

# PRODUCT DATA SHEET

## Chemical Dosing (CD)

water | wastewater | sewage

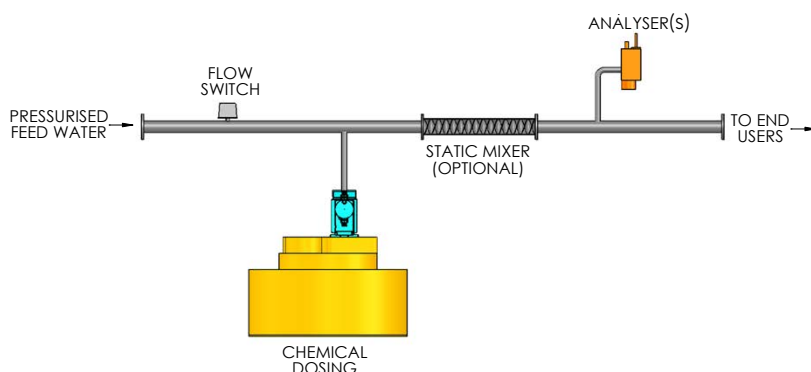


### OVERVIEW

MAK Water's Chemical Dosing (CD) skids are designed to automatically dose a chemical(s) into a pressurised pipeline. The package includes an inline sensor(s) (pH, ORP or free chlorine analyser) which monitors the desired output target.

When flow is detected in the pipeline, the dosing pump(s) is called online and the controller automatically adjusts the dosing pump(s) to dose the desired chemical. Up to three chemical dosing stations are available.

The system components are sized to suit the raw water flow rate and daily usage. Optional equipment upgrades include; a flow transmitter, a static mixer if required to improve mixing, duty standby dosing pumps, dual chemical dosing pumps (alkali/acid). MAK CD plants are available as skid mounted or containerised systems for easy deployment to remote locations.



### STANDARD SPECIFICATIONS

Parameter		Units	CD-020	CD-040	CD-060	CD-100
Chemical Storage Tank Size		L	20	40	60	100
Raw water	pH range	pH	4 ~ 10 (min/max)			
	Free chlorine	mg/L	0 - 2 (assumed)			
Effluent target	pH range	pH	4 ~ 10 (operator adjustable)			
	Free chlorine	mg/L	0 - 2 (operator adjustable)			
Raw water temperature		°C	15 ~ 35 (assumed)			
Ambient design temperature		°C	5 ~ 45			
Flow rate		m³/h	5 - 50			
Dosing pump flow rate		L/h	0.0025 to 7.5			
Pipe size		mm	25 - 100			
Operating pressure		kPa	600 inlet (max) 100kPa pressure drop			
Power supply		-	AC 240V, 1 phase, 50Hz			
Power consumption (approx.)		kW	0.5			
Skid size		mm	Single chemical 750 x 560 x 1,510			
			Two chemicals: 1,300 x 560 x 1,510			
			Three chemicals: 2,000 x 560 x 1,510			

## STANDARD INCLUSIONS + OPTIONS

✓ = Standard Supply   o = Optional Supply   - = Not Applicable

Equipment	CD-020	CD-040	CD-060	CD-100
Skid Mounted Plant	✓	✓	✓	✓
Chemical Dosing Pump	✓	✓	✓	✓
Bunded Chemical Storage Tank	✓	✓	✓	✓
Control System with Local Indicator (standard)	✓	✓	✓	✓
Static Mixer	✓	✓	✓	✓
12L dosing pump	-	-	-	✓

## STANDARD INSTRUMENTATION

Instrumentation	pH correction dosing	Disinfection dosing	De-chlorination dosing	Other dosing
Flow Switch	✓	✓	✓	✓
Float Switch (chemical storage tank)	✓	✓	✓	✓
pH Analyser (4-20mA)	✓	✓	-	-
Chlorine analyser	-	✓	-	-
ORP Analyser	-	-	✓	-

## MODEL SELECTION

- 20**   20 L - Chemical storage tank size  
**40**   40 L - Chemical storage tank size  
**60**   60 L - Chemical storage tank size  
**100**   100 L - Chemical storage tank size  
**A**   Acid dosing  
**B**   Alkali dosing  
**C**   Disinfection dosing  
**D**   De-chlorination dosing  
**E**   Acid & alkali dosing  
**F**   Acid & disinfection dosing  
**G**   Alkali & disinfection dosing  
**H**   Acid & de-chlorination dosing  
**I**   Alkali & de-chlorination dosing  
**J**   Acid, Alkali & de-chlorination dosing  
**K**   Acid, Alkali & disinfection dosing  
**O**   Other chemical dosing  
**12**   12L dosing pump  
**SP**   Slurry pump

CD   \_ \_ \_

### NEED A QUOTE?

COMPLETE THIS TABLE  
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