

DOSING CUBE

Portable, fully enclosed Chemical dosing unit for temporary, emergency & Modular applications 0.025–150 l/hr

Principle

A portable fully enclosed chemical dosing system comprising a weatherproof Polyethylene rotationally moulded enclosure into which is fitted an Grundfos/Alldos Digital dosing pump complete with control valves, leak detection switch, control box with timer, etc.

Uses

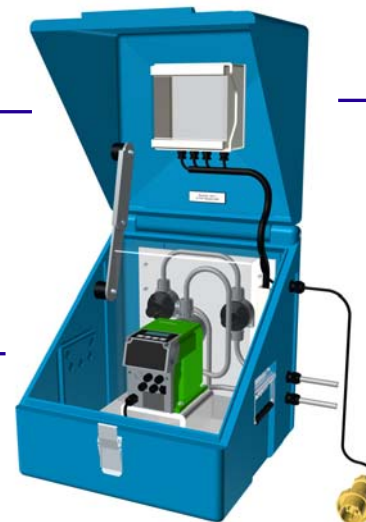
Designed primarily for temporary or emergency use to dose Chemical from an IBC or other existing storage vessel. The *CUBE* can also be used as an interchangeable modular system for permanent dosing systems.

Ease of Use

By utilising compact Alldos Digital dosing pumps which have a user interface that lets you enter the dosing rate you want directly on the screen, the *CUBE* enclosure can be small enough to be portable. Furthermore, with a very wide turndown ratio (100:1 for smaller pumps 800:1 for large pumps) and no need for complicated stroke rate calculations, the *CUBE* is truly “plug & play”.

Features:

- **Polyethylene enclosure** IP54 rated with integral drip-tray, resistant to most Chemicals, lockable toggle catch closure, carrying handles, clear window.
- **Grundfos/Alldos Digital Dosing Pump** allowing direct operator entry of dose rate. Also, allowing manual or auto operation modes with direct input of pulse or 4-20mA flow proportional control signals.
- **Dual contained pipework connections.** Suction & delivery pipework can be dual contained with the outer sleeves connected directly to the CUBE. Any pipework leakage is detected by the switch in the drip tray.
- **Control box** with 7 day/24 hour timer—can be simply set to stop/start at pre-set times. All *CUBE*'s are dual voltage 110 or 240v - 110v plug on flying lead supplied as standard.
- **Safety splash screen**—even with the lid open, the pump head, valves & pipework are covered with a clear uPVC screen.
- **Dose rates**—Models available allowing dose rates as low as 0.025 l/hr or up to 150 l/hr.
- **Drip tray/bund**—The integral drip tray will contain any leakage and the level switch will inhibit the pump. A drain plug allows any residual chemical to be drained safely.
- **Health & Safety**—With integral chemical containment, automatic leak detection cut-off & splash screens, etc. The *CUBE* provides a safe dosing system for both operator & environment.



Technical Specifications:

	Dosing CUBE size		
	DC20	DC60	DC150
Dimensions (mm—W x L x H)	450 x 450 x 480	450 x 450 x 480	450 x 450 x 480
Weight kg	14	23	24
Dosing Line	6 x 4 mm PTFE Tubing	19 x 13 reinforced PVC hose	19 x 13 reinforced PVC hose
Secondary containment	19 mm ID reinforced PVC hose	25 ID reinforced PVC hose	25 ID reinforced PVC hose
Material of Construction	Polyethylene Enclosure, uPVC valves, pipes & pump head. Other valve & pipe materials available.	Polyethylene Enclosure, uPVC valves, pipes & pump head. Other valve & pipe materials available.	Polyethylene Enclosure, uPVC valves, pipes & pump head. Other valve & pipe materials available.
Operating Voltage	Dual - 240 or 110 vAC (110v plug on lead supplied as standard)	Dual - 240 or 110 vAC (110v plug on lead supplied as standard)	Dual - 240 or 110 vAC (110v plug on lead supplied as standard)
Control	Via built-in controller. The programmable timer/controller allows stop/start times for dosing for each day of the week in increments of one hour. The unit has a 6 year battery back up memory. Further control options are available through the pumps inputs/outputs (I/O)		
Bund/Drip Tray	The <i>Cube</i> itself forms a bund, which incorporates a level switch for leak detection. The pump is turned off if a leak is detected.		
Safety/Splash Screens	2 off - Viewing window in lid section plus internal clear cover over pump head, valves & pipework. The internal cover allows full protection if the unit is opened whilst the pump is in operation.		
Digital Dosing Pump			
Dose rate Capacity l/hr	5 variants from 0.025 l/hr up to 20 l/hr max	0.075—60 l/hr	0.2—150 l/hr
Back pressure (bar)	3—10	10	4
Suction Lift (m) max	6	6	6
Head Material	Standard uPVC with options of PP/PVDF/SS	Standard uPVC with options of PP/PVDF/SS	Standard uPVC with options of PP/PVDF/SS
Turn down Ratio	100:1	800:1	800:1
Flow Displayed	Yes	Yes	Yes

Accessories & Options:

A full range of accessories including, suction & delivery hoses, suction lances, foot valves, injectors, support brackets, IBC;s, IBC bunds, storage tanks, etc. are available.

Options include materials of construction for pump head, valves & pipework to suit chemical to be conveyed. Control options including fully auto from run signals and/or flow proportional control signals.