redox - 6 x 8 connections | £215.00 |
| Q | CDEPELC | In-line saddle single probe holder - pH or ORP 0.5" or 0.75" | £16.15 |
| Q | CDEPEL | In-line tee single probe holder - pH or ORP - 0.5" or 0.75" | £17.00 |
| Q | CDESEFLS/V | Flow sensors for pumps up to 4 Ltr / hr - includes brackets | £185.00 |
| Q | CDESEFLS/V+ | Flow sensors for pumps above 4 Ltr / hr - includes brackets | £185.00 |

Electrovalves - For Use With Feeders

| | | Price | |
|---|-----------|-------------------------------|---------|
| Q | CDEEVLA14 | Electrovalve 1/4" connections | £260.00 |
| Q | CDEBSA38 | Electrovalve 3/8" connections | £265.00 |
| Q | CDEBSB12 | Electrovalve 1/2" connections | £281.50 |
| Q | CDEBSC34 | Electrovalve 3/4" connections | £552.00 |

Tubing

| | | Price | |
|---|--------------|--|---------|
| Q | FT4222LD/30 | 4mm ID x 6mm OD LDPE tubing - 30m coil | £39.00 |
| Q | FT4222/30 | 4mm ID x 6mm OD PVC tubing - 30m coil | £37.40 |
| Q | FT4223LD/30 | 6mm ID x 8mm OD LDPE tubing - 30m coil | £43.70 |
| Q | FT4223/30 | 6mm ID x 8mm OD PVC tubing - 30m coil | £53.50 |
| Q | ETCHH03LD/50 | 10mm ID x 14mm OD LDPE tubing - 50m coil | £285.00 |
| Q | ETCHH03/50 | 10mm ID x 14mm OD PVC tubing - 50m coil | £205.00 |



Safety Products

Health & Safety Wear - Personal Protection Equipment

| | | Price | |
|---|----------|--|---------|
| G | PEEWF | 500ml Steripack eyewash fluid - bottle | £8.20 |
| Q | CDEPPE | Basic PPE pack - gloves, goggles, full face mask | £87.00 |
| Q | CDEPPDLX | Deluxe PPE pack - gloves, goggles, full face respirator including canister | £325.00 |
| Q | PEGL | 18" long arm gauntlets - pair | £7.50 |
| G | PEGS | Pair of 11" gloves | £5.85 |
| G | PEGG | Goggles - chemical resistant / fog free | £9.80 |
| G | PEES | Emergency eyewash station | £38.85 |
| G | PEAPR | Polypropylene apron, bib with ties | £10.70 |
| G | PERSP | 3M Respirator, Ref 4277 includes Pre-filter & retainers | £50.00 |
| G | PEFFM | Full face mask with canister respirator | £240.00 |
| G | PEFFMC | Refill canister for PEFFM respirator | £45.00 |
| E | PEO69 | Shoe covers (disposable) 50 pairs per bag | £7.50 |

Tank Safety Labels & Spill Kits

| | | Price | |
|---|---------|---|---------|
| Q | LBL01 | Sodium hypochlorite label | £8.60 |
| Q | LBL02 | Sodium carbonate (soda ash) label | £8.60 |
| Q | LBL03 | Sodium bisulphate label | £8.60 |
| Q | LBL05 | Hydrochloric acid label | £8.60 |
| Q | LBL08 | Calcium hypochlorite label | £8.60 |
| G | SPILLO1 | Spill kit - small - includes 25 pads, 4 socks, 2 cushions, 1 slab, disposable bag & tie, gloves and goggles | £89.00 |
| G | SPILLO2 | Spill kit - large - as above with 50 pads | £120.00 |



Dosing Accessories



Suction Lance & Level Control

| | | Price |
|---|--|----------------|
| Q | CDELASP/V40 Carboy lance & level control - 45cm - 4 x 6 connections | £145.00 |
| Q | CDELASP/V6 Suction lance & level control - 63cm - 4 x 6 connections | £131.00 |
| Q | CDELASP/V7 Suction lance & level control - 72cm - 4 x 6 connections | £131.00 |
| Q | CDELASP/V9 Suction lance & level control - 90cm - 4 x 6 connections | £152.00 |
| Q | CDELASP/V10 Suction lance & level control - 115cm - 4 x 6 connections | £152.00 |



Multifunction Pressure Valve

| | | Price |
|---|---|----------------|
| Q | CDEMFKV Multifunction pressure valve pump mount - 4 x 6 conns | £116.00 |
| Q | CDEMFKSV Multifunction pressure valve wall mount - 4 x 6 conns | £116.00 |



Electric Mixers - Single Phase

| | | Price |
|---|---|----------------|
| Q | CDEMIX8MON630 High speed mixer (1400rpm) 630mm shaft | £590.00 |
| Q | CDEMIX8MON830 High speed mixer (1400rpm) 830mm shaft | £590.00 |
| Q | CDEMIX8MON980 High speed mixer (1400rpm) 980mm shaft | £642.00 |
| Q | CDEMIX8MON630 Low speed mixer (65 or 200rpm) 630mm shaft | £810.00 |
| Q | CDEMIX8MON830 Low speed mixer (65 or 200rpm) 830mm shaft | £810.00 |
| Q | CDEMIX8MON1100 Low speed mixer (65 or 200rpm) 1100mm shaft | £950.00 |

Please specify rpm required at the point of ordering low speed mixers.
High speed recommended for use with Cal Hypo.



Electric Mixers - Three Phase

| | | Price |
|---|---|----------------|
| Q | CDEMIX8TRI630 High speed mixer (1400rpm) 630mm shaft | £624.00 |
| Q | CDEMIX8TRI830 High speed mixer (1400rpm) 830mm shaft | £640.00 |
| Q | CDEMIX8TRI980 High speed mixer (1400rpm) 980mm shaft | £640.00 |
| Q | CDEMIX8TRI630 Low speed mixer (65 or 200rpm) 630mm shaft | £857.00 |
| Q | CDEMIX8TRI830 Low speed mixer (65 or 200rpm) 830mm shaft | £857.00 |
| Q | CDEMIX8TRI1100 Low speed mixer (65 or 200rpm) 1100mm shaft | £950.00 |

Please specify rpm required at the point of ordering low speed mixers.
High speed recommended for use with Cal Hypo.



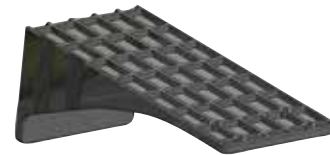
Manual Agitators

| | | Price |
|---|---|----------------|
| Q | CDEMIXMAN600 Manual agitator 600mm shaft | £103.00 |
| Q | CDEMIXMAN700 Manual agitator 700mm shaft | £170.00 |
| Q | CDEMIXMAN800 Manual agitator 800mm shaft | £177.00 |



Withdrawable Injector Valve

| | | Price |
|---|---|----------------|
| Q | SPEM07311631 Double Junction injection valves - 1/2" 4 x 6 connections | £47.10 |
| Q | SPEM07310621 Standard injection valve - 1/2" 4 x 6 connections | £33.55 |
| Q | SPEM07310841 Floc injection valve - 1/2" 4 x 6 (5 bar) | £37.80 |
| Q | CDELINRV Withdrawable injection valve - 1/2" 4 x 6 connections | £140.00 |
| Q | SPEMDROD Rodable injection valve - 1/2" 4 x 6 connections | £399.50 |



Mounting Bracket

| | | Price |
|---|--|---------------|
| Q | CDESTVN Wall / foot mounted pump mounting bracket | £21.50 |



Level Probes

| | | Price |
|---|--|---------------|
| Q | CDE07601471 Level probe 4 x 6 - with filter and BNC connector | £51.55 |
| Q | CDE07602001 Level probe 6 x 8 - with filter and BNC connector | £51.55 |



Buffer Solutions

| | | Price |
|---|--|---------------|
| Q | CDEBSD Buffer Solution ORP Redox 650mV - 55ml | £12.85 |
| Q | CDEBSA Buffer Solution pH 4 - 55ml | £6.95 |
| Q | CDEBSB Buffer Solution pH 7 - 55ml | £6.95 |
| Q | CDEBSC Buffer Solution pH9 - 55ml | £6.95 |

Safety & Containment

Every site, regardless of type and size, should give consideration to the safety of its operators and users. This is especially important within the plant room. There is a wide variety of Personal Protective Equipment (PPE) available. Risk assessments should be generated to cover every aspect of chemical dosing equipment operation. Guidance notes are available from a number of sources such as SPATA, BISHTA and HSE.



Personal Protective Equipment

| | | Price | |
|---|----------|--|---------|
| G | PEEWF | 500ml Eyewash fluid bottle | £8.20 |
| Q | CDEPPE | Basic PPE Pack- gloves, goggle and full facemask | £87.00 |
| Q | CDEPPDLX | Deluxe PPE Pack- gloves, full face respirator & canister | £325.00 |
| Q | PEGL | 18" Long arm gauntlets - pair | £7.50 |
| G | PEGS | 11" Gloves - pair | £5.85 |
| G | PEGG | Goggles - Chemically resistant / fog free | £9.80 |
| G | PEES | Emergency Eyewash Station | £38.85 |
| G | PEAPR | Polypropylene apron with ties | £10.70 |
| G | PERSP | 3m Respirator including pre-filter | £50.00 |
| G | PEFFM | Full face Respirator - includes canister | £240.00 |
| G | PEFFMC | Refill canister for full face respirator | £45.00 |
| E | PE069 | Disposable shoe covers - 150 pairs | £7.50 |

Spill Kits

| | | Price | |
|---|---------|---|---------|
| G | SPILLO1 | Spill Kit - Small - Includes 25 pads, 4 socks, 2 cushions, 1 slab, disposable bag and tie, gloves and goggles | £89.00 |
| G | SPILLO2 | Spill Kit - Large - as above with 50 pads | £120.00 |

GRP Enclosures

For ultimate containment, chemical dosing equipment can be housed within GRP enclosures. Featuring a clear window, operating status can be viewed without exposure. Power and hydraulic isolators are external to the cabinet enabling control without ingress.

LED status lights can also be provided - green/red indicating status.

GRP enclosures are available in a range of sizes to house standalone chemical pumps to every aspect of a monitoring and dosing system.

GRP Enclosure

| | | Price | |
|---|--------|---|-----|
| - | GRPMO | 800mm X 600mm x 300mm GRP enclosure to suit monitoring panel | POA |
| - | GRPPU | 600mm x 500mm x 230mm GRP enclosure to suit single chemical dosing pump | POA |
| - | GRPLED | LED status lights - monitoring panels only | POA |

Use of GRP enclosures will require on site pipe work modification - please speak with the CertiChem team for more information.

Chemical Dosing Questionnaire



Basic Details

Pool: Spa: Hydrotherapy: Indoor: Outdoor: Domestic:

Capacity (m3) Turnover rate (hours) Commercial:

Max Daily Bather Load Max peak bather load Heavy Commercial:

Any other relevant information (water features, flumes, hydrotherapy, paddling pool etc)

Incoming Water Supply

Total Alkalinity (ppm) Total dissolved solids TDS (ppm) Calcium hardness (ppm) pH

Chemical Requirements: (please specify)

| | Currently In Use | Requested |
|--|----------------------|----------------------|
| Sanitiser: (Sodium Hypochlorite, Calcium Hypochlorite etc) | <input type="text"/> | <input type="text"/> |
| pH Correction: (Sodium Bisulphate, Hydrochloric Acid, CO2 etc) | <input type="text"/> | <input type="text"/> |
| Ozone: | <input type="text"/> | <input type="text"/> |
| Additional Chemicals / Equipment: (Cyanuric Acid, UV plant etc) | <input type="text"/> | <input type="text"/> |
| Flocculant Dosing: (PWTAG guidance recommended against floc dosing with high rate filters) | <input type="text"/> | <input type="text"/> |

Plant Room:

Plant room is ABOVE the pool / spa level Plant room is BELOW the pool / spa level

Space limitations or access issues?

Audible alarm (buzzer etc) Remote alarm (SMS,Email)

Visual alarm (flashing lights) Remote Connectivity (PC/MAC)

On Site Support

Pre-site visit required (recommended)

Installation, commissioning & training reqd

Site Address:

Other comments / information

Finished? You can either Fax to 01993 778869 or Email: certichem@certikin.co.uk, the completed form to the CertiChem team. If you have any questions contact the team on 01993 777200.



The UK's leading supplier of equipment for professional therapists

Affinity is synonymous with quality. Therapy Essentials have been providing couches and associated equipment to the therapy industry for over 15 years.

Our range has been carefully created to offer professional products that span the spa and beauty, holistic and sports and medical markets.

With client comfort and therapist wellbeing our prime consideration, our ergonomic designs have been manufactured to the highest quality, using only the best raw materials to produce a large range of couches that are enjoyed in leading spas, hotels, salons, sports clubs, hospices and wellness centres both in the UK and across the globe.

The range can be viewed on pages 386 to 395 in the price list.

Call Maxine or Bridget on 01993 777770 or E:Therapy-essentials@certikin.co.uk for more details.



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