

Description: Evaluation of Dust Generated during Receptacle Empty or Bag Disposal**Overview:**

The purpose of these tests was to test the spread of dust after a vacuum cleaner receptacle is emptied. We conducted tests at a small apartment that had 2 rooms plus a hallway. Tests were all conducted in the combined living room/ kitchen . The vacuum cleaners were filled with dust and then emptied in the kitchen, into a dustbin. We tested four vacuum models. They were bagless canister vacuum cleaners.

Test Vacuum Cleaners: Full Descriptions Annex F

AEG Ultracaptic

Dyson DC52

Bosch Relaxx'x

Miele Prototype

Challenge Dust Mixture :

ISO 12103-1 A2 Fine test dust

Pollen- Mulberry, non-fatted Greer Labs Lot 234482

Location of Apartment:

Milton Keynes Hub Apartments (Milton Keynes England)

Floor space of Test Room:

8m x 4m Living room with Kitchen area

2.5m ceiling

See attached drawing of the room

Floor Surface: Hard Floor

Trash Bin Description:

Location: Kitchen

Trash Can depth: 70 cm

Trash Can Opening: 35cm x 40 cm

Trash Can Liner: Plastic standard dust bin liner

Detection Methods:

1. Optical particle counters, TSI 3330
2. Optical Counters High Flow: HIAC 5230 and HIAC 5250

Sampling Locations:

Particle counter	Distance from Trash Bin	Location
TSI 3330 #1	0.5m	On counter
TSI 3330 #2	2m	Kitchen table
HIAC 5230	4m	Coffee Table
HIAC 5250	6m	Reading table

Summary of Trial Conditions (unless noted otherwise)

Time	Condition
Initial- time to reach clean stability	Room air Cleaners on – cleaning room
0-2 minutes	Room Air cleaners off- Room stabilizing
1 minute	Empty receptacle
10 minutes	Monitor Room particulate

Test Data: See IBR JN 15027MKA, 15027MKB, 15027MKC, 15027MKD

Photos:



AEG Test Vacuum Cleaner



Bosch Test Vacuum Cleaner

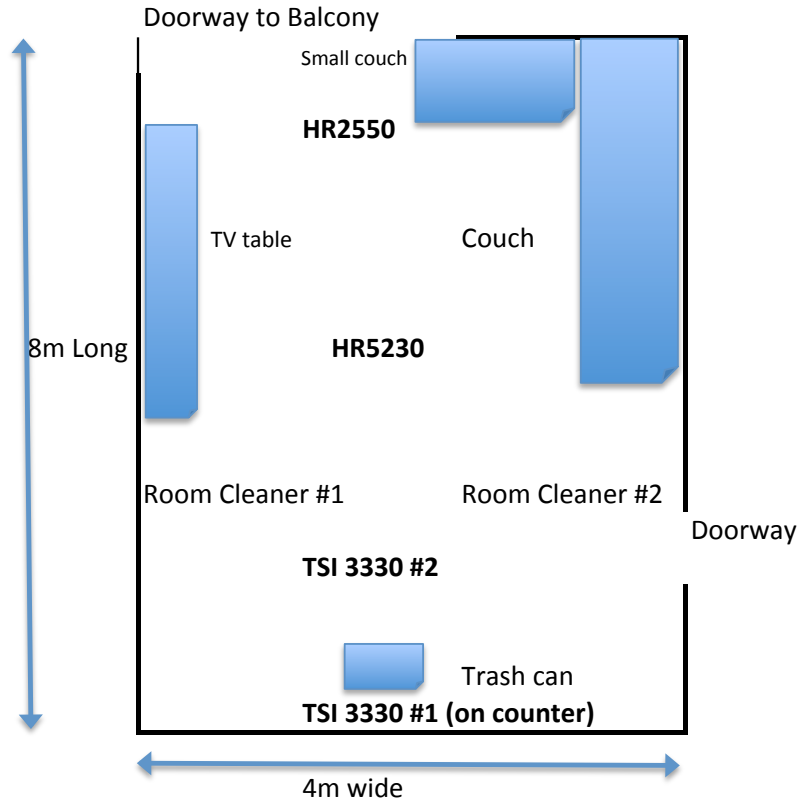


Dyson Test Vacuum Cleaner



Emptying of Dyson Receptacle

Room Layout- IBR JN 15027MK



Notes:

- TSI 3330 #1 on kitchen counter, above trash can
- TSI 3330#2 on low table, 2m from trash can
- HIAC 5230 on low table, 4m from trash can
- HIAC 5230 on low table 6m from trash can
- Counters all along center line of room
- Trash Can 70 cm tall with opening 35 cm x 40 cm

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKA

Test Date: 24th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: Miele Prototype

Trial #1

Receptacle load: 100g

Date Sample Received: 24th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL	
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1.0	1.0-2.0	2.0-3.0	3.0-5.0		>0.3
TSI 3330	0.5m	Room Cleaners on	0	23829	2802	1302	962	623	283	198	198	30196.1	
		Room Cleaners OFF	1	24338	2943	1472	962	792	453	85	283	31328	
			2	25385	3056	2406	1075	1019	311	198	651	34102	
		Empty Receptacle	1	30309	3736	1698	1075	764	509	198	425	38714	
		Room Cleaners OFF-Monitor Dust Cloud	2	46016	8122	6792	6141	4953	1868	1528	4953	80372	
			3	72222	15508	16244	16442	14575	6537	4924	12735	159188	
			4	64609	11377	9282	6537	6283	2830	1500	5122	107540	
			5	58581	9792	8915	6622	6000	2123	1953	4471	98456	
			6	67241	12480	12339	10245	8377	4075	1840	6452	123048	
			7	76835	14037	11858	10726	9764	3056	2066	6226	134567	
			8	53430	11433	10980	9339	9226	4132	2264	5405	106210	
9	54081		12197	11886	11179	9254	4245	2406	5830	111078			
10	60421	13329	12339	10641	9452	4217	1953	5462	117813				
TSI 3330	2m	Room Cleaners on	0	25498	3481	1896	991	821	283	198	198	33366	
		Room Cleaners OFF	1	23800	2773	1613	1330	679	340	255	255	31045	
			2	24678	2434	1585	651	679	170	113	396	30706	
		Empty Receptacle	1	30960	4075	2604	2547	2094	962	679	934	44856	
		Room Cleaners OFF-Monitor Dust Cloud	2	47091	15622	15622	18423	15254	7386	5547	9877	134821	
			3	45054	10301	10811	11575	10160	4868	3594	5858	102220	
			4	43412	8292	6877	7075	5603	2915	1698	3283	79155	
			5	51195	10301	10443	11179	9141	4783	3141	4556	104738	
			6	51365	11150	9962	12226	9764	4217	2773	4839	106295	
			7	52129	12084	10273	12622	9282	4698	2660	4924	108672	
			8	59147	11858	11320	12848	9650	3651	3085	3509	115068	
9	56713		13527	12339	12367	10018	4273	2717	3934	115889			
10	63251	14263	11377	13358	9679	4160	2717	3934	122737				
HIAC 5230	4m	Room Cleaners on	0	37520	4259	1628	1263	1040	323	151	301	46485	
		Room Cleaners OFF	1	35717	4368	1635	1391	1304	406	219	519	45559	
			2	39507	4900	2057	1706	1530	490	223	558	50971	
		Empty Receptacle	1	52850	10031	4666	4655	4965	797	908	1627	80499	
		Room Cleaners OFF-Monitor Dust Cloud	2	missed									
			3	69635	19587	9889	11057	12472	4510	2412	3180	132742	
			4	79289	23568	12195	14114	15674	5611	2940	3582	156973	
			5	86431	24471	12704	14611	16176	5480	2743	3162	165778	
			6	missed									
			7	93446	23760	12327	13965	15060	4971	2384	2694	168607	
8	98563	24217	12986	14108	14974	4783	2299	2249	174179				
HIAC 5250	6m	Room Cleaners on	0		12224	6296	5136	3408	1128	748	216	29156	
		Room Cleaners OFF	1		10424	6072	5572	3852	1372	1048	272	28612	
			2		15740	8504	7600	4736	1560	1256	300	39696	
		Empty Receptacle	1		21568	13380	13348	9644	3552	2776	668	64936	
		Room Cleaners OFF-Monitor Dust Cloud	2		40592	30632	42340	40288	17208	9268	3516	183844	
			3		48376	38068	52800	49512	19724	9732	3440	221652	
			4		53008	41392	57516	54368	21280	9864	3500	240928	
			5		53148	41972	58448	54432	20736	9756	3448	241940	
			6		55912	43900	59568	54064	20576	9032	3140	246192	
			7		53768	42088	57972	51996	18880	8068	3052	235824	
8		57440	44420	58968	51892	17972	7668	2696	241056				

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKA

Test Date: 24th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: Miele Prototype

Trial #2

Receptacle load: 100g

Date Sample Received: 24th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1.0	1.0-2.0	2.0-3.0	3.0-5.0	
TSI 3330	0.5m	Room Cleaners on	0	9056	1330	1641	1217	1075	453	85	396	15254
		Room Cleaners OFF	1	11490	2038	1613	1557	1132	594	226	821	19470
			2	11405	2490	2377	2038	934	425	396	736	20801
		Room Cleaners OFF-Monitor Dust Cloud	1	15593	3056	2321	1557	1500	453	509	934	25923
			2	47686	24678	25668	30819	26772	12735	7981	21876	198213
			3	22951	8575	7669	8122	6962	3509	2123	6254	66165
			4	27593	11462	11999	11122	10528	5037	2943	8575	89258
			5	29885	11462	10018	12056	9424	4868	3453	7896	89060
			6	33422	11348	12707	12311	10952	4839	3056	9113	97748
			7	32658	13329	13443	13895	11886	5009	3481	8462	102163
8	35120		12509	14320	12792	10613	5179	3339	7669	101540		
9	34894	12339	11999	12112	9198	4019	2773	6594	93928			
10	34639	12367	11320	11207	9198	3481	2038	5236	89485			
TSI 3330	2m	Room Cleaners on	0	9367	2066	1528	1104	708	396	226	481	15876
		Room Cleaners OFF	1	8405	1896	1472	1132	679	396	142	255	14376
			2	10697	1924	1443	1500	991	340	113	283	17291
		Room Cleaners OFF-Monitor Dust Cloud	1	10047	1896	1670	1528	849	255	340	311	16895
			2	12650	2745	2292	1953	1132	538	538	792	22640
			3	13499	3622	2858	2462	1387	849	708	1443	26828
			4	24281	9254	10924	12395	9113	5179	3339	5236	79721
			5	25866	10414	12650	11943	9594	4585	3170	4868	83089
			6	28979	13527	15791	16386	11518	4924	2689	5037	98852
			7	27055	10867	11348	11433	9254	4585	2745	4811	82098
8	27310		9933	9594	10867	7528	4075	2377	3934	75618		
9	26149	8773	8801	8632	7301	3396	2207	3396	68656			
10	29574	9452	8575	9565	7867	2887	1924	2689	72533			
HIAC 5230	4m	Room Cleaners on	0	13306	2750	1431	1356	1220	356	191	390	21000
		Room Cleaners OFF	1	13647	2638	1444	1322	1133	327	153	360	21024
			2	16148	3333	1684	1492	1316	388	203	418	24982
		Empty Receptacle	1	25480	5973	2901	2763		932	561	1027	39637
		Room Cleaners OFF-Monitor Dust Cloud	1	25859	5618	2869	2625	2473	784	451		40679
			2	29971	6828	3462	3167	3060	1039	559	1105	49191
			3	32902	8456	4213	4240	4238	1457	790	1323	57619
			4	38040	9844	5102	5072	5009	1677	887	1335	66966
			5	40236	10726	5546	5554	5558	1890	1017	1459	71986
			6	44911	12783	6925	7126	7111	2416	1219	1648	84139
7	49119		13779	7416	7749	7609	2468	1199	1579	90918		
8	54605		14860	8145	8142	8031	2557	1273	1555	99168		
9	55284	15137	8219	8400	8130	2580	1328	1454	100532			
10	58630	15453	8301	8411	7906	2500	1156	1357	103714			
HIAC 5250	6m	Room Cleaners on	0		9512	6520	6692	4476	1500	1060	280	30040
		Room Cleaners OFF	1		6432	4424	5092	3948	1560	1076	236	22768
			2		7804	5548	5888	3948	1400	900	240	25728
		Empty Receptacle	1		10076	7060	6960	4796	1560	1156	244	31852
		Room Cleaners OFF-Monitor Dust Cloud	2		13584	9776	10176	7188	2708	1760	500	45692
			3		16416	11604	11436	8068	2952	1912	508	52896
			4		18444	13040	13340	9940	3412	2316	692	61184
			5		20388	15420	16248	12632	4500	2596	732	72516
			6		24232	18352	19796	15236	5660	2972	992	87240
			7		28348	21968	24600	19016	6900	3396	1020	105248
8			31716	24068	27204	21224	7676	3576	1252	116716		
9			34868	27008	31760	24332	8712	3772	1212	131664		
10		36440	27876	32632	25464	8784	3860	1288	136344			

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TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKA

Test Date: 24th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: Miele Prototype

Trial #3

Receptacle load: 200g

Date Sample Received: 24th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1.0	1.0-2.0	2.0-3.0	3.0-5.0	
TSI 3330	0.5m	Room Cleaners on	0	35205	1924	1132	509	311	57	85	85	39309
		Room Cleaners OFF	1	35941	2066	1075	679	198	57	0	142	40158
		Room Cleaners OFF	1	41403	2490	849	792	679	255	142	226	46837
		Room Cleaners OFF-Monitor Dust Cloud	1	47516	2151	1585	1358	509	226	255	509	54110
			2	48280	2830	1302	991	934	226	142	226	54930
			3	75108	3877	1500	906	962	170	198	226	82947
			4	103550	4981	2462	1641	1075	509	255	368	114841
			5	105050	5151	2094	1472	821	283	255	368	115492
			6	95824	4924	2745	1358	934	340	311	566	107002
			7	111757	6198	2915	1755	1160	509	396	566	125256
8	113483		6198	3283	2038	821	538	226	679	127265		
9	100097	6339	2717	1840	736	368	85	594	112776			
10	135783	8716	4104	2292	1104	453	142	566	153160			
TSI 3330	2m	Room Cleaners on	0	21282	1415	566	453	198	57	0	113	24083
		Room Cleaners OFF	1	23772	1358	708	651	255	113	0	113	26970
		Room Cleaners OFF	1	30253	2462	1726	1160	594	311	283	538	37328
		Room Cleaners OFF-Monitor Dust Cloud	1	29404	2123	1217	1047	877	368	340	425	35800
			2	32545	2349	1274	1075	538	509	113	311	38714
			3	30394	2151	1217	906	538	142	142	311	35800
			4	31696	2660	1274	962	509	283	255	226	37865
			5	38997	2349	1641	991	906	142	226	311	45563
			6	34837	2915	1896	1528	877	142	170	340	42705
			7	45252	3736	2236	1868	1075	425	311	481	55383
8	52412		3368	1698	1726	1075	283	198	226	60987		
9	64354	4302	3000	1896	623	311	311	340	75137			
10	57308	4613	2887	2377	1217	481	198	651	69731			
HIAC 5230	4m	Room Cleaners on	0	14022	2534	1163	1075	981	354	172	350	20651
		Room Cleaners OFF	1	14422	2470	1078	992	949	345	155	334	20745
		Room Cleaners OFF	2	18586	3280	1449	1308	1217	442	195	450	26927
		Empty Receptacle	1	21818	4136	1813	1649	1526	537	250	540	32269
		Room Cleaners OFF-Monitor Dust Cloud	1	26903	5154	2501	2236	2144	661	361	733	40693
			2	28622	5844	2766	2550	2399	768	370	723	44042
			3	35474	9628	5106	5299	5344	1703	815	1097	64466
			4	42854	12539	6697	6983	7267	2232	1066	1177	80815
			5	48135	14484	7944	8578	8519	2702	1247	1285	92894
			6	48749	16129	9217	9759	9857	3000	1354	1319	99384
7	52791		16917	9480	10199	10247	3177	1375	1305	105491		
8	57097	18135	10431	10993	10731	3259	1376	1291	113313			
9	59240	18489	10594	11243	11023	3288	1397	1237	116511			
HIAC 5250	6m	Room Cleaners on	0		5552	3896	3956	3268	1364	960	204	19200
		Room Cleaners OFF	1		6760	4504	4532	3032	1280	860	212	21180
		Room Cleaners OFF	2		8824	5724	5444	3708	1316	968	248	26232
		Empty Receptacle	1		11480	7624	8308	6156	2324	1832	364	38088
		Room Cleaners OFF-Monitor Dust Cloud	1		12652	4720	9392	7092	2624	1996	532	39008
			2		15596	9092	11624	8672	2916	1980	424	50304
			3		20460	14984	17340	13568	5224	2632	836	75044
			4		28824	22032	26976	22812	7600	3520	1088	112852
			5		33048	26200	34400	29448	11672	8032	1280	144080
			6		37552	29868	39848	32660	10792	4408	1420	156548
7			42208	33224	44544	36168	11436	4500	1408	173488		
8		43988	34864	45700	37780	11720	4672	1464	180188			
9		44696	35932	46244	38228	12044	4644	1352	183140			

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TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKA

Test Date: 24th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: Miele Prototype

Trial #4

Receptacle load: 200g

Date Sample Received: 24th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)							TOTAL >0.3	
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1.0	1.0-2.0	2.0-3.0		3.0-5.0
TSI 3330	0.5m	Room Cleaners on	0	41035	2547	1557	877	170	142	57	425	49921
		Room Cleaners OFF	1	30536	2179	1132	566	255	85	85	198	35035
			2	49016	3226	1868	1104	679	340	142	481	56855
		Empty Receptacle	1	41007	4188	1981	934	764	198	170	679	193006
		Room Cleaners OFF-Monitor Dust Cloud	1	54591	11122	13641	13443	17037	9848	7103	23602	150386
			2	60732	15650	18197	21253	23829	13131	10386	29828	193006
			3	73127	12028	12933	13612	15480	6849	5264	16244	155537
			4	83881	11150	9905	10443	9933	6113	3339	10697	145462
			5	88466	13782	11546	13273	12311	6622	3962	11009	160970
			6	137651	15763	11858	10471	10103	5462	3622	9198	204128
7	159272		16188	10556	10669	8943	4641	2462	6594	219325		
8	170479		16074	10330	8518	8603	4188	2887	6368	227447		
9	166885	16952	10386	8066	7471	3198	2123	5575	220655			
10	158225	17886	10131	7075	6735	3311	2434	4528	210326			
TSI 3330	2m	Room Cleaners on	0	32121	2066	1302	934	481	226	198	170	37498
		Room Cleaners OFF	1	27055	2689	1189	764	340	170	113	311	32630
			2	24508	2349	877	481	396	142	170	85	29008
		Empty Receptacle	1	27338	3000	1217	877	311	255	28	226	33253
		Room Cleaners OFF-Monitor Dust Cloud	1	28894	2490	1613	849	623	311	283	198	35262
			2	34752	4019	2547	2349	1500	821	736	821	47544
			3	40101	5094	5575	6028	5179	3679	2406	5122	73184
			4	41205	5717	3453	4075	3736	2038	1132	2632	63986
			5	49497	6735	4839	4981	4471	2604	1557	3226	77910
			6	58383	9254	6085	8179	7358	4273	2406	4726	100663
7	68911		11377	7811	8943	8575	4245	3226	4075	117162		
8	71288		9905	7613	8207	6905	4302	2773	3141	114134		
9	83145	10613	7952	8603	6651	3283	1896	3283	125426			
10	82212	10471	7669	7047	6452	3339	2094	2321	121605			
HIAC 5230	4m	Room Cleaners on	0	39632	3533	1384	1083	740	217	103	278	46970
		Room Cleaners OFF	1	37925	3624	1493	980	697	197	101	201	45218
		Empty Receptacle	1	50458	7703	3015	2882	2945	1214	689	1396	70302
		Room Cleaners OFF-Monitor Dust Cloud	1	64083	11972	4758	4941	5950	2369	1419	2242	97734
			2	65565	14291	5748	3272	7783	3308	1897	2730	104594
			3	68511	13141	5281	5470	6554	2639	1560	2327	105483
			4	75182	14554	5914	6295	7443	3082	1710	2215	116395
			5	78839	14756	5978	6361	7605	2999	1717	2047	120302
			6	93231	16037	6806	6679	7614	2949	1648	1935	136899
			7	95164	17115	7069	7287	8058	3184	1634	1935	141446
8	102815		17621	7576	7482	7220	3073	1552	1801	149140		
9	112498	18258	7847	7782	8439	3131	1557	1604	161116			
HIAC 5250	6m	Room Cleaners on	0		11864	5756	4996	2288	956	876	212	26948
		Room Cleaners OFF	1		12196	6688	4824	2364	676	520	160	27428
		Empty Receptacle	1		15948	9392	8916	5412	1888	1320	388	43264
		Room Cleaners OFF-Monitor Dust Cloud	1		21704	13304	15328	13328	6084	3948	1156	74852
			2		27520	16880	20364	19296	8836	5180	1564	99640
			3		28628	18716	21864	16896	9668	5604	1888	103264
			4		31344	21028	24748	23868	11108	5908	2076	120080
			5		37968	24052	27440	26208	11464	5680	1952	134764
			6		39460	249532	28060	26600	11740	5876	1972	363240
			7		39552	26204	30900	28928	11908	6128	1960	145580
8			44476	28460	31620	29780	12004	5500	3048	154888		
9		45988	28592	32636	30688	11960	5596	1876	157336			

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

pg 4/4

Reviewed By

Performed By: CP/SG/DB/MA

Data Location: CP

Susan H Goldsmith, Director

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKB

Test Date: 25th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: AEG Ultracaptic Bagless Canister Model Code UCORIGON PNC 903152106 SN 31700154

TRIAL #1

Receptacle load: 200 g

Date Sample Received: 19th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL >0.3
				0.3-0.5	0.5-0.7	0.7-1	1-2	2-3	3-4	4-5	5-6	
TSI 3330	0.5m	Room Cleaners on	0	38057	3000	600	514	200	86	0	42457.14	
		Room Cleaners OFF	1	35800	3171	914	600	343	57	171	41114.29	
			2	37457	3686	943	800	343	286	143	43942.86	
		Empty Receptacle	1	73457	6600	2086	1343	600	400	257	486	85229
			2	206886	16371	5400	2771	1714	686	629	1800	236257
			3	141371	13800	6543	7514	7714	4771	2829	8886	193429
			4	112943	10371	6657	6886	7486	4686	2457	6914	158400
			5	139143	14600	10343	9971	12914	7114	4057	10686	208829
			6	180686	19657	11829	12857	15057	6486	5086	10257	261914
			7	168800	16600	9829	10343	11514	5657	4000	8286	235029
8	166114		17000	9771	9514	10457	4371	3600	7286	228114		
9	168800	15400	8314	6600	7086	4229	2514	5000	217943			
10	138143	12343	7057	6600	6229	3600	1629	5143	180743			
TSI 3330	2m	Room Cleaners on	0	36829	3314	800	400	86	29	29	0	41486
		Room Cleaners OFF	1	37400	3314	1314	1029	514	171	143	400	44286
			2	36314	3057	1314	743	571	229	143	343	42714
		Empty Receptacle	1	38571	3457	1514	943	486	343	257	343	45914
			2	50400	5400	2343	2200	1971	1171	800	1686	65971
			3	66057	7686	5371	6257	7029	3629	2457	3829	102314
			4	88486	13857	14857	22571	27143	16686	10486	14686	208771
			5	71457	8143	4857	6857	8514	3971	2743	4371	110914
			6	69000	7657	4686	5600	7086	3429	2286	3571	103314
			7	72514	8029	5686	6743	7114	4057	2486	3971	110600
8	87229		9771	5571	5914	6114	3229	2257	2829	122914		
9	82086	8600	5257	5971	5800	3057	2114	3086	115971			
10	89886	9343	5800	6886	7143	3543	2286	2771	127657			
HIAC 5230	4m	Room Cleaners on	0	60180	6242	2220	980	359	125	80	64	70250
		Room Cleaners OFF	1	63648	11095	5658	3950	2621	1511	1124	914	90521
			2	67266	9708	4414	2763	1689	915	676	523	87954
		Empty Receptacle	1	79128	12472	6092	4022	2560	1334	973	769	107350
			2	115337	17449	8040	5141	3139	1490	992	718	152306
			3	118959	22281	11546	8130	5381	2559	1582	1048	171486
			4	167927	41728	24967	19106	13306	6058	3256	1823	278171
			5	158400	45401	28450	22414	15613	7002	3598	1982	282860
			6	168306	45251	28066	21681	14961	6512	3329	1735	289841
			7	177464	49568	30990	23963	16390	6963	3530	1840	310708
8	190984		49039	29855	22741	15404	6342	3130	1545	319040		
9	198579	50197	30616	23125	15386	6296	3086	1512	328797			
10	215640	51704	30737	22915	15163	6102	2910	1429	346600			
HIAC 5250	6m	Room Cleaners on	0		6662	2733	1090	242	42	14	7	10790
		Room Cleaners OFF	1		7593	3913	2198	1246	833	639	372	16794
			2		11625	6076	3431	1797	1083	776	447	25235
		Empty Receptacle	1		15119	7652	4110	2071	1118	771	432	31273
			2		20413	10222	5593	2820	1518	1030	583	42179
			3		22807	12529	7459	3975	1982	1189	651	50592
			4		26334	15314	9718	5610	2682	1550	831	62039
			5		33647	21749	15282	9561	4283	2210	1147	87879
			6		35035	23614	17011	10718	4685	2253	1149	94465
			7		38632	26494	19429	12329	5144	2435	1191	105654
8			40796	27873	20325	12605	5135	2380	1145	110259		
9		41532	28537	20807	12659	4911	2153	1050	111649			
10		45178	30545	22000	13451	5286	2381	1115	119956			

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKB

Test Date: 25th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: AEG Ultracaptic Bagless Canister Model Code UCORIGON PNC 903152106 SN 31700154

TRIAL #2

Receptacle load: 200 g

Date Sample Received: 19th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL >0.3
				0.3-0.5	0.5-0.7	0.7-1	1-2	2-3	3-4	4-5	5-6	
TSI 3330	0.5m	Room Cleaners on	0	37514	3257	1029	371	229	57	29	57	42543
		Room Cleaners OFF	1	55829	4943	2257	1000	771	200	114	571	65686
			2	72029	7371	2429	1714	971	429	200	343	85486
		Empty Receptacle	1	76771	10543	9057	10314	10571	5629	4314	12000	139200
		Room Cleaners OFF- Monitor Dust Cloud	2	358800	168343	242514	302114	347686	169771	106943	295457	1991629
			3	190000	67571	84857	104771	120257	58657	34314	91057	751486
			4	136286	31857	36486	45657	48743	23857	14200	28943	366029
			5	124657	24857	28514	29714	33114	17229	9371	22314	289771
			6	128829	25171	26771	33429	35543	15629	10114	24114	299600
			7	135057	25229	27343	31971	32857	15829	9343	22429	300057
8	138457		22914	22686	25914	27200	12000	7543	16914	273629		
9	129029	23114	20229	23543	23971	10743	6629	14600	251857			
10	130629	23086	19086	20886	22257	8714	6171	11629	242457			
TSI 3330	2m	Room Cleaners on	0	24743	2429	771	343	57	57	57	0	28457
		Room Cleaners OFF	1	24486	3343	1629	1914	1286	429	514	571	34171
			2	27257	3086	1743	1086	1057	400	257	343	35229
		Empty Receptacle	1	36914	3371	2257	1314	1229	657	229	571	46543
		Room Cleaners OFF- Monitor Dust Cloud	2	50571	7343	6429	9857	6943	4171	2714	5171	93200
			3	47714	9943	10514	14486	14743	7286	4086	6086	114857
			4	51143	14743	15343	20886	23143	11257	6629	10000	153143
			5	64943	20543	24343	35943	35914	20371	12114	18486	232657
			6	66771	19514	22086	32486	35114	17086	11171	14343	218571
			7	73457	18257	22086	30629	31086	15171	8943	11600	211229
8	77486		16857	19143	26657	25857	13143	7171	10057	196371		
9	73486	16000	18057	25457	25314	12971	7800	10114	189200			
10	81114	20486	22200	27686	28171	13771	8686	10771	212886			
HIAC 5230	4m	Room Cleaners on	0	46025	5192	2037	1006	400	93	47	38	54838
		Room Cleaners OFF	1	52283	10769	6022	4266	2659	1193	711	475	78378
			2	58287	12986	7440	5357	3496	1628	1005	685	90884
		Empty Receptacle	1	58287	12986	7440	5357	3496	1628	1005	685	90884
		Room Cleaners OFF- Monitor Dust Cloud	2	73313	18066	10786	7926	5220	2384	1360	853	119908
			3	99508	39728	27070	21583	14976	6955	3846	2233	215899
			4	158453	88835	65614	53928	38005	16864	8782	4698	435179
			5	203793	124213	93649	77225	54631	23833	12055	6145	595544
			6	220270	132977	100266	82566	57910	24312	11954	6010	636265
			7	218449	126422	94336	76903	53489	21759	10382	5078	606818
8	224429		126910	94322	76771	52993	21066	9787	4627	610905		
9	235631	134337	100072	81181	55367	21722	10050	4710	643070			
10	235348	130467	96912	78223	52927	20347	9266	4277	627767			
HIAC 5250	6m	Room Cleaners on	0		5271	2460	1049	254	67	39	14	9154
		Room Cleaners OFF	1		10838	6527	4123	2231	1038	658	347	25762
			2		12054	7228	4538	2458	1098	667	363	28406
		Empty Receptacle	1		12161	7922	5274	2970	1384	837	468	31016
		Room Cleaners OFF- Monitor Dust Cloud	2		18611	12985	9320	5719	2686	1507	820	51648
			3		32423	24715	19040	12251	5259	2618	1351	97657
			4		55931	44553	35743	23451	9757	4569	2231	176235
			5		75824	63057	51978	34730	14606	6597	3132	249924
			6		89312	75446	62617	41550	16842	7558	3533	296858
			7		93651	78338	64662	42816	16707	7139	3271	306584
8			99139	82564	67522	43707	16733	6880	3007	319552		
9		102025	83788	67994	43435	16004	6492	2867	322605			
10		101812	83994	68191	43446	15803	6207	2743	322196			

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKB

Test Date: 25th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: AEG Ultracaptic Bagless Canister Model Code UCORIGON PNC 903152106 SN 31700154 **TRIAL #3**

Receptacle load: 200 g

Date Sample Received: 19th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL >0.3
				0.3-0.5	0.5-0.7	0.7-1	1-2	2-3	3-4	4-5	5-6	
TSI 3330	0.5m	Room Cleaners on	0	4528	877	538	396	142	113	57	57	6707
		Room Cleaners OFF	1									0
		Empty Receptacle	2	12197	2406	2406	1726	1500	651	425	1104	22414
		Room Cleaners OFF- Monitor Dust Cloud	1	45223	9962	10811	11462	12056	5660	3821	10669	109663
			2	195525	85692	135331	171272	186157	88805	54279	116624	1033686
			3	236333	96135	151094	192299	211175	100437	60675	136661	1184808
			4	131850	47431	73608	87673	102531	47827	28385	69278	588583
			5	93673	33507	52100	60562	64383	32290	19103	40780	396398
			6	87306	35573	51223	60760	67524	30621	19103	40101	392210
			7	74429	23348	32545	35828	37865	18593	11179	26517	260303
8	60138		20546	25696	31073	30677	14150	8094	18480	208854		
9	51223	16386	21791	22980	23885	11009	5915	14235	167423			
10	53940	16159	21423	22300	23093	10047	6594	13160	166715			
TSI 3330	2m	Room Cleaners on	0	4528	821	425	255	113	85	0	28	6254
		Room Cleaners OFF	1	8518	1868	1868	2151	1698	651	368	962	18084
		Empty Receptacle	2	11348	2547	3028	2972	3311	1613	566	2038	27423
		Room Cleaners OFF- Monitor Dust Cloud	1	11886	2575	3198	3028	3056	1274	962	2462	28442
			2	23348	8207	10414	14659	14122	8518	4839	9962	94069
			3	24395	10613	11292	16839	17489	8179	5519	8462	102786
			4	24678	8490	10386	12877	13216	6651	4330	7273	87900
			5	26857	8150	9452	14235	14348	6537	4302	7867	91749
			6	26913	11716	14320	20687	18735	8971	5632	9509	116483
			7	29630	12424	16244	24621	22753	10867	5717	9509	131765
8	35601		16159	19470	26149	27394	13414	7952	11207	157348		
9	35601	13952	17829	26489	26036	12197	6396	10443	148943			
10	37781	15112	19782	29121	27847	13471	7443	10245	160801			
HIAC 5230	4m	Room Cleaners on	0	14497	4231	2594	1752	1062	466	291	195	25088
		Room Cleaners OFF	1	21685	10399	7293	5460	3565	1803	1170	838	52213
		Empty Receptacle	2	29638	16900	12175	9682	6755	3369	2153	1526	82198
		Room Cleaners OFF- Monitor Dust Cloud	1	32755	17316	12120	9481	6460	3175	2000	1345	84652
			2	45989	27009	19570	15644	10799	5206	3062	1916	129195
			3	118373	85881	67050	55401	39258	17464	9052	4888	397367
			4	181946	140137	111902	93291	66306	28341	13783	6799	642505
			5	132258	94870	73549	60444	42493	18474	9458	4939	436485
			6	147171	105401	82045	67421	47059	19717	9603	4745	483162
			7	160522	116039	90705	74345	51341	21166	10042	4897	529057
8	159430		112811	87720	71727	49238	19953	9486	4473	514838		
9	167625	118944	92317	75199	51121	19962	9073	4180	538421			
10	167133	117471	90992	73797	49834	18982	8583	3946	530738			
HIAC 5250	6m	Room Cleaners on	0		2098	1369	829	343	137	88	43	4907
		Room Cleaners OFF	1		3168	2275	1635	962	490	316	180	9026
		Empty Receptacle	2		10899	8881	7100	4672	2499	1611	934	36596
		Room Cleaners OFF- Monitor Dust Cloud	1		13721	11266	9010	5960	3188	2020	1129	46294
			2		21146	17803	14585	10006	5462	3459	1959	74420
			3		27444	23351	19354	13214	6622	3835	2071	95891
			4		45548	39249	32929	22625	10830	5775	3045	160001
			5		60784	52886	44582	30469	13763	6889	3502	212875
			6		69423	60515	51223	34595	15183	7240	3581	241760
			7		80869	70440	59167	39557	16532	7501	3645	277711
8			87560	76214	63981	42498	17192	7628	3567	298640		
9		93694	81497	68538	45095	17804	7485	3480	317593			
10		95580	83195	69632	45732	17509	7327	3335	322310			

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

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Reviewed By

Performed By: CP

Data Location: CP

Susan H Goldsmith, Director

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKC

Test Date: 24th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: **Dyson DC52 Bagless Canister SN HH1-EU-FNA1937A**

TRIAL #1

Receptacle load: 100 g

Date Sample Received: 19th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL >0.3
				0.3-0.5	0.5-0.7	0.7-1	1-2	2-3	3-4	4-5	5-6	
TSI 3330	0.5m	Room Cleaners on	0	25640	3538	1557	1132	651	198	198	425	33337.4
		Empty Receptacle	1	26545	3538	1783	1924	1019	311	255	396	35771
		Room Cleaners OFF-Monitor Dust Cloud	2	21904	2632	1811	1557	594	311	198	226	29234
			3	61581	18197	12877	11971	7500	3736	2802	6311	124973
			4	60534	17574	12678	11462	7103	3594	2490	5660	121096
			5	51138	13697	11716	8971	5405	2462	1585	4160	99135
			6	51676	13584	10443	8490	5490	2009	1953	3821	97465
			7	53883	13895	10103	8971	5179	2207	1670	2915	98824
			8	52298	13556	10811	9226	5264	2490	1670	2802	98116
			9	58157	15650	11433	10075	5405	2264	1613	2151	106748
10	58043	13443	10980	9028	5151	1840	1472	2858	102814			
TSI 3330	2m	Room Cleaners on	0	37950	4783	2207	1783	1245	481	226	255	48931
		Empty Receptacle	1	19725	3198	1557	934	538	198	198	311	26659
		Room Cleaners OFF-Monitor Dust Cloud	2	37413	9424	6028	5632	3622	1528	1047	3962	68656
			3	51251	14320	11462	7669	5943	2292	1528	5179	99644
			4	52864	13244	11263	8179	5858	2462	1302	4896	100069
			5	50742	12905	9650	6537	4811	2009	1500	5122	93277
			6	54279	13584	11179	7188	4670	1924	1783	4302	98909
			7	52893	15282	10131	7132	5264	1783	1160	4188	97833
			8	55751	14801	10471	7273	4387	1840	1302	3396	99220
			9	54761	13216	10867	7386	5009	1698	1217	3821	97975
10	54506	12254	9028	6962	5207	2264	1670	5519	97409			
HIAC 5230	4m	Room Cleaners on	0	39803	5202	2200	1679	1354	378	163	491	51270
		Empty Receptacle	1	33886	4650	2087	1686	1424	425	219	569	44946
		Room Cleaners OFF-Monitor Dust Cloud	2	63232	18708	8361	8317	7990	3199	1869	3654	115330
			3	70747	20731	9534	9256	8579	3151	1799	3355	127152
			4	73023	20211	9546	8820	8129	2943	1701	2649	127022
			5	78790	21023	9420	8937	8191	2841	1611	2443	133256
			6	83702	20901	9491	9036	7979	2709	1472	2155	137445
7	82824	22698	9907	9734	10272	4184	2518	4243	146380			
HIAC 5250	6m	Room Cleaners on	0		24384	15664	16228	11320	3336	1572	432	72936
		Empty Receptacle	1		13972	8160	7268	3640	956	604	116	34716
		Room Cleaners OFF-Monitor Dust Cloud	2		13264	7328	6416	3956	1276	1076	220	33536
			3		11956	7424	7356	4936	1908	1320	384	35284
			4		35660	24828	28692	21800	9064	6224	2196	128464
			5		45992	32056	37520	27580	11244	7492	2740	164624
			6		48596	34032	39136	27596	11140	6832	2524	169856
7		53060	35848	40820	28540	10772	5928	2232	177200			

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKC

Test Date: 24th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: **Dyson DC52 Bagless Canister SN HH1-EU-FNA1937A**

TRIAL #2

Receptacle load: 100 g

Date Sample Received: 19th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL >0.3
				0.3-0.5	0.5-0.7	0.7-1	1-2	2-3	3-4	4-5	5-6	
TSI 3330	0.5m	Room Cleaners on	0	19499	3311	1840	1047	792	481	170	453	27593
		Room Cleaners OFF	1	25498	3905	2264	1783	1189	453	226	651	35969
			2	36167	5009	3028	1981	1868	368	509	1047	49978
		Empty Receptacle	1	53430	6622	3509	2462	1330	453	170	623	68599
			2	83485	14858	9764	6679	5858	3000	2236	7132	133010
		Room Cleaners OFF- Monitor Dust Cloud	3	164621	40611	37696	32121	25979	12226	9254	32404	354910
			4	168074	44573	38460	32885	28357	11858	8773	27451	360429
			5	144811	37894	34300	27083	20687	9962	6594	22102	303433
			6	115238	29772	25810	20885	15027	7330	4330	13810	232202
			7	119879	27876	22329	17603	12961	5660	3934	11094	221334
8	125482		25413	19923	16103	11207	4358	2745	7669	212901		
9	108417		23942	19867	15282	10414	5236	2915	6962	193034		
10	110370		23319	20546	14376	9650	4471	2575	6254	191563		
TSI 3330	2m	Room Cleaners on	0	23008	3622	1981	1245	962	594	255	340	32007
		Room Cleaners OFF	1	26093	3283	2321	1528	1330	538	396	425	35913
			2	27677	4273	2434	1641	1245	425	340	425	38460
		Empty Receptacle	1	28442	4132	2462	1641	1189	708	198	594	39365
			2	33705	4783	3170	2575	1896	679	396	1245	48450
		Room Cleaners OFF- Monitor Dust Cloud	3	73014	20235	16867	15622	11546	5462	4302	9565	156612
			4	98824	27140	24140	22583	16839	8575	5688	10613	214401
			5	98795	28696	23914	24168	16669	9028	6311	11179	218759
			6	82013	22187	17546	16556	12707	6452	3962	7471	168894
			7	123530	34441	29687	27111	18112	8575	5802	8830	256087
8	106889		27225	22527	19527	14009	7217	3736	6707	207835		
9	111870		25979	21508	17801	12424	5519	3651	5688	204439		
10	111361		27932	20093	18565	11858	4613	3141	4641	202204		
HIAC 5230	4m	Room Cleaners on	0	24561	4046	1784	1428	1262	468	222	319	34090
		Room Cleaners OFF	1	37093	5269	2180	1837	1647	546	241	628	49441
			2	38939	5644	2294	1900	1842	590	281	643	52133
		Empty Receptacle	1	55052	12535	5307	5328	5728	2276	1266	2439	89931
			2	71894	19818	8945	9027	10116	3936	2341	3840	129917
		Room Cleaners OFF- Monitor Dust Cloud	3	85767	24728	11208	11691	12508	4887	2831	3909	157529
			4	missed								
			5	105996	27791	13191	12993	13343	4918	2682	3505	184419
6	116910		32007	15545	15314	15707	5752	3004	2692	206931		
7	122673	32045	15391	15172	15338	15427	2719	3150	221915			
8	133206	32818	15956	15740	15188	5197	2564	2765	223434			
HIAC 5250	6m	Room Cleaners on	0		missed							
		Room Cleaners OFF	1		15728	9412	8792	5744	2128	1484	404	43692
			2		16844	10428	9360	5960	2364	1532	352	46840
		Empty Receptacle	1		22760	14400	14468	10504	4040	3216	876	70264
			2		30576	20776	21576	16752	7528	4832	1604	103644
		Room Cleaners OFF- Monitor Dust Cloud	3		40860	27704	32052	26356	11584	6648	2264	147468
			4		53980	37356	44448	36468	15584	8304	3052	199192
			5		65516	47996	54532	43528	17976	9284	3184	242016
6			73428	51740	62708	50532	19984	9864	3836	272092		
7		79484	56552	67116	53028	20348	9352	3432	289312			
8		81920	58636	68568	53232	19568	9100	3444	294468			

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

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Reviewed By

Susan H Goldsmith, Director

Performed By: CP

Data Location: CP

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKD

Test Date: 25th March 2015

Contact:

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: **Bosch Relaxx'x Prosilence E Nr BGS5ALL1/02 FD 9408**

TRIAL #1

Receptacle load: 200 g

Date Sample Received: 19th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL >0.3
				0.3-0.5	0.5-0.7	0.7-1	1-2	2-3	3-4	4-5	5-6	
TSI 3330	0.5m	Room Cleaners on	0	27649	1955	793	340	85	85	28	113	31048
		Room Cleaners OFF	1	87167	5411	2465	765	510	57	170	255	96799
			2	118895	8470	2975	1388	510	198	85	227	132748
		Empty Receptacle	1	66062	5241	2181	1473	850	567	312	623	77309
			2	105722	34759	43088	53711	56374	27932	18272	55609	395467
		Room Cleaners OFF-Monitor Dust Cloud	3	114193	17677	21615	25184	26374	12493	8924	29037	255496
			4	122238	29093	39972	43994	44986	21275	13201	39462	354221
			5	115836	33796	46034	55949	53513	25071	16969	44986	392153
			6	122068	31615	44504	52805	53881	25354	15439	38725	384391
			7	135921	32380	41246	49207	47422	23173	13456	37620	380425
8	111303		25127	32210	38017	36629	16062	11615	27365	298329		
9	225382		31530	34674	40850	37365	16997	9660	24618	421076		
10	257705		32380	32946	34986	32578	13768	9008	21955	435326		
TSI 3330	2m	Room Cleaners on	0	22890	1756	680	255	113	57	0	0	25751
		Room Cleaners OFF	1	24731	1898	935	482	227	283	57	170	28782
			2	25014	2351	963	1020	482	255	142	255	30482
		Empty Receptacle	1	37280	2890	1360	1473	992	340	113	255	44703
			2	53428	5042	3484	3513	2635	1445	623	1586	71756
		Room Cleaners OFF-Monitor Dust Cloud	3	53881	5269	3201	3059	2068	1105	850	1303	70737
			4	51530	5042	3569	4164	3456	1926	1275	1983	72946
			5	55297	9037	8470	12040	11076	5411	2861	5467	109660
			6	68725	16232	22068	29575	26856	13824	9717	14108	201105
			7	72295	13541	15382	19320	17167	8895	5609	9688	161898
8	86629		19688	25042	34589	31671	14731	8980	13428	234759		
9	103909		25071	31955	41416	38612	20113	12068	17989	291133		
10	118810		22181	23853	32946	30085	14108	8414	12918	263314		
HIAC 5230	4m	Room Cleaners on	0	40424	4382	1912	1080	633	287	188	130	49036
		Room Cleaners OFF	1	51803	12482	7648	5644	3733	1828	1142	767	85047
			2	53159	8259	4294	2857	1703	772	486	331	71861
		Empty Receptacle	1	63088	12507	7171	5060	3162	1408	870	604	93870
			2	85369	16529	9192	6690	4544	2477	1688	1210	127699
		Room Cleaners OFF-Monitor Dust Cloud	3	106106	35052	22834	17883	12357	6169	3688	2395	206484
			4	143872	52863	35556	28069	19425	9122	5201	2979	297087
			5	219773	131191	97587	79239	54863	24834	13033	6925	627445
			6	225183	125697	92441	74723	51514	22731	11945	6283	610517
			7	235401	111126	78930	63239	43526	19253	10023	5372	566870
8	273057		138300	100410	80208	54504	22691	11232	5576	685978		
9	276744		142262	103322	82549	55558	22773	10926	5320	699454		
10	275277		139781	101732	80996	54084	21494	10246	4890	688500		
HIAC 5250	6m	Room Cleaners on	0		4405	2044	898	261	57	25	17	7707
		Room Cleaners OFF	1		4802	2429	1268	556	241	149	84	9529
			2		9592	5275	3047	1483	678	429	213	20717
		Empty Receptacle	1		13792	8102	5170	3013	1647	1120	637	33481
			2		16024	10247	7111	4507	2647	1799	1006	43341
		Room Cleaners OFF-Monitor Dust Cloud	3		19809	13443	9771	6214	3370	2134	1196	55937
			4		46036	36087	28578	18891	9341	5184	2829	146946
			5		70143	57393	46907	31719	15648	8464	4458	234732
			6		80847	66038	53807	35599	16392	8301	4248	265232
			7		90984	74022	59847	39132	17415	8494	4221	294115
8			97850	79274	63621	40547	17096	8072	3960	310420		
9			101081	82722	66631	42524	17360	7904	3810	322032		
10			103149	84562	68282	43357	17314	7709	3582	327955		

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKD

Test Date: 25th March 2015

Contact:

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: **Bosch Relaxx'x Prosilence E Nr BGS5ALL1/02 FD 9408**

TRIAL #2

Receptacle load: 200 g

Date Sample Received: 19th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)								TOTAL
				0.3-0.5	0.5-0.7	0.7-1	1-2	2-3	3-4	4-5	5-6	
TSI 3330	0.5m	Room Cleaners on	0	18867	1728	538	595	283	85	57	227	22380
		Room Cleaners OFF	1	18867	1671	765	538	538	113	57	397	22946
			2	15496	1671	1161	765	425	283	198	567	20567
		Empty Receptacle	1	18017	2153	1530	1331	935	510	227	1105	25807
			2	116686	69405	95807	108045	97195	40935	24391	69037	621501
		Room Cleaners OFF-Monitor Dust Cloud	3	53173	18584	22861	28442	23286	11445	7280	21785	186856
			4	77479	28244	35382	38130	35212	15099	8499	24618	262663
			5	98074	28867	36402	40000	34533	14108	9405	25297	286686
			6	70198	26516	33768	38130	34249	13938	8754	19943	245496
			7	60765	23881	26912	30680	28980	10850	6997	15071	204136
8	68867		27734	32635	37167	32691	14221	7195	19122	239632		
9	62380		21785	28215	32125	27252	10623	6147	14589	203116		
10	64533		20227	27252	28329	25042	11643	5127	14731	196884		
TSI 3330	2m	Room Cleaners on	0	18187	1615	765	482	85	85	0	113	21331
		Room Cleaners OFF	1	19292	1756	1076	538	453	255	368	425	24164
			2	20510	2521	1445	1105	680	340	425	510	27535
		Empty Receptacle	1	20567	2068	1445	1218	793	227	312	510	27139
			2	26544	7252	7139	9490	8244	4561	3116	6346	72691
		Room Cleaners OFF-Monitor Dust Cloud	3	35241	11841	12918	17167	12833	6204	3626	5099	104929
			4	39773	13683	15779	20368	18159	7620	4306	8555	128244
			5	51190	21388	22861	32918	26204	12266	7705	11870	186402
			6	61501	27195	36289	49943	40283	17564	10028	14759	257564
			7	60057	24108	32153	41898	33824	14901	10000	14136	231076
8	61785		27139	34703	45892	37819	16062	9490	13144	246034		
9	56459		20312	26799	34589	27479	12295	7649	10397	195977		
10	57960		22578	25722	33173	25864	11275	6459	9008	192040		
HIAC 5230	4m	Room Cleaners on	0	39016	8915	5520	4388	3323	2077	1463	1046	65748
		Room Cleaners OFF	1	42667	12132	7644	5976	4177	2375	1639	1217	77827
			2	43263	10300	6082	4483	2973	1523	980	714	70318
		Empty Receptacle	1	55829	15626	9820	7370	5052	2584	1713	1219	99213
			2	113044	61420	44455	35441	24086	10924	6138	3687	299195
		Room Cleaners OFF-Monitor Dust Cloud	3	245416	174457	133327	107178	72637	30888	15852	8332	788087
			4	245184	170417	129263	103615	69123	28828	14530	7435	768395
			5	248517	166899	126213	100607	67042	27469	13705	6952	757404
			6	240738	159916	120525	95832	63446	25684	12875	6647	725663
			7	251695	164499	123215	97543	64081	25385	12286	6058	744762
8	253049		160334	119592	94002	61300	23895	11595	5771	729538		
9	253590		155062	114844	90196	58250	22424	10724	5111	710201		
10	255292		153606	113748	88685	56693	21115	9793	4612	703544		
HIAC 5250	6m	Room Cleaners on	0		4323	2411	1379	647	289	179	96	9324
		Room Cleaners OFF	1		5113	3143	2072	1241	648	402	216	12835
			2		7734	5308	3773	2338	1270	816	466	21705
		Empty Receptacle	1		10845	7581	5547	3467	1840	1209	667	31156
			2		21013	16053	12556	8411	4437	2781	1492	66743
		Room Cleaners OFF-Monitor Dust Cloud	3		54419	44513	35945	23365	10822	5749	2994	177807
			4		90588	76346	62552	40511	18283	9354	4818	302452
			5		103104	86701	70549	44669	18873	9162	4535	337593
			6		113136	95473	77727	49257	20693	9720	4847	370853
			7		118914	99992	80837	50584	20623	9504	4597	385051
8			120877	101612	82040	50784	20209	9097	4249	388868		
9			120532	100341	80586	49557	19406	8485	3969	382876		
10			121585	101039	80694	48756	18308	7714	3541	381637		

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TEST REPORT

Performed for: Miele

Location: Bielefeld Germany

IBR JN: 15027MKD

Test Date: 25th March 2015

Contact: D Becker

Test Method: Room Air Counts During Vacuum Cleaner Receptacle Emptying- Apartment Environment

Description of Sample: **Bosch Relaxx'x Prosilence E Nr BGS5ALL1/02 FD 9408**

TRIAL #3

Receptacle load: 200 g

Date Sample Received: 19th March 2015

Source: Miele

Instrument	Distance from Bin	Test Condition	Count Time Minutes	Particles / ft3 at: (in microns)							TOTAL >0.3	
				0.3-0.5	0.5-0.7	0.7-1	1-2	2-3	3-4	4-5		5-6
TSI 3330	0.5m	Room Cleaners on	0	3056	623	283	255	142	57	0	57	4471
		Room Cleaners OFF	1	4075	453	509	255	283	142	57	198	5971
			2	8999	1189	1245	906	877	226	226	453	14122
		Empty Receptacle	1	14433	2094	1811	1868	1443	538	453	1302	23942
		Room Cleaners OFF-Monitor Dust Cloud	2	132529	28979	39931	45931	41063	18961	12961	41318	361674
			3	204383	69222	98852	110370	106238	50883	30819	82353	753120
			4	73806	25046	37752	39563	37243	17065	10386	26432	267294
			5	136859	53629	73439	85409	85325	38630	25102	63109	561500
			6	123784	58836	87730	98824	88041	39677	23942	50544	571377
			7	108983	47686	69080	79353	74995	32602	20744	44912	478355
8	90900		43214	60477	65967	64666	27876	16839	37328	407265		
9	86343	39903	60449	66194	63986	26885	15650	36960	396370			
10	79608	36394	52610	59543	56911	22980	14659	32064	354769			
TSI 3330	2m	Room Cleaners on	0	4047	538	340	170	85	28	0	28	5236
		Room Cleaners OFF	1	6141	1132	821	849	736	425	198	708	11009
			2	6169	1245	962	991	708	425	311	679	11490
		Empty Receptacle	1	7330	1783	1443	1585	1160	594	425	1104	15424
		Room Cleaners OFF-Monitor Dust Cloud	2	15254	4556	5575	7811	7500	3594	2236	5603	52129
			3	18338	6056	8349	11829	10188	5349	2717	6056	68882
			4	23829	9735	11716	16046	13046	6452	4188	8688	93701
			5	32036	13980	17206	23178	19074	9424	6311	10499	131708
			6	34724	14688	20036	27564	23121	10924	7160	12028	150245
			7	38686	17914	21423	27111	24112	12877	7443	11886	161452
8	42139		18876	27508	35375	33054	14433	8745	14376	194506		
9	47006	22980	31017	41799	37469	16471	10216	15961	222919			
10	46752	21508	31328	40328	34951	16980	10358	15254	217457			
HIAC 5230	4m	Room Cleaners on	0	8722	1821	966	592	294	118	66	39	12618
		Room Cleaners OFF	1	20941	11498	8430	6941	4942	2614	1697	1176	58239
			2	22700	12751	9144	7321	5170	2719	1721	1251	62777
		Empty Receptacle	1	32066	18672	13689	11137	7913	3916	2451	1640	91484
		Room Cleaners OFF-Monitor Dust Cloud	2	55392	36465	27447	22251	15642	7437	4414	2771	171819
			3	173708	131388	102310	83562	58097	26456	14201	7683	597405
			4	229783	177388	138621	112670	77200	32631	16089	8152	792534
			5	212843	161918	126159	102191	69374	29182	14819	7652	724138
			6	247413	189873	148044	119325	80492	32853	16135	8130	842265
			7	252642	192187	150055	120938	81490	32945	15979	7905	854141
8	246686		186788	145224	116816	78019	31490	15058	7202	827283		
9	248775	187343	145816	117105	78174	30616	14241	6702	828772			
10	245093	182553	141543	113532	75230	29075	13586	6370	806982			
HIAC 5250	6m	Room Cleaners on	0		1325	843	517	254	96	48	25	3108
		Room Cleaners OFF	1		2223	1600	1150	708	378	250	147	6456
			2		8704	7231	5964	4058	2123	1320	749	30149
		Empty Receptacle	1		9241	7526	6072	4032	2037	1271	716	30895
		Room Cleaners OFF-Monitor Dust Cloud	2		26863	23212	19471	13321	6640	3874	2086	95467
			3		46398	40174	33659	22944	11002	6122	3207	163506
			4		92377	80699	67776	45642	21352	10823	5458	324127
			5		118932	104064	87782	58810	26648	13145	6545	415926
			6		140049	122810	103191	68630	30111	14090	6913	485794
			7		147370	128449	107612	70816	30038	13690	6643	504618
8			146541	127749	106327	68707	28342	12767	6043	496476		
9		143183	124477	103571	66503	27142	12055	5637	482568			
10		143131	124017	102308	64862	25359	10844	4946	475467			

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Reviewed By

Performed By: CP

Data Location: CP

Susan H Goldsmith, Director