PRODUCT DATA SHEET

Chlorine Gas Disinfection Recirculation (CGDR)

water | wastewater | sewage

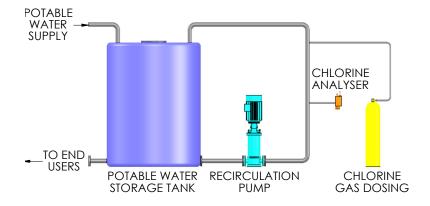


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MAK Water's Chlorine Gas Disinfection Recirculation (CGDR) Plants are designed to automatically maintain the correct amount of free chlorine in a potable water storage tank, in accordance with Australian Drinking Water Guidelines (ADWG). The standard treatment process includes a recirculation pump to turn over the contents of the potable water storage tank twice in a 24 hour period, an inline chlorine analyser which monitors residual free chlorine and a dosing system to automatically dose chlorine gas as required.

The system components are sized to suit the potable water storage tank and daily water usage. Options are provided for duty standby recirculation and dosing systems to improve plant reliability. MAK Chlorine Gas Disinfection Plants are available as skid mounted, or be manufactured into a purpose built container, insulated and air conditioned.





STANDARD SPECIFICATIONS

Parameter	Units	CGDR-25	CGDR-100	CGDR-250	CGDR-500	CGDR-1000	CGDR-2500	CGDR-5000
Potable Water Storage Tank	m³	25	100	250	500	1000	2500	5000
Free Chlorine Residual (target)	mg/L	0.2 ~ 2 (as per Australian Drinking Water Guidelines ADWG)						
Raw Water Temperature	°C	15 ~ 35						
Ambient Design Temperature	°C	5 ~ 35 (15 ~ 30 for insulated containerised system)						
Feed Water Inlet Pressure	kPa	> 15 (flooded suction from tank)						
Recirculation Pump Flow Rate	m³/hr	2.08	8.33	20.83	41.66	83.33	208.33	416.66
Recirculation Pressure	kPa	100 ~ 200						
Power Supply	-	AC 240V, 1 phase, 50Hz or AC 415 V, 3 Phase, 50 Hz						
Power Consumption (approx.)	kW	1	1.5	2.5	3.5	6.0	16	47
Container Size	ft	20						



STANDARD INCLUSIONS + OPTIONS

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

Equipment	CGDR-25	CGDR-100	CGDR-250	CGDR-500	CGDR-1000	CGDR-2500	CGDR-5000
Skid Mounted Plant	✓	✓	✓	✓	✓	✓	✓
Recirculation Pump	✓	✓	✓	✓	✓	✓	✓
Chlorine Dosing System	✓	✓	✓	✓	✓	✓	✓
Amperometric Chlorine Analyser	✓	✓	✓	√	✓	✓	✓
Space for uninstalled 70kg gas cylinder	1	✓	✓	✓	✓	✓	✓
Alarm Signal Output for Client Interface	√	✓	✓	1	✓	✓	✓
PLC Control System with HMI	✓	✓	✓	√	✓	✓	✓
Containerised System, c/w A/C & Lights	0	0	0	0	0	0	0
Container Non-slip Floor Coating	0	0	0	0	0	0	0
Container Insulation (walls & ceiling)	0	0	0	0	0	0	0
Duty Standby Recirculation Pumps	0	0	0	0	0	0	0
Duty Standby Dosing System	0	0	0	0	0	0	0
Safety Shower & Eyewash Station	0	0	0	0	0	0	0
Premium Instrumentation Package	0	0	0	0	0	0	0

Instrumentation	Standard Package	Premium Package	
Pressure Gauge (recirculation pump discharge)	✓	✓	
Pressure Switch (recirculation pump discharge)	✓	✓	
Amperometric Chlorine Analyser (4-20mA)	✓	✓	
Gas Cylinder Electronic Scale (with Bracket)	✓	✓	
Chlorine Gas Leak Detector	-	✓	
Automatic Shutdown on Leak Detection	-	✓	
Pressure Transmitter (4-20 mA)	-	✓	
Data Logger (residual chlorine)	-	✓	
Remote Monitoring & Control Capabilities	-	✓	

MODEL SELECTION

0025 25 m³ Potable water storage tank size
0100 m³ Potable water storage tank size
0250 250 m³ Potable water storage tank size
0500 500 m³ Potable water storage tank size
1000 1000 m³ Potable water storage tank size
2500 2500 m³ Potable water storage tank size
5000 m³ Potable water storage tank size
5000 5000 m³ Potable water storage tank size
Custom Supply

- XX Skid Mounted Containerised Plant
- CX Containerised, Standard Supply
- CF Containerised with Floor Coating
- **CP** Containerised with Floor Coating & Insulation
 - X Standard Supply (single duty) Recirculation Pump
 - **D** Duty Standby Recirculation Pump
 - X Standard Supply (single duty) Dosing System
 - D Duty Standby
 - x Standard Instrument Package
 - P Premium Instrumentation Package, c/w Remote Monitoring
 - Custom Supply
 - X Without Safety Shower & Eyewash Station
 - S Safety Shower & Eyewash Station



NEED A QUOTE?

COMPLETE THIS TABLE AND EMAIL TO...

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Disclaimer: MAK Water is continuously updating and improving its products and services, so please contact us for more detailed information or to confirm specifications. MAK Water takes no responsibility for any errors resulting from the use of information contained within this document.

CGDR ____ _ _ _ _



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