

PRODUCT DATA SHEET



Gravity Clarification (GC)

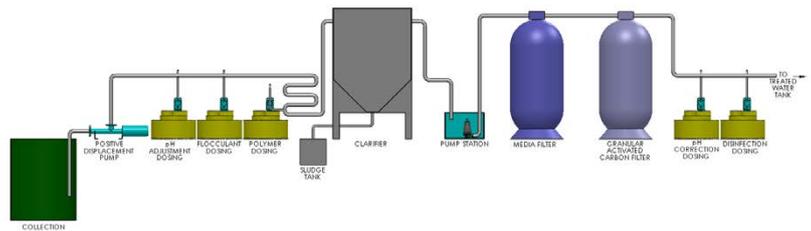
water | wastewater | sewage

OVERVIEW

MAK Water's Gravity Clarification (GC) systems are designed to clean water prior to reuse, or discharge to the sewer or the environment. These systems help to minimise the use of potable water or town water supplies while protecting the users and the environment from contaminants in the waste stream. MAK Water's Clearmake treatment systems are compliant with local Council, DEHP, DAFF and OH&S requirements.

Gravity Clarification is the process of clarifying water by using a flocculant to coagulate the suspended solids into heavier particles which then settle to the bottom of a tank/clarifier. Different contaminants can have different settling times so Gravity Clarification systems are designed to suit specific flow rates and factor in parameters such as types of contaminants, volume and surface area.

MAK Water has a range of Gravity Clarifiers to suit most flow rates, we are also able to custom design a treatment system to suit specific needs and contaminants. Some of the key benefits are very few moving parts, ability to manage continuous flow and capacity to treat a myriad of applications.



MAK Water draws upon over 20 years' experience of successfully designing, installing and commissioning Gravity Clarification systems.

STANDARD SPECIFICATIONS

Parameter	Units	GC-700	GC-1500	GC-3000	GC-5000	GC-10000
Standard Treatment Rate	L/hr	700L	1.5kL	3kL	5kL	10kL
Custom Flow Rates	L/hr	10kL+				
Sludge Volume	%	Up to 15 ~ 20 (varies according to feed water quality and system configuration)				
TSS Discharge	mg/L	<10 (typical)				
Filtrate Particle Size	µm	25				
TPH Discharge Levels	mg/L	<5 (typical)				
Raw Water Temperature	°C	5 ~ 35 (typical)				
Ambient Design Temperature	°C	5 ~ 45				
Power Supply	V	240v (single phase) ~ 415v (3 Phase)				
Power Consumption (approx)	kW	0.8	0.8	1.1	2.2	2.2
Footprint	m	1.8 x 1.8	2.0 x 2.0	2.0 x 4.4	2.0 x 4.8	2.1 x 5

STANDARD INCLUSIONS + OPTIONS

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

Equipment		GC-700	GC-1500	GC-3000	GC-5000	GC-10000
OWS Pre-treatment Package (OWS, Controller, Pump & WOR)		○	○	○	○	○
Frame Mounted Plant & Equipment		✓	✓	✓	✓	✓
Skid Mounted (standard on 700 Batch System)		✓	○	○	○	○
PLC Control System with HMI		✓	✓	✓	✓	✓
pH Adjustment		✓	✓	✓	✓	✓
Flocculant dosing		✓	✓	✓	✓	✓
Polymer dosing		-	✓	✓	✓	✓
Clarification Tank		✓	✓	✓	✓	✓
Bag Filter		✓	✓	✓	○	○
Additional Post GC Treatment	Multimedia Filtration	-	○	○	○	○
	pH Correction	-	○	○	○	○
	Disinfection dosing & recirculation module	-	○	○	○	○
	UV Disinfection	-	○	○	○	○
	Granular Activated Carbon (GAC) Filtration	-	○	○	○	○
Sludge Pump System		○	○	○	○	○
Premium Instrumentation Package		○	○	○	○	○

Instrumentation	Standard Package	Premium Package
Human Machine Interface (HMI)	✓	✓
Control Panel	✓	✓
Pressure Gauges	✓	-
Pressure Transmitters (4-20 mA)	-	✓
High Level Alarms	✓	✓
pH Transmitter 4 ~ 20mA	✓	✓
Flow Transmitters (4-20 mA)	-	✓
Float Switches (Feed/Treated Water Tanks, Chemical Dosing Tanks)	-	✓
Remote Monitoring & Control Capabilities	-	✓

MODEL SELECTION

- 0700** 700L/h Flow Rate
- 1500** 1,500L/h Flow Rate
- 3000** 3,000L/h Flow Rate
- 5000** 5,000L/h Flow Rate
- 10000** 10,000L/h Flow Rate
- XXXX** Custom Flow Rate

- XX** Standard Frame / Skid Mounted Plant Mounting
- CX** Containerised Plant Mounting

- X** Pre GC Treatment - Standard
- C** Pre GC Treatment - Custom
- X** Post GC Treatment - Standard
- C** Post GC Treatment - Custom

- X** Standard Instrument Package
- P** Premium Instrument Package c/w Remote Monitoring
- C** Custom Instrument Package
- X** No Sludge Pump System
- C** Sludge Pump System

GC - - - - -

NEED A QUOTE?

COMPLETE THIS TABLE AND EMAIL TO...

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