

TABLE OF BY-PASSES AND CAPACITIES

PURITY Quell ST



Carbonate hardness °dH	Recommended by-pass setting	Filter capacity in litres		
		PURITY 450	PURITY 600	PURITY 1200
Coffee, espresso and vending machines				
4	50%	8.250	14.100	25.800
5	50%	8.250	14.100	25.800
6	50%	8.250	14.100	25.800
7	50%	7.071	12.086	22.114
8	50%	6.188	10.575	19.350
9	50%	5.500	9.400	17.200
10	40%	4.217	7.207	13.187
11	40%	3.883	6.552	11.988
12	30%	3.077	5.260	9.624
13	30%	2.841	4.855	8.884
14	30%	2.638	4.508	8.249
15	30%	2.462	4.208	7.699
16	30%	2.308	3.945	7.218
17	30%	2.172	3.713	6.793
18	30%	2.052	3.506	6.416
19	30%	1.944	3.322	6.078
20	20%	1.650	2.820	5.160
21	20%	1.571	2.686	4.914
22	20%	1.500	2.564	4.691
23	20%	1.435	2.452	4.487
24	20%	1.375	2.350	4.300
25	20%	1.320	2.256	4.128
28	20%	1.179	2.014	3.686
31	20%	1.065	1.819	3.329
35	20%	943	1.611	2.949
Combi ovens and conventional ovens				
4	10%	4.991	8.530	15.607
5	10%	4.991	8.530	15.607
6	10%	4.991	8.530	15.607
7	10%	4.278	7.311	13.378
8	10%	3.743	6.397	11.706
9	10%	3.327	5.686	10.405
10	10%	2.994	5.118	9.364
11	10%	2.722	4.653	8.513
12	10%	2.495	4.265	7.804
13	10%	2.303	3.937	7.203
14	10%	2.139	3.656	6.689
15	10%	1.996	3.412	6.243
16	10%	1.872	3.199	5.853
17	10%	1.761	3.010	5.508
18	10%	1.664	2.843	5.202
19	10%	1.576	2.694	4.929
20	10%	1.497	2.559	4.682
21	10%	1.426	2.437	4.459
22	10%	1.361	2.326	4.257
23	10%	1.302	2.225	4.071
24	10%	1.248	2.132	3.902
25	10%	1.198	2.047	3.746
28	10%	1.069	1.828	3.344
31	10%	966	1.651	3.021
35	10%	856	1.462	2.676

PURITY Finest C500



Total hardness °dH	Recommended by-pass setting	Filter capacity in litres
		PURITY Finest C500
Coffee and espresso machines		
4	0%	5.690
5	0%	5.690
6	0%	5.690
7	0%	4.877
8	0%	4.268
9	0%	3.793
10	0%	3.414
11	0%	3.104
12	0%	2.845
13	0%	2.626
14	0%	2.439
15	0%	2.276
16	0%	2.134
17	0%	2.008
18	0%	1.897
19	0%	1.797
20	0%	1.707
21	0%	1.626
22	0%	1.552
23	0%	1.484
24	0%	1.423
25	0%	1.366
26	0%	1.313
27	0%	1.264
28	0%	1.219
29	0%	1.177
30	0%	1.138
31	0%	1.101
32	0%	1.067
33	0%	1.035
34	0%	1.004
35	0%	975

PURITY Finest



Total hardness °dH	Recommended by-pass setting	Filter capacity in litres	
		PURITY Finest 600	PURITY Finest 1200
4	0%	7.333	13.583
5	0%	7.333	13.583
6	0%	7.333	13.583
7	0%	6.286	11.643
8	0%	5.500	10.188
9	0%	4.889	9.056
10	0%	4.400	8.150
11	0%	4.000	7.409
12	0%	3.667	6.792
13	0%	3.385	6.269
14	0%	3.143	5.821
15	0%	2.933	5.433
16	0%	2.750	5.094
17	0%	2.588	4.794
18	0%	2.444	4.528
19	0%	2.316	4.289
20	0%	2.200	4.075
21	0%	2.095	3.881
23	0%	1.913	3.543
25	0%	1.760	3.260
28	0%	1.571	2.911
31	0%	1.419	2.629
35	0%	1.257	2.329

PURITY Fresh C50



Vending machines and coffee machines in soft water areas

filter capacity in litres

12.000 litres

PURITY C1000 AC



Cooler

filter capacity in litres

10.000 litres

Note: The stated capacities have been tested and calculated on the basis of common application and machine conditions. External factors (such as fluctuating crude water quality and/or machine type) can cause deviations from this information.

TABLE OF BY-PASSES AND CAPACITIES

PURITY 1200 Clean



Carbonate hardness	By-pass setting 0%	By-pass setting 10%
°dH	Volume in litres	Volume in litres
4	30.000	32.667
5	24.000	26.133
6	20.000	21.778
7	17.143	18.667
8	15.000	16.333
9	13.333	14.519
10	12.000	13.067
11	10.909	11.879
12	10.000	10.889
13	9.231	10.051
14	8.571	9.333
15	8.000	8.711
16	7.500	8.167
17	7.059	7.686
18	6.667	7.259
19	6.316	6.877
20	6.000	6.533
21	5.714	6.222
23	5.217	5.681
25	4.800	5.227
28	4.286	4.667
31	3.871	4.215
35	3.429	3.733

PURITY 1200 Clean Extra



Gesamthärte	By-pass setting 0%	By-pass setting 10%
°dH	Volume in litres	Volume in litres
4	12.500	13.611
5	10.000	10.889
6	8.333	9.074
7	7.143	7.778
8	6.250	6.806
9	5.556	6.049
10	5.000	5.444
11	4.545	4.949
12	4.167	4.537
13	3.846	4.188
14	3.571	3.889
15	3.333	3.630
16	3.125	3.403
17	2.941	3.203
18	2.778	3.025
19	2.632	2.865
20	2.500	2.722
21	2.381	2.593
23	2.174	2.367
25	2.000	2.178
28	1.786	1.944
31	1.613	1.756
35	1.429	1.556

PURITY Steam



Carbonate hardness °dH	PURITY 450 Steam			PURITY 600 Steam			PURITY 1200 Steam		
	By-pass setting			By-pass setting			By-pass setting		
	0	1 / 2	3	0	1 / 2	3	0	1 / 2	3
4	5.633	6.134	6.760	8.833	9.619	10.600	16.530	17.999	19.836
5	5.633	6.134	6.760	8.833	9.619	10.600	16.530	17.999	19.836
6	5.633	6.134	6.760	8.833	9.619	10.600	16.530	17.999	19.836
7	4.829	5.258	5.794	7.571	8.244	9.086	14.169	15.428	17.002
8	4.225	4.601	5.070	6.625	7.214	7.950	12.398	13.500	14.877
9	3.756	4.089	4.507	5.889	6.412	7.067	11.020	12.000	13.224
10	3.380	3.680	4.056	5.300	5.771	6.360	9.918	10.800	11.902
11	3.073	3.346	3.687	4.818	5.246	5.782	9.016	9.818	10.820
12	2.817	3.067	3.380	4.417	4.809	5.300	8.265	9.000	9.918
13	2.600	2.831	3.120	4.077	4.439	4.892	7.629	8.307	9.155
14	2.414	2.629	2.897	3.786	4.122	4.543	7.084	7.714	8.501
15	2.253	2.454	2.704	3.533	3.847	4.240	6.612	7.200	7.934
16	2.113	2.300	2.535	3.313	3.607	3.975	6.199	6.750	7.439
17	1.988	2.165	2.386	3.118	3.395	3.741	5.834	6.353	7.001
18	1.878	2.045	2.253	2.944	3.206	3.533	5.510	6.000	6.612
19	1.779	1.937	2.135	2.789	3.037	3.347	5.220	5.684	6.264
20	1.690	1.840	2.028	2.650	2.886	3.180	4.959	5.400	5.951
21	1.610	1.753	1.931	2.524	2.748	3.029	4.723	5.143	5.667
23	1.470	1.600	1.763	2.304	2.509	2.765	4.312	4.695	5.175
25	1.352	1.472	1.622	2.120	2.308	2.544	3.967	4.320	4.761
28	1.207	1.314	1.449	1.893	2.061	2.271	3.542	3.857	4.251
31	1.090	1.187	1.308	1.710	1.862	2.052	3.199	3.484	3.839
35	966	1.052	1.159	1.514	1.649	1.817	2.834	3.086	3.400

Recommended by-pass setting

The by-pass position can be adjusted to the local water quality or the machine type.

The following recommendations for by-pass settings apply by default:

Position 0: All devices in areas with an extremely high water hardness level (Temporary hardness 22 °KH and higher)

Position 1: Combi ovens and conventional ovens with direct injection system.

Position 2: Combi ovens and conventional ovens with boiler system.

Position 3: All devices in soft water areas (Temporary hardness up to 7 °KH).

You can obtain individual recommendations from your BRITA contact.

Note: The stated capacities have been tested and calculated on the basis of common application and machine conditions. External factors (such as fluctuating crude water quality and/or machine type) can cause deviations from this information.

TABLE OF BY-PASSES AND CAPACITIES

PURITY C Quell ST



fixed by-pass setting of 0%

Carbonate hardness °dH	Recommended by-pass setting	Filter capacity in litres				
		PURITY C50	PURITY C150	PURITY C300	PURITY C500	PURITY C1100
4	0%	1.000	2.508	4.167	7.083	11.979
5	0%	1.000	2.508	4.167	7.083	11.979
6	0%	1.000	2.508	4.167	7.083	11.979
7	0%	857	2.150	3.571	6.071	10.268
8	0%	750	1.881	3.125	5.313	8.984
9	0%	667	1.672	2.778	4.722	7.986
10	0%	600	1.505	2.500	4.250	7.188
11	0%	545	1.368	2.273	3.864	6.534
12	0%	500	1.254	2.083	3.542	5.990
13	0%	462	1.158	1.923	3.269	5.529
14	0%	429	1.075	1.786	3.036	5.134
15	0%	400	1.003	1.667	2.833	4.792
16	0%	375	941	1.563	2.656	4.492
17	0%	353	885	1.471	2.500	4.228
18	0%	333	836	1.389	2.361	3.993
19	0%	316	792	1.316	2.237	3.783
20	0%	300	753	1.250	2.125	3.594
21	0%	286	717	1.190	2.024	3.423
22	0%	273	684	1.136	1.932	3.267
23	0%	261	654	1.087	1.848	3.125
24	0%	250	627	1.042	1.771	2.995
25	0%	240	602	1.000	1.700	2.875
26	0%	231	579	962	1.635	2.764
27	0%	222	557	926	1.574	2.662
28	0%	214	538	893	1.518	2.567
29	0%	207	519	862	1.466	2.478
30	0%	200	502	833	1.417	2.396
31	0%	194	485	806	1.371	2.319
32	0%	188	470	781	1.328	2.246
33	0%	182	456	758	1.288	2.178
34	0%	176	443	735	1.250	2.114
35	0%	171	430	714	1.214	2.054

fixed by-pass setting of 30%

Carbonate hardness °dH	Recommended by-pass setting	Filter capacity in litres				
		PURITY C50	PURITY C150	PURITY C300	PURITY C500	PURITY C1100
4	30%	1386	3.476	5.774	9.815	16.600
5	30%	1386	3.476	5.774	9.815	16.600
6	30%	1386	3.476	5.774	9.815	16.600
7	30%	1188	2.979	4.949	8.413	14.228
8	30%	1039	2.607	4.330	7.362	12.450
9	30%	924	2.317	3.849	6.544	11.066
10	30%	831	2.086	3.464	5.889	9.960
11	30%	756	1.896	3.149	5.354	9.054
12	30%	693	1.738	2.887	4.908	8.300
13	30%	640	1.604	2.665	4.530	7.661
14	30%	594	1.490	2.474	4.207	7.114
15	30%	554	1.390	2.310	3.926	6.640
16	30%	520	1.303	2.165	3.681	6.225
17	30%	489	1.227	2.038	3.464	5.859
18	30%	462	1.159	1.925	3.272	5.533
19	30%	438	1.098	1.823	3.100	5.242
20	30%	416	1.043	1.732	2.945	4.980
21	30%	396	993	1.650	2.804	4.743
22	30%	378	948	1.575	2.677	4.527
23	30%	361	907	1.506	2.561	4.330
24	30%	346	869	1.443	2.454	4.150
25	30%	333	834	1.386	2.356	3.984
26	30%	320	802	1.332	2.265	3.831
27	30%	308	772	1.283	2.181	3.689
28	30%	297	745	1.237	2.103	3.557
29	30%	287	719	1.195	2.031	3.434
30	30%	277	695	1.155	1.963	3.320
31	30%	268	673	1.118	1.900	3.213
32	30%	260	652	1.083	1.840	3.112
33	30%	252	632	1.050	1.785	3.018
34	30%	245	613	1.019	1.732	2.929
35	30%	238	596	990	1.683	2.846

PURITY C cartridge heads with variable by-pass settings of 0–70%

Carbonate hardness °dH	Recommended by-pass setting	Filter capacity in litres				
		PURITY C50	PURITY C150	PURITY C300	PURITY C500	PURITY C1100
Coffee, espresso and vending machines						
4	70%	1.900	4.766	7.917	13.458	22.760
5	70%	1.900	4.766	7.917	13.458	22.760
6	70%	1.900	4.766	7.917	13.458	22.760
7	60%	1.821	4.569	7.589	12.902	21.819
8	50%	1.425	3.574	5.938	10.094	17.070
9	50%	1.267	3.177	5.278	8.972	15.174
10	40%	960	2.408	4.000	6.800	11.500
11	40%	873	2.189	3.636	6.182	10.455
12	30%	693	1.738	2.887	4.908	8.300
13	30%	640	1.604	2.665	4.530	7.661
14	30%	594	1.490	2.474	4.207	7.114
15	30%	554	1.390	2.310	3.926	6.640
16	30%	520	1.303	2.165	3.681	6.225
17	30%	489	1.227	2.038	3.464	5.859
18	30%	462	1.159	1.925	3.272	5.533
19	20%	387	970	1.612	2.740	4.634
20	20%	368	922	1.531	2.603	4.402
21	20%	350	878	1.458	2.479	4.193
22	20%	334	838	1.392	2.366	4.002
23	20%	320	802	1.332	2.264	3.828
24	20%	306	768	1.276	2.169	3.669
25	20%	294	737	1.225	2.083	3.522
26	20%	283	709	1.178	2.002	3.386
27	20%	272	683	1.134	1.928	3.261
28	20%	263	658	1.094	1.859	3.145
29	20%	253	636	1.056	1.795	3.036
30	20%	245	615	1.021	1.735	2.935
31	20%	237	595	988	1.679	2.840
32	20%	230	576	957	1.627	2.751
33	20%	223	559	928	1.578	2.668
34	20%	216	542	901	1.531	2.590
35	20%	210	527	875	1.488	2.516
Combi ovens and conventional ovens						
4	10%	1.100	2.759	4.583	7.792	13.177
5	10%	1.100	2.759	4.583	7.792	13.177
6	10%	1.100	2.759	4.583	7.792	13.177
7	10%	943	2.365	3.929	6.679	11.295
8	10%	825	2.069	3.438	5.844	9.883
9	10%	733	1.839	3.056	5.194	8.785
10	10%	660	1.656	2.750	4.675	7.906
11	10%	600	1.505	2.500	4.250	7.188
12	10%	550	1.380	2.292	3.896	6.589
13	10%	508	1.273	2.115	3.596	6.082
14	10%	471	1.183	1.964	3.339	5.647
15	10%	440	1.104	1.833	3.117	5.271
16	10%	413	1.035	1.719	2.922	4.941
17	10%	388	974	1.618	2.750	4.651
18	10%	367	920	1.528	2.597	4.392
19	10%	347	871	1.447	2.461	4.161
20	10%	330	828	1.375	2.338	3.953
21	10%	314	788	1.310	2.226	3.765
22	10%	300	753	1.250	2.125	3.594
23	10%	287	720	1.196	2.033	3.438
24	10%	275	690	1.146	1.948	3.294
25	10%	264	662	1.100	1.870	3.163
26	10%	254	637	1.058	1.798	3.041
27	10%	244	613	1.019	1.731	2.928
28	10%	236	591	982	1.670	2.824
29	10%	228	571	948	1.612	2.726
30	10%	220	552	917	1.558	2.635
31	10%	213	534	887	1.508	2.550
32	10%	206	517	859	1.461	2.471
33	10%	200	502	833	1.417	2.396
34	10%	194	487	809	1.375	2.325
35	10%	189	473	786	1.336	2.259

Note: The stated capacities have been tested and calculated on the basis of common application and machine conditions. External factors (such as fluctuating crude water quality and/or machine type) can cause deviations from this information.