

SERVICING THE PACIFIC



TRUEWATER
AUSTRALIA



PEOPLE • WATER • ENVIRONMENT

ABOUT US

PEOPLE • WATER • ENVIRONMENT

Our Mission Statement

Provide safe, reliable and cost effective effluent management solutions, ensuring the highest level of protection to the health and safety of our community, our water resource and our environment.

SERVICES WE PROVIDE

True Water Australia provide internationally renowned sewage treatment plants that are suitable for every wastewater treatment project. Our team use world-leading technology to deliver reliable, quality systems that provide unmatched environmental outcomes and unbeatable operating and cost benefits.

✓ **Industry Specialists**

With a reputation for taking difficult sites or expensive problems and providing simple affordable solutions, our consultants deliver smart designs that save time and money.

✓ **Customised Solutions**

With a wide range of choices from treatment type to system layout and design, we use our expertise and knowledge to provide industry leading design options.

✓ **Proven Results**

True Water Australia use systems that have been put to the test in tens of thousands of locations and applications around the globe.

✓ **Comprehensive Solutions**

True Water Australia will assess your project and consult with you closely to ensure the finished product satisfies your requirements.

✓ **Warranty and Performance**

Every True Water Australia wastewater treatment plant is backed by a comprehensive Manufacturer's Warranty and a project-specific Performance Guarantee, ensuring reliable long term operation.

✓ **Solutions that Last**

True Water Australia design, construct and operate wastewater systems with a focus on a 50 year lifespan. Quality design, construction and servicing are key to providing solutions that stand the test of time.

DESIGN

CONSTRUCT

OPERATE

TRUE WATER IN THE PACIFIC



KIRIBATI

TOKELAU

TUVALU

SAMOA

FIJI

TONGA



Foreign Aid



Essential Infrastructure



Water and Sanitation



Disaster Relief



Safer Sewage and Wastewater



Local Labour and Trade Involvement



Urban and Remote Solutions



Greater Water Security

OUR CAPABILITIES

ECONOMIC BENEFITS



ENVIRONMENTAL BENEFITS



SOCIAL BENEFITS



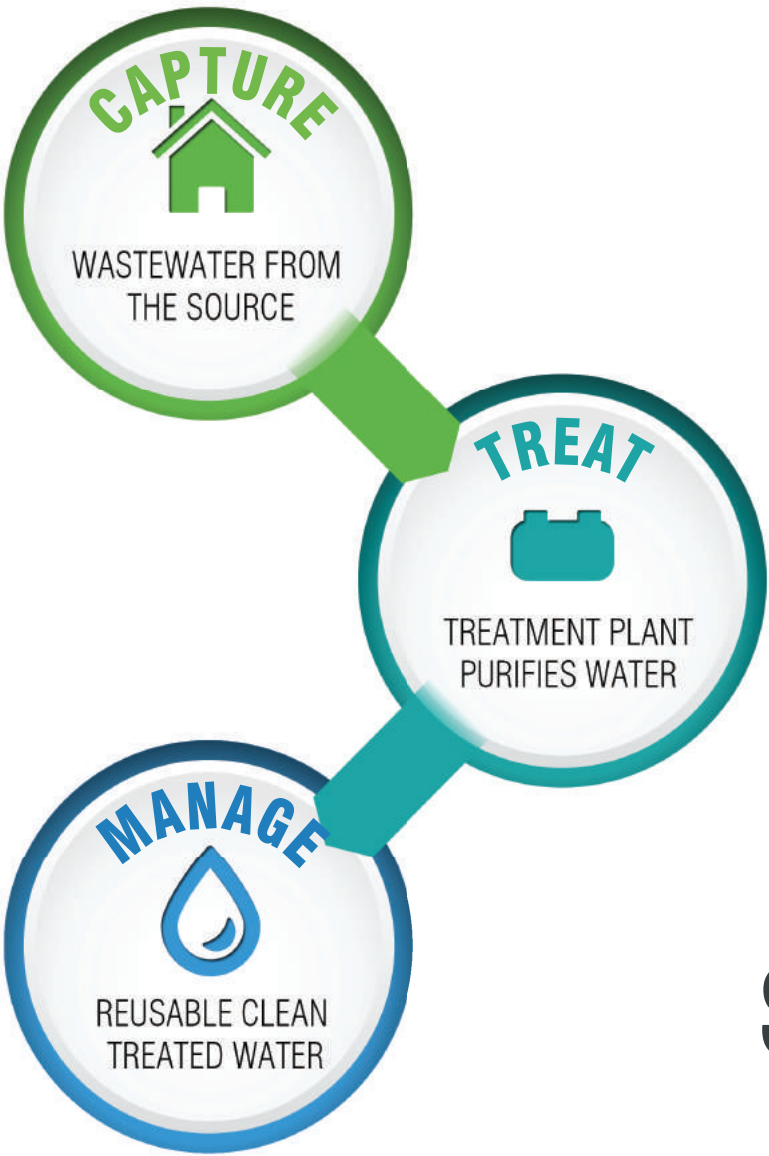
Applications

- ✓ Aid
- ✓ Government & Defence
- ✓ Tourism & Hospitality
- ✓ Urban Development
- ✓ Utilities & Essential Services
- ✓ Mining & Construction
- ✓ Manufacturing & Industrial
- ✓ Agriculture & Primary Industry

We Service

- ✓ Resorts
- ✓ Tourist Facilities
- ✓ Hospitals, Schools & Churches
- ✓ Urban & Remote Communities
- ✓ Airport & Transport Infrastructure
- ✓ Construction & Mining Camps
- ✓ Environmentally Sensitive Locations
- ✓ Permanent & Temporary Solutions

SUSTAINABLE SOLUTIONS



**SUPERIORITY
THROUGH
SIMPLICITY**

KUBOTA 500m³ STP

Brisbane West International Airport & Business Park



Transport and Industrial Infrastructure

- Australia's largest privately owned international airport and 230 industrial and business lots
- Overall project value of \$200 million
- Sewage treatment plant delivered in 100m³ stages
- Delivered on time and on budget

Key Challenges

- **Customisation** – Designed for staged delivery without compromised performance
- **Hydraulic Flows** – Highly variable flows based on seasonal fluctuations
- **Influent Strength** – High concentrations of contaminants in industrial business park wastewater
- **Cost Effectiveness** – Solution to provide whole-of-life cost benefits
- **Continuity** – Major transport infrastructure requiring uninterrupted operation

The Solution

- Kubota K-HC-R Advanced Treatment Plant
- High quality, disinfected effluent (Class A)
- Reliable and durable biological treatment process
- Cost effective operation
- Remote monitoring to ensure continuous service



KUBOTA 250m³ STP

Igam Barracks - Lae Papua New Guinea



Australian Government
Department of Defence

Foreign Aid Community Infrastructure

- 250m³ STP providing vital services to community
- Delivered as part of Australia Aid investment
- Collaboration between Australian and PNG Governments
- Local trade and workforce engagement



Key Challenges

- **Location** – Project located in foreign country requiring export management
- **Reliability** – Intermittent power source and varying hydraulic flows
- **Serviceability** – Simple operation and training of local workforce for maintenance
- **Environment** – Harsh tropical climate, wet and corrosive conditions
- **Cost Effectiveness** – Capital and operating expenses to meet Aid budget requirements



The Solution

- Kubota K-HC-R Advanced Treatment Plant
- High quality, effluent treatment
- Safe below ground installation
- Installation completed within 4 week window
- Training of local workforce for day to day management

KUBOTA STP's

800 Hospitals Throughout Vietnam



Health & Sanitation Infrastructure

- 800 Sewage Treatment Plants delivered over 5 years
- Plants range in size from 20m³ to 2500m³ per day
- Collaboration with local authorities and national government
- Vital infrastructure for sanitation of hospitals

Key Challenges

- **Timeline** – Many large scale projects delivered at the same time in multiple locations
- **Influent Strength** - High strength sewage and concentrations of medical contaminants
- **Shock Loads** – Major Health facilities generate large shock loads
- **Environment** – Harsh, tropical climate, corrosive, wet environment, extreme heat

The Solution

- Kubota Advanced Sewage Treatment Plants
- High quality, treated effluent
- Cost effective operation
- Local expertise for delivery and operation



KUBOTA 70m³ STP

Home Valley Station - Indigenous Land Corporation



Australian Government
Indigenous Land Corporation

Remote Outback Resort

- 1.3 million hectare cattle station and tourist destination in the Kimberley's, Western Australia
- Caters to up to 800 people per day for events such as the annual muster
- Highly durable solution required to meet demands of the site



Key Challenges

- **Location** – remote site, high focus on logistical management and operational security
- **Harsh Conditions** – one of the harshest environments in the country
- **Hydraulic Flows** – flows greatly vary from open to closed season
- **Transit** – Transport costs to site required a small and lightweight solution
- **Reliability** – Operation to provide continuity at all times to cater to site requirements



The Solution

- Kubota HC-50A Advanced Treatment Plant
- High quality, effluent treatment (Class A)
- Simple yet reliable Biological Treatment process
- Reliable and cost effective operation
- Remote monitoring to ensure constant service

KUBOTA 10m³ STP

Alpha Hospital - Queensland Government



QUEENSLAND GOVERNMENT

Health and Essential Services

- Queensland's first Emergency Services Hub including Hospital, Health, Ambulance, Fire and Police
- Principal contractor Hutchinson Builders contracted to Queensland Health
- The centre to provide vital Health and Emergency Services for central Queensland

Key Challenges

- **Remote Site** – materials, trades and services coordinated from wide area of QLD and NSW
- **Cost Effectiveness** – capital and operating expense to meet budget requirements
- **Harsh Environment** – solution required to meet extreme conditions and temperatures > 45°C
- **Reliability** – guarantee continuity of operation to vital services precinct

The Solution

- Kubota HC-50A Advanced Treatment Plant
- High quality, effluent treatment (Class A)
- Cost effective operation
- Remote monitoring for constant service
- Sub-surface irrigation complementing new gardens and lawns



KUBOTA 10m³ STP

Capella Lodge - Lord Howe Island



Island Resort

- Lord Howe Island's premium boutique accommodation
- STP to service accommodation suites, commercial kitchen, laundry and day spa
- High quality solution required in line with high-end development



Key Challenges

- **Logistics** – all materials, trades and services required to be air or sea freighted
- **Coastal Environment** – solution required to meet highly corrosive conditions
- **Hydraulic Flows** – meet fluctuating flows that vary from peak to off-peak seasons
- **Site Features** – small area available, minimal footprint
- **Cost Effectiveness** – capital and operating expense to meet budget requirements
- **Reliability** – remote site requires continuity of operation



The Solution

- Kubota HC-50A Advanced Treatment Plant
- High quality, effluent treatment (Class A)
- Simple yet reliable Biological Treatment process
- Remote monitoring to ensure constant service
- All irrigation underground

KUBOTA - IT ALL COMES TOGETHER



WORLD LEADERS IN
WATER TECHNOLOGIES

For Earth, For Life



In 1890 Kubota's founders began manufacturing water infrastructure equipment and investing in creating superior products and technologies to assist the development of society. More than 120 years later Kubota is firmly established as an international leader in the water treatment industry.

Kubota now provides advanced water technologies to the United Kingdom, Europe, North America, Asia and the Middle East.

Central to Kubota's success is their focus on research & development and the continued endeavour to advance and improve their products.

Kubota treatment stations represent the most advanced technology available in the world today. Treatment stations satisfy rigorous quality benchmarks and manufacturing standards guaranteeing quality, performance and longevity.

Kubota's long-standing company history and international performance combined with the quality and longevity of their products makes Kubota the ideal choice for high performance water treatment infrastructure projects in Australia.

- ✔ **Over 120 years of manufacturing excellence**
- ✔ **World leaders in water technologies**
- ✔ **Global security**





KUBOTA KZ

Kubota KZ Biological Treatment System

The KZ Treatment Plant is lightweight, easy to freight and install and is the smallest design in the world. Designed to meet Australian specifications, the KZ Treatment System provides advanced wastewater treatment through an extremely efficient and reliable process, while guaranteeing simple operation and reduced running cost.

The advantages of the KZ model include simple installation and freight, low operating costs and small footprint. The World's number one selling domestic system, the KZ is available for a wide range of applications using the same proven technology and results from 50 years research and development.



Quality
ISO 9001



Environment
ISO 14001



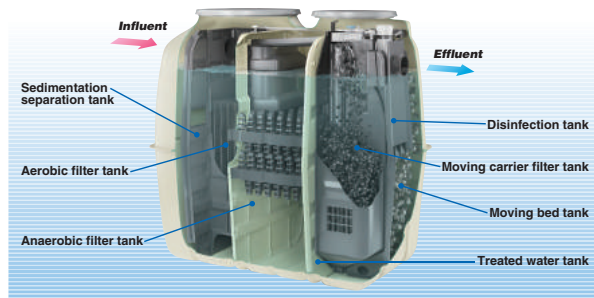
For Earth, For Life
Kubota

Features

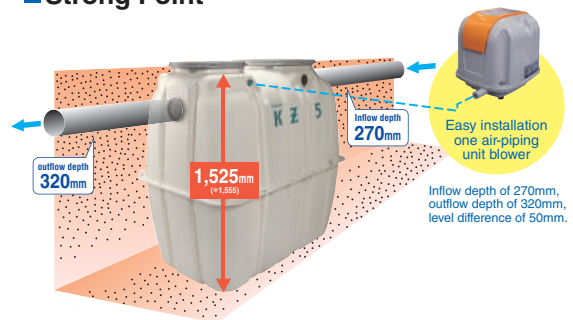
- ✓ **FAST DELIVERY & INSTALLATION** - A KZ Treatment System can be installed and commissioned in approximately 8 hours
- ✓ **SCALABLE** - Additional modules can be added to meet increasing hydraulic requirements
- ✓ **PROVEN** - Technology used in millions of treatment plants with over 40,000 installations annually
- ✓ **TRIED & TESTED** - More than 5 decades of Research, Development and rigorous evaluation guarantees consistent long term performance.
- ✓ **PROVEN FOR SHOCK LOAD** - Designed to manage shock loads and provide consistent treated water quality
- ✓ **DURABLE** - Strong lightweight fibre reinforced plastic for long life.

SPECIFICATIONS KZ

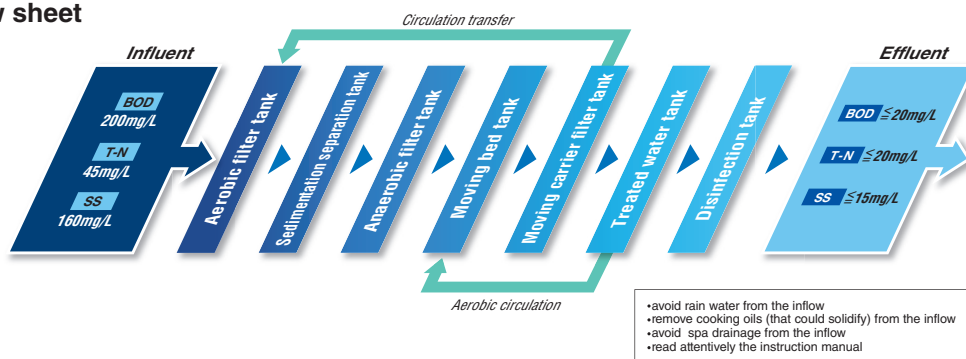
■ Cross-section perspective



■ Strong Point



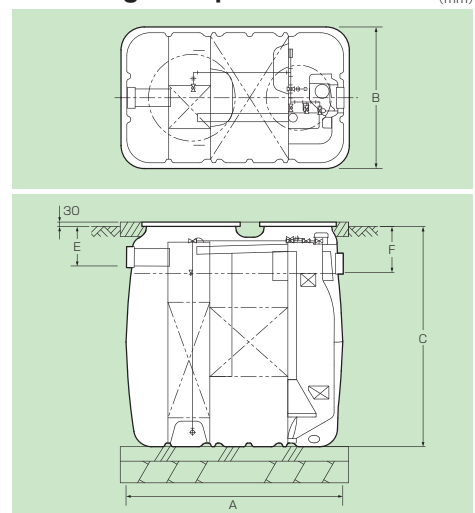
■ Flow sheet



■ Specifications (inf. BOD 200 mg/L)

Model		KZ-5	KZ-7	KZ-10
Flow rate (m ³ /day)		1.0	1.4	2.0
Dimensions (mm)	Length A	1,580	2,120	2,790
	Width B	980	980	1,200
	Height C	1,525	1,525	1,550
	Influent pipe E	270		300
	Effluent pipe F	320		350
Manhole number	φ450	1	3	2
	φ600	1	—	1
Inf. eff. pipe dia. (mm)		φ100		
Air pipe dia. (mm)		φ13		
Weight (kg)		150	180	280

■ Drawing example



KUBOTA HC-Z

Kubota HC-Z Biological Treatment System

Our best-selling commercial wastewater treatment model is the Kubota HC-Z. It is lightweight, easy to freight and install and is small and compact. Designed to meet Australian wastewater loads and requirements, the HC-Z Commercial Treatment System provides advanced wastewater treatment through an extremely efficient and reliable process, while guaranteeing simple operation and reduced running cost.

The advantages of the HC-Z model include large volume single tank treatment, low operating costs and improved aesthetics. The World's number one commercial system, the HC-Z, is now available for all Commercial applications using the same proven technology and results from 50 years research and development



Quality
ISO 9001



Environment
ISO 14001



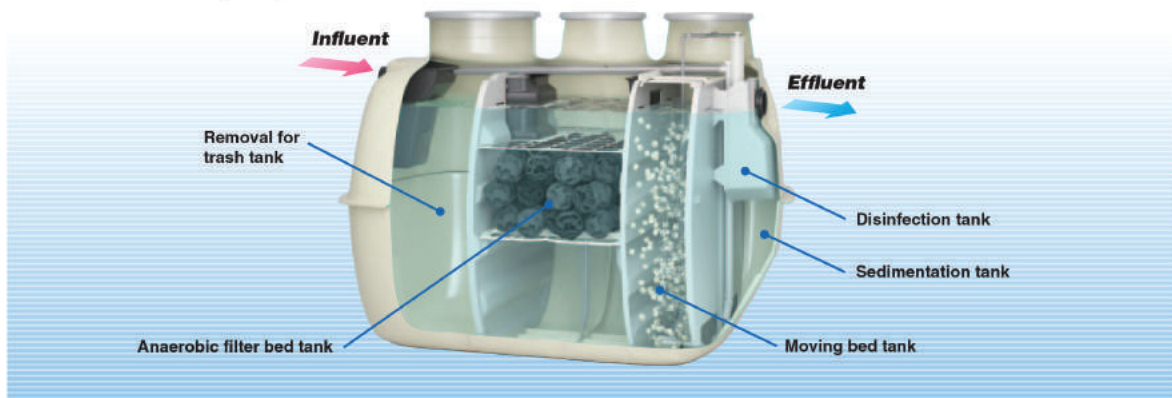
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Features

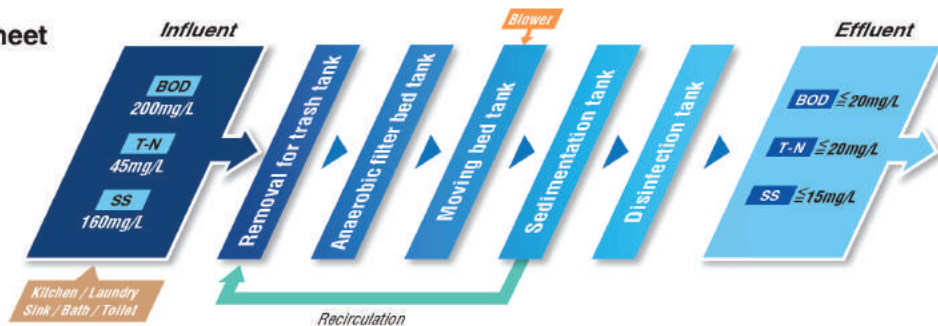
- ✓ **DURABLE** - Strong, lightweight fibre reinforced plastic construction, 50+ year engineering life
- ✓ **PROVIDES FOR SHOCK LOAD** - The HC-Z system effectively manages shock loading and peak flows. The level within the system varies in accordance with inflow ensuring consistent treated water quality
- ✓ **PROVEN** - Over 1.7 million systems sold, with over 40,000 installations annually across several continents worldwide
- ✓ **SCALABLE** - Additional modules can be added to meet increasing hydraulic requirements
- ✓ **TRIED & TESTED** - Decades of Research and Development and rigorous evaluation guarantees consistent long term performance
- ✓ **COST EFFECTIVE** - Kubota HC-Z systems reduce operation overheads by up to 80% to provide the best possible installation and operational costs

SPECIFICATIONS HC-Z

■ Cross-section perspective



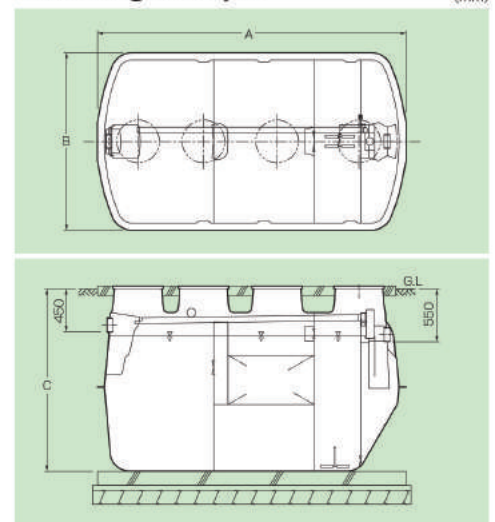
■ Flow sheet



■ Specifications (Inf. BOD 200 mg/L, influent 12hrs/day)

Model		HCZ-25	HCZ-50
Flow rate (m ³ /day)		5.0	10.0
Dimensions (mm)	Length A	3,190	5,760
	Width B	2,000	2,000
	Height C	2,180	2,180
Manhole number	φ450	1	2
	φ600	2	2
Inf. eff. pipe dia. (mm)		φ100	
Air pipe dia. (mm)		φ20	
Capacity (m ³)	Removal for trash tank	2.839	5.626
	Anaerobic filter bed tank	2.818	5.626
	Moving bed tank	1.284	2.570
	Sedimentation tank	0.737	1.046
	Disinfection tank	0.078	0.105
	Total Capacity	7.756	14.973
Blower air flow rate (L/min)		200	350

■ Drawing example



KUBOTA K-HC-R

Kubota K-HC-R Biological Treatment System

The K-HC-R is an advanced wastewater treatment system suitable for medium to large scale applications and provides high level treatment and nutrient removal.

The K-HC-R guarantees trouble-free operation and efficient performance with water quality meeting the most rigorous environmental requirements. This is the system of choice, being installed into areas where a conventional system does not comply with the strict guidelines of regulatory bodies.

The simplicity of the treatment process and the meticulous design of every model ensures that, even when providing the highest level of water treatment, the K-HC-R system remains quiet, odourless and easy to maintain.



Quality
ISO 9001



Environment
ISO 14001



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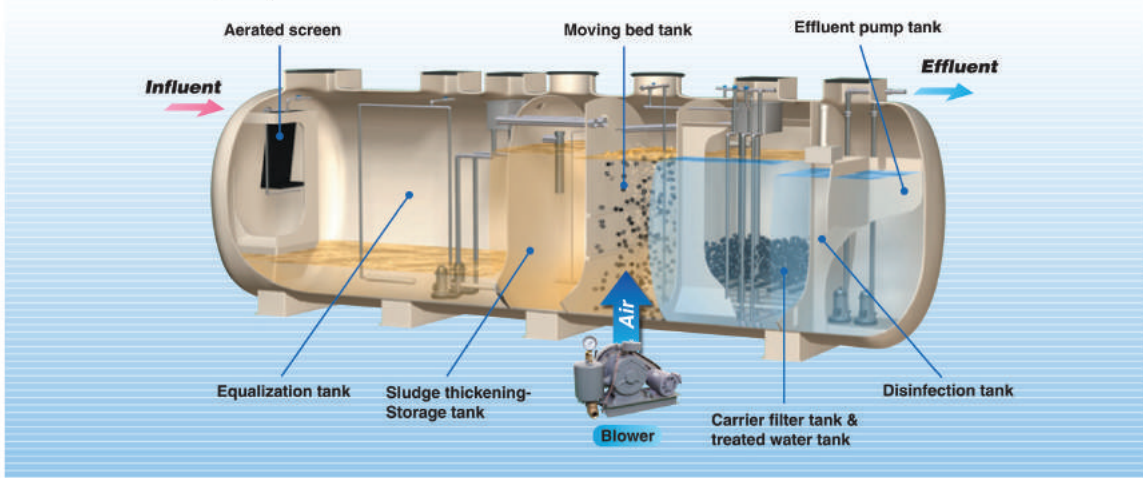
Kubota

Features

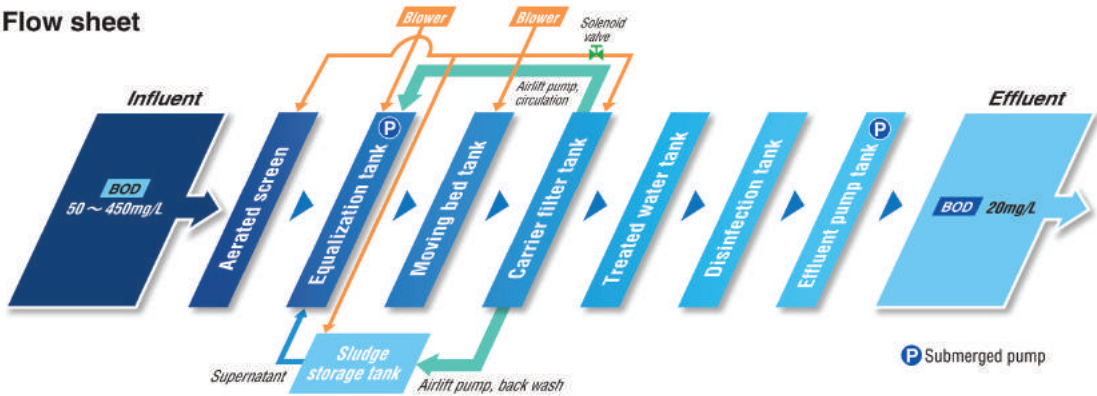
- ✓ **SCALABLE** - Additional modules can be added to meet increasing hydraulic requirements
- ✓ **EASY TO MAINTAIN** - Advanced engineering ensures reduced servicing and maintenance requirements and minimised operational costs
- ✓ **SAFE** - No smells, clean and odourless. High quality treated water secures environmental outcomes and minimal impact
- ✓ **PROVEN TECHNOLOGY** - Millions of systems sold and installed across several continents
- ✓ **RELIABLE** - The treatment process is technologically advanced yet simple with no moving parts. The plant is robust and manufactured under international standards
- ✓ **HIGH QUALITY EFFLUENT** - Environmentally friendly and economical, treated effluent is suitable for a variety of applications

SPECIFICATIONS K-HC-R

■ Cross-section perspective



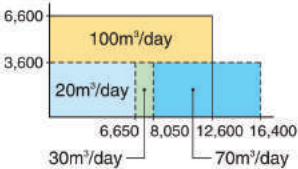
■ Flow sheet



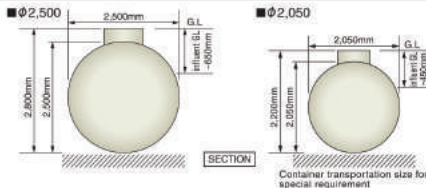
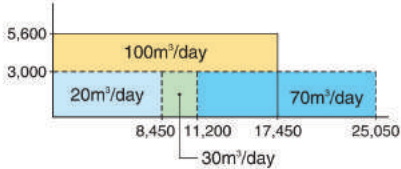
■ Specifications (inf. BOD 200 mg/L, influent 12 hrs/day)

Flow rate	m ³ /day	20	30	70	100
Tank size (φ2,500 x 2,800H)	L (mm)	6,050	7,450	7,250+8,050	10,000+6,100+5,400
Rated power (380V)	kW	2.55	2.55	3.40	3.50
Tank size (φ2,050 x 2,200H)	L (mm)	7,950	10,700	4,150+9,650+9,650	9,200+10,650+5,850+7,250
Rated power (380V)	kW	2.55	2.55	4.55	4.55

● Size (mm) : In case of φ2,500



● Size (mm) : In case of φ2,050



KUBOTA KM-SG-NP

Kubota KM-SG-NP Membrane BioReactor Treatment System

The KM-SG-NP is the most advanced Membrane BioReactor (MBR) wastewater treatment system available in Australia, providing the highest level of treatment with the added advantage of nutrient removal. The KM-SG-NP guarantees trouble free operation and efficient performance with water quality meeting the most rigorous environmental requirements.

The KM-SG-NP treatment process utilises technologies employed throughout the world's largest centralised treatment plants. The modular design of every system allows your treatment plant to be scaled to suit each project's need across its entire life-cycle.



Quality
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Environment
ISO 14001



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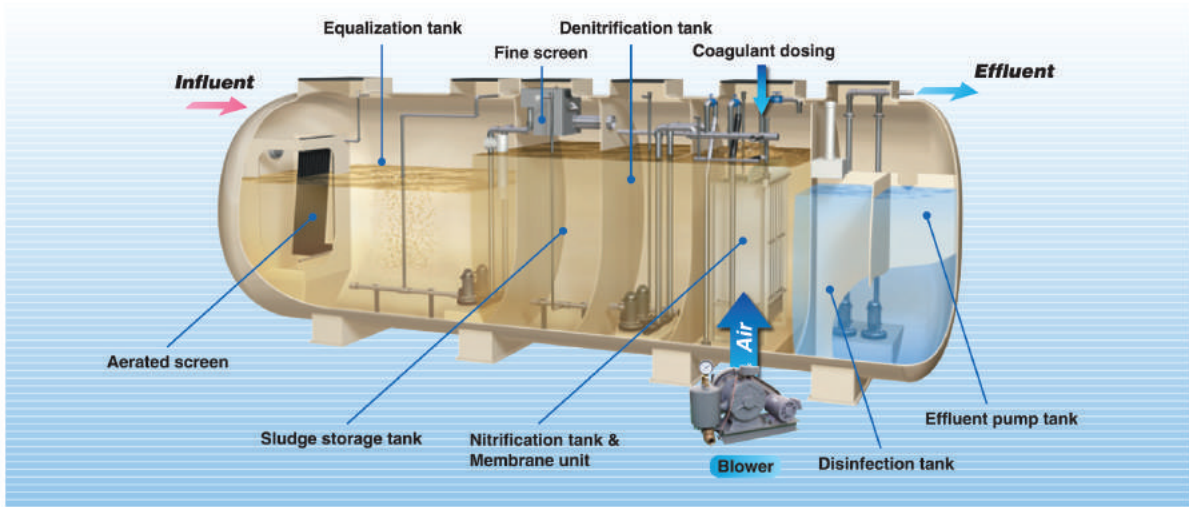
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Features

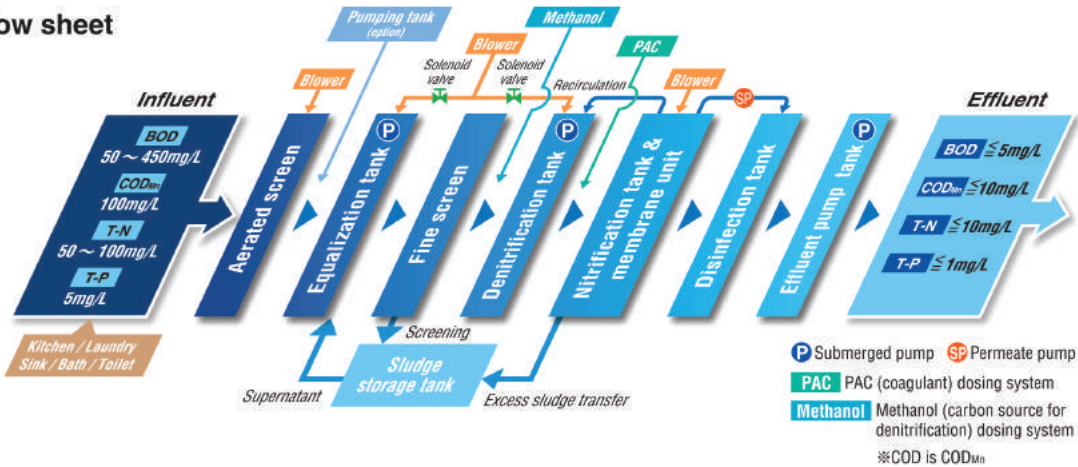
- ✓ **PROVEN** - Kubota is the world's leading manufacturer and supplier of membrane filters utilised throughout the world's most sophisticated water treatment plants
- ✓ **RELIABLE** - Treatment processes have been developed and refined over decades to ensure operational continuity
- ✓ **HIGH QUALITY TREATMENT** - Membrane treatment produces the highest possible treated water suitable for sensitive applications or internal re-use
- ✓ **SCALABLE** - Additional modules can be added to meet increasing hydraulic requirements
- ✓ **DURABLE** - Strong, lightweight fibre reinforced plastic construction, 50+ year engineering life
- ✓ **EASY TO MAINTAIN** - Advanced engineering ensures easy servicing and maintenance
- ✓ **SAFE** - No smells, clean and odourless, high quality, reusable wastewater

SPECIFICATIONS KM-SG-NP

■ Cross-section perspective



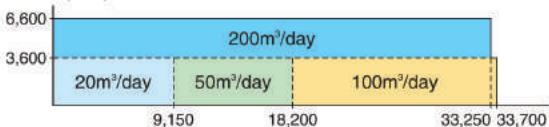
■ Flow sheet



■ Specifications (inf. BOD 200 mg/L, influent 12 hrs/day)

Flow rate	m ³ /day	20	40	100	200
Tank size (φ2,500 x 2,800H)	L (mm)	8,550	6,100 + 7,950	7,350 + 8,450 + 7,350 + 8,500	8,250 + 8,250 + 6,950 + 7,700 + 8,250 + 8,300 + 6,900 + 7,700
Rated power (200V)	KW	4.0	4.7	8.8	14.9

● Size (mm)





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