



They know the secret...



For great tasting water,
use expert filtration.

ION RANGE

(Scale Reducing Technology)

Specially developed ION Exchange Resin filters that incorporate a mixed blend of media to reduce scale build up, whilst stabilising pH levels to ensure the best filtered water.



IEN RANGE

H2O Direct have developed a range of ION Exchange Resin Filters that can be used in a wide variety of applications including hot water boilers, hot liquid vending and espresso machines.

The technology within these filters reduce scale build up and prevent unpleasant metallic and/or chlorine tastes with an easy to change auto water shut off facility, whilst protecting your machinery against costly break downs.

WHO USES IEN FILTERS?

- Hot Drinks Vendors
- Restaurants/Cafés
- Catering
- Offices

WHY USE IEN FILTERS?

- Reduce scale build up
- Ph balanced
- Protect machines
- Saves expensive service costs
- Easy install/change

KEY FEATURES

- High level of scale reduction
- Fixed 30% bypass system and specially blended resin stabilise pH levels
- Reduced chlorine content, bad taste and odour issues
- Superior performance and efficiency when compared to other leading brands (in house testing)
- Auto water shut off
- One head to fit all quick change filter cartridges



IEN-1500

IEN-3000

IEN-6000

IEN-9000

CAPACITY According to By-pass at 30% in litres

Hardness (Dh)	Hardness (ppm)	IEN-1500	IEN-3000	IEN-6000	IEN-9000
5	89	3065	6012	12003	18000
10	178	1532	3006	6002	9000
15	267	1022	2004	4001	6000
20	356	766	1502	3001	4499
25	445	613	1202	2400	3600
30	534	511	1003	2001	3000

As per manufacturers testing.

DIMENSIONS In mm

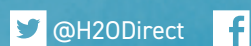
	IEN-1500	IEN-3000	IEN-6000	IEN-9000
Height	350	400	380	530
Width	110	110	150	150
Depth	110	110	150	150



H2O Direct, for all your filtration needs in UK and Europe.

H₂O direct

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IEN1500 (Ion Exchange Filter) - Estimated Capacity

- This table on estimated capacity of IER Filter (IEN 1500) is made from the request of H2O
- Estimated capacities were derived from the By-pass (purified water ratio that is not passing through IER) amount
- Estimated capacities were calculated from the converted amount for the removable amount of Ca, Mg, assuming 4.0 eq/L of weak acid cation exchange resin
- Estimated Capacities

Hardness (dH)	Hardness (ppm)	Capacities (L) according to By-pass								Remark
		0%	10%	20%	30%	40%	50%	60%	70%	
4	71.2	2947	3242	3536	3831	4126	4420	4715	5010	
5	89	2358	2593	2829	3065	3301	3536	3772	4008	
6	106.8	1965	2161	2358	2554	2750	2947	3143	3340	
7	124.6	1284	1413	1541	1669	1798	1926	2055	2183	
8	142.4	1473	1621	1768	1915	2063	2210	2358	2505	
9	160.2	1310	1441	1572	1703	1834	1965	2096	2227	
10	178	1179	1297	1415	1532	1650	1768	1886	2004	
11	195.8	1072	1179	1286	1393	1500	1607	1715	1822	
12	213.6	982	1081	1179	1277	1375	1473	1572	1670	
13	231.4	907	997	1088	1179	1269	1360	1451	1541	
14	249.2	842	926	1010	1095	1179	1263	1347	1431	
15	267	786	864	943	1022	1100	1179	1257	1336	
16	284.8	737	810	884	958	1031	1105	1179	1252	
17	302.6	693	763	832	901	971	1040	1109	1179	
18	320.4	655	720	786	851	917	982	1048	1113	
19	338.2	620	682	744	807	869	931	993	1055	
20	356	589	648	707	766	825	884	943	1002	
21	373.8	428	471	514	556	599	642	685	728	
22	391.6	536	589	643	697	750	804	857	911	
23	409.4	513	564	615	666	718	769	820	871	
24	427.2	491	540	589	638	688	737	786	835	
25	445	472	519	566	613	660	707	754	802	
26	462.8	453	499	544	589	635	680	725	771	
27	480.6	437	480	524	568	611	655	699	742	
28	498.4	421	463	505	547	589	631	674	716	
29	516.2	406	447	488	528	569	610	650	691	
30	534	393	432	472	511	550	589	629	668	
31	551.8	380	418	456	494	532	570	608	646	
32	569.6	368	405	442	479	516	553	589	626	
33	587.4	357	393	429	464	500	536	572	607	
34	605.2	347	381	416	451	485	520	555	589	
35	623	337	370	404	438	472	505	539	573	
Coffee machine				●	●	●	●	●	●	
Espresso machine				●	●	●	●	●	●	
Vending machine				●	●	●	●	●	●	
Combi ovens			●							
Conventional ovens			●							

※ The above capacities are based on the calculated value by prediction formula

IEN3000 (Ion Exchange Filter) - Estimated Capacity

- This table on estimated capacity of IER Filter (IEN 3000) is made from the request of H2O
- Estimated capacities were derived from the By-pass (purified water ratio that is not passing through IER) amount
- Estimated capacities were calculated from the converted amount for the removable amount of Ca, Mg, assuming 4.0 eq/L of weak acid cation exchange resin
- Estimated Capacities

Hardness (dH)	Hardness (ppm)	Capacities (L) according to By-pass								Remark
		0%	10%	20%	30%	40%	50%	60%	70%	
4	71.2	5782	6359	6937	7515	8094	8672	9249	9827	
5	89	4625	5088	5549	6012	6474	6937	7400	7862	
6	106.8	3854	4239	4625	5010	5395	5782	6167	6552	
7	124.6	3303	3634	3965	4294	4625	4955	5286	5615	
8	142.4	2890	3180	3469	3757	4047	4335	4625	4914	
9	160.2	2570	2827	3083	3340	3597	3854	4112	4367	
10	178	2312	2543	2775	3006	3237	3469	3700	3931	
11	195.8	2102	2312	2523	2733	2943	3153	3363	3574	
12	213.6	1927	2120	2312	2505	2697	2890	3083	3275	
13	231.4	1779	1957	2134	2312	2490	2668	2846	3024	
14	249.2	1652	1817	1982	2148	2312	2477	2643	2808	
15	267	1542	1696	1849	2004	2158	2312	2467	2621	
16	284.8	1445	1589	1735	1879	2023	2168	2312	2456	
17	302.6	1360	1496	1632	1768	1904	2040	2177	2312	
18	320.4	1285	1413	1542	1670	1798	1927	2055	2184	
19	338.2	1217	1339	1460	1582	1704	1826	1948	2068	
20	356	1157	1272	1388	1502	1618	1735	1849	1965	
21	373.8	1101	1211	1322	1432	1542	1652	1763	1871	
22	391.6	1051	1157	1261	1367	1471	1577	1682	1788	
23	409.4	1005	1105	1207	1307	1407	1508	1608	1710	
24	427.2	963	1060	1157	1252	1349	1445	1542	1638	
25	445	925	1017	1110	1202	1295	1388	1480	1573	
26	462.8	889	979	1067	1157	1245	1335	1423	1513	
27	480.6	857	942	1028	1113	1200	1285	1370	1455	
28	498.4	826	908	991	1073	1157	1239	1322	1404	
29	516.2	797	878	957	1036	1116	1197	1276	1355	
30	534	770	848	925	1003	1079	1157	1233	1310	
31	551.8	745	820	895	970	1044	1119	1194	1267	
32	569.6	723	795	867	939	1011	1083	1157	1229	
33	587.4	701	770	841	911	980	1051	1122	1191	
34	605.2	681	748	816	883	953	1020	1088	1157	
35	623	660	726	792	858	925	991	1057	1123	
Coffee machine				●	●	●	●	●	●	
Espresso machine				●	●	●	●	●	●	
vending machine				●	●	●	●	●	●	
combi ovens			●							
conventional ovens			●							

※ The above capacities are based on the calculated value by prediction formula

IEN6000 (Ion Exchange Filter) - Estimated Capacity

- This table on estimated capacity of IER Filter (IEN 6000) is made from the request of H2O
- Estimated capacities were derived from the By-pass (purified water ratio that is not passing through IER) amount
- Estimated capacities were calculated from the converted amount for the removable amount of Ca, Mg, assuming 4.0 eq/L of weak acid cation exchange resin
- Estimated Capacities

Hardness (dH)	Hardness (ppm)	Capacities (L) according to By-pass								Remark
		0%	10%	20%	30%	40%	50%	60%	70%	
4	71.2	11542	12696	13850	15004	16158	17312	18467	19621	
5	89	9233	10157	11080	12003	12927	13850	14773	15697	
6	106.8	7694	8464	9233	10003	10772	11542	12311	13080	
7	124.6	6595	7255	7915	8574	9233	9892	10553	11212	
8	142.4	5771	6348	6925	7502	8079	8656	9233	9810	
9	160.2	5129	5643	6156	6668	7182	7694	8207	8721	
10	178	4617	5078	5540	6002	6463	6925	7387	7848	
11	195.8	4196	4617	5037	5456	5876	6295	6714	7136	
12	213.6	3847	4232	4617	5001	5386	5771	6156	6540	
13	231.4	3551	3907	4261	4617	4972	5326	5682	6037	
14	249.2	3297	3628	3956	4287	4617	4946	5276	5605	
15	267	3078	3386	3693	4001	4309	4617	4924	5232	
16	284.8	2885	3174	3462	3751	4040	4328	4617	4905	
17	302.6	2715	2987	3260	3530	3802	4073	4345	4617	
18	320.4	2565	2821	3078	3335	3590	3847	4104	4360	
19	338.2	2429	2672	2916	3159	3402	3645	3888	4131	
20	356	2308	2539	2770	3001	3232	3462	3693	3924	
21	373.8	2198	2419	2638	2857	3078	3297	3518	3737	
22	391.6	2099	2308	2518	2727	2918	3148	3357	3568	
23	409.4	2006	2208	2409	2609	2809	3011	3212	3412	
24	427.2	1924	2116	2308	2501	2693	2885	3078	3270	
25	445	1847	2032	2215	2400	2585	2770	2955	3140	
26	462.8	1775	1953	2131	2308	2486	2664	2840	3018	
27	480.6	1710	1881	2053	2222	2393	2565	2736	2907	
28	498.4	1649	1813	1979	2143	2308	2474	2638	2803	
29	516.2	1592	1751	1911	2070	2229	2388	2547	2707	
30	534	1539	1691	1847	2001	2154	2308	2462	2616	
31	551.8	1489	1638	1787	1916	2085	2234	2383	2532	
32	569.6	1443	1587	1731	1876	2020	2164	2308	2453	
33	587.4	1399	1539	1679	1818	1959	2099	2238	2378	
34	605.2	1358	1493	1630	1765	1900	2037	2173	2308	
35	623	1318	1452	1584	1715	1847	1979	2111	2243	
Coffee machine				●	●	●	●	●	●	
Espresso machine				●	●	●	●	●	●	
vending machine				●	●	●	●	●	●	
combi ovens			●							
conventional ovens			●							

※ The above capacities are based on the calculated value by prediction formula

IEN9000 (Ion Exchange Filter) - Estimated Capacity

- This table on estimated capacity of IER Filter (IEN 9000) is made from the request of H2O
- Estimated capacities were derived from the By-pass (purified water ratio that is not passing through IER) amount
- Estimated capacities were calculated from the converted amount for the removable amount of Ca, Mg, assuming 4.0 eq/L of weak acid cation exchange resin
- Estimated Capacities

Hardness (dH)	Hardness (ppm)	Capacities (L) according to By-pass								Remark
		0%	10%	20%	30%	40%	50%	60%	70%	
4	71.2	15354	17932	18987	20984	21684	22984	24113	25984	
5	89	13846	15230	16615	18000	19383	20768	22153	23538	
6	106.8	11538	12692	13846	15000	16153	17308	18461	19615	
7	124.6	9891	10879	11868	12857	13846	14834	15825	16813	
8	142.4	8654	9519	10385	11250	12114	12980	13846	14711	
9	160.2	7691	8462	9230	9999	10769	11538	12308	13077	
10	178	6923	7615	8308	9000	9692	10385	11077	11768	
11	195.8	6293	6923	7552	8181	8811	9440	10069	10699	
12	213.6	5770	6346	6923	7499	8077	8654	9230	9807	
13	231.4	5325	5858	6390	6923	7455	7988	8520	9053	
14	249.2	4945	5440	5934	6428	6923	7417	7912	8406	
15	267	4615	5077	5538	6000	6461	6923	7385	7846	
16	284.8	4326	4759	5192	5624	6057	6490	6923	7356	
17	302.6	4072	4480	4887	5294	5701	6109	6516	6923	
18	320.4	3846	4231	4615	5000	5384	5770	6154	6538	
19	338.2	3644	4008	4372	4737	5101	5466	5830	6194	
20	356	3462	3808	4153	4499	4846	5192	5538	5884	
21	373.8	3296	3626	3956	4285	4615	4945	5275	5604	
22	391.6	3147	3462	3776	4091	4405	4721	5035	5350	
23	409.4	3010	3311	3612	3912	4213	4515	4816	5117	
24	427.2	2884	3173	3462	3750	4039	4326	4615	4904	
25	445	2770	3045	3323	3600	3877	4153	4430	4708	
26	462.8	2663	2930	3195	3462	3728	3995	4260	4527	
27	480.6	2564	2821	3076	3333	3590	3846	4103	4358	
28	498.4	2472	2720	2966	3214	3462	3709	3956	4203	
29	516.2	2387	2626	2865	3103	3342	3581	3820	4058	
30	534	2308	2538	2770	3000	3230	3462	3692	3923	
31	551.8	2233	2457	2680	2903	3126	3349	3574	3797	
32	569.6	2164	2379	2597	2812	3029	3245	3462	3678	
33	587.4	2098	2308	2517	2727	2937	3147	3356	3566	
34	605.2	2036	2240	2444	2646	2850	3054	3258	3462	
35	623	1978	2176	2374	2572	2770	2966	3164	3362	
Coffee machine				●	●	●	●	●	●	
Espresso machine				●	●	●	●	●	●	
vending machine				●	●	●	●	●	●	
combi ovens			●							
conventional ovens			●							

※ The above capacities are based on the calculated value by prediction formula