

Commercial Filters

MEETING HIGHEST DEMANDS

Custom-Built Service Available



Emaux

water technology

Commercial Aquatic Equipment

Innovative and Enterprising

Emaux is now a recognized global manufacturer that meets and surpasses the expectations of customers with best-in-class products and services. For over 40 years, we have been actively engaged in key water projects worldwide and worked closely with industrial consultants, developers, and engineers alike. The proven performance of our manufacturing solutions makes us the preferred partner for customers seeking a robust water solution to enrich their leisure living and professional experience.

Large Production Centre

Headquartered in Hong Kong and Europe, Emaux owns an 100,000m² purpose-built production centre which locates in a

strategic area in Zhong Shan, China that enables us to serve the local and global markets with advanced products efficiently.

Our experienced R&D team proactively pursues breakthroughs in product innovation and OEM production leveraging know-how in mechanics, automatics, electronics, hydraulics, and plumbing.

The automated manufacturing process employs the most advanced technologies in mould making, plastic blow moulding, plastic injection, fibreglass production, electronic controls, and assembly. Flexible one-stop solutions are provided to meet every need for water treatment and water leisure.



Atlantis in China



Chimlong Ocean Kingdom in China



Gumbuya World in Australia

Project References



Demonstration Site
and Training Centre

Huge Capacity Advance Technology



Pressure Testing



Equipped by advanced machinery



Bobbin winding

We are your trustworthy water solution partner

With quality at the heart of everything we do, we promise not to compromise on quality and to ensure the optimal performance of our solutions in the most demanding environment. Our production facility is ISO9001:2015 certified, and the most stringent international standards have been met for individual products, including UL, ETL and CSA (Canada and the U.S), TUV-GS and RoHS (Europe), SAA and C-Tick (Australia and New Zealand), CCC (China), and SASO (Saudi Arabia). Rigorous quality control processes are also in place to deliver consistent quality.

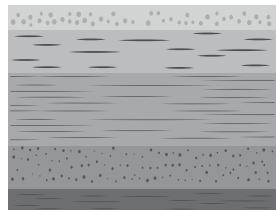
Because we regard quality as the life of enterprise, we have won long-term support and trust of our customers and business partners all over the world. We offer specialized products and custom-built services to :

- * Swimming Pools, Commercial Spa
- * Aquatic centres, Water parks,
- * Aquaculture, Aquariums,
- * Water Features and Large Water Treatment Systems.

Glass Fiber Reinforced Polyester (GRP) Sand Filter

With the professional engineering experience and a large Glass Fiber Reinforced Polyester (GRP) production facility, Emaux is capable to design and manufacture a wide variety of commercial sand filters constructed by a multiple-layer moulded structural inner layer and a continues outer filament winding by computer controlled winding machines.

Multi-layer construction (from inner to outer):



- ① ISO or VE gelcoat barrier, corrosion resistant
- ② Woven roving fibers with ISO polyester resin, water proofing
- ③ Woven roving with high content of fiberglass, structural strength
- ④ Continues outer filament winding with ISO resin, reinforced to withstand pressure
- ⑤ PU surface coating, UV resistant and dirt protection



Large Production Capacity



Reinforced Inner Tank



Computer Controlled Filament Winding

Advantages:



Non-Corrosive



UV Resistance



Chemical Resistance



Nil Maintenance



Non-Electrical Conductive



Long Service Life



Low ratio of Thermal Expansion



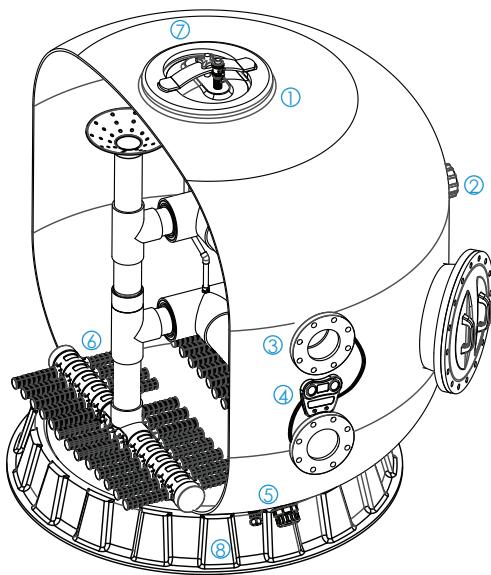
Light and Easy Handling

The filter tank is manufactured by long-lasting and non-corrosive fiberglass and resin, with bobbin wound automatic technology, UV resistance composites, allowing the filter to work and resist extreme weather conditions, with no corrosion and very long working life.

Standard Features:

- * Available with laterals or nozzles plate system for air scouring capabilities
- * Optional accessories includes sight glass, manhole, union drain, and air purge
- * Dual/ triple manifold distribution increase the flow rate evenly

Components :



- ① **Manhole** Lateral Manhole for easy access to internal system maintenance and service
- ② **Sight Glass** Allow great observation on media status and backwash effect
- ③ **Flange** Heavy duty FRP flange connection in either ANSI or DIN standard
- ④ **Manometer** High quality pressure gauge to monitor the pressure inside the filter tank
- ⑤ **Union Drain** A quick discharge point of water and filter media
- ⑥ **Lateral System** Constructed by ABS+PP material with rigid structure and 0.4mm slit
- ⑦ **Air Vent Valve** Automatic release of air bubbles in the filtration system
- ⑧ **Base** Flat base increase the stability

* Stainless Steel parts are made of AISI 316 S.S. Plastic parts are in PVC and ABS
 * Gasket or O'ring sealants are in EPDM or VITON material for Ozone resistance

Customized maximum size and performance:



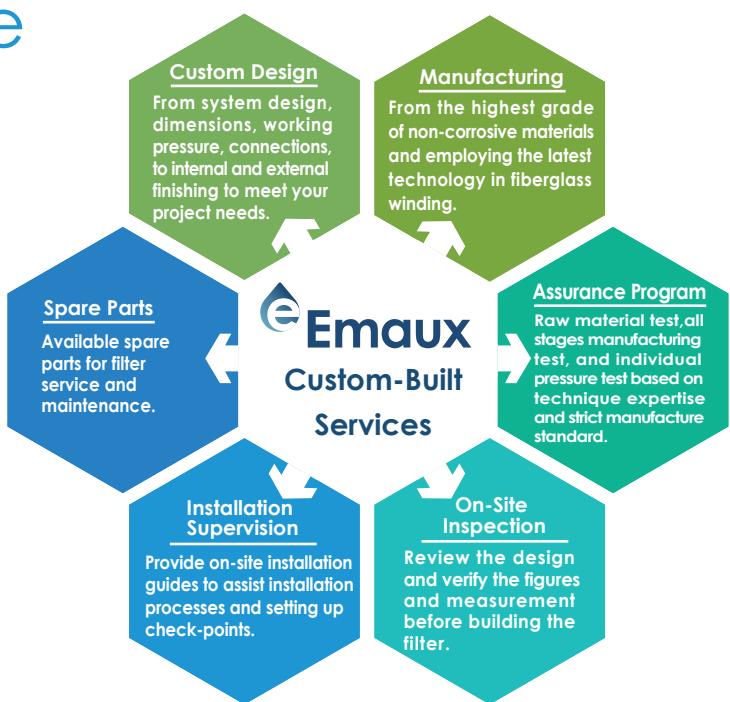
Custom-Built Service

Fit all projects' needs!

Emaux offers a fully customized service from system design, dimensions, working pressure, connections, to internal and external finishing to meet your project needs.

The products are designed and manufactured in accordance with the latest international industry standards such as BS EN-13121, European Directive of Pressure Vessels 97/23/EC; and used a quality assurance program that starts with confirmation and testing of raw materials right through all stages of the manufacture and testing.

Each Sand Filter is individually pressure tested and comes with its own factory test certificate, quality assurance record and serial number.





Standard Model:



NL, E, K Seriespage 6 - 8



H Seriespage 9-12



Large Size Horizontal Sand Filterpage 13-14

Commercial Filter NL SERIES | E SERIES | K SERIES



Filtration System

laterals / nozzles

Design Filtration Velocity

50m³/h/m²

Max Operating Pressure

36psi(2.5bar)

58psi(4.0bar)

Max Temperature

43°C (109°F)

Suggested Size of Media

0.5-0.8mm

1-2mm



Excellent Performance with Deep Sand Bed!

Application Suggestions:

- * Competition Swimming Pool
- * Aquatic Park and Aquarium
- * Commercial Spa, Fountain
- * Water Treatment Plant

Product Features:

- * Multi-construction layers: non-corrosive and chemical protective
- * UV resistance, suitable for operation underprolong sunlight
- * High filtration standard with depth sand bed
- * Bobbin wound fiberglass reinforcement with polyester resin
- * Available with laterals or nozzles plate system for air scouring capabilities
- * Optional accessories includes sight glass, manhole, union drain, and air purge.

NL SERIES

Optional Accessories:

Sightglass: 114mm

Code: E012072



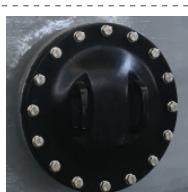
Air purge: 20mm

Code: E012054



Manhole: Dia.400mm

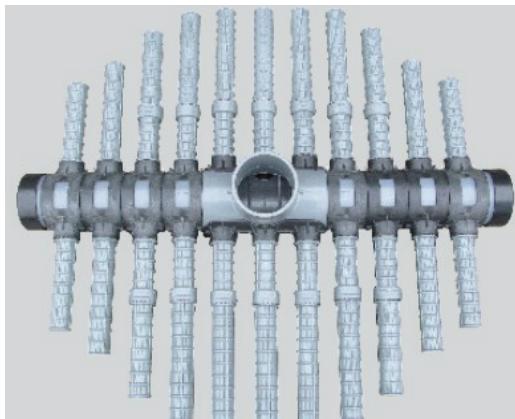
Code: 4105064354



Manhole: Dia.500mm

Code: 4105067252

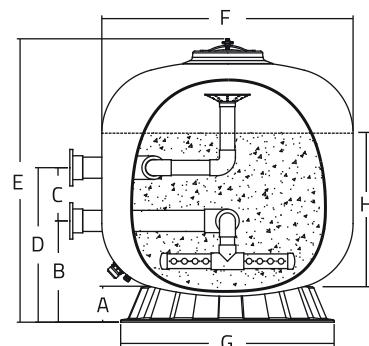
Laterals System:



Nozzle System:



Flange connection standard optional:
GB(HG20592 PN1.0MPa) or ANSI(ANSI B16.5(1988) Class150)



Product Dimensions:

Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
NL1200	170	565	350	915	1410	1200	1000	720
NL1400	190	565	350	915	1570	1400	1220	760
NL1600	200	650	350	1000	1740	1620	1365	820
NL1800	220	690	415	1105	2040	1790	1630	950
NL2000	220	770	415	1185	2210	1945	1630	1020
NL2300	230	950	550	1500	2510	2375	1800	1200
NL2500	230	1050	550	1600	2670	2495	1800	1290

With Laterals System:

Code 2.5bar	Code 4bar	Model	Vol. (m³)	Filter Area (m²)	Flange Connections GB(mm)	ANSI	Max Flow Rate lpm	m³/h	Sand Weight (kg) 0.5-0.8mm 1-2mm
88012813	88013213	NL1200	1.17	1.13	80	3"	942	56.5	681 359
88012814	88013214	NL1400	1.64	1.54	100	4"	1283	77	941 460
88012815	88013215	NL1600	2.48	2.01	100	4"	1675	100.5	1412 771
88012816	88013216	NL1800	4.02	2.54	150	6"	2100	126	2366 1343
88012817	88013217	NL2000	4.61	2.97	150	6"	2475	148.5	2781 1375
88012818	88013218	NL2300	8.09	4.34	200	8"	3617	217	5539 1682
88012819	88013219	NL2500	10.00	4.89	200	8"	4075	244.5	6366 1972

With Nozzle System:

Code 2.5bar	Code 4bar	Model	Vol. (m³)	Filter Area (m²)	Flange Connections GB(mm)	ANSI	Max Flow Rate lpm	m³/h	Sand Weight (kg) 0.5-0.8mm 1-2mm
88013313	88013413	NL1200	1.17	1.13	80	3"	942	56.5	575 274
88013314	88013414	NL1400	1.64	1.54	100	4"	1283	77	778 382
88013315	88013415	NL1600	2.48	2.01	100	4"	1675	100.5	1208 496
88013316	88013416	NL1800	4.02	2.52	150	6"	2100	126	2167 609
88013317	88013417	NL2000	4.61	2.97	150	6"	2475	148.5	2550 715
88013318	88013418	NL2300	8.09	4.34	200	8"	3617	217	5075 972
88013319	88013419	NL2500	10.00	4.89	200	8"	4075	244.5	5815 1117

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