We Provide
Water Solutions

Water Treatment | Wastewater Treatment | Water Management System

IGS WATER

ABOUT US:

- ❖ IGS commenced in 2011 as a solution provider for water management systems and IoT sensor integration.

- ❖ IGS Asia Pacific Pty Ltd (IGS Water) officially launched in 2020 and became a technology company for water treatment solutions.

- ❖ IGS provides solutions by combining technologies from our global partners to meet customers' requirements.

- ❖ The ultimate goal is to resolve customers' existing water problems to further improve their systems with effective and personalised solutions.

- ❖ At IGS, our purpose is to enable businesses, communities and governments to improve human health and environment through the smartest water management and water treatment technologies and solutions.

- ❖ Global partners and customers around the world (New Zealand, Singapore, Malaysia, Philippines, Thailand, Taiwan, Korea, and Japan etc.) with continuous growth.
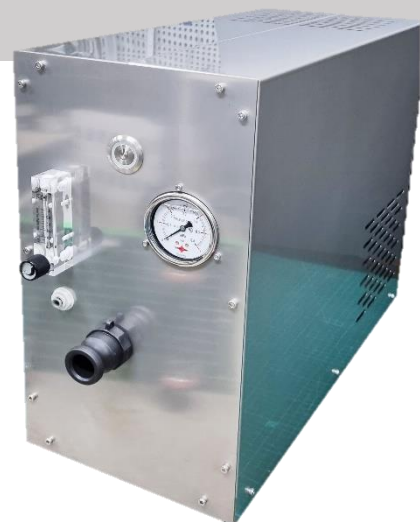
IGS WATER

OUR PRODUCTS:

Our main offerings mainly consist of water treatment solutions, including devices like generators, aerators, water filters, irrigation controllers, intelligent sensors, and more. These products play a significant role in conserving water, as well as delivering improved water cleanliness and safety both residential and commercial areas.

NANOBUBBLE GENERATORS

Incorporated to help many industries such as drinking water, wastewater treatment, lake remediation (Algae control), hydroponics, aquaculture, turf industry and many more.

SMART WI-FI IRRIGATION CONTROLLER

A powerful irrigation controller that can be operated remotely to water different crop types for all levels of customers from domestic garden to commercial area.

WATER CONDITIONERS

This unit is perfect for converting hard water into soft water by changing the mineral composition in the water. Also this unit gets installed in the pipeline.

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SILVER ION GENERATOR

Natural sterilizer than can eradicate more than 650 strong antimicrobial, anti-virus substances, and fungus.

LIGHTENING PROTECTION SYSTEM

WXLINE

Minimize the potential for human error and function in severe weather and a lightning environment.

WATER QUALITY

MEASURING TOOLS

It is designed to have that capability to remotely manage, collect and analyse the data to meet daily water quality standards.

OV AFM FILTER

Automatic media filter | Remove suspended solids between 0.45um and 5um | Reduce backwash loss of process water up to 95%

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Nanobubble Generator

Nanobubble technology is a technology that applies the shear resistance between the interface of an object and the adjacent area. The gas (e.g., oxygen) is split in a nano-sized bubbles by shear forces at the interface of the object which loses buoyancy of the bubbles that will rise to the surface, thereby keeping the dissolved gas concentration high in water.

Nanobubble unit for laboratory

- Within the nanobubble generator, the dissolved oxygen concentration increases by 6 mg/L compared to the raw water, and the dissolved oxygen solubility is more than 180%.
- When used in water temperature of 28°C, dissolved oxygen can be maintained more than 14 mg/L with only air.
- Using oxygen in the nanobubble generator increases dissolved oxygen concentration to more than 44 mg/L.
- The sealed nano-bubble remains intact after 30 days, and the nano-bubble has frozen water It exists even after melting.

		Lab-Scale	003	005	010
Water Flow Rate		5~10L/min	3.0㎥/hr	5㎥/hr	10㎥/hr
Nano Bubble Size		Avg. 160nm			
Nano Bubble Ratio		> 99%			
Nano Bubble Duration	Atmospheric Pressure State	> 18hr			
	Sealed State	> 30days			
Usage Gas		Air, Oxygen, Ozone, etc.			
Oxygen Flow Rate		0.2~0.4L/min	1~2L/min	3~4L/min	4~6L/min
Oxygen Trasnfer Efficiency		65 ~ 85%			
Dissolved Oxygen Con.	Gas : Air	> 13mg/L (at 28 ℃)			
	Gas : Oxygen	>40mg/L (at 28 ℃)			
Required Pump Pressure		> 4.0 kgf/c㎡			
Dimensions(Incl. Gas Gen)		-	W600mm x L1000mm x H1400mm		
Supply Voltage		110V~400V / 50, 60Hz			
Power	Pump	0.5~1.0kW	1.0~1.5kW	1.5~2.0kW	2.0~2.5kW
	Oxygen Generator	-	0.5kW	0.5kW	0.5kW
Materials	Pump	STS304 / STS316L (seawater)			
	Bubble Generator	STS304 / STS316 (seawater)			
	Housing	Al	STS304		
Pipe Connections Inlet, Outlet		Φ20	Φ25 ~ 32㎜		

※ Specifications are subject to change without notice.
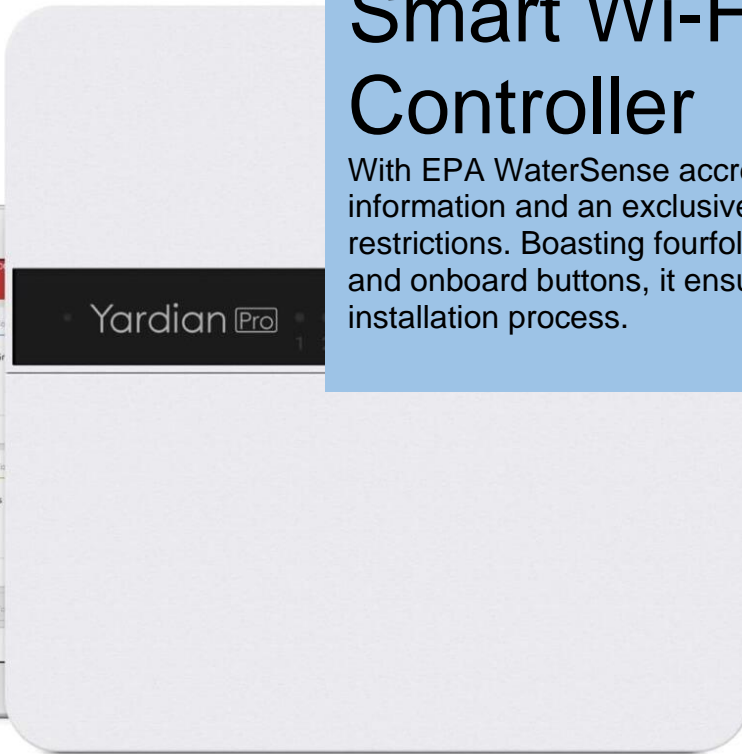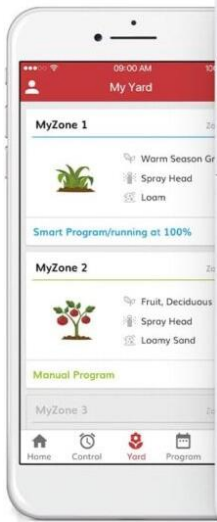
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IGS WATER

Smart Wi-Fi Irrigation Controller

With EPA WaterSense accreditation, it utilizes local weather information and an exclusive database for nearby municipal water restrictions. Boasting fourfold Wi-Fi signal potency, an RJ45 port, and onboard buttons, it ensures a simplified and adaptable installation process.

2 Types

- 8 Stations
- 12 Stations

Product Benefits:

- Apple HomeKit, Amazon's Alexa, Google Assistant and Google Home integration
- 100VAC – 240VAC full-range power supply with Level VI
- Energy efficiency
- Built-in 2.4G Wi-Fi with 4x signal strength f
- On-device buttons for "Auto Zone Scan
- Two sensor ports for rain sensor and/or flow sensor
- Dedicated master/pump and 24VAC output port
- Indoor use.
- Easy installation
- Significant water usage reduction with Smart Program
- Control watering schedules anytime and anywhere
- 2-year limited warranty

Chance of rain >= 60%

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Water Conditioners

The IGS Water Conditioner works for you **24 hours 7 days a week**. It is affordable, effective and safe to use with no chemicals, no electricity, no salts, no maintenance, no refills and no further costs.

Solve Irrigation & Hard Water Problems

Prevents equipment failure and reduces the scale build up in your equipment and treats the problem at the source. Treat hard bore or well water before it is pumped into your holding dam for your livestock and irrigation needs.
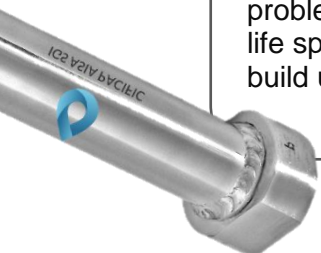
Mining, Drilling & Swimming Pools

Hard water and drilling machines are never a good mix especially when the goal is to remove the largest amount rock with the least amount of wear and tear on the drilling rig. If you want to spend more time in your pool rather than cleaning your pool then install an IGS Water Conditioner.

Skin, Hair and Your Investments

Protect your household appliances and piping from common hard water problems, even your hair and skin will feel softer. Moreover, it will increase the life span of your fridge, dishwasher and steam oven and will protect it from scale build up.

IGS WATER

Silver Ion Generator

More than 650 strong antimicrobial, anti-virus substances, and eradication of fungus It is suitable for places where strong sterilization is required without using chemicals such as pesticides, antibiotics, and disinfectants.

Product Information:

(General/Household Use)

- Product Name: SH-100 / SH-70
- Rated Voltage: 220v / 50~60Hz
- Power Consumption: 70w
- Silver [AG] Purity: 99.9974%
- Output: 20 ton / Day
- Size: 210x280x105

This was the **world's first large-capacity product and automatic concentration (ppm) control system** that can generate 50- 100 tons a day. Moreover, it has a high quantity of silver ion output at a **low cost** by changing filters.

It can be used for *agriculture, horticulture, restaurant, fisheries, school, and many more.* This can help in disinfecting fruits and vegetables and many more.

Silver Ion Output	High- Capacity- Hydrophone
Automized	Automatic Concentration Control System *0.1-15pppm
Cost of Production	Low Cost of Generating Silver Ion Generator
Formation of Scale	Non-occurrence of scale *No need to clean until plate is exhausted*
Source of Water	Source of water (River water, Tap Water, Ground Water, Rainwater, etc.)
Safety and Utility	Safety and Purity- 99.9974% (Pure)

Installing a silver ion generator

Lightning Protection System (WxLine)

Critical safety, warning, and protection equipment must function reliably when needed most. Wxline designs systems minimize the potential for human error and function in severe weather and a lightning environment — immune to power outages, loss of internet, loss of cell phone service, and loss of personal computers.

Lightning Detection System

Designed for critical applications, Strike Guard monitors cloud and cloud-to-ground lightning and provides contact-closure signaling at user-set lightning activity thresholds.

Strike View Software

Strike View helps users analyse storm progression, categorize lightning information, and estimate the time to resume operations.

Sequencer

WAVE Sequencer receives RF Transmitter messages and provides three outputs to control relays/contactors appropriate for managing the loads represented by pumps, irrigation systems, and other critical equipment.

CAPB (Critical Asset Protection Bulkhead)

Toro CAPB protection system

Rain Bird CAPB (active lighting protection)

WxEIB

Protect your equipment and streamline installations by having equipment factory-installed in a Wxline Equipment Indoor Bulkhead (WxEIB).

IGS WATER

Water Quality Measuring Tools

It is designed to have that capability to remotely manage and monitor different sensors and collect and analyse the data to meet daily water quality standards.

*DWA 300A *

*DWA 200B *

DWA 300B

Features of DW series:

- Real Time Trend Analysis Function
- Digital Communication Function (RS-232C/RS-485)
- Microprocessor-Based Digital Program Controller
- Isolated DC (4-20/0-20/0-24mA) Output Transmission
- Automatic Cleaning Control Function
- Low-Cost For User Satisfaction
- Large graphic LCD display

	DWA-3000A Series	DWA-3000B Series	DWA-2000A Series
Power	AC 110V / 220V , 50/60Hz		
Channel	Single Channel		
Accuracy	pH : ± 0.01pH (of Full Scale) / ORP : ± 1mV (Of Full Scale)		
Reproducibility	pH : ± 0.01pH (of Full Scale) / ORP : ± 1mV (Of Full Scale)		
Resolution	pH : 0.01pH / ORP : 0.1 mV		
Response Time	pH : 30 Sec (90% Saturation) / ORP : 60 Sec (90% Saturation)		
Analog Output	4-20mA DC (Std.) / 0-20mA, 0-24mA (Opt.) / Dual Communication Output		4-20mA DC / Single Communication Output
Digital Output	RS-232C (Std.) , RS-485 (Opt.)		—
Relay Output	(HH,H,L,LL) & Cleaning	High, Low, Selection & Cleaning	High, Low & Cleaning
Temp. Range	0~70℃		
Relative Humidity	Max. 90% (Non-Condensing)		
Display	5 Inch Graphic LCD(160X128), Trend Graph, Measuring Value, Measuring Status, Unit		7-Segment Output : Measured Value, Temperature
IP Rating	IP65 (NEMA 4X)	IP66	IP54
Size	240(W) X 185(H) X 115(D)	155(W) X 155(H) X 138(D)	96(W) X 96(H) X 125(D)
Installation	Wall Mounting	DIN 144 Panel Mounting	DIN 96 Panel Mounting

Cord Sensor

*DO Sensor *

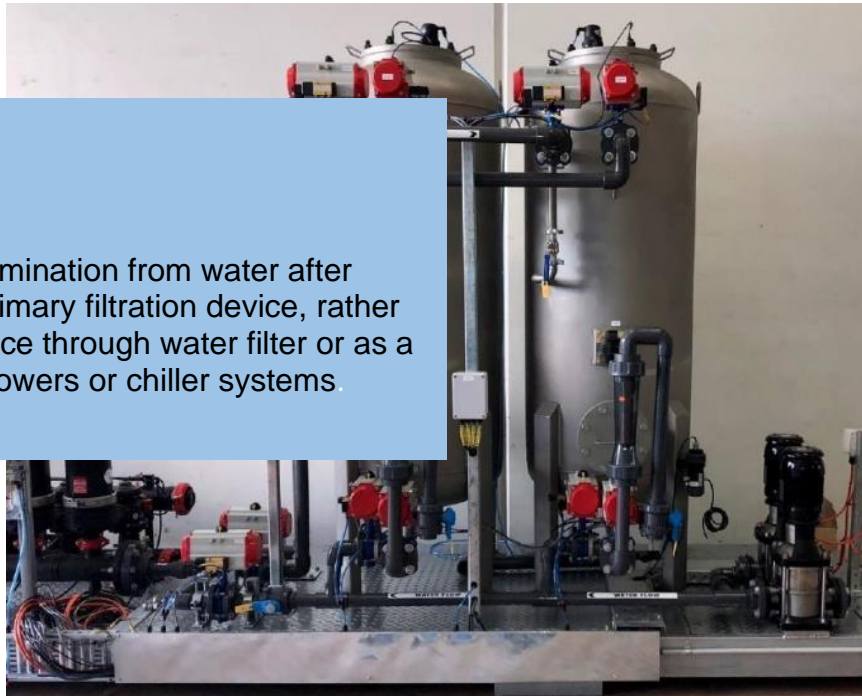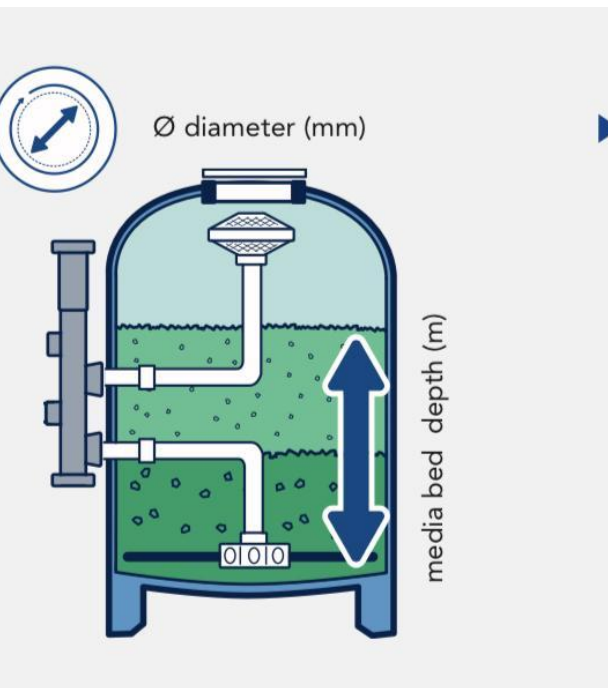*Ph, ORP Sensor*

*SS, MLSS Sensor *

OV AFM Filter

This type of filter is designed to remove fine contamination from water after filtration by other technologies. These are not a primary filtration device, rather they are a polishing filter and can be used as a once through water filter or as a side stream filter, such as those used on cooling towers or chiller systems.

Ø diameter (mm)

media bed depth (m)

Filter Specification	
Approximate shipping weight	784kg
Maximum operating pressure	7 Bar
Maximum operating temperature	60oC
Filtration grade	0.45um – 10um
Filtration flow rate	8 – 24m3/hr
Backwash pressure	2 Bar
Backwash flow rate	7.5 – 8.5m3/hr
Backwash duration	2 – 5 minutes

Subject to SS load

Duty cycle	24/7
Vessel diameter	700mm
AFM requirement	505kg

BENEFITS:

- Filters water down to 0.45 microns with up to 99% efficiency.
- Filters up to 5 times more water compared to traditional filters, which only achieve 20-micron filtration.
- Allows longer "on-line filtration" durations, cutting costs.
- Handles solid challenges, sometimes exceeding 200ppm, due to patented vortex flow.
- Provides top-notch filtration via a unique inlet and specialized media.
- Ensures short backwash times.
- Accommodates high flows with high-performance filtration.
- Enhances chemical treatment effectiveness with reduced chemical usage.
- Maintains heat transfer efficiency throughout system lifespan.
- Cleans older, contaminated systems for improved performance.
- Reduces backwash water loss by up to 95%.
- Lowers costs by minimizing chiller and heater kW loss during backwash.

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IGS WATER

SERVICES:

FAST, EFFECTIVE, PERSONALISED REMOTE TECHNICAL SUPPORT
IGS offers water management backup solutions and provide remote support to clients around the globe in the most effective way.
Our service can be tailored towards customers' unique situation and needs.

Service Process
STEP BY STEP

PROBLEM
Problem detected with hardware or software

STEP 1

STEP 2

CONTACT US
Contact us via mobile app, sms, phone or email

TROUBLESHOOTING
IGS technicians attend to issues immediately

STEP 3

STEP 4

RESOLVE AND FEEDBACK
Resolve issues according to SLA and provide feedback

- Direct assistance to end users via messenger service
- Remote backup management
- Service issue logging system
- No Fix No Fee policy

- Complimentary remote training on water management system
- Sensor integration option
- 10% discount on water treatment products
- After-hours support
- Regular system health checks

IGS WATER

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