



Product Brochure
& Specifications

FIBREGLASS FILTERS

INNOVEZ FIBREGLASS FILTERS ARE MANUFACTURED IN THE HIGHEST QUALITY AND DESIGNED TO WITHSTAND THE HARSHTEST AQUATIC ENVIRONMENTS

INNOVEZ FIBREGLASS FILTERS

Innovez fibreglass filters are built using the best in fibreglass technology and designed to last for years. Designed to cater to various applications, Innovez fibreglass filters are available in various sizes in both vertical and horizontal configurations, top or side mounts. Innovez fibreglass filters can be customised to adapt to customer's specifications and installation conditions. Effortless to maintain, Innovez fibreglass filters can be used in large commercial, residential and institutional swimming pools, water features, spa pools and water theme parks.

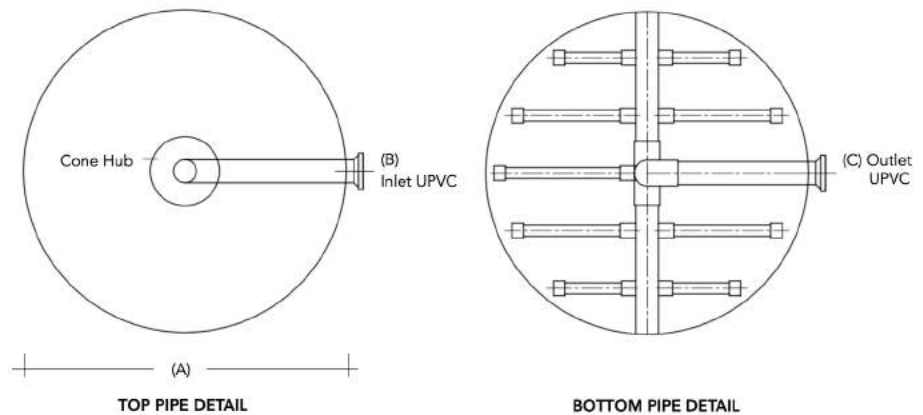
Key features of Innovez fibreglass filters:

- High filtration flow rate
- Withstands pressure of up to 350kPa
- UV and corrosion resistant
- Hydraulically balanced laterals
- Custom size and configuration to suit requirements
- Influent manifold distribution to prevent clogging
- Optional manual / semi-automatic / automatic backwash systems for one or two tank configurations

VERTICAL CONFIGURATION

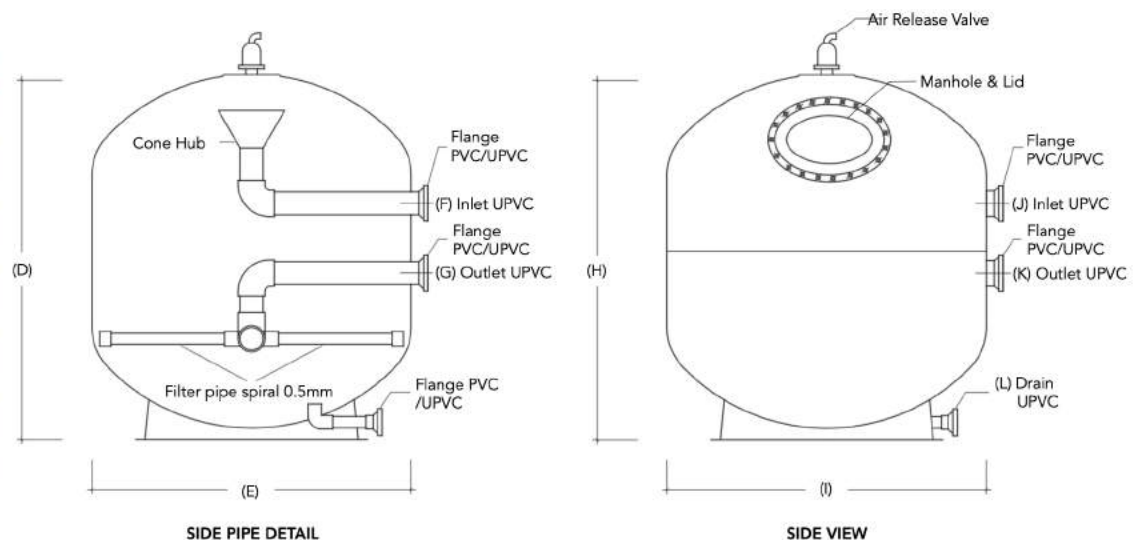
SPECIFICATIONS

| ITEM | IE1400 | IE1600 | IE1800 | IE2000 |
|-------------------------|---|-------------------|--------------------|--------------------|
| Max. Operating Pressure | 250kPa | 250kPa | 250kPa | 250kPa |
| Factory Test Pressure | 350kPa | 350kPa | 350kPa | 350kPa |
| Filtration Area | 3.1m ² | 2.5m ² | 2.01m ² | 1.53m ² |
| Working Temperature | 5 - 45°C | 5 - 45°C | 5 - 45°C | 5 - 45°C |
| Design Flow Rate | 40 (cu.m/sq.m/hr) | | | |
| Filter Flow Rate | 60 cu.m/hr | 80 cu.m/hr | 100 cu.m/hr | 124 cu.m/hr |
| Backwash Flow Rate | 60 cu.m/hr | 80 cu.m/hr | 100 cu.m/hr | 124 cu.m/hr |
| Media - Sand | 2,000kg | 2,825kg | 3,408kg | 5,440kg |
| Construction Materials | Fibreglass Reinforced Isophthalic Polyester and Neopental Glycol, 316 Stainless Steel, PVC Pipe | | | |



DIMENSIONS

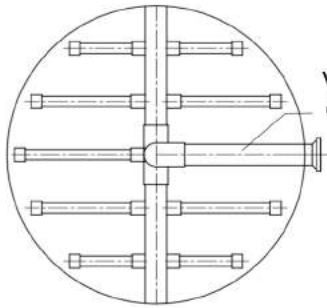
| ITEM | IE1400 | IE1600 | IE1800 | IE2000 |
|------|--------|--------|--------|--------|
| A | 1400mm | 1600mm | 1800mm | 2000mm |
| B | 4" | 4" | 6" | 6" |
| C | 4" | 4" | 6" | 6" |
| D | 1600mm | 1740mm | 2200mm | 2400mm |
| E | 1400mm | 1600mm | 1800mm | 2000mm |
| F | 4" | 4" | 6" | 6" |
| G | 4" | 4" | 6" | 6" |
| H | 1600mm | 1740mm | 2200mm | 2400mm |
| I | 1400mm | 1600mm | 1800mm | 2000mm |
| J | 4" | 4" | 6" | 6" |
| K | 4" | 4" | 6" | 6" |
| L | 2" | 2" | 2" | 4" |



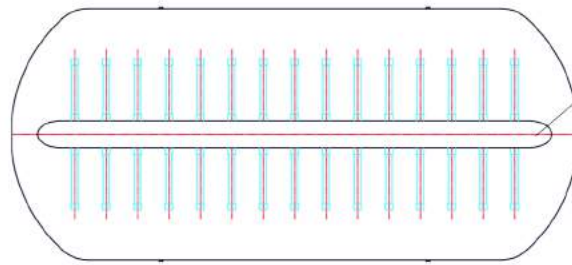
INNOVEZ COMMERCIAL-GRADE FILTERS HAVE VARIOUS CUSTOM OPTIONS TO PROVIDE THE OPTIMAL FIT FOR EVERY FACILITY.

CLEANER FILTRATION

For optimal water quality, Innovez fibreglass filters utilise "depth filtration". This is done by driving debris and fine particles through the filter media and into the laterals at the filter floor. Unlike regular filters, Innovez commercial-grade filters have "fish-bone" laterals that optimise water flow through the filter bed, eliminating "dead areas" and improving water distribution.



Vertical Fibreglass Filter
"Fish-bone" Laterals

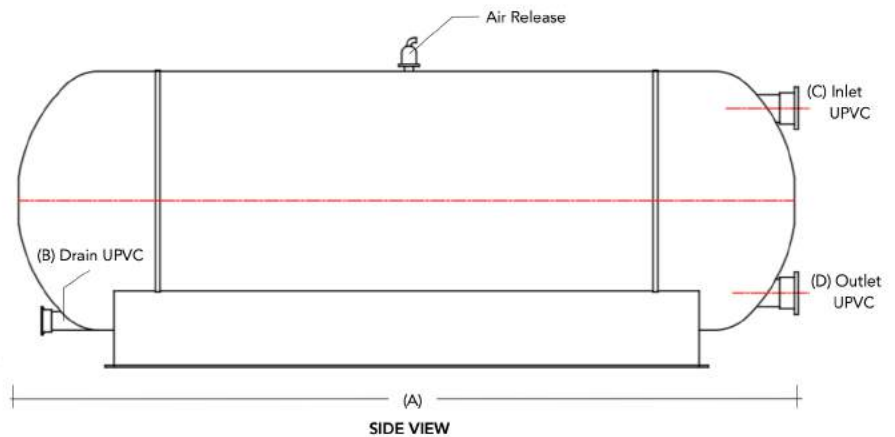


Horizontal Fibreglass Filter
"Fish-bone" Laterals

HORIZONTAL CONFIGURATION

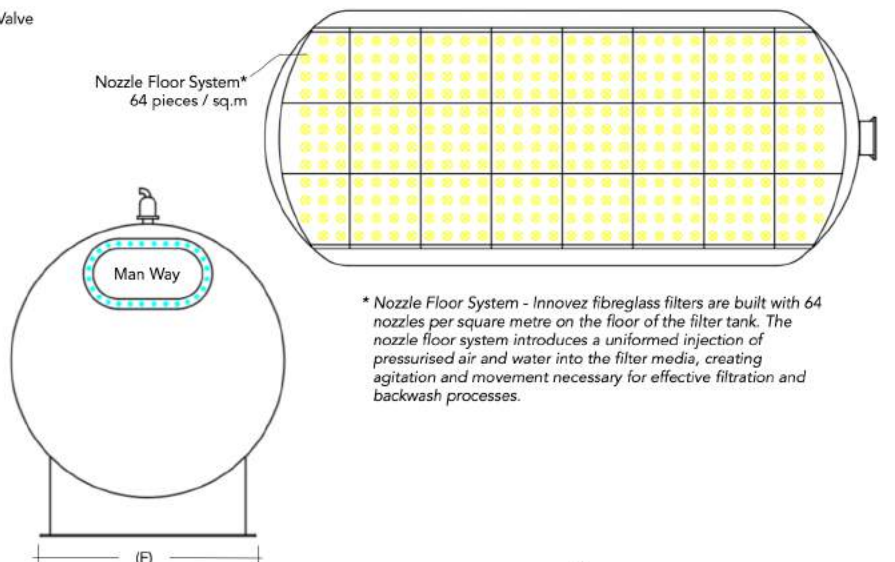
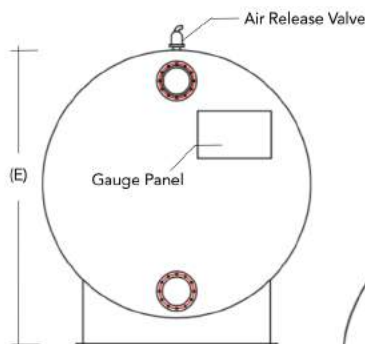
SPECIFICATIONS

| ITEM | IE5000 | IE6000 | IE8500 |
|-------------------------|---|-------------------|-------------------|
| Max. Operating Pressure | 250kPa | 250kPa | 250kPa |
| Factory Test Pressure | 350kPa | 350kPa | 350kPa |
| Filtration Area | 5.0m ² | 6.0m ² | 8.5m ² |
| Working Temperature | 5 - 45°C | 5 - 45°C | 5 - 45°C |
| Design Flow Rate | 35 (cu.m/sq.m/hr) | 40 (cu.m/sq.m/hr) | |
| Filter Flow Rate | 200 (cu.m/hr) | 240 (cu.m/hr) | 297.5 (cu.m/hr) |
| Backwash Flow Rate | 200 (cu.m/hr) | 240 (cu.m/hr) | 297.5 (cu.m/hr) |
| Media - Sand | 6,000kg | 7,277kg | 13,000kg |
| Construction Materials | Fibreglass Reinforced Isophthalic Polyester and Neopental Glycol, 316 Stainless Steel, PVC pipe | | |




DIMENSIONS

| ITEM | IE5000 | IE6000 | IE8500 |
|------|--------|--------|--------|
| A | 3500mm | 4200mm | 4500mm |
| B | 4" | 4" | 4" |
| C | 8" | 8" | 6" |
| D | 8" | 8" | 6" |
| E | 2000mm | 2000mm | 2200mm |
| F | 1800mm | 1800mm | 2000mm |



* Nozzle Floor System - Innovez fibreglass filters are built with 64 nozzles per square metre on the floor of the filter tank. The nozzle floor system introduces a uniformed injection of pressurised air and water into the filter media, creating agitation and movement necessary for effective filtration and backwash processes.



Innovez Engineering is a leading design-and-build swimming pool specialist. Since completing the 150-metre long rooftop swimming pool at the Marina Bay Sands Singapore in 2010, Innovez Engineering has come a long way and is now considered among the leading pool builders in Asia.

As a total solutions pool company, Innovez Engineering provides a full suite of products and services for the design, construction and fit out of all large commercial, residential and institutional swimming pools.

With over a decade's experience in the swimming pool industry, the Innovez Engineering team has in-depth technical expertise, practical experience and product knowledge to offer maximum value to our clients.



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RANGE OF SERVICES

- Construction
- Engineering Design
- Filtration
- Maintenance and Repair
- Project Management
- Renovation

AREAS OF SPECIALTY

- Competition pools
- Condominium pools
- Hotel and Resort pools

SUITE OF PRODUCTS

- Aquatic Performance Timing Systems
- Bulkheads
- Filters and Pumps
- Pool Accessories
- Swim Competition Equipment