Enjoy ***Swimming!***

Rest will be
taken care of...



Flow Dynamics

Technical Consultancies LLC



Take the *plunge* of *happiness*

Jumping into a swimming pool is a wonderful experience! Make it even better with a dream pool, customized to your imagination and constructed with the latest technology and features.



Pools made with passion

Flow Dynamics India has already built more than 300 pools at various locations in India. We provide solutions for residential as well as commercial pools, currently totalling to over a million m3 of water every month. These figures are clear indication of how passionate we are about swimming pool design & construction.

We have built our reputation on the foundation of more than 12 years of experience in swimming pool system design & integration, installation, testing, commissioning, main tenance and operations. From consultation for your dream pool to fulfilling customer desires for a swimming oasis, when you dream it, we make it!

From the Founder's desk

INNOVATION & QUICK RESPONSE:

Key to high quality and value

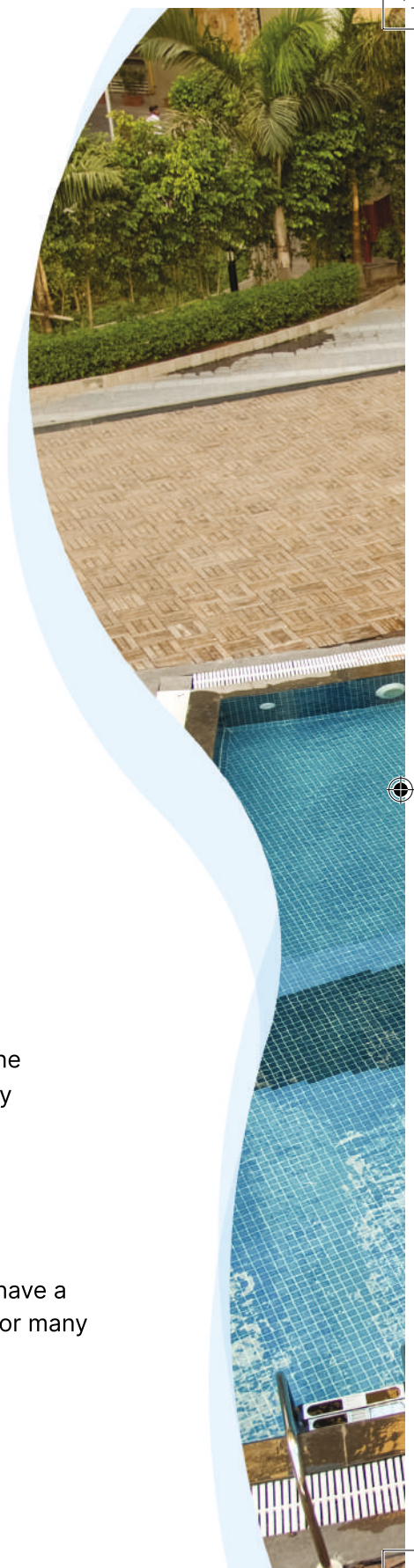
Ever since our establishment in 2006, be it water treatment or pool design & construction, our motto is environmental protection. We maintain the spirit of "Pursuing Excellence, Enriching Lives", by thinking of modernization, thorough research and implementation of innovative technologies as the guiding forces for our business. This has brought recognition to our water solutions & products in India and overseas.

FDI believes sustainability begins at home, but its destiny is to engage the problems of the world. Hence, we plan to keep on building our company's infrastructure & leadership in resolving the most pressing problems with a spirit of fearless responsibility, not just for our own growth & benefit, but the collective path we create as a part of the human family.

Your *Dream*
Our *Design*

No matter how complex your pool idea, we are sure to have a simple solution!

We have been offering many unique innovations like moving floors, indoor pools, pre-fabricated pools, fibre optic & LED lighting and a gamut of other materials to customize swimming pool lining. There are endless design possibilities when it comes to exclusivity of a pool.



Your *Pool*
Our *Reputation*

One of the pioneers in the industry, we have remained the most trusted & preferred pool professionals owing to our experience and expertise. Our engineers work closely with you to understand what your need is, regarding the size of the pool, preferred material, budget and time-frame. Our recommendations aim at offering a perfectly sized and stylized pool that meets all your expectations.

DESIGN AND CONSTRUCTION

Getting a pool is a big investment in terms of money as well as quality of life. FDI keeps the designing and building process simple and swift, so that maximum time is given to exactly meet your pool dreams. We listen closely to your ideas and then, customize your 'chilling' space which you can enjoy and proudly flaunt.

POOL REFURBISHMENT

Whether you need swimming pool installation, refurbishment, maintenance or repair, we have a team of highly skilled and qualified engineers who have been in the wet leisure industry for many years, and carry all the relevant accreditations to undertake the work.

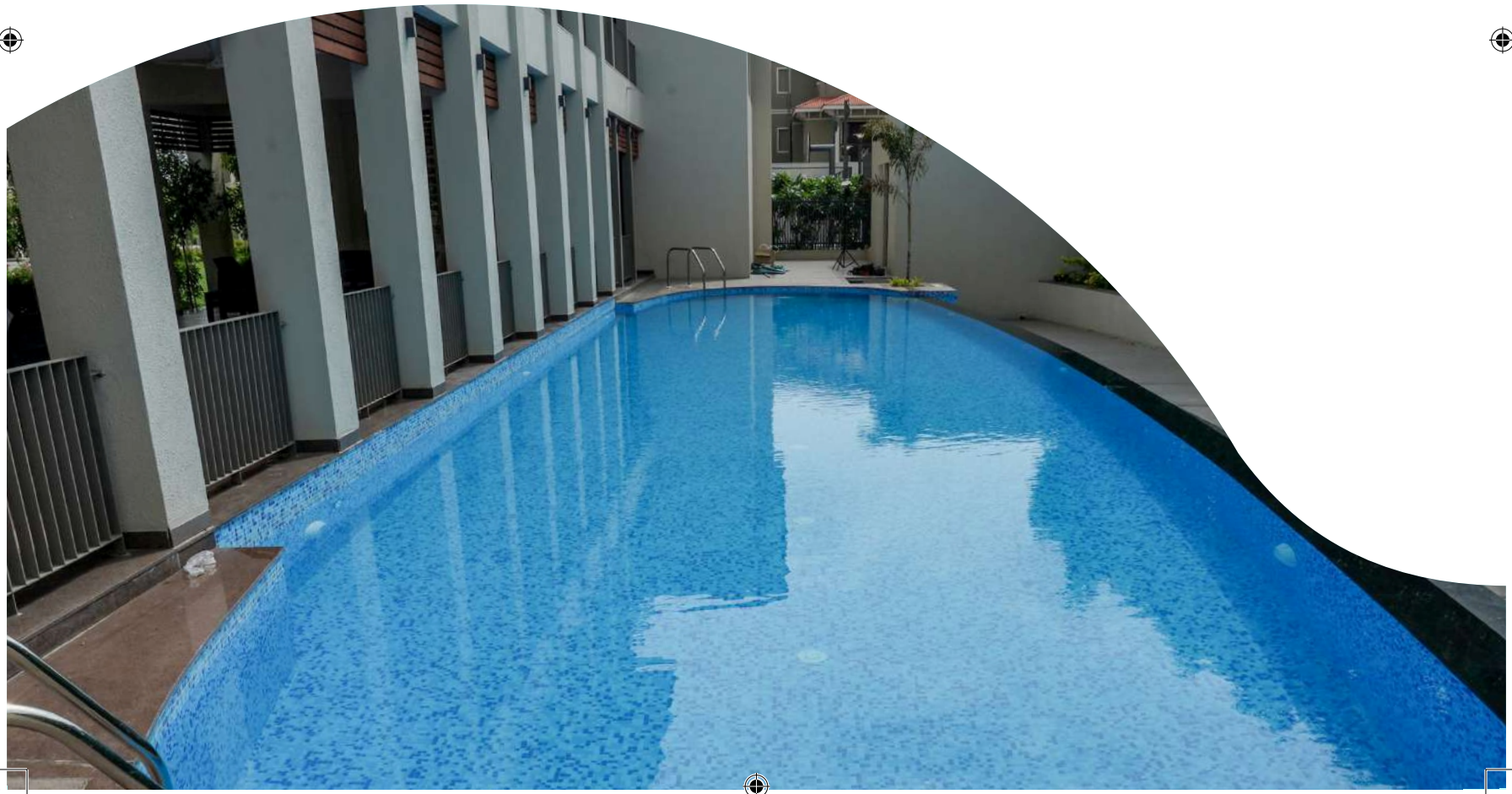

Creative Ideas
Custom Designs
Complete Pool Building

Our *Services*

- Water Chemistry Analysis
- Treatment Methods and hilosophy
- Providing guidance on FINA and WHO as well as International norms on swimming pool safety & water quality standards
- Sizing of processes, plants & equipment
- C-MEP Design & Detail Engineering
- Civil Layout preparation with plans & sectional details
- MEP Layout preparation, positioning all equipment locations
- Supervision of Civil Work and related services

Our *Execution Stages*

- Construction - Civil as well as pre-fabricated pools
- Inspection & Testing
- Supply & Installation
- Testing & Commissioning
- Operator Training
- Periodical analysis of water chemistry
- Trial Run
- 24x7 Operations and Maintenance



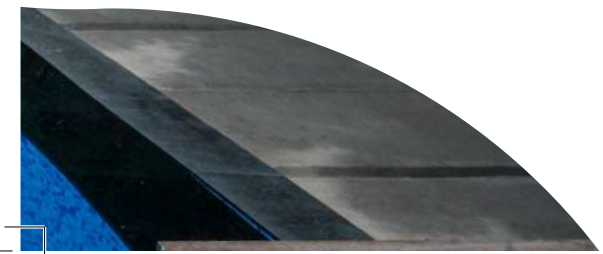


POOLS:
Systems & Engineering

Be it a lap pool, eco-friendly pool with complete warranty or a stunning infinity pool, FDI innovatively engineers every pool type. Forget the worries of high costs or high maintenance; simply trust our system engineering & designs to get a swimming pool that is complete in every aspect.

Some standard design features are

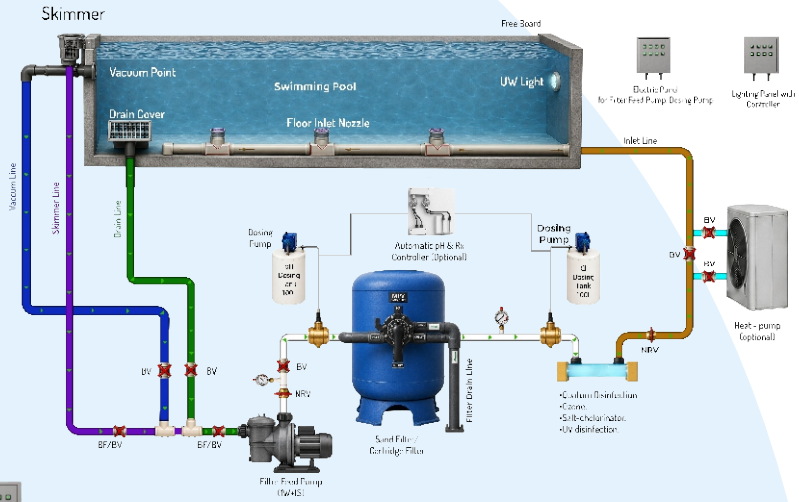
Filter | Pump | Multiport Valve | Skimmer | Main Drain | Suction Nozzle | Inlet Nozzle | Suction Sweeper | Suction Hose | Cleaning Brush Ladder | Spring/ Diving board | Underwater light | Cable Conduit Junction Box (Deck Box) | Electrical Panel | Dosing Pump | Tank for Chemicals | Heat Pump | Regulation and Control Equipment

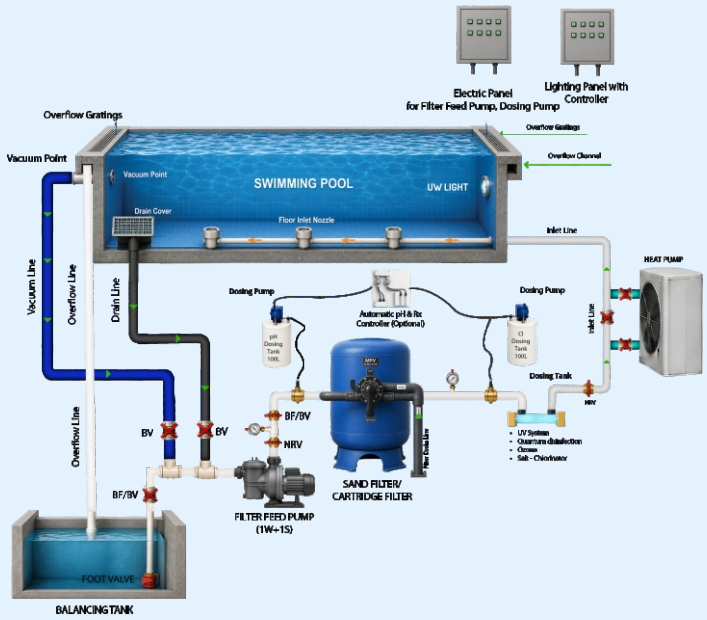


POOL *Types*

Skimmer Type

These have water outflow points located intermittently in the pool wall. The initial cost of installation is lower than the other type of pools but are limited to only small-sized pools with surface area less than 150 sq.mts.





Overflow Type

These type of pools have a continuous weir extending around the perimeter of the pool, assisting in the highest standard or circulation of water. But these are more expensive to build.

Wall Hanging Integral Filters (Pipeless Filters)

In case of small pools, pipeless filters can be used for filtration since they save the cost of plumbing, overflow channel and plant room.





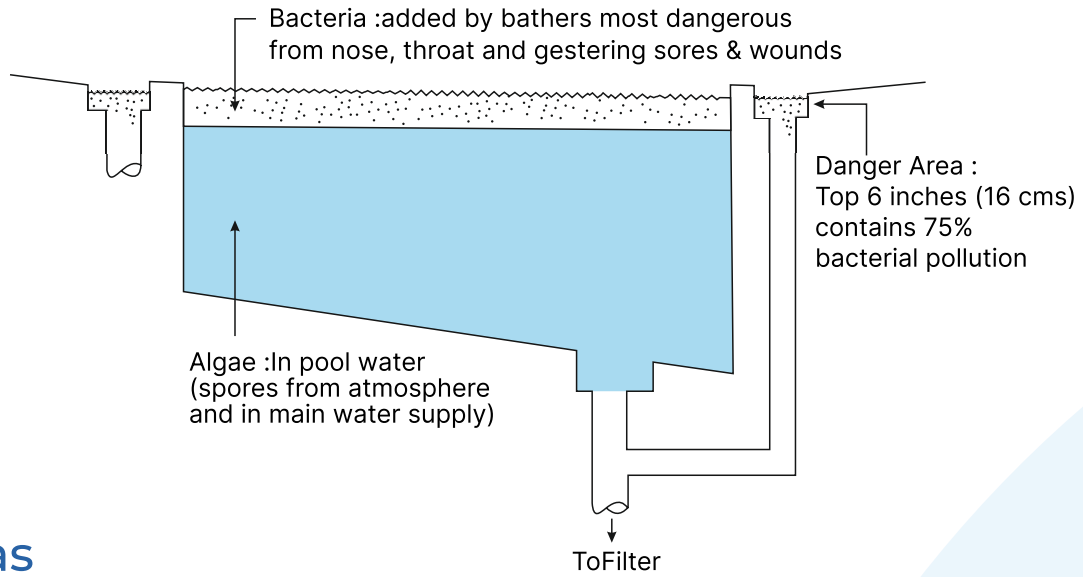
FDI innovatively engineers eco-friendly pools that come with unprecedented warranties. Forget the worries of high costs, high maintenance or any hassle. Simply trust our system engineering & designs to get a swimming pool that is complete in every aspect.

FDI has

- The widest range of Pool Disinfections Systems
- Most reliable selection of Basin Fittings
- A decade of experience in the heart of a pool – Filtration Systems & Pumps
- Designing and hydraulic engineering skills to build Piping/Plumbing Systems that conform to international standards
- An impressive range of Pool Accessories including Ladders, Diving Boards, Showers and more
- Best-in-market Maintenance Accessories like cleaning nets, brushes and fully automatic and remote controlled cleaners
- Unique Lighting Solutions for spotlighting, colours and reliable products for your peace of mind
- Water Massage System (Jacuzzi) and Spa Products to add an extra dimension to your pool
- Expertly designed Pool Heating Systems to reduce energy costs and improve pool experiences
- A variety of water-based Fitness Equipment

Biological Pollution of Swimming Pools

Living organisms which multiply rapidly in pool water, cause water to turn green and/or cloudy and soon make the pool unsafe for bathing if they are not treated effectively.



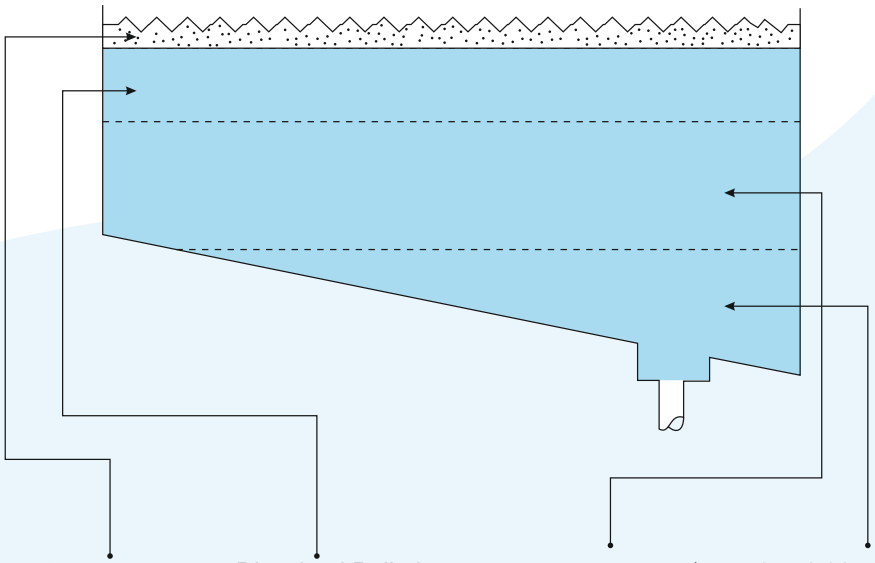
Pollution Areas

Danger Zone	:	The top 6 inches (16 cms) contain 75 per cent of bacterial pollution.
Algae	:	Arrives in pool water as spores from the atmosphere. Ozone is carried in from the main water supply.
Bacteria	:	Added by bathers - most dangerous from nose, throat bowel and bladder or from festering sores or wounds.

Methods of removal

- Maintain adequate Free Chlorine at all times. Free Chlorine will 'kill off' bacteria immediately and render the water safe for bathing.
- Provide an effective surface water draw off system.
- Maintain an efficient filltration system in a proper manner.
- UV and Ozone injection.

Physical and Chemical Pollution of Swimming Pools



Surface Pollution
Hair, Dust
Body grease
Mucus from Nose and Throat
Floating debris
Grass

Dissolved Pollution
Urine
Perspiration
Cosmetics
Suntan lotions

Suspended Pollution
Minute chemical particles by chemical Reactions in Water Treatment

Insolubles
Fluff
Dirt (soil, stones)
Precipitated chemicals
Sand from filters

Methods of removal

Surface Pollution:

- Remove surface water as soon as possible. Deck level pools are most efficient for this purpose, but other draw-off systems are also effective.
- Add sufficient Chlorine to maintain adequate Free Chlorine residue at all times.

Dissolved Pollution

- Ensure adequate filtration cycle.
- Add sufficient chlorine to 'break down' nitrogenous matter.
- Provide adequate circulation and pool water turnover.
- Ensure adequate dilution with fresh water.

Suspended Pollution

- Use minimum quantity of chemicals.
- Maintain balanced water in pool.
- Maintain careful control of pH and alkalinity.
- Use chemicals which do not produce suspended solids.

Deposited Pollution (Insolubles)

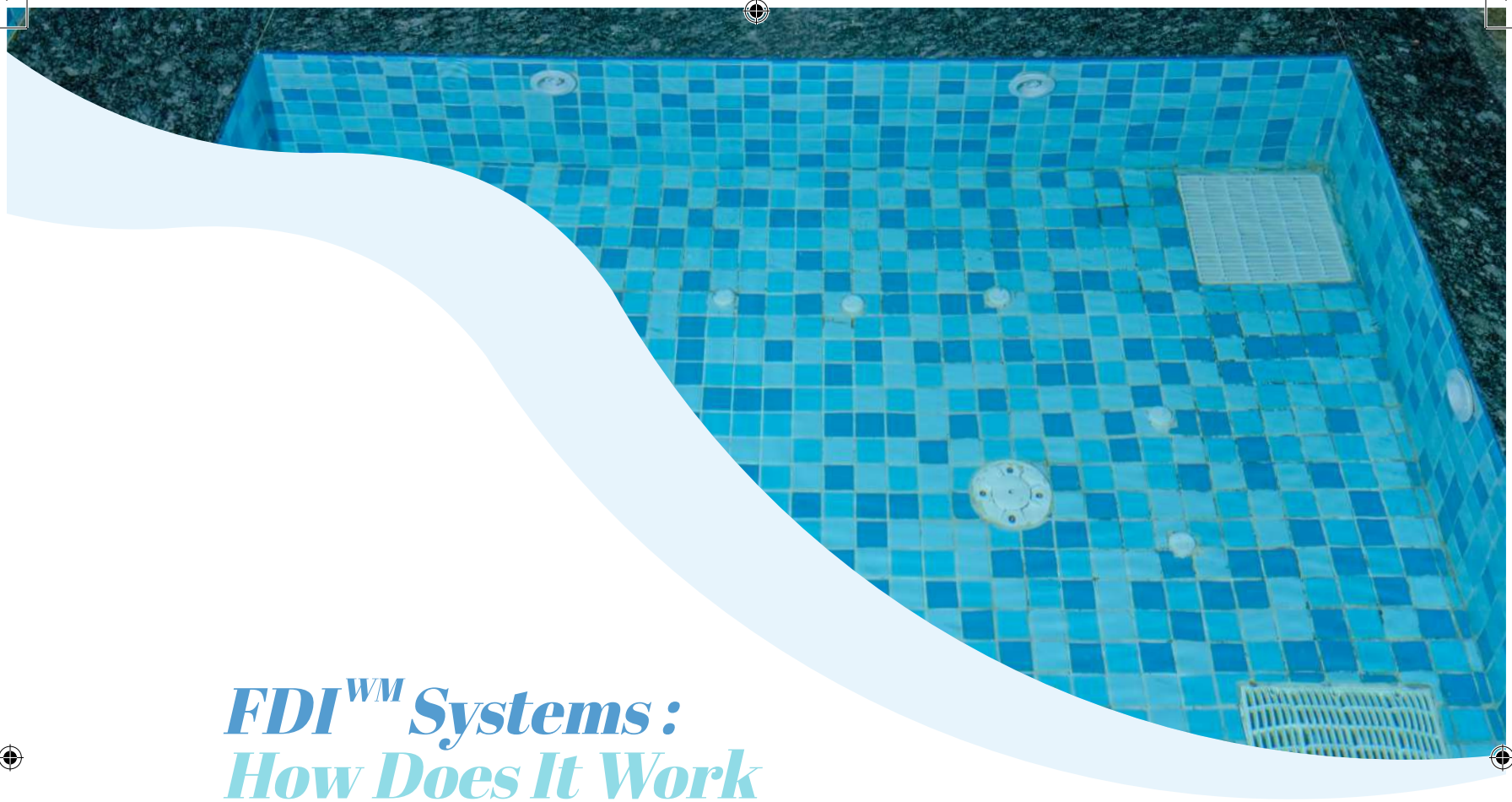
- Sweep or vacuum pool floor daily.

Water Massage System (Jacuzzi) FDI^{WM}

ONE OF OUR SPECIALITIES IS THE CUSTOMIZED WATER MASSAGE SYSTEM

- We have the ability to customize FDI^{WM} as per client's requirements, space availability & the seating arrangement.
- FDI^{WM} system is a technological wonder created to let you relax and restore the balance of mind and body.
- FDI^{WM} system can be built indoor or outdoor as per the client's needs.





FDI^{WM} Systems : How Does It Work

We all love entering FDI^{WM}, leaning back and enjoying the massage streams on our body.
Have you ever asked yourself how does this system work?

The FDI^{WM} is equipped with flexible P.V.C. piping, built in a way that allows even water flow to all the FDIWM jets. The FDI^{WM} works on a pumping and spinning principle: the pumps stream high pressured water and cause the water stream coming out of the jets installed in the shell and a suction system vacuuming the water, Recycles the process and creates circulation.

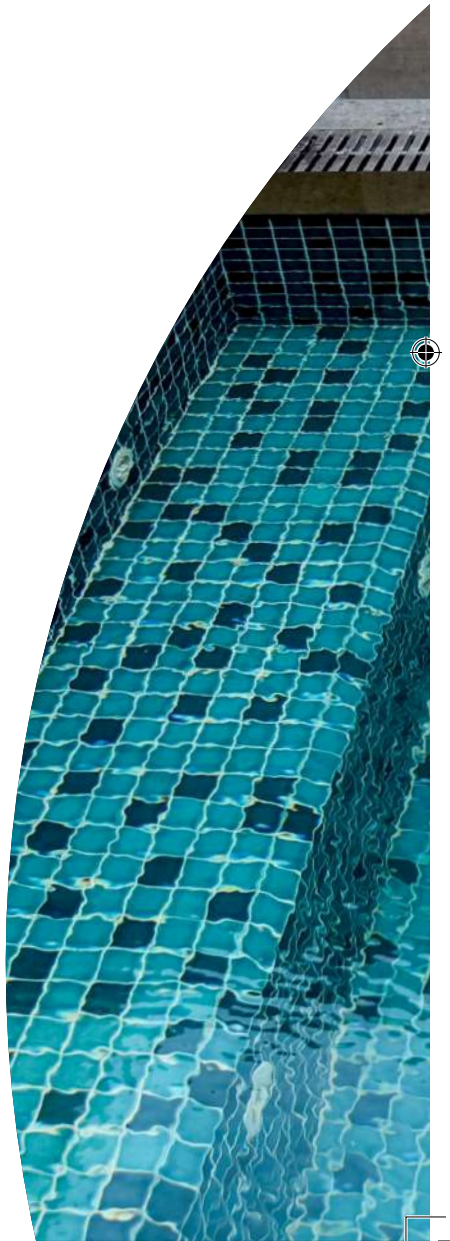
Systems equipped with advance temperature control facility which allows you to control the regular water temperature in the system. The water temperature is obtained by a heating element installed in the different water aisles in the system. Advanced systems are equipped with energy saving heating elements that allow you to leave your system usable all year round.

A FDI^{WM} is equipped with a filtering system for absorbing small dirt. In addition to the filter system, there is a need in having another disinfecting system to kill any other bacteria that might be in the water.



FDI^{WM} Salient Features

- FDI Provides Water Massage System Which is Physically and Mentally Therapeutic.
- We Propose material of construction as RCC due to highest durability of structure.
- In section we provide 4 Jets for per Person for upper back, lower back, calf and leg.
- Plan of seating (section) can be arranged as per customers need.
- VGB drain to reduce unwanted water pressure.
- A properly designed aeration system to provide a atmospheric oxygen in water with bubbling effect.
- Correctly engineered seats for comfortable seating for user.
- Extra ordinary “underwater” lighting.
- Aesthetically attractive design layout with comfortable entrance to the basin.
- Filtration system design as per WHO guidelines to provide hygienic and extremely clear water quality.
- Unique engineered hydraulics to make the system most durable & efficient.





Health Benefits

- Relieves stress
- Cleans the skin
- Eliminates toxins
- Improves blood circulation
- Helps you sleep
- Relaxation of body
- Sense of mental well-being and rejuvenation

Flow Dynamics India pool is innovatively engineered, eco-friendly and comes with unprecedented warranties. Ideal system engineering and design suggest use of following equipment to develop a swimming pool that is complete in all respects.

Pool Disinfection Systems

Having the correct level of sanitizer in a pool is a must. Flow Dynamics India's range of dosing and sanitizing units will automatically maintain the water at just the correct level of additives. We offer a wide range of solutions that can be used from the smallest home pool up to large corporate pools such as,

- Chlorine Dosing Mechanism
- UV System
- Ozone Generation System





Pool Basin Fittings

Flow Dynamics India's extensive experience in selection of basin fittings has allowed us to produce a range of innovative systems for the pool industry.



Pool Filtration & Pumps

The heart of any pool is its filtration system keeping the water clean and bright. Our filtration systems come directly from our factory, fully assembled, sized to suit your pool with a guaranteed performance complying with all the relevant standards.





Pool Surrounding Accessories

Complete your pool with our range of accessories including Ladders, Gratings, diving boards, showers etc.







Automatic Pool Cleaning Robot



Robotic Pool Cleaning Technology

Complete Floor, Wall & Waterline Cleaning

Reduces Manual Cleaning Effort

Consistent Pool Hygiene

Lower Operational Cost

Temperature Controlled Pool

Flow Dynamics India designs heating systems which can reduce the heating cost by installing an energy efficient swimming pool heat pump / heater with a scroll compressor and noiseless heating system. Using a cover on your pool can save on heating bills when the pool is not in use.



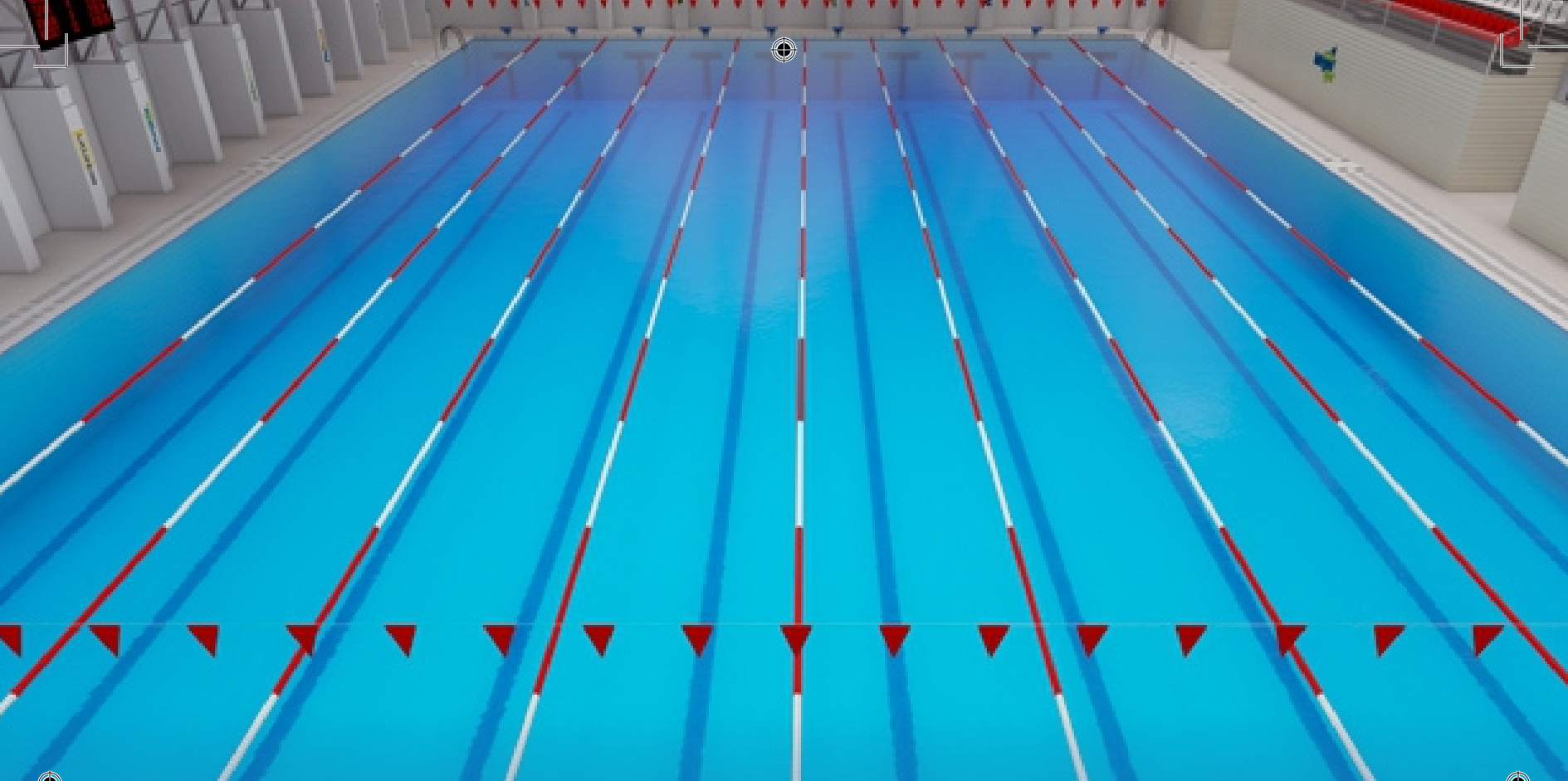
Pool Lighting

Innovative and technological solutions with unique light effects. Flow Dynamics India offers a wide range of lighting / spotlights for all needs with different powers and colors, reliable LED or RGB products with various MOC available in the market, up to 4000 lumens.









Olympic Size Swimming Pool

Flow Dynamics India Pvt. Ltd. provides complete engineering, technology, and execution expertise for Olympic size swimming pools designed for professional performance, superior water quality, and long-term operational reliability.

Our approach includes detailed pool design, advanced filtration, efficient circulation, automatic chemical dosing, pH and chlorine control, underwater lighting, heating systems, electrical control panels, and intelligent automation. Each system is carefully planned to maintain consistent water clarity, safe swimming conditions, energy-efficient performance, and ease of operation.

With strong experience in swimming pool engineering, water treatment, and automation, Flow Dynamics India delivers end-to-end support from concept development to installation and commissioning. Our Olympic size pool systems are ideal for sports complexes, educational institutions, clubs, training centres, townships, and large recreational facilities.

FDI SWIMMING POOL SERIES

	FDI-SP- EP Essential Pool	FDI-SP-STD Smart Standard Pool	FDI-SP-LUX Premium Luxury Pool
Model Highlights	FDI-SP-EP Essential Pool	FDI-SP- SSP Smart Standard Pool	FDI-SP-PLP Premium Luxury Pool
Key Features	A practical swimming pool system with essential manual filtration, conventional dis-infection system and basic cleaning arrangement.	A reliable pool system with working + standby filtration pump and Advanced disinfection for improved performance and safety.	A fully automated luxury pool system with smart control, efficient filtration system, automatic disinfection, robotic cleaning and temperature control.
Filtration System	Manual filter operation with conventional sand media	Manual filter operation with conventional sand media	Auto filter operation with glass media
Pumping System	1 working filter feed pump	1 working + 1 standby filter feed pump	1 working + 1 standby filter feed pump* (*inverter technology and one touch operation)
Disinfection System	Manual dosing pump with dosing tank	Manual dosing + advanced disinfection system such as quantum/ozone	Automatic dosing system with dosing tank & agitator, advanced disinfection system such as quantum/ozone
Pool Cleaning	Manual vacuum process with conventional cleaning accessories	Automatic pool cleaning robot with App control	Automatic pool cleaning robot with Advanced navigation system with LiDAR Technology
Temperature Control	Not Included	Not included	Temprature Controlled Pool
Water Features	Water Features	Water Features	Water Features
Automation	Not included	Not included	FDI -CONNECTS
Jacuzzi / Aquatherapy	Not included	Jacuzzi Included	Jacuzzi + Aquatherapy
Waterproofing & Tiling	Not Included	Included	Included
Pool Cover	Not included	Manual Pool Cover	Automatic Pool Cover
Warranty	Warranty: 1 year of the entire Plant 5 years on the Pool Filter	Warranty: 1 year of the entire Plant 5 years on the Pool Filter	Warranty: 1 year of the entire Plant 5 years on the Pool Filter *5 Years on Pump (3+2 years of Extended) **5 Years on Automatic Valve (3+2 years of Extended) 2 years on Pool Cleaning Robot

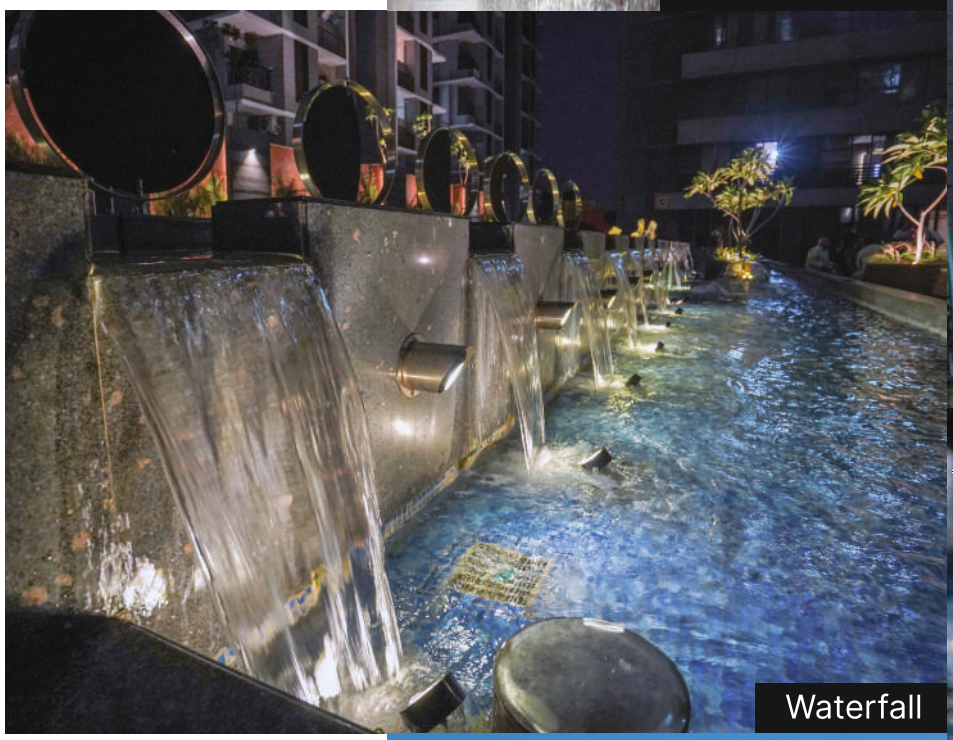
Fun with Fountains

Add a lovely display of cascading water to your pool or simply get a water feature to elevate your property. Installing water fountains amazingly liven up outdoors, and FDI excels in so many types of fountains that you are sure to find the one that perfectly suits your space.

- Cascade Jet
- Bell Jet
- Clear Jet
- Tulip Jet
- Foam Jet
- Single Jet Water Feature
- Rain Curtain
- Waterfall
- Mist Water Feature
- Spout Fountain



Rain Curtain



Waterfall



Single Jet Water Feature



LAMINAR FLOW WITH LIGHTNING



WATER SPOUT



DRIZZLING WATER EFFECT



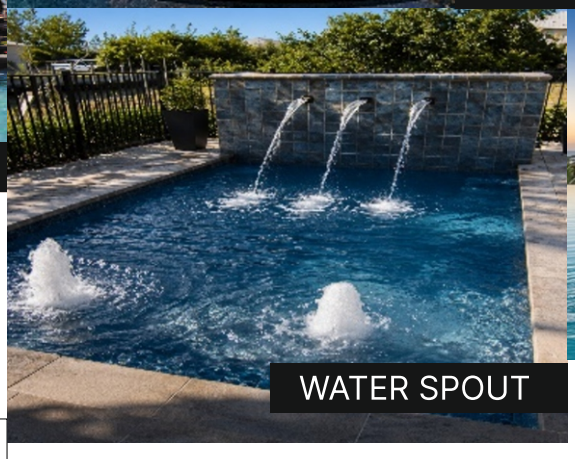
SINGLE JET



RAIN SHOWER



WATER CURTAIN



WATER SPOUT



WATER SPOUT



CASCADE JET

FDI i-CONNECTS

Filtration Management

» Automatic filtration mode for all filters

» Real-time pressure monitoring and analysis across all filters

Water Quality Control

» pH and ORP (Chlorine) level indication

» Automatic control of pH and Rx on preset values

Lighting Control

» Underwater lights on/off status indication

Temperature Monitoring

» Real-time pool temperature monitoring (for temperature-controlled swimming pools)

» Heat pump error code monitoring and display

Chemical Safety Alerts

» Low-level alerts for all chemical solution tanks

Equipment Area Protection

» Water clogging alarm in the equipment area (if applicable)

Motor Performance Monitoring

» Real-time ON/OFF status indication for all motors

» Live ampere monitoring for all motors

» Under-current and over-current set value indication

» Motor trip indications:
- Under-Current Trip
- Over-Current Trip
- Level Trip (where applicable)

Pump Scheduling

» Pump operation with cyclic timers

» Remaining switch-over time display

Historical Data & Reporting

» Historical working-hours data logging for all motors

Flow Dynamics

Technical Consultancies LLC

SCAN TO EXPLORE
OUR PROJECTS