

MICROFILTER

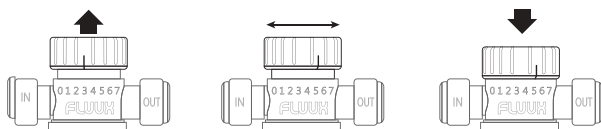
VH-IEN 1500 Manual

Variable Head ION-Exchange Filtration



How to change bypass setting

1. Lift the dial located above the head.
2. Turn dial to required bypass settings (factory set to setting #3 as standard).
3. Push down dial to lock in bypass setting.



Installation Instructions

1. Rotate the old cartridge counter clockwise 1/4 turn and pull it out.
2. Insert the new cartridge into the filter head and rotate clockwise 1/4 turn.
3. Place the cartridge to the vertical position.
4. Turn on the water and check for leaks. If leaks occur, repeat step 1,2,3,4.
If leaks persist, discontinue use and call your supporting dealer.
5. Flush filter for 5 minutes before use or until water runs clear.

※ A PLV (Pressure Limiting Valve) should be fitted at all times

※ Hold bracket firmly whilst adjusting the dial setting

Capacity Chart

VH-IEN 1500 (ION Exchange Filter) - Estimated Capacity

Hardness (dH)	Hardness (ppm)	Recommended Bypass Dial Setting	Capacities (L) according to By-pass							
			0	1	2	3	4	5	6	7
4	71.2	7	2947	3242	3536	3831	4126	4420	4715	5010
5	89	7	2358	2593	2829	3065	3301	3536	3772	4008
6	106.8	6	1965	2161	2358	2554	2750	2947	3143	3340
7	124.6	5	1284	1413	1541	1669	1798	1926	2055	2183
8	142.4	5	1473	1621	1768	1915	2063	2210	2358	2505
9	160.2	4	1310	1441	1572	1703	1834	1965	2096	2227
10	178	3	1179	1297	1415	1532	1650	1768	1886	2004
11	195.8	3	1072	1179	1286	1393	1500	1607	1715	1822
12	213.6	3	982	1081	1179	1277	1375	1473	1572	1670
13	231.4	3	907	997	1088	1179	1269	1360	1451	1541
14	249.2	3	842	926	1010	1095	1179	1263	1347	1431
15	267	3	786	864	943	1022	1100	1179	1257	1336
16	284.8	3	737	810	884	958	1031	1105	1179	1252
17	302.6	3	693	763	832	901	971	1040	1109	1179
18	320.4	3	655	720	786	851	917	982	1048	1113
19	338.2	2	620	682	744	807	869	931	993	1055
20	356	2	589	648	707	766	825	884	943	1002
21	373.8	2	428	471	514	556	599	642	685	728
22	391.6	2	536	589	643	697	750	804	857	911
23	409.4	2	513	564	615	666	718	769	820	871
24	427.2	2	491	540	589	638	688	737	786	835
25	445	2	472	519	566	613	660	707	754	802
26	462.8	2	453	499	544	589	635	680	725	771
27	480.6	2	437	480	524	568	611	655	699	742
28	498.4	2	421	463	505	547	589	631	674	716
29	516.2	2	406	447	488	528	569	610	650	691
30	534	2	393	432	472	511	550	589	629	668
31	551.8	2	380	418	456	494	532	570	608	646
32	569.6	2	368	405	442	479	516	553	589	626
33	587.4	2	357	393	429	464	500	536	572	607
34	605.2	2	347	381	416	451	485	520	555	589
35	623	2	337	370	404	438	472	505	539	573
Coffee machine	2-7				●	●	●	●	●	●
Espresso machine	2-7				●	●	●	●	●	●
vending machine	2-7				●	●	●	●	●	●
combi ovens	0-1	●	●							
conventional ovens	0-1	●	●							

* This table is an estimated capacity of VH-IEN 1500 made from the request of H2O Direct Ltd.

* 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

MICROFILTER

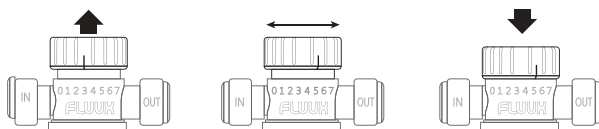
VH-IEN 3000 Manual

Variable Head ION-Exchange Filtration



How to change bypass setting

1. Lift the dial located above the head.
2. Turn dial to required bypass settings (factory set to setting #3 as standard).
3. Push down dial to lock in bypass setting.



Installation Instructions

1. Rotate the old cartridge counter clockwise 1/4 turn and pull it out.
2. Insert the new cartridge into the filter head and rotate clockwise 1/4 turn.
3. Place the cartridge to the vertical position.
4. Turn on the water and check for leaks. If leaks occur, repeat step 1,2,3,4.
If leaks persist, discontinue use and call your supporting dealer.
5. Flush filter for 5 minutes before use or until water runs clear.

※ A PLV (Pressure Limiting Valve) should be fitted at all times

※ Hold bracket firmly whilst adjusting the dial setting

Capacity Chart

VH-IEN 3000 (ION Exchange Filter) - Estimated Capacity

Hardness (dH)	Hardness (ppm)	Recommended Bypass Dial Setting	Capacities (L) according to By-pass							
			0	1	2	3	4	5	6	7
4	71.2	7	5782	6359	6937	7515	8094	8672	9249	9827
5	89	7	4625	5088	5549	6012	6474	6937	7400	7862
6	106.8	6	3854	4239	4625	5010	5395	5782	6167	6552
7	124.6	5	3303	3634	3965	4294	4625	4955	5286	5615
8	142.4	5	2890	3180	3469	3757	4047	4335	4625	4914
9	160.2	4	2570	2827	3083	3340	3597	3854	4112	4367
10	178	3	2312	2543	2775	3006	3237	3469	3700	3931
11	195.8	3	2102	2312	2523	2733	2943	3153	3363	3574
12	213.6	3	1927	2120	2312	2505	2697	2890	3083	3275
13	231.4	3	1779	1957	2134	2312	2490	2668	2846	3024
14	249.2	3	1652	1817	1982	2148	2312	2477	2643	2808
15	267	3	1542	1696	1849	2004	2158	2312	2467	2621
16	284.8	3	1445	1589	1735	1879	2023	2168	2312	2456
17	302.6	3	1360	1496	1632	1768	1904	2040	2177	2312
18	320.4	3	1285	1413	1542	1670	1798	1927	2055	2184
19	338.2	2	1217	1339	1460	1582	1704	1826	1948	2068
20	356	2	1157	1272	1388	1502	1618	1735	1849	1965
21	373.8	2	1101	1211	1322	1432	1542	1652	1763	1871
22	391.6	2	1051	1157	1261	1367	1471	1577	1682	1788
23	409.4	2	1005	1105	1207	1307	1407	1508	1608	1710
24	427.2	2	963	1060	1157	1252	1349	1445	1542	1638
25	445	2	925	1017	1110	1202	1295	1388	1480	1573
26	462.8	2	889	979	1067	1157	1245	1335	1423	1513
27	480.6	2	857	942	1028	1113	1200	1285	1370	1455
28	498.4	2	826	908	991	1073	1157	1239	1322	1404
29	516.2	2	797	878	957	1036	1116	1197	1276	1355
30	534	2	770	848	925	1003	1079	1157	1233	1310
31	551.8	2	745	820	895	970	1044	1119	1194	1267
32	569.6	2	723	795	867	939	1011	1083	1157	1229
33	587.4	2	701	770	841	911	980	1051	1122	1191
34	605.2	2	681	748	816	883	953	1020	1088	1157
35	623	2	660	726	792	858	925	991	1057	1123
Coffee machine	2-7				●	●	●	●	●	●
Espresso machine	2-7				●	●	●	●	●	●
vending machine	2-7				●	●	●	●	●	●
combi ovens	0-1	●	●							
conventional ovens	0-1	●	●							

* This table is an estimated capacity of VH-IEN 3000 made from the request of H2O Direct Ltd.

* 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

VH-IEN 6000 Manual

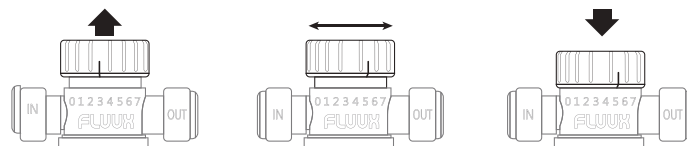
Variable Head ION-Exchange Filtration

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Installation Instructions

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3. Place the cartridge to the vertical position.
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If leaks persist, discontinue use and call your supporting dealer.
5. Flush filter for 5 minutes before use or until water runs clear.

- ※ A PLV (Pressure Limiting Valve) should be fitted at all times
- ※ Hold bracket firmly whilst adjusting the dial setting

Capacity Chart

VH-IEN 6000 (ION Exchange Filter) - Estimated Capacity

Hardness (dH)	Hardness (ppm)	Recommended Bypass Dial Setting	Capacities (L) according to bypass setting							
			0	1	2	3	4	5	6	7
4	71.2	7	7506	8620	9285	10651	12741	13396	13598	13930
5	89	7	7288	8370	8822	9832	11354	13178	13489	13865
6	106.8	6	6869	7621	8315	9321	10987	12974	13298	13710
7	124.6	5	6255	6942	7572	8570	9970	11725	13143	13571
8	142.4	5	5483	6092	6626	7500	8732	10257	11500	11974
9	160.2	4	4882	5430	5889	6667	7770	9115	10223	10987
10	178	3	4400	4900	5300	6002	7000	8200	9200	9874
11	195.8	3	4007	4467	4818	5455	6370	7453	8364	8714
12	213.6	3	3678	4107	4415	5000	5846	6828	7665	7935
13	231.4	3	3401	3800	4075	4615	5402	6302	7076	7684
14	249.2	3	3164	3540	3785	4286	5020	5851	6572	6805
15	267	3	2957	3312	3532	4001	4690	5459	6134	6371
16	284.8	3	2777	3114	3310	3751	4400	5117	5751	5987
17	302.6	3	2618	2940	3116	3530	4147	4814	5412	5762
18	320.4	3	2476	2784	2942	3334	3920	4544	5110	5398
19	338.2	2	2350	2643	2787	3158	3717	4304	4842	5171
20	356	2	2235	2520	2647	3001	3535	4087	4600	4975
21	373.8	2	2130	2406	2520	2856	3370	3889	4378	4598
22	391.6	2	2038	2302	2405	2726	3220	3712	4180	4308
23	409.4	2	1953	2210	2300	2609	3083	3550	3998	4165
24	427.2	2	1875	2122	2206	2500	2957	3402	3833	3999
25	445	2	1802	2042	2117	2400	2843	3264	3678	3885
26	462.8	2	1736	1970	2036	2310	2735	3139	3538	3691
27	480.6	2	1674	1902	1960	2222	2637	3020	3406	3597
28	498.4	2	1617	1838	1890	2143	2545	2912	3284	3407
29	516.2	2	1563	1780	1824	2070	2461	2810	3170	3301
30	534	2	1513	1725	1762	2000	2381	2714	3063	3193
31	551.8	2	1466	1673	1705	1934	2307	2626	2964	3112
32	569.6	2	1423	1625	1652	1874	2237	2543	2872	2973
33	587.4	2	1383	1580	1603	1819	2171	2468	2787	2850
34	605.2	2	1343	1538	1555	1764	2109	2392	2703	2810
35	623	2	1307	1498	1510	1714	2051	2323	2625	2733
Coffee Machine		2-7			●	●	●	●	●	●
Espresso Machine		2-7			●	●	●	●	●	●
Vending Machine		2-7			●	●	●	●	●	●
Combi Ovens		0-1	●	●						
Conventional Ovens		0-1	●	●						

* This table is an estimated capacity of VH-IEN 6000 made from the request of H2O Direct Ltd.

* 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

VH-IEN 9000 Manual

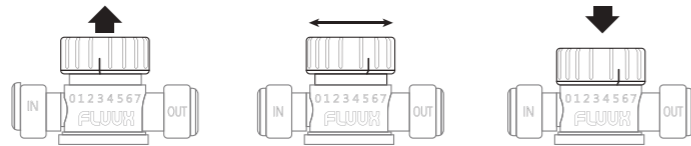
Variable Head ION-Exchange Filtration

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How to change bypass setting

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Installation Instructions

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4. Turn on the water and check for leaks. If leaks occur, repeat step 1,2,3,4.
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5. Flush filter for 5 minutes before use or until water runs clear.

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※ Hold bracket firmly whilst adjusting the dial setting

Capacity Chart

VH-IEN 9000 (ION Exchange Filter) - Estimated Capacity

Hardness (dH)	Hardness (ppm)	Recommended Bypass Dial Setting	Capacities (L) according to By-pass							
			0	1	2	3	4	5	6	7
4	71.2	7	15354	17932	18987	20984	21684	22984	24113	25984
5	89	7	13846	15230	16615	18000	19383	20768	22153	23538
6	106.8	6	11538	12692	13846	15000	16153	17308	18461	19615
7	124.6	5	9891	10879	11868	12857	13846	14834	15825	16813
8	142.4	5	8654	9519	10385	11250	12114	12980	13846	14711
9	160.2	4	7691	8462	9230	9999	10769	11538	12308	13077
10	178	3	6923	7615	8308	9000	9692	10385	11077	11768
11	195.8	3	6293	6923	7552	8181	8811	9440	10069	10699
12	213.6	3	5770	6346	6923	7499	8077	8654	9230	9807
13	231.4	3	5325	5858	6390	6923	7455	7988	8520	9053
14	249.2	3	4945	5440	5934	6428	6923	7417	7912	8406
15	267	3	4615	5077	5538	6000	6461	6923	7385	7846
16	284.8	3	4326	4759	5192	5624	6057	6490	6923	7356
17	302.6	3	4072	4480	4887	5294	5701	6109	6516	6923
18	320.4	3	3846	4231	4615	5000	5384	5770	6154	6538
19	338.2	2	6344	4008	4372	4737	5101	5466	5830	6194
20	356	2	3462	3808	4153	4499	4846	5192	5538	5884
21	373.8	2	3296	3626	3956	4285	4615	4945	5275	5604
22	391.6	2	3147	3462	3776	4091	4405	4721	5035	5350
23	409.4	2	3010	3311	3612	3912	4213	4515	4816	5117
24	427.2	2	2884	3173	3462	3750	4039	4326	4615	4904
25	445	2	2770	3045	3323	3600	3877	4153	4430	4708
26	462.8	2	2663	2930	3195	3462	3728	3995	4260	4527
27	480.6	2	2564	2821	3076	3333	3590	3846	4103	4358
28	498.4	2	2472	2720	2966	3214	3462	3709	3956	4203
29	516.2	2	2387	2626	2865	3103	3342	3581	3820	4058
30	534	2	2308	2538	2770	3000	3230	3462	3692	3923
31	551.8	2	2233	2457	2680	2903	3126	3349	3574	3797
32	569.6	2	2164	2379	2597	2812	3029	3245	3462	3678
33	587.4	2	2098	2308	2517	2727	2937	3147	3356	3566
34	605.2	2	2036	2240	2444	2646	2850	3054	3258	3462
35	623	2	1978	2176	2374	2572	2770	2966	3164	3362
Coffee machine		2-7			●	●	●	●	●	●
Espresso machine		2-7			●	●	●	●	●	●
vending machine		2-7			●	●	●	●	●	●
combi ovens		0-1	●	●						
conventional ovens		0-1	●	●						

* This table is an estimated capacity of VH-IEN 9000 made from the request of H2O Direct Ltd.

* 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