

smart FILTER SYSTEMS



FOR A
CLEAR
PERSPECTIVE



Customer pool project, Vietnam

FILTERED TO THE PUREST

Pure bathing pleasure requires the best water quality and cleanliness without compromises.



The pool filter in connection with a Praher 7 positions backwash valve and a pump is the essential component to keep the pool water clean and hygienic. Through the pump impeller water is sucked and passed through the 7-position valve into the filter tank, where it passes through a filter medium to be cleaned (we recommend glass filter medium Nature Works).

Our filtration units are equipped with the original Praher Plastics® 7-position backwash valves, for even more comfort, choose one of our automatic Aquastar® backwash valves (time or/and pressure controlled) or control with the WIFI equipped Pool control Loxone Aquastar® Air.

All manual Praher valves can easily be upgraded or retrofitted to automatic valves.



More information about Wifi pool controls on www.peraqua.com

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BREGENZ II Filter

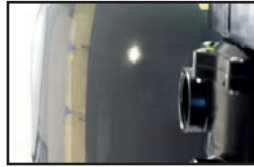
The special construction of the BREGENZ II filter series makes inspection and maintenance of the filter much easier. The filter body is made of isophthalic resin, resistant glass fibers and UV-resistant gelcoat. The careful selection of raw materials and consolidated application solutions guarantee maximum mechanical resistance against the constant workloads such as pressure fluctuations, closing / opening of the valve, start / stop of the pump, etc. All components in contact with the bathwater are corrosion resistant, inhibit bacterial growth and affect the water quality not negatively.



Large transparent PP lid Ø400mm; black lid made of PPGF on request



Large drain plug 1 1/4" AG for quick and easy emptying



Transparent sight window to control the sand height.



Polyester Filter BREGENZ II	7300243	7300244	7300245	7300246	7300247
Ø mm	520	640	640	760	900
Height mm	730	800	800	970	970
Connection	1 1/2"	1 1/2"	2"	2"	2"
Flow m ³ /h	10	14	16	23	32
Nature Works (kg)	100	140	140	220	340
Sand (kg)	100	150	150	225	350

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BREGENZ II Compact filter unit

The special construction of the BREGENZ II filter series makes inspection and maintenance of the filter much easier. Special characteristics are the large transparent lid, the transparent sight window for the filtrations height and the large drain.

With a sound level of <50 db, the Europro swimming pool pump is one of the quietest swimming pool pumps on the market. It is a self-priming, high-performance centrifugal pump with an integrated prefilter and a large power range from 0.33 kW to 2.2 kW (single and three-phase)

The compact filter unit will be delivered with suitable and already fixed PVC glued piping set and mounted on a PE filter palette.



Polyester Filter BREGENZ II	7300803	7300802	7300804
Ø mm	520	640	640
Flow m ³ /h	10	14	16
Pump P2 (kW)	0,33 (0,5 PS)	0,5 (0,75 PS)	0,5 (0,75 PS)
Nature Works kg	100	140	160
Sand kg	100	150	150
Connection	1 1/2"	1 1/2"	2"

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VIENNA II Filter Side Mount

Filter for private pools, manufactured according to industrial standards, reinforced fibre glass filter body, UV resistant, transparent lid, easy to open, d 21 cm, swivel filter arm for easy filling with filter media, drain set for easy emptying of water, integrated aerating to avoid air bubbles in the filter

All VIENNA II filters with black lid are in color RAL5011 steel blue



Polyester filter VIENNA II laminated, Side Mount	7300491	7300492	7300493	7300494	7300495	7300496	7300542	7300543	7300544	7300545
Ø Filter mm	400	510	620	680	750	900	950	1100	1200	1400
Height A	565	790	860	915	1020	1020	675	805	955	1300
Flow m³/h	6,5	10,2	15,1	18,14	22	31,8	35	47,5	56	77
Filtration area m² (at 50 m/h)	0,13	0,20	0,30	0,36	0,44	0,64	0,7	0,96	1,13	1,54
Flange connection	1½"	1½"	1½"	2"	2"	2"	75 mm	90 mm	90 mm	110 mm
Nature Works (kg)	60	100	140	160	220	320	380	460	580	660
Sand (kg)	70	100	150	175	225	325	400	550	650	750
Gross weight (kg)	12	18	23,5	27	33	42	62	81	93	120

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VIENNA II Filter Top Mount

Filter for private pools, manufactured according industrial standards, reinforced fibre glass filter body, UV resistant, incl. pressure indication and 1½" 7-position top mount valve, drain set for easy emptying of water, integrated aerating to avoid air bubbles in the filter, filter opening 17 cm



Polyester filter VIENNA II laminated, TopMount	7300506	7300507	7300508
Height incl. valve mm	795	1020	1090
Height filter mm	535	760	830
Ø Filter mm	400	510	620
Connection	1,5"	1,5"	1,5"
Filtration area (m²)	0,13	0,20	0,30
Flow m³/h (at 50 m/h)	6,5	10,2	15,1
Nature Works (kg)	40	80	120
Gross weight (kg)	12	18	23,5

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VIENNA II Compact filter unit

SIDE MOUNT

with original Praher 7-position valve, blue, incl. glued piping set + 3 pcs Ocean® unions d50/1½"AG, transparent filter lid screw type. Manometer, manual aerating, with Smart filter pump series M, installed on PE filter palette, neutral single packing
5 years guarantee for filter tank tightness

TOP MOUNT

RAL5015 blue, with original Praher 7-position TM valve, incl. 3 pcs. Ocean® unions d50/1½"AG, manometer, with Smart filter pump Series M, installed on PE filter palette, neutral packing



Polyester filter VIENNA II, laminated	7300497	7300498	7300499	7301299	7301300	7301301
	Side Mount			Top Mount		
Ø Filter mm	400	510	620	400	510	620
Connection	1,5 "	1,5 "	1,5 "	1,5 "	1,5 "	1,5 "
Filtration area m²	0,13	0,20	0,30	0,13	0,20	0,30
Flow m³/h (at 50 m/h)	6,5	8,5	15,1	6,5	10,2	15,1
Pump P2 (kW)	0,25	0,5	0,95	0,25	0,5	0,95
Nature Works (kg)	50	100	150	60	100	140
Sand (kg)	70	100	150	70	100	150
Gross weight (kg)	19	26	29	19	26	29

AUTOMATION WITH AQUASTAR® SERIES



CREATE YOUR OWN FULLY AUTOMATIC POOL FILTER

Select from the wide range the filter dimension you need + the Aquastar® model. We install the original Praher 7-position backwash valve included in the filter set. Of course all Aquastar® models can be delivered with the matching piping sets for all common filter brands for retro-fit and automatization of your manual filter system.

HOW TO CHOOSE THE RIGHT FILTER

The calculation of the filter size depends on the nominal volume flow (Q). This is calculated by the pool volume (V), incl. expansion tank in filter systems with overflow channels, and the circulation time (t).

The circulation time (the time for a complete water exchange) depends on the load (number of people,...) and location of the pool, in outdoor pools it is about 4 hours.

The filter size results from the nominal volumetric flow divided by the maximum filtration rate (50 m/h applies to private pool facilities).

EXAMPLE*

Volume of the pool V: $8 \times 4 \times 1,5 \text{ m} = 48 \text{ m}^3$
 Nominal volume flow Q: $48 \text{ m}^3 / 4 \text{ h} = 12 \text{ m}^3/\text{h}$

Filter area A: $12 \text{ m}^3/\text{h} / 50 \text{ m/h} = 0,24 \text{ m}^2$

Diameter D:
$$\sqrt{\frac{A [\text{m}^2] \cdot 4}{\pi}} = \sqrt{\frac{0,24 \text{ m}^2 \cdot 4}{3,1415}} = 0,55 \text{ m}$$

OUTCOME

We recommend a filter with minimum \varnothing 600 mm.

*the stated numbers and values are reference numbers

Filter size mm	Filter capacity m ³ /h			
	V=20 m/h	V= 30 m/h	V = 40 m/h	V = 50 m/h
400	2,5	3,8	5,0	6,3
500	3,9	5,9	7,9	9,8
600	5,7	8,5	11,3	14,1
610	5,8	8,8	11,7	14,6
700	7,7	11,5	15,4	19,2
750	8,8	13,3	17,7	22,1
760	9,2	13,8	18,4	23,0
800	10,1	15,1	20,1	25,1
900	12,7	19,1	25,4	31,8
920	13,3	19,9	26,6	33,2
950	14,2	21,3	28,4	35,4
1000	15,7	23,6	31,4	39,3

Selection guide for filter diameter depending on the volume flow (at different filtration speeds v)

Source: ÖVS recommendations





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POLYESTER Filter laminated

commercial filter for large private and commercial pools, industrial standard. Fibre glass reinforced filter tank, delivered with pressure relief valve, filter bed 1m, d400mm lid flange type, fibre glass reinforced, incl. drain set d75, plug 1", flange connections, UV resistant

**Polyester filter VIENNA laminated, Side Mount**

Prod. No.	7300546	7300547	7300548	7300549	7300550	7300551
Ø Filter mm	1050	1200	1400	1600	1800	2000
Height mm	1755	1755	1755	1755	1980	1980
Flange connection	D90	D90	D110	D125	D140	D160
Filtration area m ²	0,87	1,13	1,54	2,01	2,54	3,14
Flow m ³ /h	43	45-56	62-77	100	125	157

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LEOBEN II Filter Side Mount

for private and hotel pools, manufactured according industrial standards, reinforced fibre glass filter body, UV resistant, with lateral hole and sight glass, 2" connection, filter diameter d620, d750, d900, pressure indication and 2" 7-position valve, PPGF lid, easy to open, swivel filter arm for easy filling of the filter, drain set for easy emptying of water, integrated aerating to avoid air bubbles in the filter



NEW!
steel blue
RAL5011

Polyester filter LEOBEN II, laminated Side Mount

	7300509	7300510	7300511	7300512	7300513	7300514	7300515	7300516	7300517
Ø Filter mm	620	750	900	620	750	900	620	750	900
Height mm	1645	1645	1645	1845	1845	1845	1845	1845	1845
Filtration area m ²	0,30	0,44	0,64	0,30	0,44	0,64	0,30	0,44	0,64
Filtration bed	Stern	Stern	Stern	Stern	Stern	Stern	Düsen	Düsen	Düsen
Filtration bed height m	1,0	1,0	1,0	1,2	1,2	1,2	1,2	1,2	1,2
Weight (kg)	425	575	825	525	725	1025	500	725	975
Flow									
20m ³ /h	5,7	8,3	11,9	5,7	8,3	11,9	5,7	8,3	11,9
30m ³ /h	9,4	13,8	19,9	9,4	13,8	19,9	9,4	13,8	19,9
40m ³ /h	12	18	26	12,3	17,9	25,8	12,3	17,9	25,8

P-AQUA PPGF Filter

Polypropylen filter with original Praher 7-position valve, side mount version, incl. manometer and manual, aerating valve, 3,75 bar operation pressure / 40°C operation temperature, beige, polished



PPGF-Filter AQUARIUS,	7300497	7300498	7300499	7301299	74686	74687	74688
	Side Mount				Top Mount		
Ø Filter mm	450	530	620	790	450	530	620
Height mm	645	795	830	1010	775	925	960
Connection	1,5"	1,5"	1,5"	2"	1,5"	1,5"	1,5"
Nature Works (kg)	70	100	140	240	70	100	140
Sand (kg)	75	110	150	250	75	110	150

GRAZ PPGF Filter Side Mount

with original Praher 7-position valve (manual), 1,8bar operation pressure, 2 parts incl. piping set, manometer and union with PVC insert PVC Ø 50 mm.



PPGF-Filter GRAZ two-part			
Prod. No.	78612	78613	78614
Ø Filter mm	400	500	600
Height mm	750	810	1020
Connection	2¼" AG	2¼" AG	2¼" AG
Filtration area m²	0,12	0,20	0,28
Flow at 30 m³/h	3,6	6	8,4
Flow at 50 m³/h	6	10	14
Flow at 60 m³/h	7,2	12	16,8
Nature Works (kg)	50	70	120
Sand (kg)	50	75	125
Max. operation pressure (bar)	1,8	1,8	1,8
Net weight (kg)	10,5	13,8	19,8

AQUASTAR® SERIES Backwash valves

For pool control automation



AQUASTAR® easy II
fully automatic and economical backwashing of swimming pool filters

Prod. No.

Aquastar® EasyII for V6 ND 1½" + 2" 100-240 VAC

131308A



AQUASTAR® Control P6
fully automatic backwash valve and integration of numerous pool control functions

Prod. No.

Aquastar® Control with pressure sensor for V6 ND 1½" + 2" 24V AC/DC

131492

Aquastar® Control with pressure sensor for V6 ND 1½" + 2" 100-240 VAC

131493

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NATURE WORKS Filter glass



Nature Works

Prod. No.

Smart Nature Works Hi-Tech Filter Glass, manufactured with the MC2® calibrating technology, for pool sand filter systems, Ø granular size: 0.8 mm, made of natural glass, crystal-white
VE unit =20 kg bag

7300372

OUTSTANDING ADVANTAGES

Environmental friendly alternative to sand, 100% free from impurities and foreign particles, the MC2® Technology avoids the compression of the material and therefore can be reused, doesn't wear the filter boiler out, maximum hygiene, minimizes pressure loss



Maximum performance for crystal clear, hygienic pool water

Removes smallest particles up to 10 µ thanks to special and unique surface calibration. In addition, the soft edges protect against injuries, wear of filter inner face, distribution system, liners,...



Resistant against biofilm and bacteria

Thanks to MC2 calibration technology we have an exact defined granular size and special rounded individual glass particles. So you can minimize the propagation of bacteria, the formation of biofilm and save pool chemicals.



Water and Energy savings

Less backwashing and optimal flow values have a positive influence on the water and energy consumption at your pool area. Thereby the investment in Nature Works amortizes within a short time period.



Nature Works is 99,99% free from contamination

How does this work? Nature Works uses exclusively purest white flat glass, so called „original glass“ from window production. The certified glass is free from any impurities and stands *head and shoulds above other filter medias like sand as well as green/brown glass filter medium from recycled bottle glass.*



Less backwash cycles due to anti-compaction technology

Nature Works relies on anti-compaction technology, so only a single granular size is used. This minimizes the compression and channeling in the glass filter material which means *less backwash operations are necessary.*



Reuse is the new recycling

Nature Works is recycled pure white flat glass, packed in ecological and tear-proof paper bags, which can be recycled again as well. Thanks to the use of much harder flat glass and the MC2 calibration technology, it shows *less wear and convinces with its above-average lifetime cycle.*

FAMILY, SPORT, RELAXATION – THERE IS LIFE IN A POOL.



PERAQUA®

A POOL FULL OF LIFE

It is our highest permission to enrich every pool with creative, perfect fitting, affordable and durable pool technology. Our focus is on the maximum ease of use, safety, cleanliness and sustainability of the selected technology for your pool projects.

Tailored to the digital age, you can choose between fully automatic pool control systems based on WIFI connection or manual control systems in **Peraqua® Quality**.

Our mission is to implement Peraqua® & Praher Top Quality in all areas of sales, marketing, service, logistics, training, repair, and after-sales services with the best dedication.

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