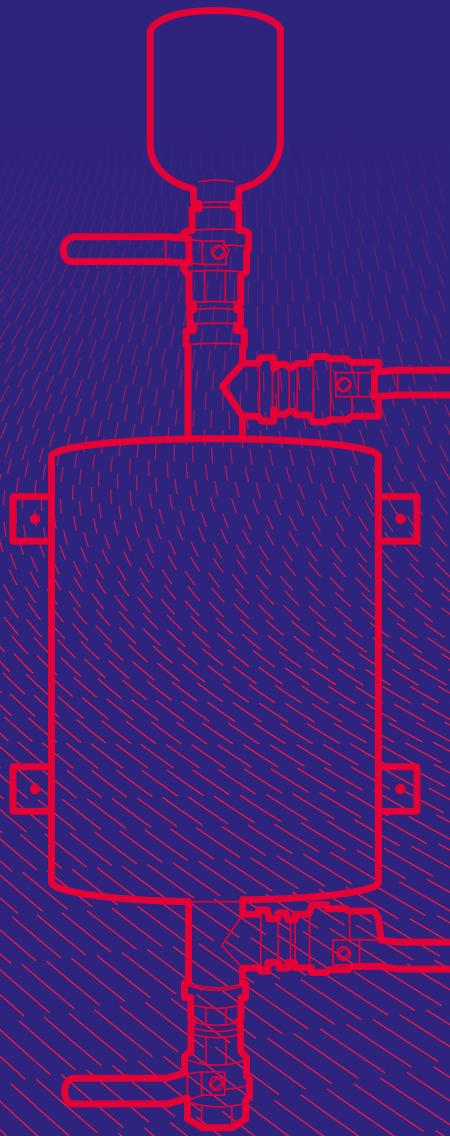
ADEY

Chemical Dosing Pot

Installation and servicing



THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2017

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2018

Chemical Dosing Pot

The chemical dosing pot range offers an excellent, controlled and safe method of introducing chemicals into heating and chilled water systems whilst not interrupting system operation.

The chemical dosing pots are supplied fully assembled for ease of installation and as a complete package which consists of the following: powder coated mild steel vessel, inlet (return), outlet (flow), drain and filling valves, tundish, air release valve and wall mounting bracket.

This product has a limited 2 year warranty.

Pressure Equipment Directive 2014/68/EU

Dosing pots conform to the requirements of Pressure Equipment Directive 2014/68/EU and are designed and manufactured according to Sound Engineering Practice (S.E.P).

WARNING: To prevent scalding safe practice must be observed when venting or draining hot water at pressure.

Technical specification

Chemical Dosing Pot	3.5L	6.0L	11.0L	18.0L
Product code	FL1-03-04728	FL1-03-04312	FL1-03-04313	FL1-03-04314
Material specification				
Fittings	Galvanised Malleable Iron			
Body	Carbon steel			
Valves	Brass			
Tundish	Mild Steel			
Finish	Powder coated RAL5005			
Design specification				
Maximum working pressure	10Bar			
Minimum working pressure	0.5Bar			
Maximum operating temperature	99°C			
Minimum operating temperature	0°C			
Ambient operating temperature	1°C TO 40°C			
Weight (Kg)	13.0	17.0	21.0	29.0
Dimensions	See technical drawings			

Selection & sizing

The size of dosing pot installed in a system is not critical as multiple doses of chemicals can be put in to the system to reach the correct concentration.

The benefit of using a smaller unit, is that it is easier to physically handle and also allows for more accurate dosing. However, the time on site for performing multiple doses has to be considered. This factor should influence your decision when selecting dosing pots.

Chilled water systems generally require higher concentrations of dosing chemical, usually glycol, to be dosed into the system. A larger dosing pot may be required for chilled water systems.

The formula below can be used as a guide when using inhibitor at 0.40%* dilution to help you in your selection:

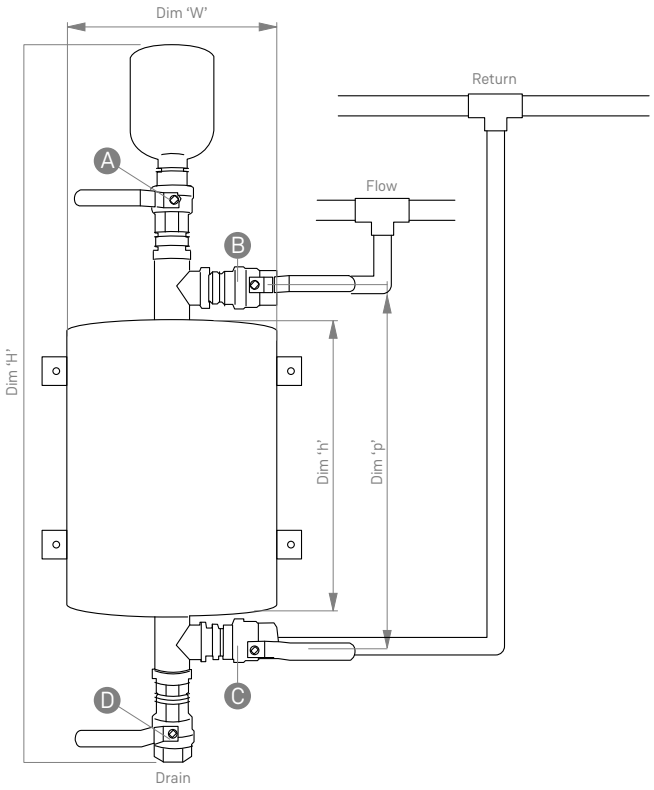
Boiler Power (kW) x 12 Litres/kW x 0.40% = Volume of chemical required. For example: Boiler power 250kW x 12 Litres x 0.0040% = 12 litres of chemical.

In this example, you would specify a 6 litre dosing pot from which you would dose the system twice.

*The required concentration level for the chemical being used must be checked before calculating dosage level amounts.

Installation & maintenance

Size (Litres)	H (mm)	h (mm)	W (mm)	P (mm)	A	B	C	D	Weight (Kg)
3.5	770	186	168	294	1"	1"	1"	1"	13
6	770	250	220	356	1"	1"	1"	1"	17
11	885	365	220	470	1"	1"	1"	1"	21
18	1150	590	220	658	1"	1"	1"	1"	29



Dosing pot

IMPORTANT! Always read instructions

It is important that the Chemical Dosing Pot is installed correctly into the system to allow for rapid chemical feed. This is best achieved by connecting across the main flow/return pipework. Ideally, the flow (hot) connection should be made to the top of the dosing pot and the return (cold) to the bottom.

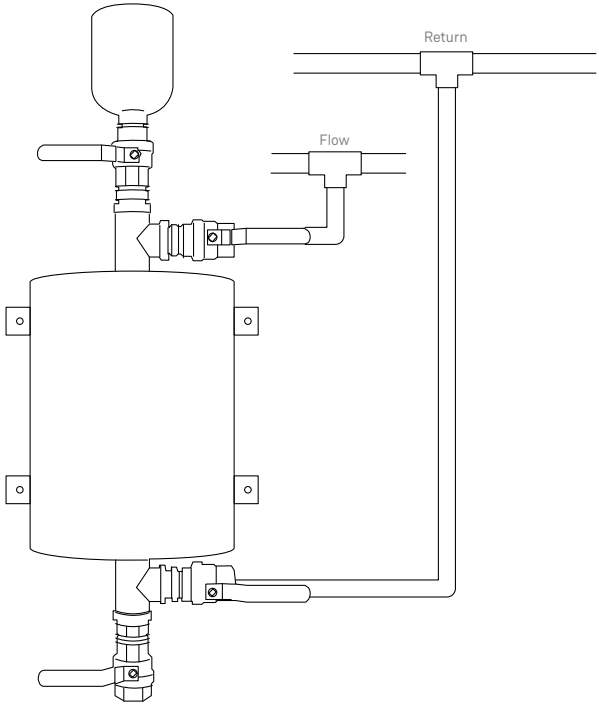
General checks - Pre-install

1. Is the selected unit suitable for the type and volume of chemical?
2. Is there sufficient space to fit the selected unit?
3. Is there sufficient support in the installation area to take the weight of the unit when full?
4. Do you have facilities to be able to fill and drain the unit effectively?

Installation

To ensure a fast, but safe dispersal of the chemical dose, it is important that the unit is installed correctly.

1. Install the unit between the flow and return pipework at the point with the highest differential pressure.
2. Ensure the unit is securely fixed to a wall using the integral wall mounting brackets.
3. Make certain that there is suitable space beneath the unit for collection of any discharged fluid.



Dosing pot

General checks - Post-install

1. Are the unit, valves or vents damaged, or showing signs of corrosion?
2. Are there any leaks or signs of leaks?
3. Is the unit correctly attached to a drain, or are facilities for draining adequate?
4. Ensure the unit is isolated before opening drain or blow off valves.

Operation

ENSURE UNIT IS ISOLATED - Close all valves.

DRAIN THE UNIT - Open the drain valve first, followed by the fill valve.

FILL THE UNIT - Close the drain valve and pour dosing chemical into the unit through the tundish.

VENT THE UNIT - Open the integrated air vent until air has been purged out. Close all opened valves.

BEGIN DOSING - Fully open the inlet and outlet valves slowly.

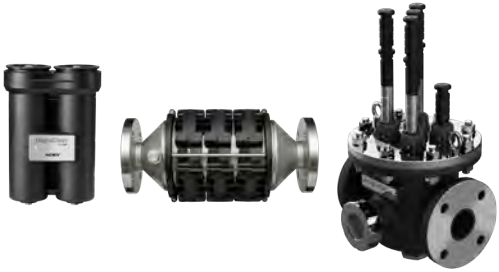
COMPLETE DOSING - Close all valves when dosing has completed. Repeat the above steps if necessary.

Maintenance

After long term use the valves may require replacement. The dosing pot should be checked annually for corrosion wear. 1mm corrosion allowance is provided for in the design. If corrosion is found to be greater than 1mm then the dosing pot will need changing.

WARNING: To prevent scalding safe practice must be observed when venting or draining hot water at pressure.

ADEY Commercial Products



MagnaClean® filters

Commercial heating system efficiency is critical and ADEY's range of commercial products delivers results. The proven *MagnaClean* technology effectively tackles black iron oxide sludge and system debris.

Due to the incredibly small particle size of black iron oxide, truly effective filtration can only be achieved by using a strong magnetic core as the primary filtration method. This process will work regardless of the size of particles passing through the heating system.

Air and Dirt Separator

ADEY's Air & Dirt Separators protect boilers, pumps and fittings used in sealed heating and cooling water systems, extending the service life of pumps, control equipment and other system accessories by filtering out micro air bubbles and dirt particles from the system water without interrupting a systems operation.

Commercial Water Testing

From sample drop-off, through refrigerated transport and professional, accredited laboratory analysis to delivering results to your inbox. Our industry leading water testing service provides a 'closed-loop' of reliability, convenience, accuracy and speed of response.

A full suite of chemical testing is available including metals, anions, solids, glycols and inhibitors.

A complete range of microbiological testing is also available including BSRIA, swimming pools, water hygiene and Legionella.

Award Winning Chemicals

ADEY's advanced chemical range has been created to provide a solution for the maintenance and protection of commercial heating systems. The *MC+* range has been specifically designed for use by professional installers as part of the Commercial Best Practice approach to heating system protection.

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adey.com

Produced from recycled material
A carbon neutral company

For the most up-to-date version of installation and serving instructions visit www.adey.com

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