

PRODUCT DATA SHEET

Sodium Hypochlorite Disinfection Flow (SHDF)

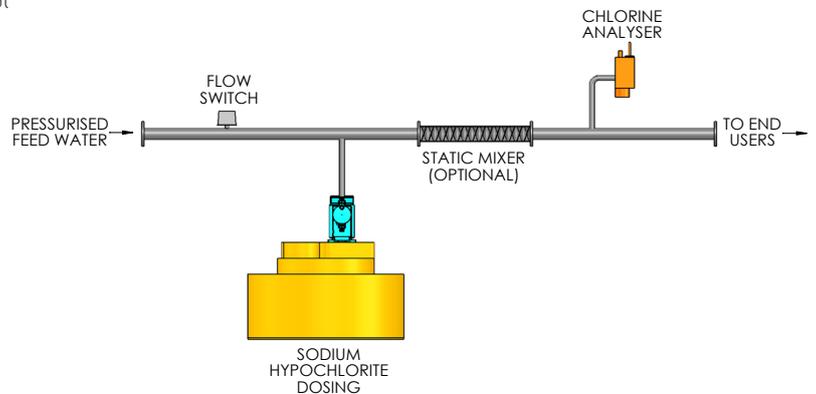
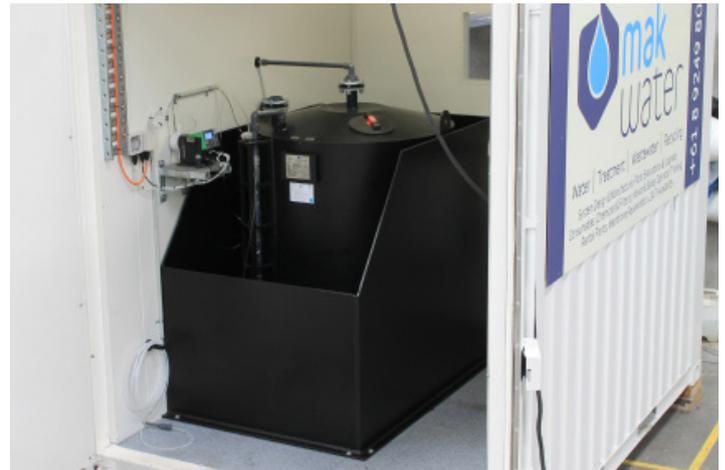
water | wastewater | sewage



OVERVIEW

MAK Water's Sodium Hypochlorite Disinfection Flow (SHDF) plants are designed to automatically maintain the correct amount of free chlorine in an existing reticulation line, in accordance with Australian Drinking Water Guidelines (ADWG). The standard treatment process includes an inline chlorine analyser which monitors residual free chlorine and a dosing pump to automatically dose liquid sodium hypochlorite as required, into the potable or treated water pipeline.

The system components are sized to suit the required chlorine usage rate and the sodium hypochlorite storage tank refill frequency. Options are provided for duty standby dosing pumps to improve plant reliability, a flow transmitter, a static mixer if required to improve mixing. MAK Sodium Hypochlorite Disinfection Flow plants are available as either skid mounted for internal or external installations, or containerised with air conditioning to avoid chlorine degradation.



STANDARD SPECIFICATIONS

Parameter	Units	SHDF-60	SHDF-100	SHDF-200	SHDF-500	SHDF-1000	SHDF-2500	SHDF-5000
Sodium Hypochlorite Storage Tank Size	L	60	100	200	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)						
Raw Water Flow Rate	m ³ /hr	0 ~ 1,000						
Raw Water Pressure	kPa	0 ~ 800						
Power Supply	-	AC 240V, 1 phase, 50Hz or AC 415V, 3 phase, 50 Hz						
Power Consumption (approx.)	kW	0.5						
Container Size (optional)	ft	1 x 10'	1 x 10'	1 x 10'	1 x 10'	1 x 10'	1 x 20'	1 x 20'

STANDARD INCLUSIONS + OPTIONS

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

Equipment	SHDF-60	SHDF-100	SHDF-200	SHDF-500	SHDF-1000	SHDF-2500	SHDF-5000
Skid Mounted Plant	✓	✓	✓	✓	✓	✓	✓
Sodium Hypochlorite Dosing Pump	✓	✓	✓	✓	✓	✓	✓
Bunded Sodium Hypochlorite Storage Tank	✓	✓	✓	✓	✓	✓	✓
Chlorine Analyser	✓	✓	✓	✓	✓	✓	✓
Control System	✓	✓	✓	✓	✓	✓	✓
Alarm Signal Output for Client Interface	✓	✓	✓	✓	✓	✓	✓
Containerised Plant c/w A/C & Lights	○	○	○	○	○	○	○
Container Non-slip Floor Coating	-	-	-	-	-	○	○
Container Insulation (walls & ceiling)	○	○	○	○	○	○	○
Container Side Access Door	-	-	-	-	-	○	○
Duty Standby Dosing Pumps	○	○	○	○	○	○	○
Flow Transmitter (existing reticulation line)	○	○	○	○	○	○	○
Static Mixer	○	○	○	○	○	○	○
Safety Shower & Eyewash Station	○	○	○	○	○	○	○
Solar Power System	○	○	○	○	○	○	○
Premium Instrumentation Package	○	○	○	○	○	○	○

Instrumentation	Standard Package	Premium Package
Pressure Switch (existing reticulation line)	✓	✓
Float Switch (sodium hypochlorite storage tank)	✓	✓
Chlorine Analyser (4-20mA)	✓	✓
Level Transmitter (4-20 mA, sodium hypochlorite storage tank)	-	✓
Data Logger (residual chlorine)	-	✓
Remote Monitoring & Control Capabilities	-	✓

MODEL SELECTION

- 0060** 60 L - Sodium hypochlorite storage tank size
- 0100** 100 L - Sodium hypochlorite storage tank size
- 0200** 200 L - Sodium hypochlorite storage tank size
- 0500** 500 L - Sodium hypochlorite storage tank size
- 1000** 1000 L - Sodium hypochlorite storage tank size
- 2500** 2500 L - Sodium hypochlorite storage tank size
- 5000** 5000 L - Sodium hypochlorite storage tank size
- XXXX** Custom tank (please nominate size)

- XX** Skid mounted
- CX** Containerised - standard
- CF** Containerised - with floor coating
- CP** Containerised - with floor coating & insulation
- X** Dosing pump (single duty) - standard
- D** Dosing pump (duty standby)
- X** Flow transmitter (existing reticulation line) - without
- F** Flow transmitter (existing reticulation line) - included
- X** Static mixer - without
- M** Static mixer - included
- 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

SHDF _____



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.

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