

Product Specifications



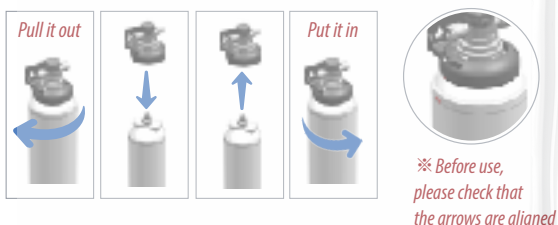
System Model Name	VH IEN 1500	VH IEN 3000	VH IEN 6000	VH IEN 9000
Capacity	405 gallons (1,533 L)	794 gallons (3,006 L)	1,586 gallons (6,002 L)	2,377 gallons (9,000 L)
Overall Dimensions (mm)	113(W)x119(D)x350(H)	113(W)x119(D)x406(H)	151(W)x151(D)x408(H)	151(W)x151(D)x549(H)
Daily Sales Cups (based on 100mL)	~130 cups	130 ~ 270 cups	270 ~ 550 cups	550 ~ 800 cups
Flow Rate	0.26 GPM	0.26 GPM	0.26 GPM	0.45 GPM
Bypass	0-70% (Variable - Refer to capacity table)			
Working Pressure	30 - 100 psi (2.1 - 7.03 kgf/cm ²)			
Water Temperature	39 - 100 °F (4 - 38 °C)			
Reduction Claims	Chlorine Taste and Odor / Scale			
Installation	Vertical			
Inlet / Outlet Size	3/8" Quick connect			

Features . Benefits

- One-touch quick-change bypass head system for easy and fast filter replacement.
- Consistent mineral composition by blending multi-stage filtered water with activated carbon filtration.
- Special ion exchange resin minimizes pH reduction and maintains balanced taste over time.
- Scale removal effect protects valuable machines for long-lasting performance
- 8-step adjustable VH head system precisely controls raw water flow
- Adjustable blending through ion exchange resin enables customized hardness levels
- High-quality coconut shell activated carbon removes chlorine and unpleasant odors, delivering clean and fresh water

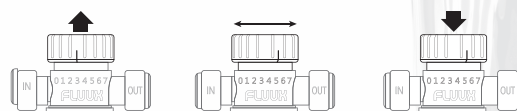
Installation Instructions

1. Before Installation : Shut off water supply and relieve pressure.
2. Rotate cartridge ¼ turn anti-clockwise to remove.
3. To install new cartridge rotate ¼ turn clockwise.
4. Position cartridge vertically.
5. Turn on the water. If leaks occur, repeat steps.
If it continues, stop use and contact your dealer.
6. Flush for 5 minutes or until water runs clear.



How to change bypass setting

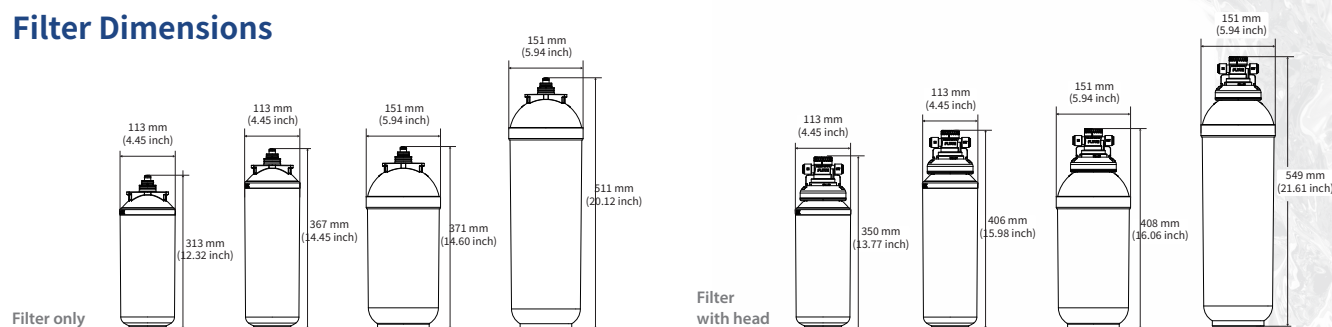
1. Lift the dial located above the head.
2. Turn dial to required bypass settings (factory set to setting #3 as standard).
3. Push down dial to lock in bypass setting.



Application

- Coffee / Espresso Machine
- Vending Machine
- Combi Ovens
- Conventional Ovens
- * Can be used flexibly for all applications

Filter Dimensions



Warning

1. Do not use with water that is microbiologically unsafe or of unknown adequate disinfection before or after the system.
2. For cold water only.
3. Replace cartridge when the flow rate becomes too slow and contact your local dealer or place where you purchase.
4. The disposable filter cartridge must be replaced every 12 months, at the rated capacity or if a noticeable reduction in flow occurs.
5. This warranty shall not apply to any failures damaged by abuse, misuse, alteration, or failure to follow operating.
6. In high pressure areas, PLV (Pressure Limiting Valve) be adjusted at 4 kgf/cm² should be fitted at all times.
7. Hold bracket firmly while adjusting the dial setting.

Standard Filter Shelf Storage Conditions

1. Store between 4 °C to 38 °C (39 °F to 100 °F). Avoid freezing or excessive heat.
2. Store in a dry, indoor environment. Avoid exposure to high humidity or direct water contact.
3. Keep the filters out of direct sunlight to avoid material degradation.
4. Storage near open flames, flammable materials, or chemicals is strictly prohibited.
5. Most sealed (unopened) filters have a shelf life of up to 2 years from the date of manufacture, if stored properly.
After opening, the filter should be installed and flushed immediately or used within a short period.
6. Leave filters in their original sealed packaging until use to prevent contamination.

Limited Warranty

MICROFILTER Co., Ltd. referred to herein as "we" or "us," manufactures its products ("Products") and parts ("Parts") using quality workmanship and materials.

Accordingly, we warrant to the original purchaser (i.e. the party that purchased the Product directly from us), referred to herein as "you," that Water treatment systems and replaceable elements (filter cartridges and water treatment cartridges) by MICROFILTER will be free from material defects in materials and workmanship under normal use and service for Six (6) month from the date of purchase from us (we reserve the right to require proof of purchase), or within the replacement period specified in the product specifications, whichever is shorter.

However, a longer statutory warranty period may apply in accordance with the consumer protection laws of the country of purchase.

This warranty does not cover the failures resulting from abuse, misuse, alteration or damage not caused by MICROFILTER or failure to follow installation and use instructions.

Additionally, the service life of the filter cartridge may vary depending on regional water conditions and water consumption, and Microfilter Co., Ltd. does not provide a warranty for the lifespan of the filter cartridge. *For warranty exclusions applicable to all products and components, please refer to the Limited Warranty

MICROFILTER

Manufactured by MICROFILTER Co., Ltd.

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FLUUX

Configuration of the cartridge cap and head of this product,

'FLUUX' is registered trademarks of MICROFILTER Co., Ltd.

CODE : MVH-EN-01

Capacity chart VH IEN 1500

Hardness (dH)	Hardness (ppm)	Recommended Bypass Dial Setting	Capacities (L) according to bypass							
			0	1	2	3	4	5	6	7
4	71.2	7	1788	2072	2306	2609	3013	3542	3687	3687
5	89	7	1736	2012	2239	2533	2926	3473	3580	3580
6	106.8	6	1637	1896	2111	2387	2757	3274	3374	3374
7	124.6	5	1569	1726	1922	2174	2511	2981	3335	3335
8	142.4	5	1373	1510	1682	1903	2197	2609	2918	2918
9	160.2	4	1221	1342	1496	1692	1954	2320	2595	2595
10	178	3	1098	1208	1346	1533	1771	2087	2335	2335
11	195.8	3	998	1098	1222	1382	1597	1896	2121	2121
12	213.6	3	915	1007	1121	1268	1465	1739	1945	1945
13	231.4	3	846	930	1036	1172	1354	1607	1798	1798
14	249.2	3	785	862	962	1088	1257	1492	1669	1669
15	267	3	732	806	897	1015	1172	1391	1556	1556
16	284.8	3	687	756	841	951	1099	1304	1459	1459
17	302.6	3	646	710	792	895	1034	1228	1373	1373
18	320.4	3	610	672	747	845	976	1158	1296	1296
19	338.2	2	579	635	709	802	926	1099	1230	1230
20	356	2	549	604	673	761	879	1044	1167	1167
21	373.8	2	524	575	641	725	838	995	1113	1113
22	391.6	2	500	549	612	693	800	950	1062	1062
23	409.4	2	478	525	585	662	765	908	1016	1016
24	427.2	2	458	503	561	634	732	870	973	973
25	445	2	439	483	538	609	703	835	934	934
26	462.8	2	423	465	518	586	677	804	899	899
27	480.6	2	406	447	498	563	650	772	864	864
28	498.4	2	392	432	480	543	627	744	833	833
29	516.2	2	379	417	464	525	606	720	805	805
30	534	2	366	403	449	507	586	696	778	778
31	551.8	2	355	390	435	492	568	675	755	755
32	569.6	2	344	377	422	477	551	654	731	731
33	587.4	2	333	366	408	462	533	633	708	708
34	605.2	2	322	355	395	446	516	612	685	685
35	623	2	313	346	383	434	501	595	665	665
Coffee Machine		2-7			●	●	●	●	●	●
Espresso Machine		2-7			●	●	●	●	●	●
Vending Machine		2-7			●	●	●	●	●	●
Combi Ovens		0-1	●	●						
Conventional Ovens		0-1	●	●						

Capacity chart

- 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

Capacity chart VH IEN 3000

Hardness (dH)	Hardness (ppm)	Capacities (L) according to bypass							
		0	1	2	3	4	5	6	7
4	71.2	3686	4054	4515	5107	5898	6935	7217	7217
5	89	3579	3937	4384	4959	5727	6799	7008	7008
6	106.8	3373	3710	4132	4674	5398	6409	6605	6605
7	124.6	3071	3379	3762	4256	4915	5836	6528	6528
8	142.4	2687	2956	3292	3723	4300	5106	5711	5711
9	160.2	2389	2627	2926	3310	3823	4538	5076	5076
10	178	2150	2366	2634	3000	3466	4085	4569	4569
11	195.8	1954	2150	2394	2708	3128	3713	4153	4153
12	213.6	1791	1971	2194	2482	2867	3404	3807	3807
13	231.4	1654	1819	2026	2292	2647	3143	3516	3516
14	249.2	1536	1690	1881	2128	2458	2918	3264	3264
15	267	1433	1577	1755	1985	2293	2722	3045	3045
16	284.8	1344	1479	1647	1863	2151	2554	2857	2857
17	302.6	1264	1391	1549	1752	2023	2402	2687	2687
18	320.4	1194	1314	1463	1655	1911	2269	2538	2538
19	338.2	1131	1244	1386	1568	1811	2150	2405	2405
20	356	1076	1183	1318	1491	1722	2044	2286	2286
21	373.8	1024	1126	1255	1419	1639	1946	2177	2177
22	391.6	977	1076	1197	1354	1564	1857	2077	2077
23	409.4	934	1029	1144	1295	1495	1775	1986	1986
24	427.2	896	986	1097	1241	1433	1702	1904	1904
25	445	860	946	1053	1192	1376	1634	1828	1828
26	462.8	827	910	1013	1146	1324	1572	1758	1758
27	480.6	796	876	975	1103	1273	1512	1691	1691
28	498.4	769	844	941	1065	1230	1460	1633	1633
29	516.2	741	816	908	1027	1187	1409	1576	1576
30	534	717	789	878	994	1148	1363	1524	1524
31	551.8	693	763	849	960	1109	1316	1473	1473
32	569.6	671	739	822	930	1075	1276	1427	1427
33	587.4	651	717	798	903	1043	1238	1384	1384
34	605.2	633	696	775	877	1013	1202	1345	1345
35	623	614	676	752	851	983	1167	1306	1306
Coffee Machine				●	●	●	●	●	●
Espresso Machine				●	●	●	●	●	●
Vending Machine				●	●	●	●	●	●
Combi Ovens		●	●						
Conventional Ovens		●	●						

Capacity chart

- 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

Capacity chart VH IEN 6000

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

Capacity chart

- 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

Capacity chart VH IEN 9000

Hardness (dH)	Hardness (ppm)	Recommended Bypass Dial Setting	Capacities (L) according to bypass							
			0	1	2	3	4	5	6	7
4	71.2	7	10825	11909	13261	14999	17324	20568	20567	20567
5	89	7	10268	11893	13243	14979	17301	20540	21169	21169
6	106.8	6	9677	11210	12482	14118	16307	19360	19952	19952
7	124.6	5	9278	10208	11366	12856	14849	17629	19720	19720
8	142.4	5	8120	8932	9947	11251	12995	15428	17257	17257
9	160.2	4	7217	7938	8841	10000	11549	13712	15338	15338
10	178	3	6495	7145	7957	9000	10395	12341	13805	13805
11	195.8	3	5905	6495	7234	8183	9451	11220	12551	12551
12	213.6	3	5413	5954	6631	7501	8663	10285	11505	11505
13	231.4	3	4996	5496	6120	6923	7996	9493	10618	10618
14	249.2	3	4640	5103	5684	6429	7426	8816	9861	9861
15	267	3	4330	4764	5304	5999	6929	8227	9202	9202
16	284.8	3	4059	4466	4973	5624	6496	7713	8627	8627
17	302.6	3	3821	4203	4680	5294	6115	7260	8120	8120
18	320.4	3	3608	3969	4420	5000	5775	6856	7669	7669
19	338.2	2	3419	3761	4188	4737	5471	6496	7266	7266
20	356	2	3248	3573	3978	4500	5198	6171	6902	6902
21	373.8	2	3093	3402	3789	4286	4950	5877	6574	6574
22	391.6	2	2953	3248	3617	4091	4725	5610	6275	6275
23	409.4	2	2824	3107	3460	3913	4520	5366	6003	6003
24	427.2	2	2707	2977	3316	3750	4332	5143	5752	5752
25	445	2	2598	2858	3183	3600	4158	4936	5522	5522
26	462.8	2	2499	2748	3061	3462	3999	4748	5311	5311
27	480.6	2	2406	2646	2947	3333	3850	4571	5113	5113
28	498.4	2	2320	2552	2842	3215	3713	4408	4931	4913
29	516.2	2	2241	2464	2745	3104	3586	4257	4762	4762
30	534	2	2166	2381	2653	3001	3466	4115	4603	4603
31	551.8	2	2095	2305	2567	2903	3353	3981	4453	4453
32	569.6	2	2030	2233	2486	2812	3248	3856	4314	4314
33	587.4	2	1968	2166	2411	2728	3150	3740	4184	4184
34	605.2	2	1910	2101	2340	2647	3057	3630	4060	4060
35	623	2	1855	2042	2273	2571	2969	3525	3943	3943
Coffee Machine		2-7			●	●	●	●	●	●
Espresso Machine		2-7			●	●	●	●	●	●
Vending Machine		2-7			●	●	●	●	●	●
Combi Ovens		0-1	●	●						
Conventional Ovens		0-1	●	●						

Capacity chart

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