

PRODUCT DATA SHEET

Sodium Hypochlorite Disinfection Recirculated (SHDR)

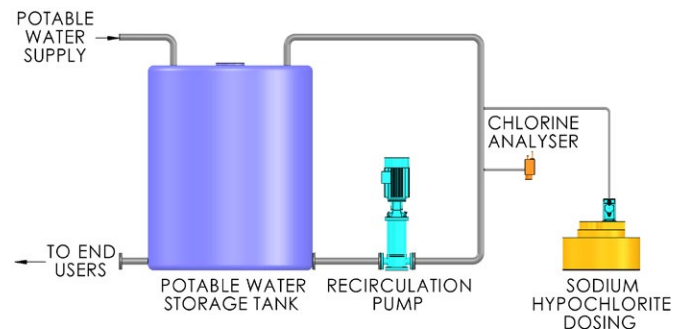
water | wastewater | sewage



OVERVIEW

MAK Water's Sodium Hypochlorite Disinfection Recirculated (SHDR) 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 pump to automatically dose liquid sodium hypochlorite 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 pumps to improve plant reliability. MAK Sodium Hypochlorite Disinfection Recirculated plants are available skid mounted for installation inside a building, or containerised with air conditioning to avoid chlorine degradation.



ADDITIONAL FLOW RATES AND CUSTOMISED SOLUTIONS ARE AVAILABLE. JUST ASK US.

STANDARD SPECIFICATIONS

Parameter	Units	SHDR-25	SHDR-100	SHDR-250	SHDR-500	SHDR-1000	SHDR-2500	SHDR-5000
Potable Water Storage Tank	m³	25	100	250	500	1,000	2,500	5,000
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 415V, 3 phase, 50 Hz						AC 415V, 3 phase, 50Hz
Power Consumption (approx.)	kW	1	1.5	2.5	3.5	6	16	47
Bunded Hypo Tank Size (approx. based on monthly refill)	L	60	60	100	200	300	1000	1500
Container Size (optional)	ft	10	10	10	10	10	10	20

STANDARD INCLUSIONS + OPTIONS

Equipment	SHDR-25	SHDR-100	SHDR-250	SHDR-500	SHDR-1000	SHDR-2500	SHDR-5000
Skid Mounted Plant	✓	✓	✓	✓	✓	✓	✓
Recirculation Pump	✓	✓	✓	✓	✓	✓	✓
Sodium Hypochlorite Dosing Pump	✓	✓	✓	✓	✓	✓	✓
Bunded Sodium Hypochlorite Storage Tank	✓	✓	✓	✓	✓	✓	✓
Chlorine Analyser	✓	✓	✓	✓	✓	✓	✓
PLC Control System with HMI	✓	✓	✓	✓	✓	✓	✓
Alarm Signal Output for Client Interface	✓	✓	✓	✓	✓	✓	✓
Containerised System, c/w A/C & Lights	o	o	o	o	o	o	o
Container Non-slip Floor Coating	✓	✓	✓	✓	✓	✓	o
Container Insulation (walls & ceiling)	o	o	o	o	o	o	o
Duty Standby Recirculation Pumps	o	o	o	o	o	o	o
Duty Standby Dosing Pumps	o	o	o	o	o	o	o
Safety Shower & Eyewash Station	o	o	o	o	o	o	o
Premium Instrumentation Package	o	o	o	o	o	o	o

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

Instrumentation	Standard Package	Premium Package
Pressure Gauge (recirculation pump discharge)	✓	✓
Pressure Switch (recirculation pump discharge)	✓	✓
Float Switch (chlorine storage tank)	✓	✓
Chlorine Analyser (4-20mA)	✓	✓
Level Transmitter (4-20 mA, hypo tank level)	-	✓
Data Logger (residual chlorine)	-	✓
Remote Monitoring & Control Capabilities	-	✓

MODEL SELECTION

0025 25m³ - storage tank size
0100 100m³ - storage tank size
0250 250m³ - storage tank size
0500 500m³ - storage tank size
1000 1000m³ - storage tank size
2500 2500m³ - storage tank size
5000 5000m³ - storage tank size
XXXX Custom tank (please nominate size)

XX Skid mounted
CX Containerised - standard
CF Containerised - with floor coatings
CP Containerised - with floor coatings & insulation
 X Recirculation pump (single duty) - standard
 D Recirculation pump (duty standby)
 X Dosing pump (single duty) - standard
 D Dosing pump (duty standby)
 X Safety shower & eyewash station - without
 S Safety shower & eyewash station - included
 X Standard instrument package
 P Premium instrument package, c/w remote monitoring
 C Custom instrument package

SHDR _ _ _ _ _

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.