ATLANTIS

WATERPARKS

PRODUCT CATALOGUE

Hydromechanical Systems

Filtration & Circulation · Automation
River · Wave · Surf Systems

SINCE 1996 · ISTANBUL



ABOUT US

Engineering the Heart of Every Water Park

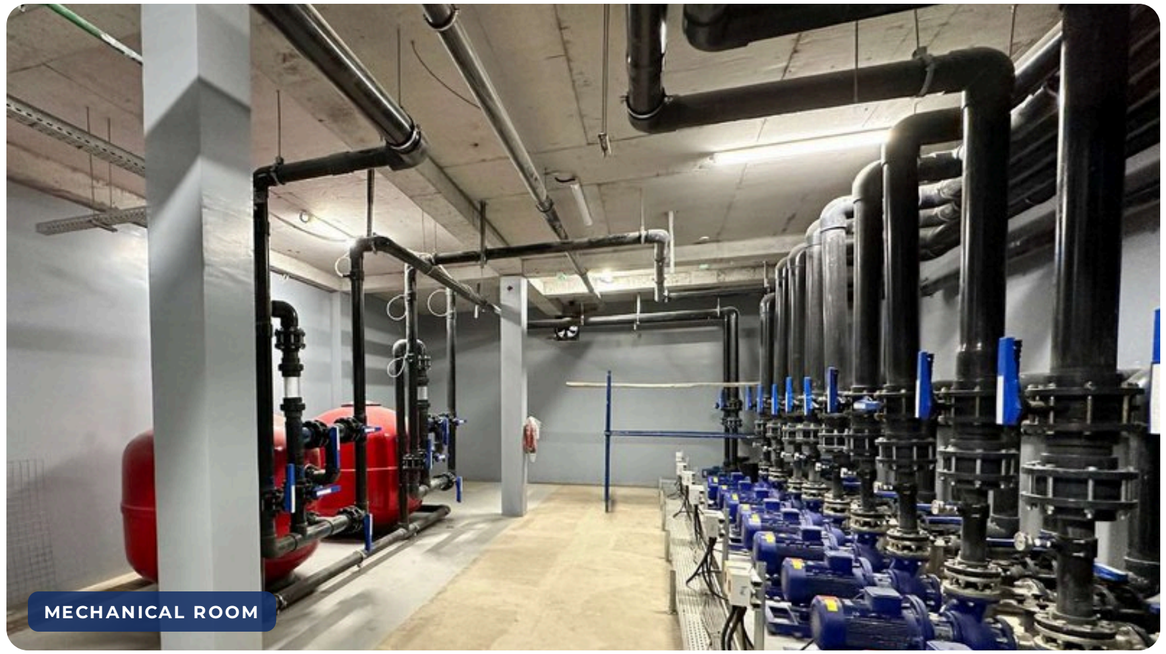
Founded in 1996 in Istanbul by three mechanical engineers, Atlantis has become a global leader in water park and pool technologies, offering the full range of pool and water park systems, from surf systems and wave pools to lazy rivers and innovative flow technologies.

We design, manufacture and install filtration, circulation and automation systems, providing energy-efficient and sustainable solutions for both commercial and private projects.

670+
PROJECTS

65
COUNTRIES

30
YEARS


MECHANICAL ROOM


PUMP STATION


FILTRATION

VISION & MISSION

Why Atlantis

Reliable, efficient and long-lasting systems, built in our own factory and supported for the whole life of your park.



01

Low energy consumption

Energy-efficient aquatic systems that maximise performance while minimising energy consumption.

02

Revolutionary technology

Creativity and innovation are our natural instinct, setting new standards for the industry.

03

High quality

High-efficiency, premium-quality mechanical and electrical components, compliant with European standards.

04

Easy installation

All products are installed under the supervision of our engineers, saving time and avoiding unnecessary costs.

05

Service & warranty

A two-year warranty period begins once installation, testing and commissioning are completed.

06

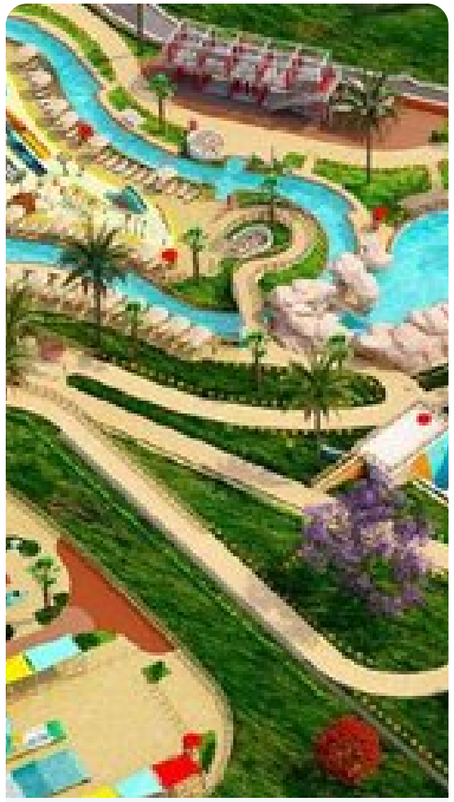
Turnkey partner

Design, manufacturing, supply, installation and maintenance from a single source.

OUR SERVICES

The Complete Solution

From the first drawing to years of operation, creativity and technology come together in every project.



01

Design

Concept, hydraulic and mechanical design tailored to each project.



02

Manufacturing

Pumps, filters, wave generators and control panels built in our factory.



03

Supplying

Complete system packages delivered worldwide, ready for connection.



04

Installation

On-site installation, testing and commissioning by our engineers.



05

Maintenance

After-sales service, spare parts and support for long-term operation.

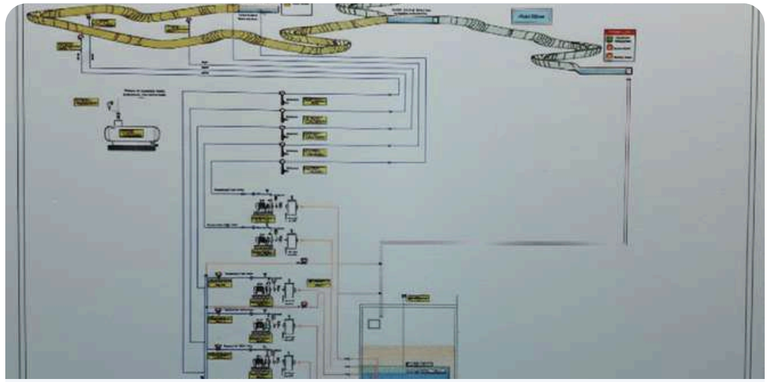
OUR PRODUCTS

Hydromechanical Systems



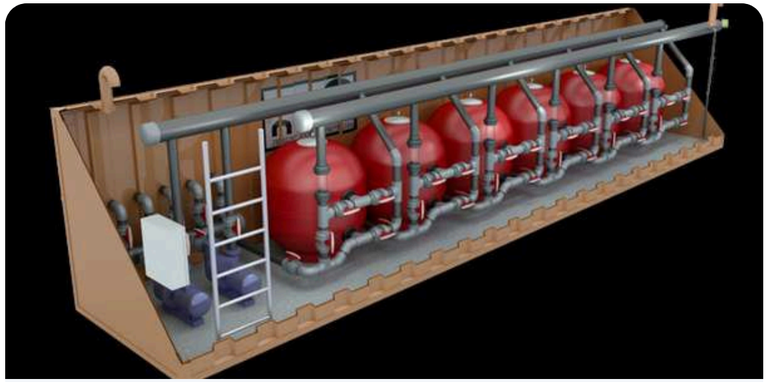
01

Filtration & Circulation



02

Automation Systems



03

Easytainer & Packed Systems



04

River Systems



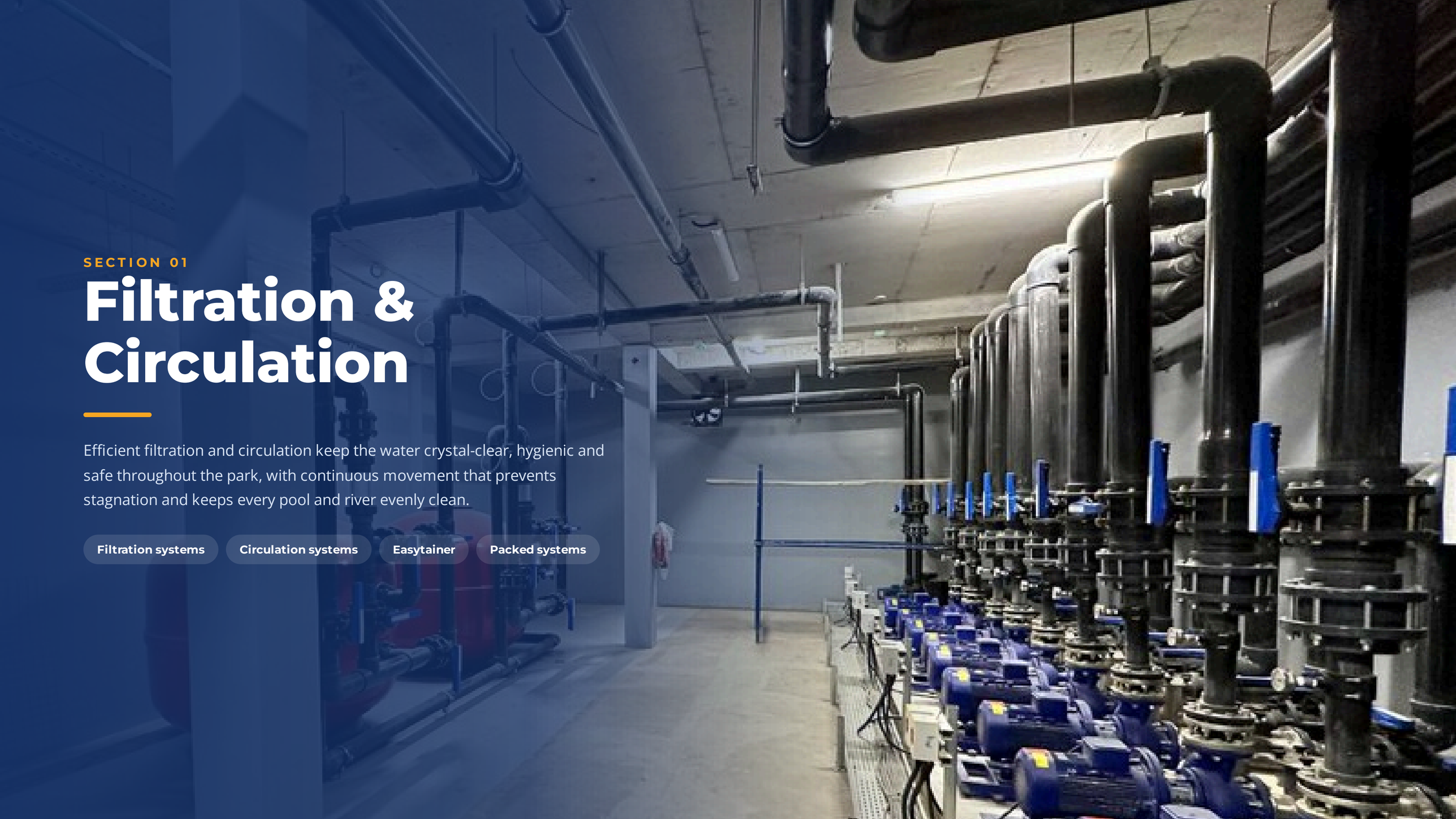
05

Wave Systems



06

Surf Systems



SECTION 01

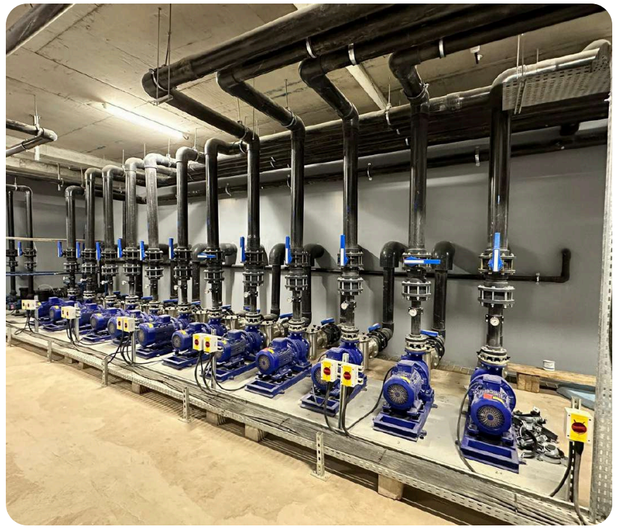
Filtration & Circulation

Efficient filtration and circulation keep the water crystal-clear, hygienic and safe throughout the park, with continuous movement that prevents stagnation and keeps every pool and river evenly clean.

Filtration systems **Circulation systems** **Easytainer** **Packed systems**







FILTRATION & CIRCULATION

Clean Water, Lower Running Costs

High-performance filters, energy-efficient pumps and automated controls guarantee optimal water quality with minimal maintenance and reduced operating costs.

On water slides, the circulation system supplies and recycles the water for a continuous, controlled flow. Our return lines maintain consistent pressure and cleanliness while minimising water and energy consumption.

Proper circulation guarantees smooth slide performance and guest safety, and supports the sustainability and efficiency of the entire park.

- Continuous water movement, no stagnant zones
- Energy-efficient pumps and automated control
- Consistent pressure for safe slide operation



FILTRATION

Filtration System

Designed for high water clarity and reliable long-term performance. Every system includes an integrated automatic dosing control unit for precise chemical regulation, as standard.

Optional PLC control adds remote monitoring, data logging and full automation, and an optional UV disinfection system provides extra microbiological protection while reducing chemical use. All components are factory-assembled, tested and delivered as a turnkey package.

MODEL	DIAMETER (MM)	DIAMETER (INCH)
SF-600	600	24
SF-800	800	32
SF-900	900	36
SF-1050	1,050	42
SF-1250	1,250	50
SF-1400	1,400	56
SF-1600	1,600	63
SF-2000	2,000	79





CIRCULATION

Circulation System

Our circulation systems use custom-manufactured cast iron pumps designed for high efficiency and long-term durability. They deliver stable flow rates, withstand demanding conditions and ensure continuous circulation with minimal energy consumption.

The robust cast iron construction resists pressure, temperature variations and corrosion. Each pump is selected and calibrated to the hydraulic requirements of the system.

Combined with PLC automation and variable frequency drives, the pumps provide precise flow control, lower operating noise and higher overall efficiency.

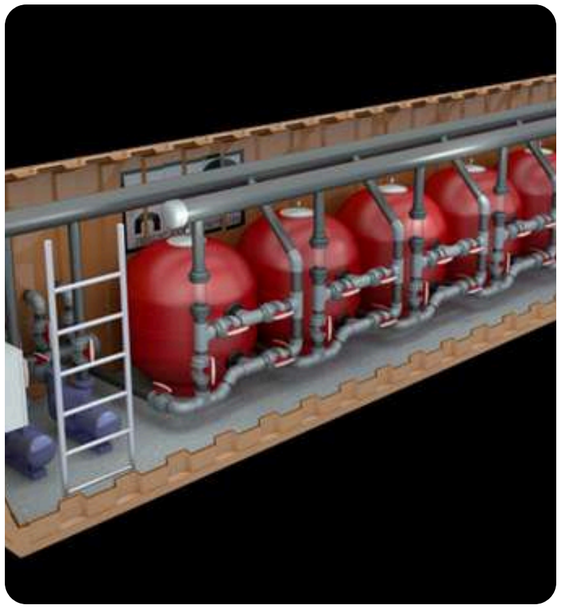
PUMP BODY
Cast iron

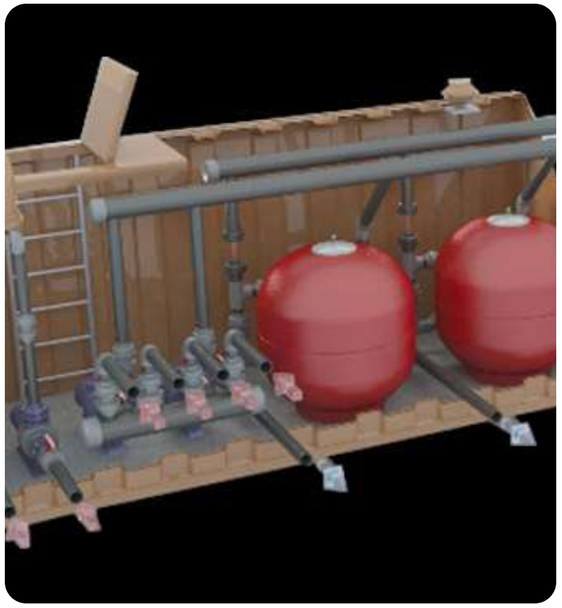
CONTROL
PLC + VFD

DESIGN
Custom-manufactured

FOCUS
Efficiency & durability







EASYTAINER

Easytainer Systems

Easytainer is an innovative solution developed by Atlantis to replace the traditional concrete mechanical room. This prefabricated unit houses all essential equipment, including filtration, circulation and even wave generator systems.

Fully assembled and tested in our factory, Easytainer arrives on site ready for installation and operation within 24 hours. It reduces construction and labour costs, saves installation time and makes maintenance easy.

24 h

From delivery on site to operation



PACKED SYSTEMS

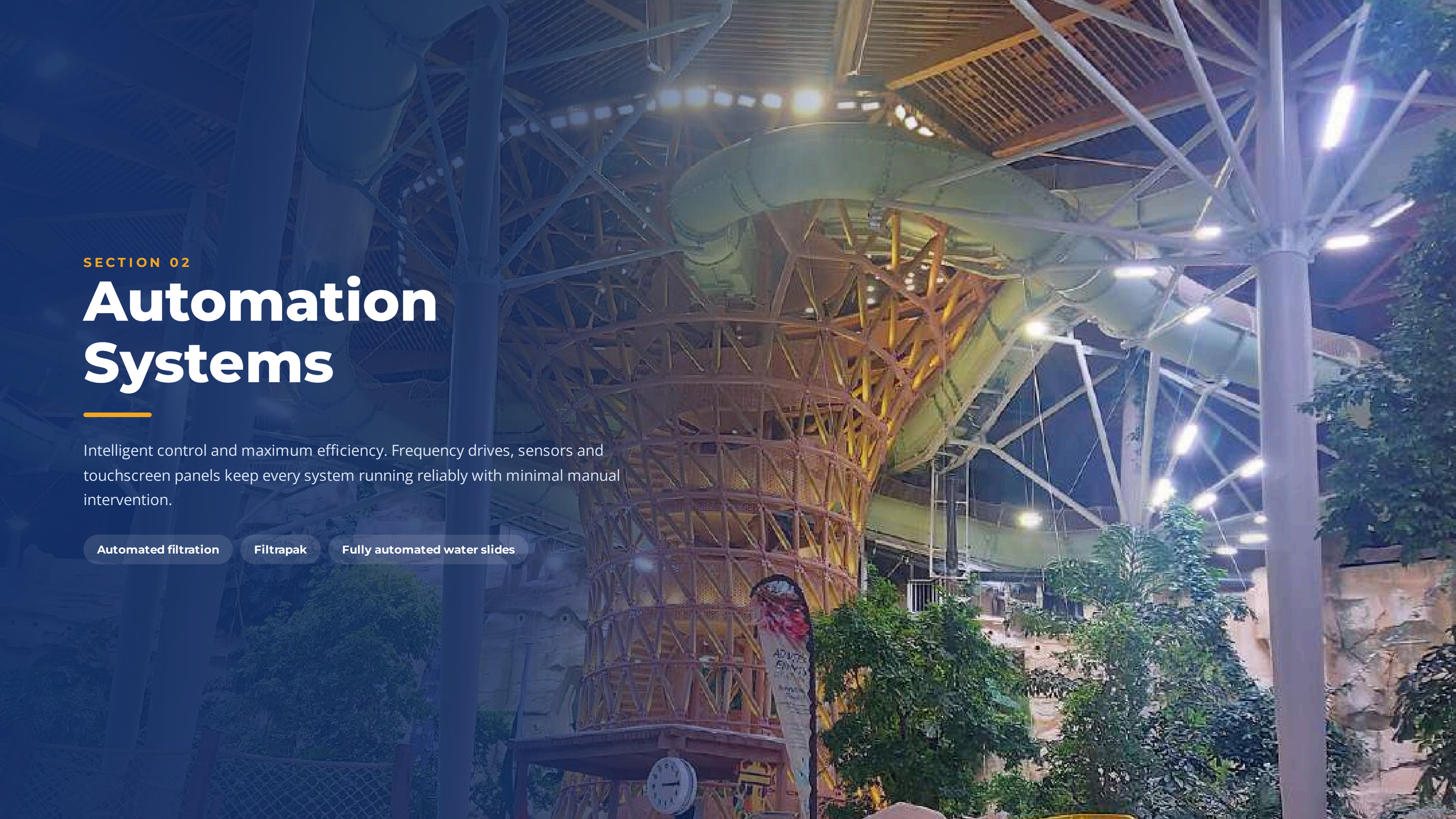
Factory-Built Mechanical Rooms

We deliver fully pre-assembled mechanical room packages, ready for connection. Pumps, drives, valves, fittings, filtration units and the complete electrical control panel are installed, configured and tested before shipment.

On site, only the pipe connections remain. Installation becomes simpler, common assembly issues disappear, and factory testing ensures superior quality and reliability.

10 days → ½ day

Typical mechanical room installation time with a packed system

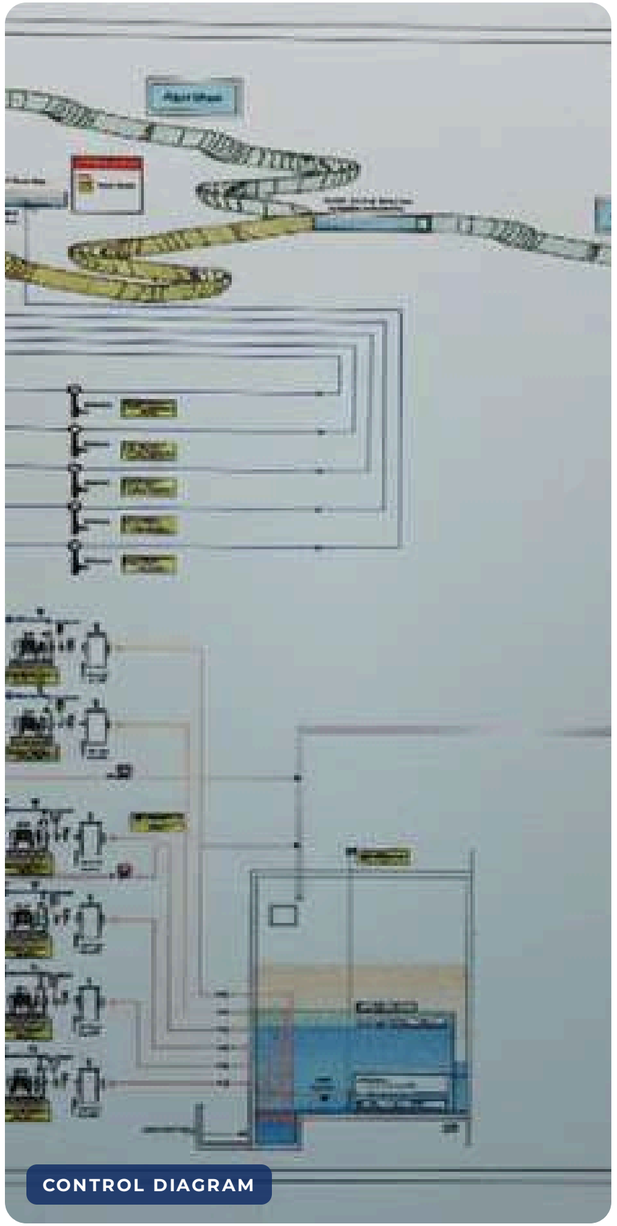


SECTION 02

Automation Systems

Intelligent control and maximum efficiency. Frequency drives, sensors and touchscreen panels keep every system running reliably with minimal manual intervention.

Automated filtration **Filtrapak** **Fully automated water slides**



CONTROL DIAGRAM



CONTROL PANELS

AUTOMATION

Intelligent Control, Maximum Efficiency

Our automated filtration and circulation systems integrate frequency drives for precise pump speed control, sensors that monitor flow, pressure and water quality, and a touchscreen panel with real-time data.

On slides, automation is tailored to each slide type and design: flow sensors and level detectors adjust the water supply automatically for consistent, safe operation.

The result is less manual work, lower energy and maintenance costs, and stable long-term performance.

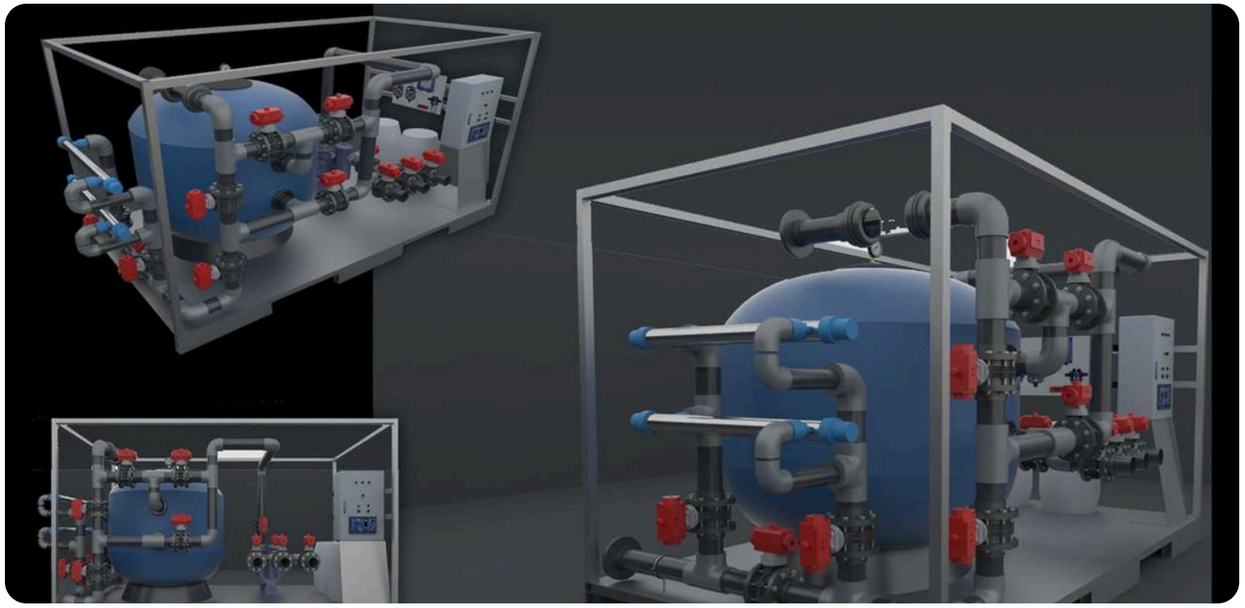
DRIVES
Inverters / VFD

SENSORS
Flow • pressure • quality

INTERFACE
Touchscreen panel

MONITORING
Real-time data





FILTRAPAK

Filtrapak

Filtrapak is an automatic filtration unit that transfers routine operation and maintenance tasks from staff to machine. All filtration components come fully assembled and tested as a ready-to-run package: make the external connections, press start, and Filtrapak takes care of the rest.

MODEL	POWER (KW)	POOL & BALANCE TANK (M^3)	DIMENSIONS (M)	OPERATING WEIGHT (KG)
FP1900	1.5	90	1.80 × 1.20	1,440
FP11250	2.2	150	2.70 × 1.50	3,150
FP11400	3.4	180	3.00 × 1.65	4,165
FP11600	4.0	240	3.00 × 2.00	6,080
FP12000	5.5	360	3.50 × 2.50	10,680
FP2900	3.0	180	3.50 × 1.20	2,810
FP21250	4.4	300	4.30 × 1.50	6,180

Filtrapak Advantages

01

Saving costs

Fewer technical staff and operators needed, smaller technical areas and lower construction costs.

02

Eco friendly

Backwash and filtration cycles programmed to the pool size reduce water waste.

03

App monitoring

iOS and Android apps show pressure, flow, temperature and error alerts on one screen, with UV lamp and dosing electrode life tracking.

04

Reports & archives

Daily, weekly and annual reports on water and chemical consumption from sensors across the system.

05

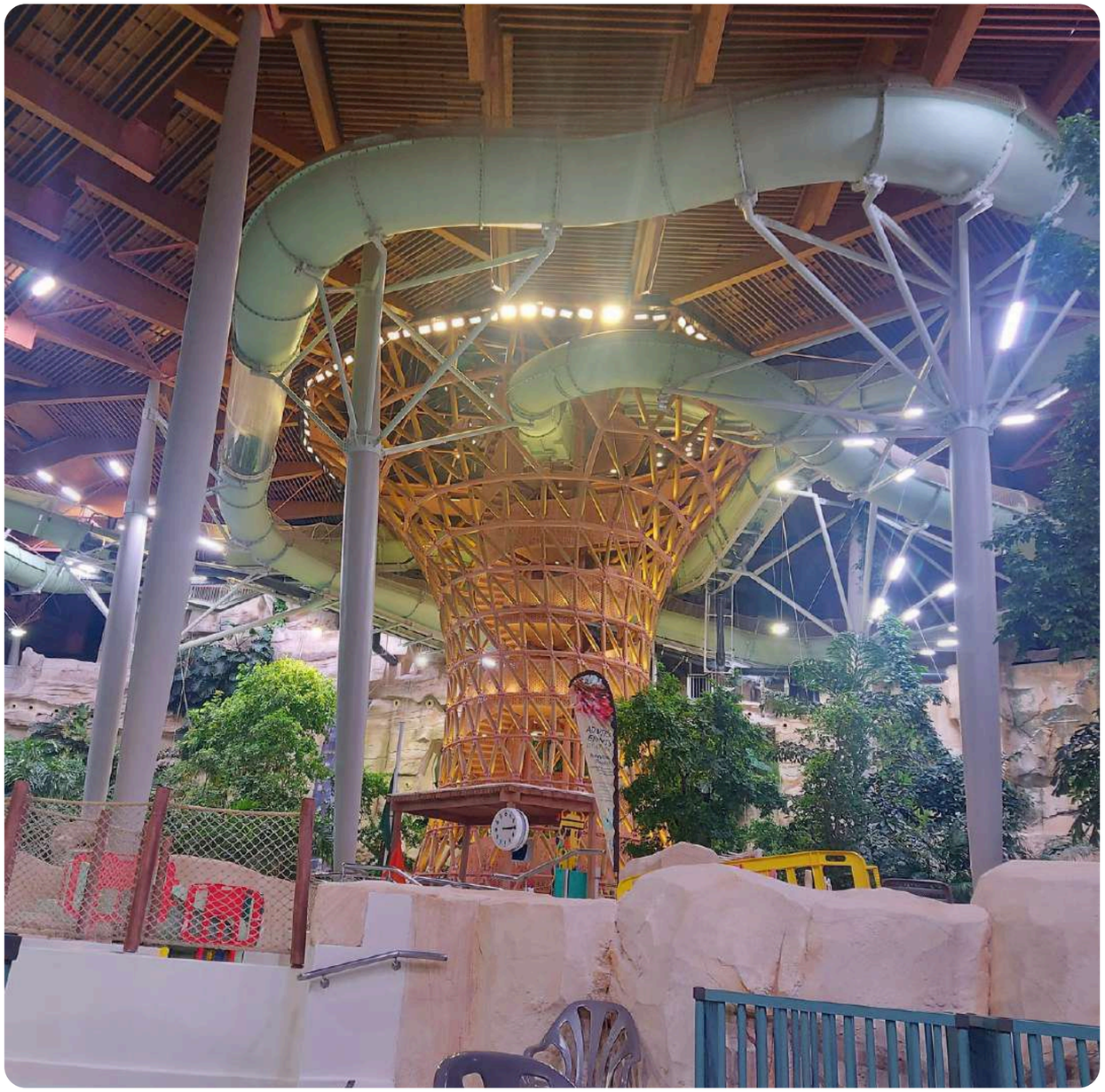
Accessories

Heat exchanger, pool lighting, spare pumps, waterfalls and massage pools can be integrated.

06

Smart remote access

Remote monitoring and troubleshooting from a smartphone, tablet or computer, compatible with central control systems.



AUTOMATION

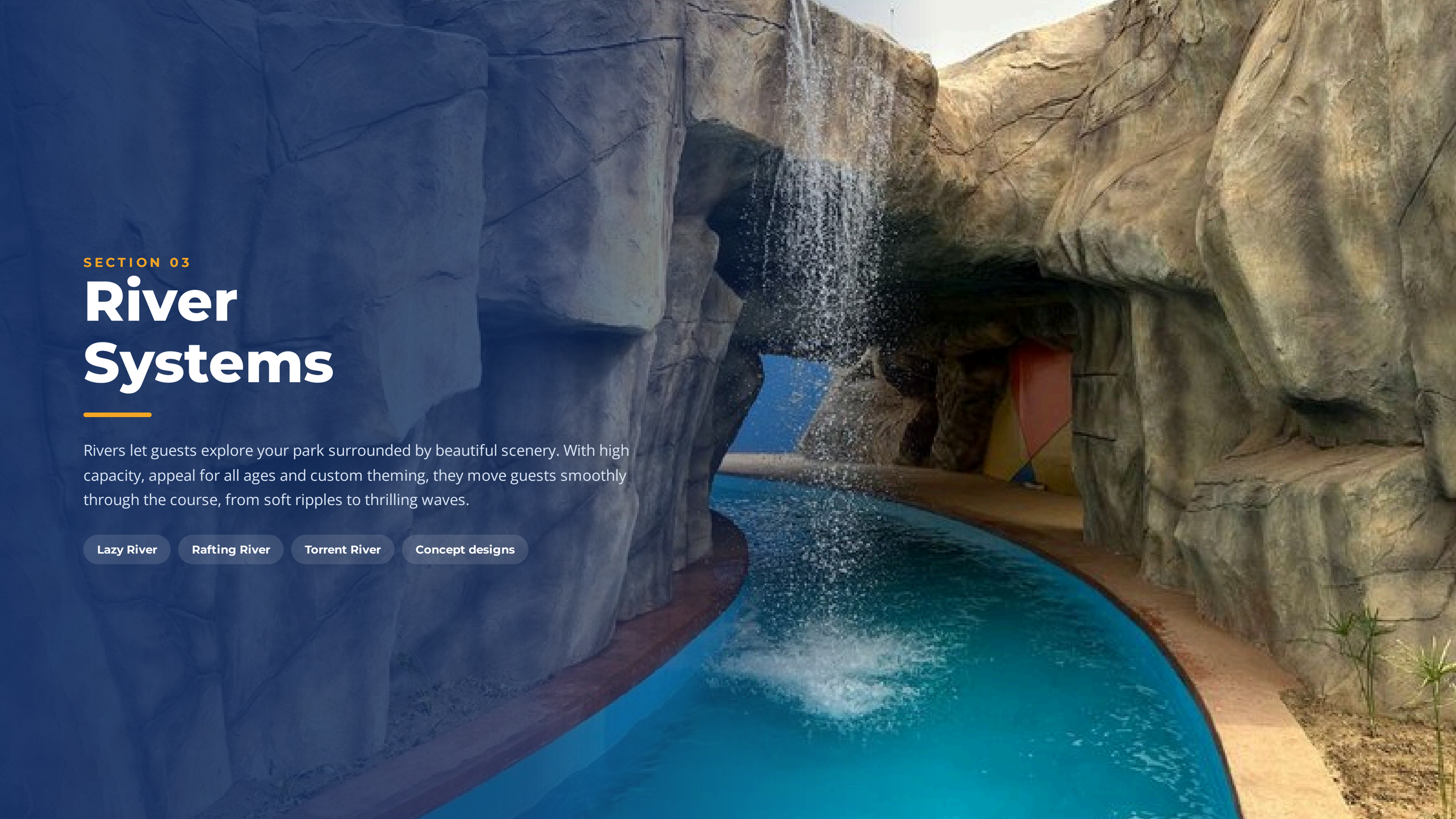
Fully Automated Water Slides

We provide fully automated, energy-efficient waterslide circulation systems. Advanced PLC software, sensors, VFD drives and touchscreen interfaces raise the automation level of each slide and increase its capacity.

On slides where only two riders could go at once, our automation allows four to six riders to slide safely at the same time without interfering with each other, significantly boosting throughput while keeping the highest safety standards.

2 → 4–6 riders

Simultaneous riders on the same slide with automation



SECTION 03

River Systems

Rivers let guests explore your park surrounded by beautiful scenery. With high capacity, appeal for all ages and custom theming, they move guests smoothly through the course, from soft ripples to thrilling waves.

Lazy River **Rafting River** **Torrent River** **Concept designs**

RIVER SYSTEMS

Three Ways to Go With the Flow

Cost-effective, low-maintenance and easy to operate, with multiple wave modes that operators can select.



01

Lazy River

A relaxing float through the park with a gentle, steady flow.

FLOW	0.5–1.5 m/s
AGES	All ages



02

Rafting River

A lazy river with an extra touch of excitement from gentle waves.

WAVES	up to 0.6 m
AGES	All ages



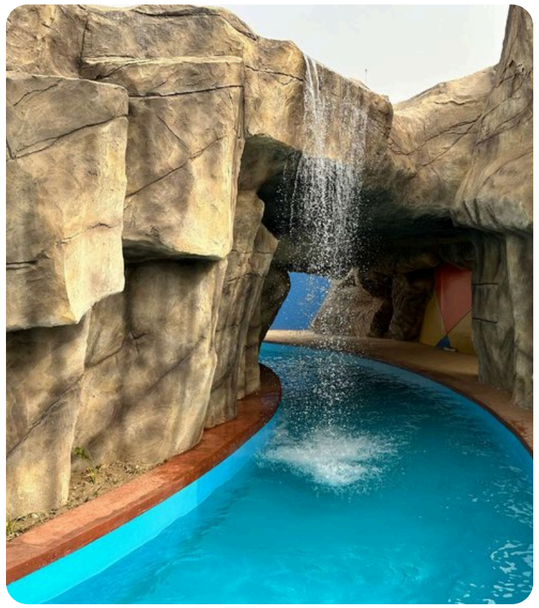
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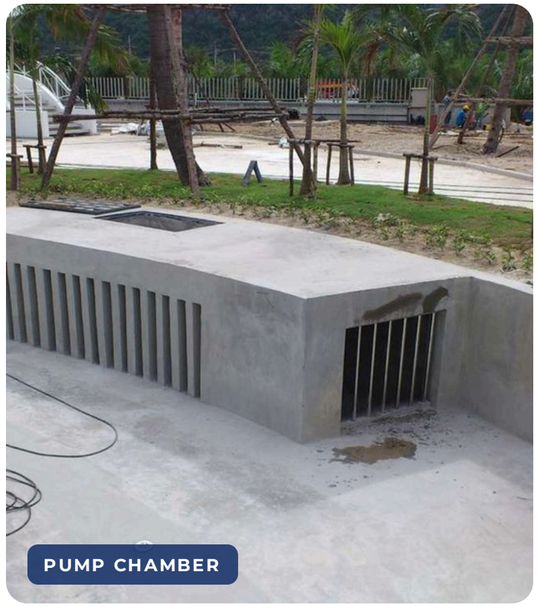
Torrent River

Powerful wave surges that turn the river into an adventure.

WAVES	up to 1.5 m
AGES	All ages







PUMP CHAMBER

RIVER SYSTEMS

Lazy River

A fun, relaxing journey around the park, floating leisurely in a ring-shaped river up to 1.2 m deep, flowing in one direction at 0.5 to 1.5 m/s. In large parks the river can reach 750 m.

Our special high-efficiency propellers move the water with only a few motors. A 300 m river that would typically need 300 kW runs on just 40 kW with the Atlantis system.

TYPE
Flow

SPEED
0.5–1.5 m/s

LENGTH
75–850 m

DEPTH
max. 1.2 m

MODEL	POWER (KW)	LENGTH (M)	WIDTH (M)	CAPACITY
R1	10 or 20	75–100	3–5	75–175
R2	20 or 30	100–180	3–5	150–300
R3	30 or 40	180–260	3–5	225–425
R4	40 or 50	300–550	3–5	300–550

LAZY RIVER

Lazy River Advantages



01

Energy efficient

A 200–230 m river runs on only 30–50 kW.

02

Fast installation

No pipes or nozzles needed. We supply the pump chamber design and install within 3–10 days after construction.

03

Speed control

Inverters in the electrical panels control flow speed and protect the pumps.

04

Safe by design

Units sit inside the river behind stainless steel guards, out of guests' reach.

05

Swedish pumps

Three pump options: 2.5 kW, 5.5 kW and 10 kW.

06

Retrofit ready

2.5 kW units can convert an existing traditional lazy river to our more efficient system.



RIVER SYSTEMS

Rafting River

The Rafting River combines the calm of a lazy river with gentle waves up to 0.6 m, creating a dynamic yet relaxing journey for all ages.

Guests float past scenic views and iconic attractions, even through food and beverage areas, while the river moves them naturally from one part of the park to another. Adjustable flow speeds and wave patterns offer everything from a peaceful ride to an exciting adventure.

WAVE TYPE **Pneumatic**	WAVE HEIGHT **up to 0.6 m (2 ft)**
FREQUENCY **typically 2.5 s**	AGES **All ages**



RIVER SYSTEMS

Torrent River

The Torrent River turns the calm flow of a lazy river into an exciting water adventure. Powerful wave systems release 10–20 m^3 of water every 60–180 seconds, sending waves up to 1.5 m high through the river at 5–8 m/s.

The Extreme River version gives riders a fun bump every few seconds with waves up to 0.9 m. Both can be integrated into park theming, with restaurants or viewing areas along the river, and help optimise guest circulation and energy use when combined with lazy rivers.

WAVE TYPE **Hydraulic**	WAVE HEIGHT **typically 0.9 m (3 ft)**
FREQUENCY **typically 15–20 s**	SURGE **10–20 m^3 / 60–180 s**

CONCEPT DESIGNS

River Concepts



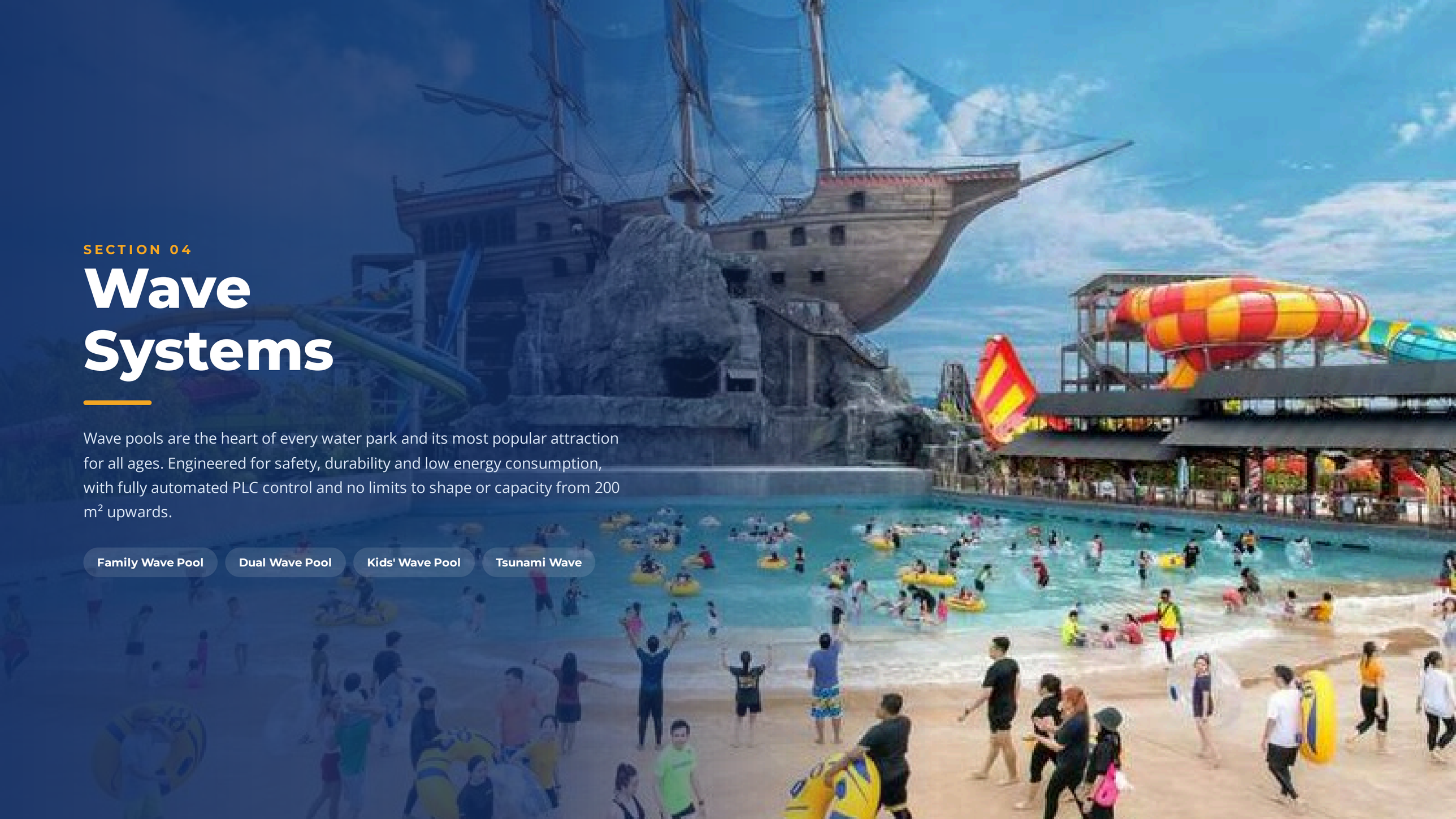
RIVER SPA



TORRENT & WAVE COMBO



SURF, WAVE & TORRENT COMBO



SECTION 04

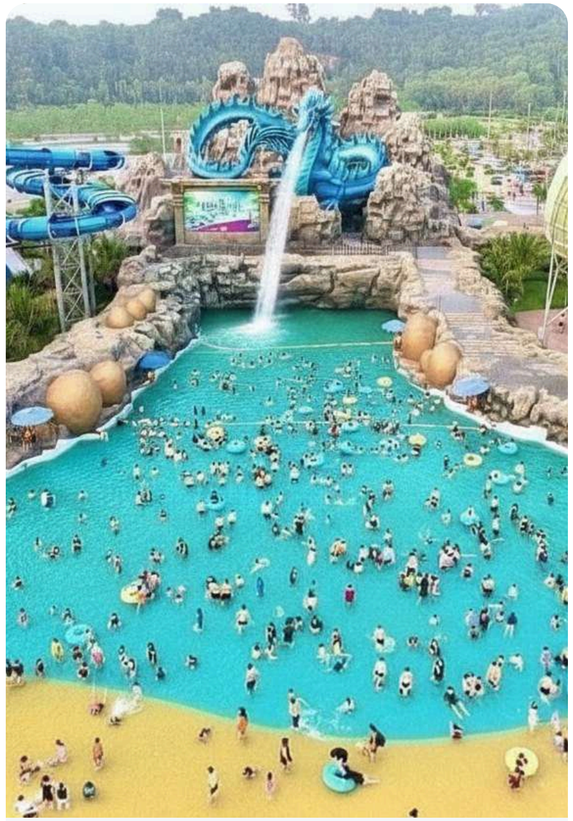
Wave Systems

Wave pools are the heart of every water park and its most popular attraction for all ages. Engineered for safety, durability and low energy consumption, with fully automated PLC control and no limits to shape or capacity from 200 m^2 upwards.

- Family Wave Pool
- Dual Wave Pool
- Kids' Wave Pool
- Tsunami Wave

WAVE SYSTEMS

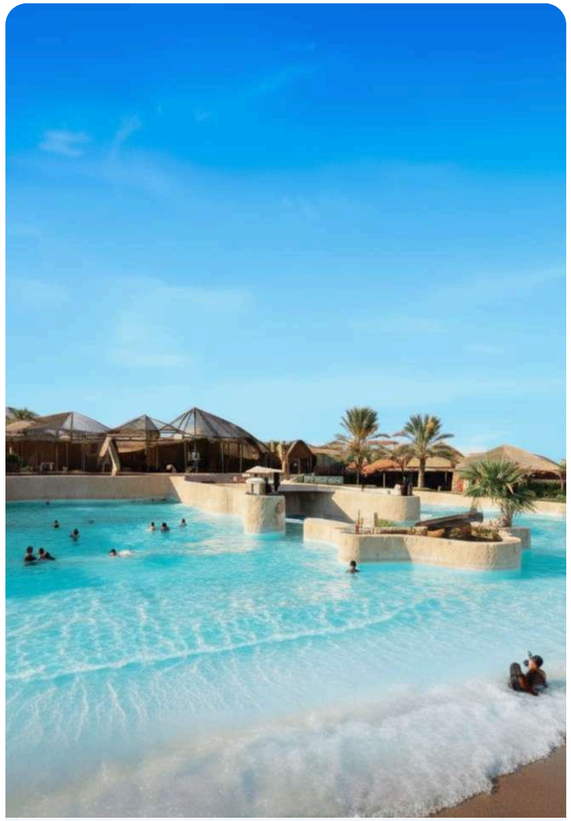
Bring the Ocean to Your Park



01

Family Wave Pool

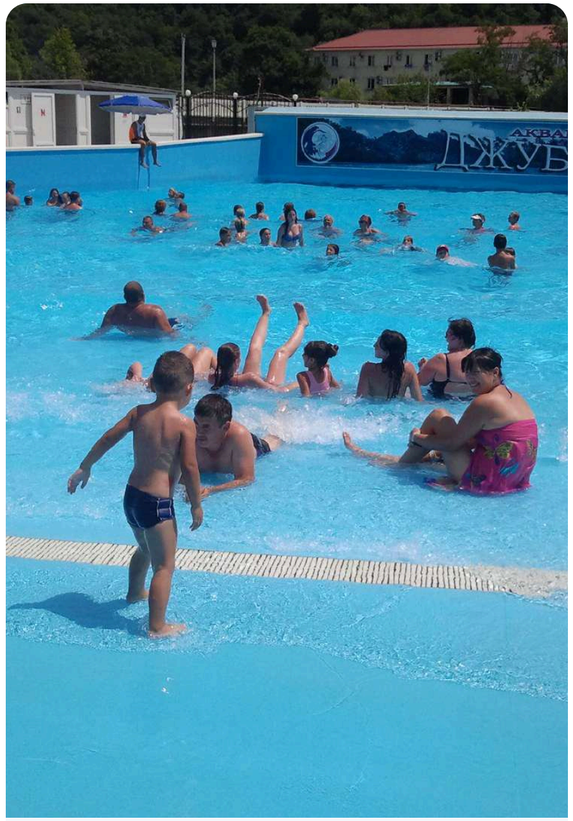
WAVES	up to 1.5 m
SIZE	185–4,650 m²



02

Dual Wave Pool

WAVES	up to 1.5 m
SIZE	185–4,650 m²



03

Kids' Wave Pool

WAVES	up to 0.9 m
SIZE	46–185 m²



04

Tsunami Wave

WAVES	2–7 ft
GUESTS	25+





WAVE SYSTEMS

Family Wave Pool

The central gathering point of any water park, with gentle, relaxing waves for guests of all ages. High capacity and a safe environment make it the perfect place for families to lounge, swim and have fun together.

Children's sections can be integrated into the main pool, and food & beverage kiosks and shaded areas around it increase revenue. Our pneumatic technology delivers variable heights, patterns and frequencies with minimal maintenance.

WAVE TYPE
Pneumatic

WAVE HEIGHT
variable to 1.5 m (5 ft)

POOL SIZE
185–4,650 m²

FREQUENCY
typically 2.75 s

WAVE PATTERNS
Double & double diamond · parallel & half parallel · V & inverted V · left & right diagonals



WAVE SYSTEMS

Dual Wave Pool

Dual Wave Pools combine a Family Wave Pool with a Surf Wave Pool, delivering two experiences side by side.

On one side guests enjoy calm family waves, on the other thrill-seekers ride larger surf-style waves. This two-in-one solution suits every age group and preference, with safety, variety and maximum guest satisfaction at the same time.

WAVE TYPE
Pneumatic

WAVE HEIGHT
variable to 1.5 m (5 ft)

POOL SIZE
185–4,650 m²

FREQUENCY
typically 2.75 s

WAVE PATTERNS
Double & double diamond · parallel & half parallel · V & inverted V · left & right diagonals



WAVE SYSTEMS

Kids' Wave Pool

Designed with safety and fun in mind, with gentle, playful waves for young swimmers. Shallow water and zero-entry beach areas let children splash, wade and build confidence in a secure environment.

Optional water play structures turn the pool into a fully interactive play lagoon, and Life Floor surfacing adds slip resistance and keeps surfaces cool.

WAVE TYPE
Pneumatic

WAVE HEIGHT
variable to 0.9 m (3 ft)

POOL SIZE
46–185 m²

FREQUENCY
typically 2 s

WAVE PATTERNS
Double & double diamond · parallel & half parallel · V & inverted V · left & right diagonals



WAVE SYSTEMS

Tsunami Wave

If you could reinvent surfing, it would look like this. Powerful, customisable and designed for riders of all levels, the Atlantis Tsunami Wave brings the thrill of the ocean anywhere in the world, with continuous rolling sets that are safe, efficient and flexible for operators.

More than a ride, it is an iconic inland surf destination that attracts guests of all ages and creates a strong return on investment.

SURF ZONES
Beginner · intermediate · pro

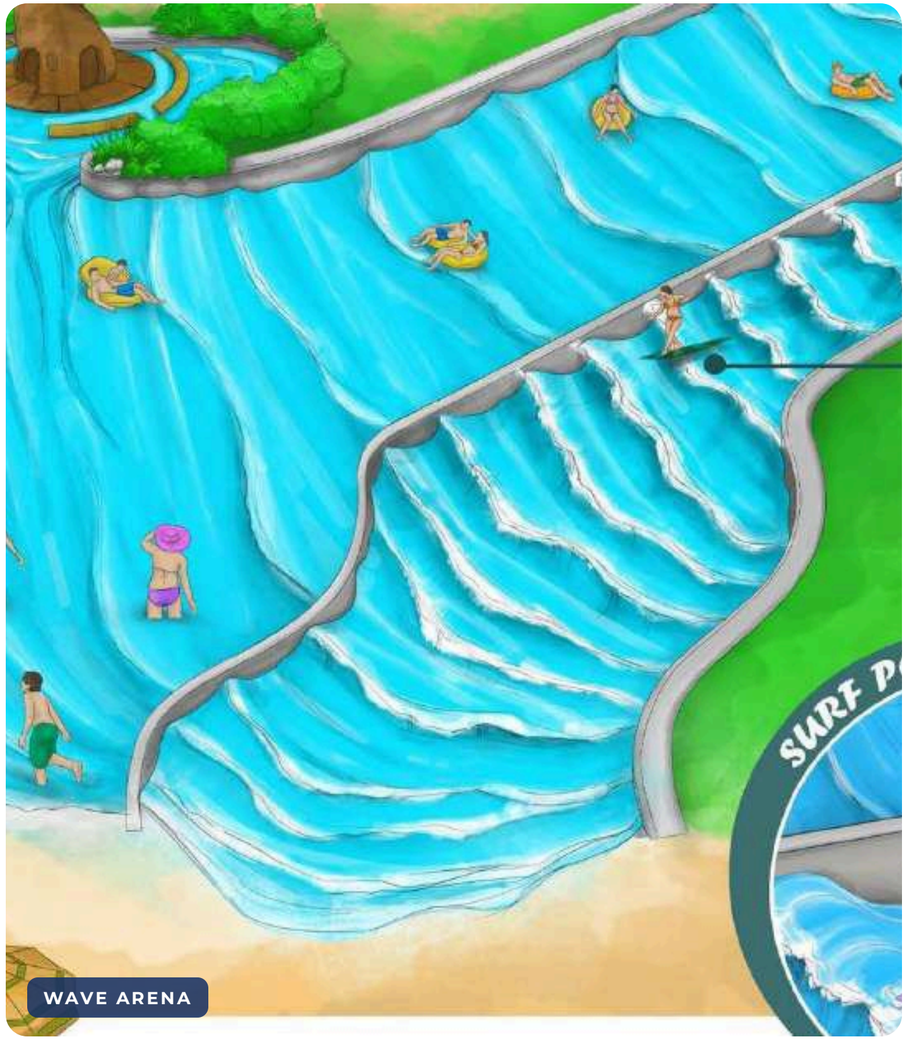
THROUGHPUT
up to 80 surfers / session

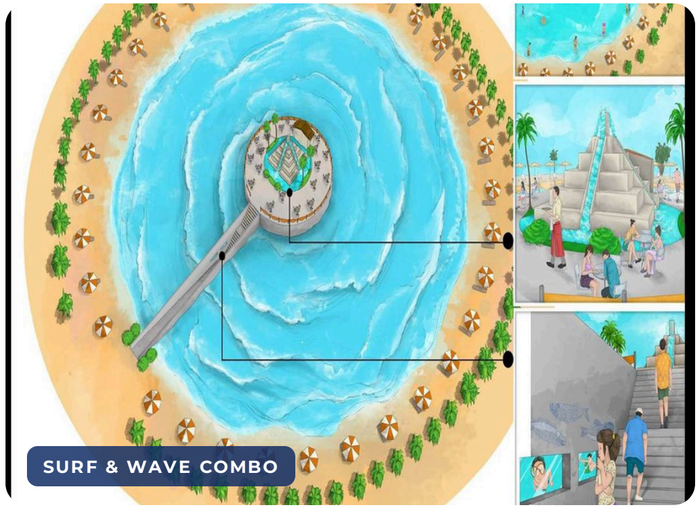
WAVE POWER
2–7 ft, rides up to 30 s

CONTROL
Size, frequency, style on demand

CONCEPT DESIGNS

Wave Pool Concepts









SECTION 05

Surf Systems

Surf pools are one of the rising trends in water parks, surf clubs, wave houses, shopping malls and outdoor venues, offering a unique adrenaline experience for riders and a natural crowd magnet for spectators.

Single **Double** **Triple** **Typhoon** **Tsunami Wave**

SURF SIMULATORS

Surf Pool Range

Basic and Pro riding modes make every model suitable for everyone. Brands such as Red Bull, Coca-Cola and Quiksilver have used surf pools in their campaigns and festivals.







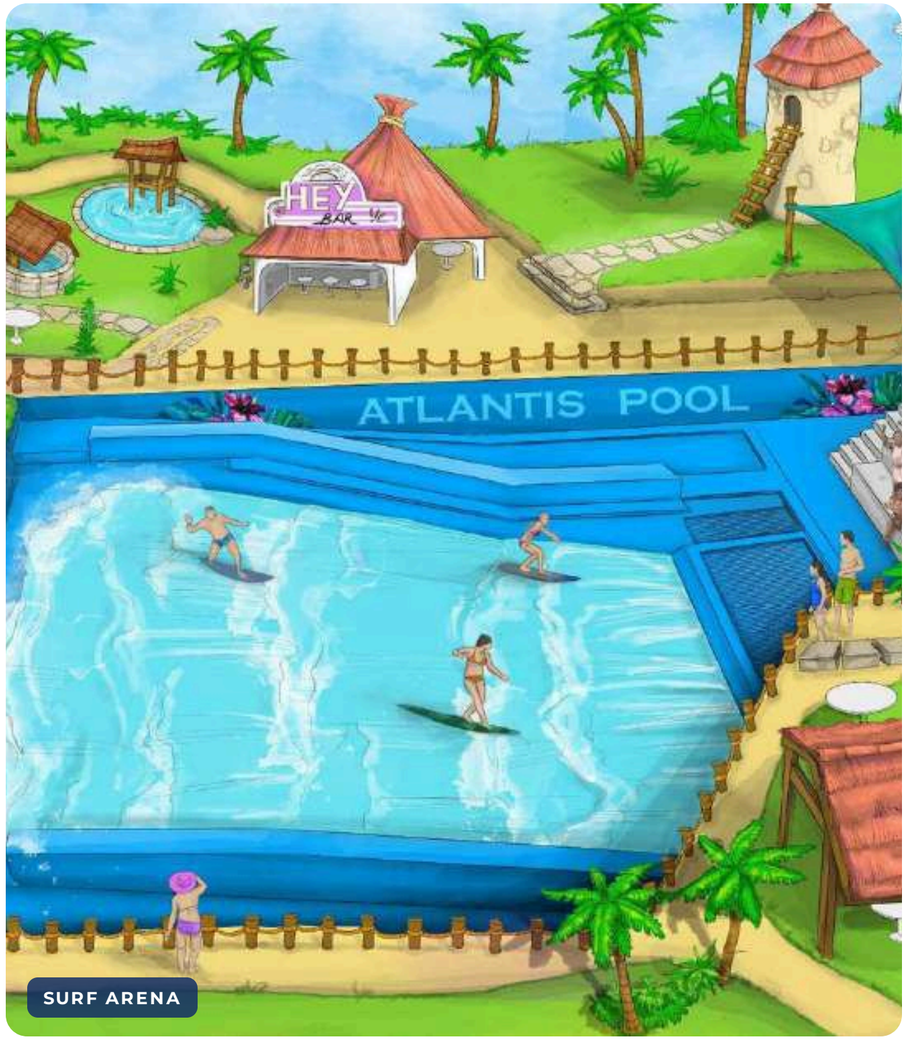


MODEL	RIDERS	WAVE WIDTH (CM)	SIZE (M)	FOOTPRINT	RIDES / HOUR	POWER
Single	1	230–400	8.60 × 15.50	130 + 15 m²	120–240	75 + 3 kW
Double	2	460–620	10.80 × 15.50	175 + 20 m²	240–480	150 + 5 kW
Triple	3	700–840	13.00 × 15.50	222 + 27 m²	360–720	225 + 6 kW
Typhoon	7	180° curved	57 m ride	655 + 15 m²	720–960	630 + 9 kW

Footprint = pool + mechanical room. Full specifications, surf café concept and references in our dedicated **Surf Pool Systems** catalogue.

CONCEPT DESIGNS

Surf Concepts



SURF ARENA


SURF CAFÉ


SURF CAFÉ



TYPHOON SURF

OUR JOURNEY

Milestones

Three decades of innovation in water park technology.



1996

First wave pool

Our first wave pool system, built in Antalya.

2003

Water parks

Entered the sector with our first water park project in Russia.

2004

Rafting & lazy rivers

First rafting and lazy combo river at Adaland.

2008

First surf pool

Our first surf pool, a Double model, in Ukraine.

2012

Easytainer

New solutions for water parks with the Easytainer system.

2019

Full automation

Fully automatic water slide with sensors.

2020

Hydraulic waves

Our hydraulic wave system built in Tajikistan.

2022

Largest wave system

Our largest wave system, built in Dubai.

PORTFOLIO HIGHLIGHTS

Selected Projects





Aqua Paradise

NESSEBAR, BULGARIA

Established in 2006 on 46,000 m², with 60 attractions and 38 water slides.





Splashmania

GAMUDA COVE, MALAYSIA

Giant wave pool, lazy river, triple surf pool, aqua disco, kids' area and extreme slides.





Damac Hills 2

DUBAI, UAE

Residential community with a central aquapark: wave pool, lazy river and surf pool.





Park Vega Waterpark

AGBOR, NIGERIA

Home to West Africa's largest wave pool, plus slides, aqua tower and splash pad.

PORTFOLIO HIGHLIGHTS

Selected Projects





Tropical Islands

KRAUSNICK, GERMANY

Europe's largest tropical holiday world, with Germany's largest water slide tower.





Sunrise Waterpark

ABUJA, NIGERIA

Part of the 5 million m² Sunrise Hills Estate mixed-use development.





VinWonders Nha Trang

NHA TRANG, VIETNAM

One of the most popular attractions of the VinWonders Nha Trang amusement park.





Little Greece

AQUA PARADISE, BULGARIA

A themed playground inspired by the blue and white huts of Santorini.

REFERENCES

Trusted Around the World

670+ projects in 65 countries. A selection of the parks and resorts running Atlantis systems.

Aqua Paradise BULGARIA	**Cartoon Network** THAILAND	**Jungle Aquapark Hotel** EGYPT	**Damac Hills 2** DUBAI, UAE
Parque de la Costa ARGENTINA	**Santorini Water Fantasy** THAILAND	**Aqua Tarin Waterpark** IRAQ	**Villages Nature** PARIS, FRANCE
Dalga Beach AZERBAIJAN	**Dino Waterpark** THAILAND	**H2O Waterpark** RUSSIA	**Bellaverde** BELGIUM
Banana Republic RUSSIA	**Bugis Waterpark** INDONESIA	**Kempinski Hotel** AZERBAIJAN	**Jumpyard Västerås** SWEDEN
Johor Austin Heights MALAYSIA	**Isla Mágica** SPAIN	**Dzhubga Waterpark** RUSSIA	**Vinpearl** VIETNAM
Sochi Waterpark RUSSIA	**Serena Waterpark** FINLAND	**Zurgaban Aquapark** UKRAINE	**Magic World Marina d'Or** SPAIN
Bataysk Don Park RUSSIA	**Aqualand Plovdiv** BULGARIA	**Tropical Islands** GERMANY	**Park Vega Waterpark** NIGERIA
Carthage Land TUNISIA	**Serenity Makadi Beach** EGYPT	**Splashmania Gamuda** MALAYSIA	**Kulli** DUSHANBE, TAJIKISTAN

OUR TEAM

We Are a Water Park Team

Engineers, designers, project managers and installation crews working together under one roof, from our design office in Bakırköy to our factory in İkitelli.

Our people have delivered projects on five continents, and they stay with you from the first concept to years of operation.





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