

PRODUCT DATA SHEET

Gravity Clarification (GC)

water | wastewater | sewage

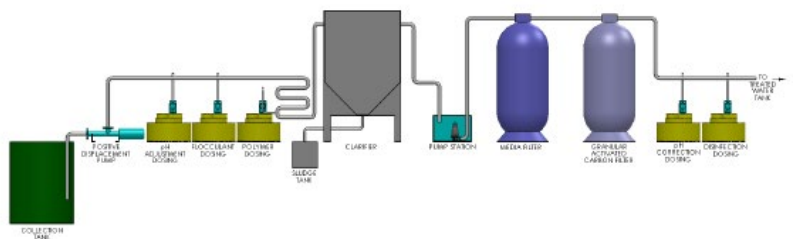


OVERVIEW

MAK Water's, Clearmake range of 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 + 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 Clearmake 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 on a successful 20 years experience of 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 | microns | 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 | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Floc dosing | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Poly 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 Instrument 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

NEED A QUOTE?

COMPLETE THIS TABLE
AND EMAIL TO...

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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 _ _ _ _ _



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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