



## CHEMICAL DOSING SOLUTIONS



Rethinking Water



## Compact

- › 2.5m<sup>3</sup> storage
- › Single/dual dosing pumps
- › Offers a quick solution for small storage system
- › Simple to install with minimum site requirements



## IBC

- › 1 - 2m<sup>3</sup> storage
- › Single/dual dosing pumps
- › Equipped with an MCC for full automation
- › Two IBCs are installed in a secure kiosk allowing for easy replacement



## Agile

- › 1m<sup>3</sup> storage
- › Single/dual dosing pumps
- › Externally mounted IBC with a kiosk housing pumps and sensors to monitor level and flow



## Integral

- › 5 - 60m<sup>3</sup> storage
- › Incorporates an integral bund, MCC and 2+ dosing pumps
- › Offering minimum civil requirements for a complete installation



## Solo

- › 5 - 60m<sup>3</sup> storage
- › Incorporates a chemical storage tank, MCC and 2+ dosing pumps
- › Must be installed in a civil bund



## Complex

- › 5 - 100+m<sup>3</sup> storage
- › EPS offer solutions for more complex dosing systems incorporating 10+ pumps
- › Dual storage tanks, and a high level of automation

## Service Overview

Our offering for chemical dosing goes beyond the design manufacture and installation of products. We adopt a lifecycle approach to our systems, taking each enquiry from concept stage through to completion and into the aftercare phase to ensure that our clients realise best whole-life outcomes. This begins in the development of the concept design, product choice and material selection and is locked in as part of our digital design service. After the system is commissioned, we can offer a range of aftercare packages to suit specific needs and to help maintain equipment availability and efficiency - for example:

- Extended commissioning services to optimise performance and upskill operators
- Planned and proactive maintenance programmes
- Emergency reactive maintenance on a service agreement basis
- Operator training services





**With over 30 years track record in the delivery of chemical dosing solutions, EPS offer unparalleled experience and expertise to our dosing customers in the water and wastewater sector.**

The success of our customer-led approach and our product offering is evidenced by our market reach and our ability to meet efficiency targets and roll over our water company dosing frameworks. EPS present a broad range of standard dosing products to suit almost every application, backed up by the know-how and resources to deliver fully integrated bespoke systems where required.

As operators of over 200 municipal and industrial treatment plants, we design our dosing systems with the safety and convenience of the operator in mind, and also ensure that equipment serviceability is facilitated and robust environmental safeguards are in place.

With the opening of our Centre for Design & Manufacturing Excellence (CfdME) in 2017, we have multiplied our output capacity to meet the increasing level of demand in the market and to further enhance the quality and efficiency of our chemical dosing systems.

Please read on and contact one of our expert team to discover more.



**Chemical Range Includes:**

- › Sodium Hypochlorite
- › Ammonium Sulphate
- › Ferric Sulphate
- › Aluminium Sulphate
- › Ferrous Chloride
- › Poly Aluminium Chloride
- › Hydrochloric Acid
- › Sodium Hydroxide (Caustic)
- › Orthophosphoric Acid
- › Citric Acid

## Purpose

EPS dosing systems are designed and constructed with our ethos for operator safety and ease of use to the fore. We have collaborated with several utility companies in developing standard dosing systems which combines this ethos with specific requirements for each utility company.

We also have a range of standardised 'ready-to-go' kiosks for industrial applications.

The basis of all designs incorporate high quality kiosks, panels, pumps, instruments etc. which are assembled and tested at our centre of excellence.

All rigs are designed in-house with the latest 3D modelling software which enables us to enhance and develop our standard products to our clients requirements and criteria.

Our CfDME facility allows us to assemble at least two standard systems per week, bespoke systems may require additional approval and manufacturing time to complete. All units are fully factory tested before dispatching and we encourage clients to attend and review our testing regime.

## Features

- › Standard designs available
- › Customised designs to suit specific needs
- › Minimal site assembly
- › Complete automation
- › Fully factory tested



## Chemical Dosing Kiosks

CATEGORY	TYPE	FLOW	TANK	HEIGHT
	<b>Pump</b>	<b>L/hr</b>	<b>L</b>	<b>M</b>
<b>Compact</b>	Duty	60	2.5m <sup>3</sup> + dia	1.6
<b>IBC</b>	Up to 2	120	1m	1
<b>Agile</b>	Up to 2	120	1m	1
<b>Integral</b>	2+	120	2m + dia	5
<b>Solo</b>	2+	700	4m + dia	6+
<b>Complex</b>	2+	700	4m + dia	10+

## Purpose

We source tanks from a number of high quality providers within the UK. This allows us the flexibility to use a variety of suppliers when demand is increased without impacting on delivery timeframes.

We offer integral bunded tanks which can reduce costs and the site work associated with civil bunds. Our tanks are manufactured the highest quality and adhere to all relevant ISO & British Standards.

Chemical storage tanks are typically manufactured using a high chemical resistant HDPE or in high chemical resistant isophthalic resin glass fibre laminate. We can advise you on selecting the right tank for your requirements.

We can customise external finishes to suit - including colour selection. Internal finishes are chemical resistant gloss surface reinforced with glass veil. Tanks are fully spark tested and certified prior to delivery to check the tank integrity.

## Features

- › Available from 5,000 - 160,000 litres
- › Available diameters: 2000mm, 2400mm, 3050mm, 3500mm & 4111mm
- › Pneumatic type contents level indicator gauge complete with built in battery powered pump. 1 x 100mm NB flanged overflow c/w downpipe to low level
- › Flanged fittings c/w blank for customer's instruments
- › Drain c/w ball valve with extended handle and pipework
- › HDPE location bracket for customers steelwork
- › Engraved flexible laminate nameplate



## Chemical Storage Tanks

CATEGORY	STORAGE VOLUME	TANK DIAMETER	TANK HEIGHT
	M <sup>3</sup>	Dia	mm
GRP Composite	5,000	2000	2180
GRP Composite	7,500	2000	2980
GRP Composite	10,000	2000	3775
GRP Composite	15,000	2000	5365
GRP Composite	20,000	3050	3540
GRP Composite	30,000	3050	4910
GRP Composite	40,000	3050	6280
GRP Composite	60,000	4111	6290

## COMPACT UNIT

This unit incorporates a 2.5m<sup>3</sup> polyethylene storage tank contained completely within a bund. Pumps are housed within the bund cover which can be locked for security. This system can be configured with a single or dual pump arrangement.

A local PLC mounted on the side of the bund allows for diurnal/4-20mA control. The unit is capable of detecting leaks and will totalize chemical dosed. Once delivered and connected to a power source (single phase) and a dosing line the unit is ready to go. This is unit minimum fuss.



## IBC

The IBC unit incorporates a 2 x IBCs sitting in a prefabricated bund. A sliding cover protects the system from weather with easy access to replace IBCs.

Single/dual dosing pumps, the unit is equipped with a form 2 MCC for full automation. This system incorporates all the safety and automatic controls of a complete dosing system. Two IBCs are installed in a kiosk allowing for easy removal of IBCs.



## AGILE

This consists of a small kiosk containing single/dual dosing pumps with a hardwired 4-20mA connection for dosing control. Ideal for simple applications, pilot trials, small spaces and temporary dosing requirements.

Storage is a banded IBC, externally mounted, which included level control of the bund. Flow/pressure/backpressure controls can be added to suit the client's requirements.



## INTEGRAL

An integrally bundled storage tank (5 – 20m<sup>3</sup> Storage) mounted on a flat plinth c/w a dosing kiosk containing a bundled pump section with flow/pressure/leak sensors for each dosing pump. Up to 4 pumps can be catered for as standard, each one contained in a discrete section. A local MCC in an additional section of the kiosk includes a PLC/HMI for full interrogation and control.

For larger systems 10m<sup>3</sup>+ a platform is included to allow the kiosk to drain to the integral bund.



## SOLO

5 – 60m<sup>3</sup> storage. A civil bund provided by others will contain the storage tank. The dosing kiosk will be positioned over the bund wall to allow all spills to drain to the civil bund. The kiosk will contain a bundled pump section with flow/pressure/leak sensors for each dosing pump.

Up to 4 pumps can be catered for as standard, each one contained in a discrete section. A local MCC in an additional section of the kiosk includes a PLC/HMI for full interrogation and control.



## COMPLEX

We offer solutions for more complex dosing systems incorporating 10+ pumps, dual storage tanks, and a high level of automation. These bespoke systems are developed at our CfDME facility.

Full HAZOP studies are undertaken with clients. All software development is carried out in-house which allows for full control of any enhancements or changes requested by clients. Fabrication of access platforms/stairs etc. is also done in-house and adapted for clients particular requirements/specifications.





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