

## Frequent Hemodialysis Network KINETIC MODELING FORM - FORM #273

**Instructions:** This form is to be completed by the study coordinator and the dialysis unit technician on the FHN Trial kinetic modeling day sessions that occur during baseline, and monthly during follow-up. Kinetic modeling should not be performed at sessions with isolated ultrafiltration. However, kinetic modeling should be performed at a session designated for collection of kinetic modeling irrespective of any interruption time. A Form 274 must be completed with each kinetic modeling session to document information from the dialysis run sheet during the week preceding the kinetic modeling session. In nocturnal protocol version 3.0, two kinetic modeling sessions must be completed during baseline.

1. Participant ID #				2. Alpha Code		3a. Visit Type	3b. Visit Number		4. Date of Kinetic Modeling: dd/mon/yyyy							

Questions 5–16 refer to specific dialysis treatment at which kinetic modeling is performed.

- 5. a. Type of session.....  
 1=Routine KM (in window), 2=Make up for missed routine (in next window), 3=Repeat
- b. Where was the dialysis conducted? (1=In-center dialysis unit, 2=At home).....
- 6. Dialysis membrane type (from code list at end of document) ..... \_ \_ \_
- 7. Reuse number (enter 0 if this is the first use of the dialyzer) ..... \_ \_ \_

**Weight**

- 8. a. Patient target weight (estimated dry weight) (kg)..... \_ \_ . \_
- b. Pre-dialysis weight (kg) ..... \_ \_ . \_
- c. Post-dialysis weight (kg)..... \_ \_ . \_

**Access**

- 9. a. Current type of vascular access.....  
 1=AV graft – forearm      4=AV fistula – upper arm      7=Using 2 accesses  
 2=AV graft - upper arm      5=Catheter  
 3=AV fistula – forearm      6=Femoral
- b. Has there been a surgical or radiological intervention to improve access function or a change in the type of access since the previous kinetic modeling session? .....  
 0=No (no access intervention or change)  
 2=Yes to either of the two options below:  
     a) a surgical or radiological access intervention  
     b) an access failure (access removed or can no longer be used)

*[If the answer to Q9b is “2”, please answer questions 9b1-9b2 below. Otherwise skip to Q9c if on Nocturnal Trial.]*

- b1. Has there been a surgical or radiological intervention to improve access function since the previous kinetic modeling session? .....  
 0=No (no access intervention)  
 1=Yes (complete F276 for each instance)

- 9. b2. Did the access fail (access removed or can no longer be used) since the previous kinetic modeling session? .....  
 0=No (no access failure)  
 1=Yes (complete F277 for each instance)

*(Note: if a new access was placed since the last KM session, complete F278. And if a different access is being used for HD, be sure to complete F271.)*

- 9. c. For Nocturnal Trial Only: Was a buttonhole access used? (0=No, 1=Yes) .....

- 10. What kind of needle was used for this patient's hemodialysis?.....  
 (1=Single-needle, 2=Double-needle, 8=NA, pt. is using catheter)

- 11. Prescribed treatment time (minutes) for this session: .....

- 12. a. Start time of dialysis treatment (24-hour time):..... : ..

- b. End time of dialysis treatment (24-hour time):..... : ..

*Enter the start and end time to reflect actual dialysis (in which the blood pump is on), and do not count the time period with isolated ultrafiltration.*

- 13. Was there a serious interruption during this session? (0=No, 1=Yes).....  
*(Serious interruption defined as interruption of > 15 min for in-center treatments, and > 30 min for nocturnal dialysis)*

- 14. Machine readout of actual dialysis treatment time (minutes) .....

- 15. Average blood flow achieved during session (ml/min) .....
- Provide average blood flow during session if provided by dialysis machine. Otherwise, provide blood flow 30 minutes after start of dialysis.*

- 16. Recorded dialysate flow (ml/min) .....

**Complications:**

- 17. Complications experienced in the current dialysis treatment - use the following codes:

0=No

1=Yes, but not requiring saline, lowering of UF rate, or reduced blood flow

2=Yes, requiring either saline, lowering of UF rate, or reduced blood flow  
 (nocturnal: need to give back saline at the end of dialysis due to hypotension or symptoms)

- a. Cramping?.....

- b. Nausea or vomiting? .....

- c. Chest pain?.....

**Blood Pressures:**

- 18. a. Pre-dialysis blood pressure (mmHg) (systolic/diastolic)..... / ..

- b. Post-dialysis blood pressure (mmHg) (systolic/diastolic) .....

**Dialysate:**

19. Based on the dialysis run sheet, indicate the concentrations of the following substances in the **dialysate**:

*Separate items for initial and final sodium in the dialysate are provided in case these are modified during dialysis. If these concentrations are not modified, leave the final concentrations blank. Only single concentrations for magnesium, calcium, and bicarbonate are presumed. If one of these did happen to be modified during dialysis, please enter the initial concentration.*

- a. Initial Sodium (mEq/L) ..... \_\_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_\_
- b. Final Sodium (mEq/L) ..... \_\_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_\_
- c. Initial Potassium (mEq/L) ..... \_\_\_\_ . \_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_ . \_\_\_\_
- d. Magnesium (mEq/L) ..... \_\_\_\_ . \_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_ . \_\_\_\_
- e. Calcium (mEq/L) ..... \_\_\_\_ . \_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_ . \_\_\_\_
- f. Bicarbonate (mEq/L) ..... \_\_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_\_
- g. Nocturnal Trial Only: Phosphorus (mg/dL) ..... \_\_\_\_ . \_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_ . \_\_\_\_

**Patient's Lab Measurements**

- 20. a. Pre-dialysis BUN (mg/dL) (*put "0" in decimal field, if not available*) ..... \_\_\_\_ \_\_\_\_ . \_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_\_
- b. Post-dialysis BUN (mg/dL) (*put "0" in decimal field, if not available*) ..... \_\_\_\_ \_\_\_\_ . \_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_\_
- c. Pre-dialysis serum creatinine (mg/dL) ..... \_\_\_\_ . \_\_\_\_  
or in SI units (µmol/L) ..... \_\_\_\_\_
- d. Post-dialysis serum creatinine (mg/dL) ..... \_\_\_\_ . \_\_\_\_  
or in SI units (µmol/L) ..... \_\_\_\_\_
- e. Pre-dialysis serum phosphate (mg/dL) ..... \_\_\_\_ \_\_\_\_ . \_\_\_\_  
or in SI units (mmol/L) ..... \_\_\_\_ . \_\_\_\_

**Patient's Lab Measurements continued:**

f. Post-dialysis serum phosphate (mg/dL)..... \_ \_ . \_ \_  
or in SI units (mmol/L) ..... \_ . \_ \_

Note: The date pre-samples are drawn is the date of the kinetic modeling session (see Q4). Enter the date the post-samples are drawn below in Q20h.

h. Date post-dialysis samples drawn (dd/mon/yyyy) ..... \_ \_ / \_ \_ \_ / \_ \_ \_ \_

21. a. Monthly serum albumin (g/dL)..... \_ \_ . \_ \_  
or in SI units (g/L) ..... \_ \_ \_ \_

b. Date monthly serum albumin drawn (dd/mon/yyyy) ..... \_ \_ / \_ \_ \_ / \_ \_ \_ \_

**Nocturnal Trial Only:**

**The study coordinator should obtain the response to this question from the patient as close as possible to the day of this kinetic modeling session. (It is recommended that patients be asked to write this down on a log sheet.)**

*Patient response to the question "When you drew your blood just before this kinetic modeling session, what was the date and time of your last medium or large meal?"*

22. a. Date when closest medium/large meal eaten (not including snacks) **just before** this dialysis session (dd/mon/yyyy) ..... \_ \_ / \_ \_ \_ / \_ \_ \_ \_

b. Time of day when meal eaten (use 24-hour clock):..... \_ \_ : \_ \_

c. Did patient eat a medium/large meal **during** this dialysis session? (0=No, 1=Yes) .....

**Note: If you or the patient is not sure whether food eaten was a meal or a snack or whether the meal was small, medium, or large, ask your center's Principal Investigator to decide.**

200. Date this form completed (dd/mon/yyyy)..... \_ \_ / \_ \_ \_ / \_ \_ \_ \_

201. Username of person reviewing completeness of this form..... \_ \_ \_ \_ \_

**For Center Use Only:**

202. Username of person entering this form: \_ \_ \_ \_ \_

203. Date entered: (dd/mon/yyyy) \_ \_ / \_ \_ \_ / \_ \_ \_ \_

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**Use the four-digit codes numbers on the following pages to answer Question #6. The list is in order by dialyzer membrane name, then model.**

CODE	BRAND	MODEL
1001	Allmed	Opal 110 S
1002	Allmed	Opal 130 S
1003	Allmed	Opal 160 S
1004	Allmed	Opal 180 S
1005	Allmed	Opal 200 S
1006	Allmed	Opal 220 S
1007	Allmed	Quartz 100 S
1008	Allmed	Quartz 130 S
1009	Allmed	Quartz 160 S
1010	Allmed	Quartz 180 S
1011	Allmed	Ruby 130 S
1012	Allmed	Ruby 160 S
1013	Allmed	Ruby 180 S
1014	Allmed	Topaz 100 S
1015	Allmed	Topaz 130 S
1016	Allmed	Topaz 160 S
1017	Allmed	Topaz 180 S
1101	Asahi	AM 500H SD
1102	Asahi	AM 50H SD
1103	Asahi	AM 650H SD
1104	Asahi	AM 65H SD
1105	Asahi	AM 750U SD
1106	Asahi	AM 75U SD
1107	Asahi	AM BIO 100
1108	Asahi	AM BIO 1000
1109	Asahi	AM BIO 1000 WET
1110	Asahi	AM BIO 50
1111	Asahi	AM BIO 500 WET
1112	Asahi	AM BIO 65
1113	Asahi	AM BIO 650
1114	Asahi	AM BIO 650 WET
1115	Asahi	AM BIO 75
1116	Asahi	AM BIO 750
1117	Asahi	AM BIO 750 WET
1118	Asahi	AM BIO HX 1000
1119	Asahi	AM BIO HX 650
1120	Asahi	AM BIO HX 750
1121	Asahi	AM BIO UP 650
1122	Asahi	AM BIO UP 750
1123	Asahi	AM SD 1000 U
1124	Asahi	AM SD 300
1125	Asahi	AM SD 400 M
1126	Asahi	AM SD 400 U
1127	Asahi	AM SD 500 H
1128	Asahi	AM SD 500 M
1129	Asahi	AM SD 500 U
1130	Asahi	AM SD 650 H
1131	Asahi	AM SD 650 U
1132	Asahi	AM SD 750 U
1133	Asahi	AM UP 75 WET
1134	Asahi	AMR 50U
1135	Asahi	AMR 65U
CODE	BRAND	MODEL

1136	Asahi	AMR 75U
1137	Asahi	AMR 90U
1138	Asahi	APS 1050
1139	Asahi	APS 1050 MD
1140	Asahi	APS 1050S
1141	Asahi	APS 13 U
1142	Asahi	APS 15 U
1143	Asahi	APS 18 U
1144	Asahi	APS 21 U
1145	Asahi	APS 550
1146	Asahi	APS 550S
1147	Asahi	APS 650
1148	Asahi	APS 650 MD
1149	Asahi	APS 650S
1150	Asahi	APS 900
1151	Asahi	APS 900 MD
1152	Asahi	APS 900S
1153	Asahi	PAN 03
1154	Asahi	PAN 06
1155	Asahi	PAN 10
1156	Asahi	PAN 1000 SF
1157	Asahi	PAN 110 DX
1158	Asahi	PAN 65 DX
1159	Asahi	PAN 650 SF
1160	Asahi	PAN 85 DX
1161	Asahi	PAN 900 SF
1162	Asahi	PAN HFD 30
1163	Asahi	REXEED-25
1164	Asahi	REXEED-18R
1201	B. Braun Medtech	Diacap CE 1100
1202	B. Braun Medtech	Diacap CE 1400
1203	B. Braun Medtech	Diacap CE 1600
1204	B. Braun Medtech	Diacap CE 2000
1205	B. Braun Medtech	Diacap HE 1200
1206	B. Braun Medtech	Diacap HE 1200 G
1207	B. Braun Medtech	Diacap HE 1400
1208	B. Braun Medtech	Diacap HE 1400 G
1209	B. Braun Medtech	Diacap HE 1700
1210	B. Braun Medtech	Diacap HE 1700 G
1211	B. Braun Medtech	Diacap HI PS 10
1212	B. Braun Medtech	Diacap HI PS 12
1213	B. Braun Medtech	Diacap HI PS 15
1214	B. Braun Medtech	Diacap HI PS 18
1215	B. Braun Medtech	Diacap HI PS 20
1216	B. Braun Medtech	Diacap HI PS 8
1217	B. Braun Medtech	Diacap LO PS 10
1218	B. Braun Medtech	Diacap LO PS 12
1219	B. Braun Medtech	Diacap LO PS 15
1220	B. Braun Medtech	Diacap LO PS 18
1221	B. Braun Medtech	Diacap LO PS 20
1222	B. Braun Medtech	Diacap SMC 1.0
1223	B. Braun Medtech	Diacap SMC 1.0 SD
1224	B. Braun Medtech	Diacap SMC 1.2
1225	B. Braun Medtech	Diacap SMC 1.2 SD

CODE	BRAND	MODEL
1226	B. Braun Medtech	Diacap SMC 1.5
1227	B. Braun Medtech	Diacap SMC 1.5 SD
1228	B. Braun Medtech	Diacap SMC 1.8
1229	B. Braun Medtech	Diacap SMC 1.8 SD
1301	Baxter	CA 110 G
1302	Baxter	CA 130 G
1303	Baxter	CA 150 G
1304	Baxter	CA 170 G
1305	Baxter	CA 210 G
1306	Baxter	CA 50 G
1307	Baxter	CA 70 G
1308	Baxter	CA 90 G
1309	Baxter	CA-HP 110
1310	Baxter	CA-HP 130
1311	Baxter	CA-HP 150
1312	Baxter	CA-HP 170
1313	Baxter	CA-HP 210
1314	Baxter	CA-HP 90
1315	Baxter	CT 110 G
1316	Baxter	CT 150 G
1317	Baxter	CT 190 G
1318	Baxter	CT 90 G
1319	Baxter	Dicea 110 G
1320	Baxter	Dicea 130 G
1321	Baxter	Dicea 150 G
1322	Baxter	Dicea 170 G
1323	Baxter	Dicea 210 G
1324	Baxter	Dicea 90 G
1325	Baxter	Exeltra 150
1326	Baxter	Exeltra 170
1327	Baxter	Exeltra 190
1328	Baxter	Exeltra Plus 210
1329	Baxter	PSN 120
1330	Baxter	PSN 140
1331	Baxter	PSN 150
1332	Baxter	PSN 170
1333	Baxter	PSN 210
1334	Baxter	Syntra 120
1335	Baxter	Syntra 160
1336	Baxter	Tricea 110 G
1337	Baxter	Tricea 130 G
1338	Baxter	Tricea 150 G
1339	Baxter	Tricea 170 G
1340	Baxter	Tricea 190 G
1341	Baxter	Tricea 210 G
1342	Baxter	Xenium 170
1401	Bellco	BLS 512 G
1402	Bellco	BLS 512 SD
1403	Bellco	BLS 514 G
1404	Bellco	BLS 514 SD
1405	Bellco	BLS 517 G
CODE	BRAND	MODEL

1406	Bellco	BLS 517 SD
1407	Bellco	BLS 714 G
1408	Bellco	BLS 714 SD
1409	Bellco	BLS 716 G
1410	Bellco	BLS 716 SD
1411	Bellco	BLS 719 G
1412	Bellco	BLS 719 SD
1413	Bellco	BLS 803
1414	Bellco	BLS 805
1415	Bellco	BLS 807
1416	Bellco	BLS 809
1417	Bellco	BLS 812 G
1418	Bellco	BLS 812 SD
1419	Bellco	BLS 814 G
1420	Bellco	BLS 814 SD
1421	Bellco	BLS 816 G
1422	Bellco	BLS 816 SD
1423	Bellco	BLS 819 G
1424	Bellco	BLS 819 SD
1425	Bellco	NC 1285
1426	Bellco	NC 1285 G
1427	Bellco	NC 1285 SD
1428	Bellco	NC 1485
1429	Bellco	NC 1485 G
1430	Bellco	NC 1485 SD
1431	Bellco	NC 1785
1432	Bellco	NC 1785 G
1433	Bellco	NC 1785 SD
1434	Bellco	NC 2085
1435	Bellco	NC 2085 G
1436	Bellco	NC 2085 SD
1437	Bellco	NC 2285 G
1438	Bellco	NT 1175
1439	Bellco	NT 1208 H
1440	Bellco	NT 1208 HG
1441	Bellco	NT 1208 SD
1442	Bellco	NT 1265 H
1443	Bellco	NT 1265 HG
1444	Bellco	NT 1375
1445	Bellco	NT 1408 H
1446	Bellco	NT 1408 HG
1447	Bellco	NT 1408 SD
1448	Bellco	NT 1665 H
1449	Bellco	NT 1665 HG
1450	Bellco	NT 1675
1451	Bellco	NT 1808 H
1452	Bellco	NT 1808 HG
1453	Bellco	NT 1808 SD
1454	Bellco	NT 1975
1455	Bellco	SG 30 Plus
1456	Bellco	SG 40 Plus
1457	Bellco	SG 8 Plus
CODE	BRAND	MODEL
1501	Even	EBM 100
1502	Even	EBM 120

1503	Even	EBM 140
1504	Even	EBM 160
1505	Even	EBM 180
1506	Even	EBM 200
1507	Even	EC 100
1508	Even	EC 120
1509	Even	EC 140
1510	Even	EC 160
1511	Even	EC 190
1512	Even	EC 210
1513	Even	EC 260
1514	Even	EH 100
1515	Even	EH 120
1516	Even	EH 140
1517	Even	EH 160
1518	Even	EH 190
1519	Even	EH 210
1520	Even	EH 260

1601	Fidia	Diadema 110 HF
1602	Fidia	Diadema 110 LF
1603	Fidia	Diadema 110 MF
1604	Fidia	Diadema 130 HF
1605	Fidia	Diadema 130 LF
1606	Fidia	Diadema 130 MF
1607	Fidia	Diadema 150 HF
1608	Fidia	Diadema 150 LF
1609	Fidia	Diadema 150 MF
1610	Fidia	Diadema 170 HF
1611	Fidia	Diadema 170 LF
1612	Fidia	Diadema 170 MF
1613	Fidia	Diadema 190 HF
1614	Fidia	Diadema 190 LF
1615	Fidia	Diadema 190 MF
1616	Fidia	Diadema 210 HF
1617	Fidia	Diadema 210 LF
1618	Fidia	Diadema 210 MF
1619	Fidia	Even 110 H
1620	Fidia	Even 130 H
1621	Fidia	Even 150 H
1622	Fidia	Even 180 H
1623	Fidia	Even 200 H
1624	Fidia	Syntex 110 S
1625	Fidia	Syntex 130 S
1626	Fidia	Syntex 150 S
1627	Fidia	Syntex 170 S
1628	Fidia	Syntex 190 S
1629	Fidia	Syntex 210 S

CODE	BRAND	MODEL
1701	Fresenius	E 1
1702	Fresenius	E 1 S
1703	Fresenius	E 2

1704	Fresenius	E 2 DS
1705	Fresenius	E 2 S
1706	Fresenius	E 3
1707	Fresenius	E 3 DS
1708	Fresenius	E 3 S
1709	Fresenius	E 4
1710	Fresenius	E 4 DS
1711	Fresenius	E 4 S
1712	Fresenius	F 10 HPS
1713	Fresenius	F 3
1714	Fresenius	F 4
1715	Fresenius	F 4 HPS
1716	Fresenius	F 40
1717	Fresenius	F 40 S
1718	Fresenius	F 5
1719	Fresenius	F 5 HPS
1720	Fresenius	F 50
1721	Fresenius	F 50 S
1722	Fresenius	F 6
1723	Fresenius	F 6 HPS
1724	Fresenius	F 60
1725	Fresenius	F 60 Light
1726	Fresenius	F 60 S
1727	Fresenius	F 7
1728	Fresenius	F 7 HPS
1729	Fresenius	F 70 S
1730	Fresenius	F 8
1731	Fresenius	F 8 HPS
1732	Fresenius	FX 10
1733	Fresenius	FX 100
1734	Fresenius	FX 40
1735	Fresenius	FX 50
1736	Fresenius	FX 60
1737	Fresenius	FX 60 M
1738	Fresenius	FX 8
1739	Fresenius	FX 80
1740	Fresenius	FX 80 M
1741	Fresenius	HDF 100 S
1742	Fresenius	HF 60 LS
1743	Fresenius	HF 80
1744	Fresenius	HF 80 LS
1745	Fresenius	HF 80 Light
1746	Fresenius	HF 80 S
1747	Fresenius	Hemaflor 1.0
1748	Fresenius	Hemaflor 1.3
1749	Fresenius	Hemaflor 1.8
1750	Fresenius	Optiflux F 160 NR
1751	Fresenius	Optiflux F 180 A
1752	Fresenius	Optiflux F 180 NR
1753	Fresenius	Optiflux F 200 A
1754	Fresenius	Optiflux F 200 NR

CODE	BRAND	MODEL
1755	Fresenius	Primaflor 1.0 E
1756	Fresenius	Primaflor 1.3 E
1757	Fresenius	Primaflor 1.8 E
1758	Fresenius	HF 80 A

1759	Fresenius	Optiflux 180 B
1760	Fresenius	Optiflux 200 B
1801	Gambro	100 HG
1802	Gambro	Alwall GFE 09
1803	Gambro	Alwall GFE 11
1804	Gambro	Alwall GFE 12
1805	Gambro	Alwall GFE 15
1806	Gambro	Alwall GFE 18
1807	Gambro	Alwall GFS 12
1808	Gambro	Alwall GFS 16
1809	Gambro	Alwall GFS Plus 11
1810	Gambro	Alwall GFS Plus 12
1811	Gambro	Alwall GFS Plus 16
1812	Gambro	Alwall GFS Plus 20
1813	Gambro	Aria 550 *
1814	Gambro	Aria 700 *
1815	Gambro	Lundia Alpha 400 *
1816	Gambro	Lundia Alpha 500 *
1817	Gambro	Lundia Alpha 600 *
1818	Gambro	Lundia Alpha 700 *
1819	Gambro	Lundia Pro 100
1820	Gambro	Lundia Pro 200
1821	Gambro	Lundia Pro 500
1822	Gambro	Lundia Pro 500 G
1823	Gambro	Lundia Pro 600
1824	Gambro	Lundia Pro 600 G
1825	Gambro	Lundia Pro 800
1826	Gambro	Lundia Pro 800 G
1827	Gambro	Polyflux 10 L
1828	Gambro	Polyflux 11
1829	Gambro	Polyflux 11 S
1830	Gambro	Polyflux 14
1831	Gambro	Polyflux 14 L
1832	Gambro	Polyflux 14 S
1833	Gambro	Polyflux 140H
1834	Gambro	Polyflux 17
1835	Gambro	Polyflux 17 L
1836	Gambro	Polyflux 17 S
1837	Gambro	Polyflux 170 H
1838	Gambro	Polyflux 21
1839	Gambro	Polyflux 21 L
1840	Gambro	Polyflux 21 S
1841	Gambro	Polyflux 210 H
1842	Gambro	Polyflux 24 S
1843	Gambro	Polyflux 6 L
1844	Gambro	Polyflux 6 S
1845	Gambro	Polyflux 6B
1846	Gambro	Polyflux 8 L

CODE	BRAND	MODEL
1847	Gambro	Polyflux 8B
1848	Gambro	Polyflux 24 R
1849	Gambro	Polyflux 21 R
1850	Gambro	Polyflux 17 R
1851	Gambro	Revaclear

1852	Gambro	Revaclear-Max
1901	Gross-O-Pharm	Future 1.0
1902	Gross-O-Pharm	Future 1.2
1903	Gross-O-Pharm	Future 1.4
1904	Gross-O-Pharm	Future 1.6
1905	Gross-O-Pharm	Present 1.0
1906	Gross-O-Pharm	Present 1.2
1907	Gross-O-Pharm	Present 1.4
1908	Gross-O-Pharm	Present 1.6
1909	Gross-O-Pharm	Synergie 0.61
1910	Gross-O-Pharm	Synergie 0.9
1911	Gross-O-Pharm	Synergie 1.21
1912	Gross-O-Pharm	Synergie 1.5

2001	Haidylena	HL 100
2002	Haidylena	HL 100 B
2003	Haidylena	HL 100 H
2004	Haidylena	HL 110
2005	Haidylena	HL 110 H
2006	Haidylena	HL 120
2007	Haidylena	HL 120 H
2008	Haidylena	HL 130
2009	Haidylena	HL 130 B
2010	Haidylena	HL 130 H
2011	Haidylena	HL 130 HS
2012	Haidylena	HL 130 S
2013	Haidylena	HL 140 H
2014	Haidylena	HL 160
2015	Haidylena	HL 160 B
2016	Haidylena	HL 160 H
2017	Haidylena	HL 180 H
2018	Haidylena	HL 200 H
2019	Haidylena	HL 220 H
2020	Haidylena	HL 90
2021	Haidylena	HP 100
2022	Haidylena	HP 100 S
2023	Haidylena	HP 120
2024	Haidylena	HP 120 S
2025	Haidylena	HP 130
2026	Haidylena	HP 130 S
2027	Haidylena	HP 160
2028	Haidylena	HP 160 S
2029	Haidylena	HP 180
2030	Haidylena	HP 180 S
2031	Haidylena	HP 200
2032	Haidylena	HP 200 S
2033	Haidylena	HPH 130S
2034	Haidylena	HPH 160S
2035	Haidylena	HPH 180H

CODE	BRAND	MODEL
2036	Haidylena	HPH 180S
2037	Haidylena	HPM 100S
2038	Haidylena	HPM 130S
2039	Haidylena	HPM 160S

2040	Haidylena	HPM 180S
2101	Helbio	Ac 10
2102	Helbio	Ac 13
2103	Helbio	Ac 15
2104	Helbio	Ac 18
2105	Helbio	Ac 22
2106	Helbio	Bio 100
2107	Helbio	Bio 1000
2108	Helbio	Bio 120
2109	Helbio	Bio 1200
2110	Helbio	Bio 140
2111	Helbio	Bio 1400
2112	Helbio	Bio 160
2113	Helbio	Bio 1600
2114	Helbio	Bio 180
2115	Helbio	Bio 1800
2116	Helbio	Bio 200
2117	Helbio	Bio 2000
2118	Helbio	Dia 10
2119	Helbio	Dia 100
2120	Helbio	Dia 13
2121	Helbio	Dia 130
2122	Helbio	Dia 15
2123	Helbio	Dia 150
2124	Helbio	Dia 18
2125	Helbio	Dia 180
2126	Helbio	Dia 22
2127	Helbio	Dia 220
2128	Helbio	SYN+100
2129	Helbio	SYN+120
2130	Helbio	SYN+140
2131	Helbio	SYN+160
2132	Helbio	SYN+180
2133	Helbio	SYN+200
2134	Helbio	Tria 130
2135	Helbio	Tria 1300
2136	Helbio	Tria 150
2137	Helbio	Tria 1500
2138	Helbio	Tria 180
2139	Helbio	Tria 1800
2140	Helbio	Tria 210
2141	Helbio	Tria 2100
2201	Hemofarm	E 2
2202	Hemofarm	E 2 H
2203	Hemofarm	E 3
2204	Hemofarm	E 3 H
<b>CODE</b>	<b>BRAND</b>	<b>MODEL</b>
2205	Hemofarm	E 4
2206	Hemofarm	E 4 H
2207	Hemofarm	F 4
2208	Hemofarm	F 4 HPS
2209	Hemofarm	F 40
2210	Hemofarm	F 40 S

2211	Hemofarm	F 5
2212	Hemofarm	F 5 HPS
2213	Hemofarm	F 50
2214	Hemofarm	F 50 S
2215	Hemofarm	F 6
2216	Hemofarm	F 6 HPS
2217	Hemofarm	F 60
2218	Hemofarm	F 60 S
2301	Hospal	Crystal 2800 ST *
2302	Hospal	Crystal 3400 ST *
2303	Hospal	Crystal 4000 ST *
2304	Hospal	Diacepal DA 12
2305	Hospal	Diacepal DA 14
2306	Hospal	Diacepal DA 16
2307	Hospal	Diacepal DA 20
2308	Hospal	Disscap 120 SE
2309	Hospal	Disscap 150 SE
2310	Hospal	Disscap 180 SE
2311	Hospal	Disscap 2100 SE
2312	Hospal	Filtral 10
2313	Hospal	Filtral 12
2314	Hospal	Filtral 16
2315	Hospal	Filtral 20
2316	Hospal	Filtral 6
2317	Hospal	H 1
2318	Hospal	H 4
2319	Hospal	H 6
2320	Hospal	H 9
2321	Hospal	HG 100
2322	Hospal	HG 400
2323	Hospal	HG 500
2324	Hospal	HG 600
2325	Hospal	HG 700
2326	Hospal	M 4
2327	Hospal	M 6
2328	Hospal	M 9
2329	Hospal	Nephral ST 200
2330	Hospal	Nephral ST 300
2331	Hospal	Nephral ST 400
2332	Hospal	Nephral ST 500
2401	Idemsa	100
2403	Idemsa	100 MHP
2404	Idemsa	1000
2405	Idemsa	1000 HF
<b>CODE</b>	<b>BRAND</b>	<b>MODEL</b>
2406	Idemsa	12
2408	Idemsa	12 H
2410	Idemsa	120
2412	Idemsa	120 MHP
2413	Idemsa	1200
2414	Idemsa	1200 HF
2415	Idemsa	140
2417	Idemsa	140 MHP

2418	Idemsa	1400
2419	Idemsa	1400 HF
2420	Idemsa	15
2422	Idemsa	15 H
2424	Idemsa	160
2426	Idemsa	160 MHP
2427	Idemsa	1600
2428	Idemsa	1600 HF
2429	Idemsa	180
2431	Idemsa	180 MHP
2432	Idemsa	1800
2433	Idemsa	1800 HF
2434	Idemsa	20
2436	Idemsa	20 H
2438	Idemsa	200
2440	Idemsa	200 MHP
2441	Idemsa	2000
2442	Idemsa	2000 HF
2443	Idemsa	23
2445	Idemsa	23 H
2447	Idemsa	25
2449	Idemsa	25 H
2451	Idemsa	28
2453	Idemsa	28 H
2455	Idemsa	30
2457	Idemsa	30 H
2459	Idemsa	32
2461	Idemsa	32 H
2463	Idemsa	34
2465	Idemsa	34 H
2467	Idemsa	36
2469	Idemsa	36 H
2471	Idemsa	H 1100
2473	Idemsa	H 1300
2475	Idemsa	H 1500
2477	Idemsa	H 1800
2479	Idemsa	H 2000
2481	Idemsa	H 900
2483	Idemsa	LP 100
2484	Idemsa	LP 120
2485	Idemsa	LP 140
2486	Idemsa	LP 160
2487	Idemsa	LP 180
2488	Idemsa	LP 200
2489	Idemsa	P 100
2490	Idemsa	P 120
<b>CODE</b>	<b>BRAND</b>	<b>MODEL</b>
2491	Idemsa	P 140
2492	Idemsa	P 160
2493	Idemsa	P 180
2494	Idemsa	P 200
2501	JMS	BF 110
2502	JMS	BF 130
2503	JMS	BF 150

2504	JMS	BF 170
2505	JMS	JC 1080
2506	JMS	JC 1280
2507	JMS	JC 1480
2508	JMS	JC 1680
2509	JMS	JH 1080
2510	JMS	JH 1280
2511	JMS	JH 1480
2512	JMS	JH 1680
2513	JMS	SM 110
2514	JMS	SM 130
2515	JMS	SM 150
2516	JMS	SM 170
2601	Kawasumi	Diapes R 12
2602	Kawasumi	Diapes R 15
2603	Kawasumi	Diapes R 18
2604	Kawasumi	MA 08 H
2605	Kawasumi	MA 08 U
2606	Kawasumi	MA 10 H
2607	Kawasumi	MA 10 U
2608	Kawasumi	MA 12 H
2609	Kawasumi	MA 12 U
2610	Kawasumi	MA 15 H
2611	Kawasumi	MA 15 U
2612	Kawasumi	MA 18 H
2613	Kawasumi	MA 18 U
2614	Kawasumi	ME 08 H
2615	Kawasumi	ME 08 U
2616	Kawasumi	ME 10 H
2617	Kawasumi	ME 10 U
2618	Kawasumi	ME 12 H
2619	Kawasumi	ME 12 U
2620	Kawasumi	ME 15 H
2621	Kawasumi	ME 15 U
2622	Kawasumi	ME 18 H
2623	Kawasumi	ME 18 U
2624	Kawasumi	RA 08 H
2625	Kawasumi	RA 08 M
2626	Kawasumi	RA 08 U
2627	Kawasumi	RA 1.0 SH
2628	Kawasumi	RA 1.25 SH
2629	Kawasumi	RA 1.55 SH
2630	Kawasumi	RA 10 H
<b>CODE</b>	<b>BRAND</b>	<b>MODEL</b>
2631	Kawasumi	RA 10 M
2632	Kawasumi	RA 10 U
2633	Kawasumi	RA 12 H
2634	Kawasumi	RA 12 M
2635	Kawasumi	RA 12 U
2636	Kawasumi	RA 15 H
2637	Kawasumi	RA 15 M
2638	Kawasumi	RA 15 U
2639	Kawasumi	RA 18 H
2640	Kawasumi	RA 18 M

2641	Kawasumi	RA 18 U
2642	Kawasumi	RE 08 H
2643	Kawasumi	RE 08 M
2644	Kawasumi	RE 08 U
2645	Kawasumi	RE 10 H
2646	Kawasumi	RE 10 M
2647	Kawasumi	RE 10 U
2648	Kawasumi	RE 12 H
2649	Kawasumi	RE 12 M
2650	Kawasumi	RE 12 U
2651	Kawasumi	RE 15 H
2652	Kawasumi	RE 15 M
2653	Kawasumi	RE 15 U
2654	Kawasumi	RE 18 H
2655	Kawasumi	RE 18 M
2656	Kawasumi	RE 18 U
2657	Kawasumi	SMC A 10
2658	Kawasumi	SMC A 13
2659	Kawasumi	SMC A 16
2660	Kawasumi	SMC A 19
2661	Kawasumi	SMC R 10
2662	Kawasumi	SMC R 13
2663	Kawasumi	SMC R 16
2664	Kawasumi	SPAN 1.0
2665	Kawasumi	SPAN 1.3
2666	Kawasumi	SPAN 1.6
2667	Kawasumi	SPAN E 20

2701	Kimal	KF 1000
2702	Kimal	KF 1200
2703	Kimal	KF 1400
2704	Kimal	KF 1600
2705	Kimal	KF 1800
2706	Kimal	KF 2000

2801	Kuraray	KF 201 0.8
2802	Kuraray	KF 201 0.8 C
2803	Kuraray	KF 201 1.0 C
2804	Kuraray	KF 201 1.0 D
2805	Kuraray	KF 201 1.3 C
2806	Kuraray	KF 201 1.3 D
2807	Kuraray	KF 201 1.6 C

CODE	BRAND	MODEL
2808	Kuraray	KF 201 1.6 D
2809	Kuraray	KF 201 1.8 C
2810	Kuraray	KF 201 10 CH
2811	Kuraray	KF 201 13 CH
2812	Kuraray	KF 201 CH 1.6
2813	Kuraray	KF 201 N 0.7
2814	Kuraray	KF 201 N 1.0
2815	Kuraray	KF 201 N 1.3
2816	Kuraray	KF 201 N 1.6
2817	Kuraray	kf 201 1.0 m
2818	Kuraray	kf 201 1.3 m

2819	Kuraray	kf 201 1.6 m
2820	Kuraray	kf 201 1.8 m
2901	Meditech	BioF 10
2903	Meditech	BioF 12
2905	Meditech	BioF 15
2907	Meditech	MF 4
2908	Meditech	MF 40
2909	Meditech	MF 6
2910	Meditech	MF 60
2911	Meditech	MO 08 EO
2912	Meditech	MO 08 R
2913	Meditech	MO 10 EO
2914	Meditech	MO 10 R
2915	Meditech	MO 12 EO
2916	Meditech	MO 12 R
2917	Meditech	MO 15
2919	Meditech	MO 16 EO
2920	Meditech	MO 16 R
2921	Meditech	MO 18 EO
2922	Meditech	MO 18 R
2923	Meditech	MO 20 EO
2924	Meditech	MO 20 R
2925	Meditech	NP 08
2927	Meditech	NP 10
2929	Meditech	NP 12
2931	Meditech	NP 15
2933	Meditech	NP 18

3001	Minntech	Primus 1350
3002	Minntech	Primus 2000

3101	Nephro System	HFP 10
3102	Nephro System	HFP 14
3103	Nephro System	HFP 20
3104	Nephro System	MO 08 A
3105	Nephro System	MO 08 E
3106	Nephro System	MO 08 U
3107	Nephro System	MO 08 UA
3108	Nephro System	MO 10 A

CODE	BRAND	MODEL
3109	Nephro System	MO 10 E
3110	Nephro System	MO 10 U
3111	Nephro System	MO 10 UA
3112	Nephro System	MO 12 A
3113	Nephro System	MO 12 E
3114	Nephro System	MO 12 U
3115	Nephro System	MO 12 UA
3116	Nephro System	MO 15 A
3117	Nephro System	MO 15 E
3118	Nephro System	MO 15 U
3119	Nephro System	MO 15 UA
3120	Nephro System	MO 18 A
3121	Nephro System	MO 18 E

3122	Nephro System	MO 18 U
3123	Nephro System	MO 18 UA
3124	Nephro System	NP 08 A
3125	Nephro System	NP 08 E
3126	Nephro System	NP 08 U
3127	Nephro System	NP 08 UA
3128	Nephro System	NP 10 A
3129	Nephro System	NP 10 E
3130	Nephro System	NP 10 U
3131	Nephro System	NP 10 UA
3132	Nephro System	NP 12 A
3133	Nephro System	NP 12 E
3134	Nephro System	NP 12 U
3135	Nephro System	NP 12 UA
3136	Nephro System	NP 15 A
3137	Nephro System	NP 15 E
3138	Nephro System	NP 15 U
3139	Nephro System	NP 15 UA
3140	Nephro System	NP 18 A
3141	Nephro System	NP 18 E
3142	Nephro System	NP 18 U
3143	Nephro System	NP 18 UA

3201	Nikkiso	ALF 100
3202	Nikkiso	ALF 120
3203	Nikkiso	ALF 120 A
3204	Nikkiso	ALF 160
3205	Nikkiso	ALF 160 A
3206	Nikkiso	ALF 180
3207	Nikkiso	ALF 180 A
3208	Nikkiso	ALF 80
3209	Nikkiso	ALH-08 GW
3210	Nikkiso	ALH-10 GW
3211	Nikkiso	ALH-12 GW
3212	Nikkiso	ALH-16 GW
3213	Nikkiso	BLF-08 GW
3214	Nikkiso	BLF-10 GW
3215	Nikkiso	BLF-12 GW
3216	Nikkiso	BLF-16 AW
3217	Nikkiso	BLF-16 GW

CODE	BRAND	MODEL
3218	Nikkiso	BLF-18 GW
3219	Nikkiso	BLH 16 AW
3220	Nikkiso	BLH-08 GW
3221	Nikkiso	BLH-10 GW
3222	Nikkiso	BLH-12 GW
3223	Nikkiso	BLH-16 GW
3224	Nikkiso	FLX 10 GWS
3225	Nikkiso	FLX 12 GWS
3226	Nikkiso	FLX 15 GWS
3227	Nikkiso	FLX 18 GWS
3228	Nikkiso	FLX 21 GWS
3229	Nikkiso	FLX 8 GWS
3230	Nikkiso	FLY 10 GWS
3231	Nikkiso	FLY 12 GWS

3232	Nikkiso	FLY 15 GWS
3233	Nikkiso	FLY 18 GWS
3234	Nikkiso	FLY 21 GWS
3301	Nipro	FB 110 A
3302	Nipro	FB 110 H
3303	Nipro	FB 110 T
3304	Nipro	FB 110 U
3305	Nipro	FB 110 UH
3306	Nipro	FB 130 A
3307	Nipro	FB 130 H
3308	Nipro	FB 130 T
3309	Nipro	FB 130 U
3310	Nipro	FB 130 UH
3311	Nipro	FB 150 A
3312	Nipro	FB 150 H
3313	Nipro	FB 150 T
3314	Nipro	FB 150 U
3315	Nipro	FB 150 UH
3316	Nipro	FB 170 A
3317	Nipro	FB 170 H
3318	Nipro	FB 170 T
3319	Nipro	FB 170 U
3320	Nipro	FB 170 UH
3321	Nipro	FB 190 A
3322	Nipro	FB 190 H
3323	Nipro	FB 190 T
3324	Nipro	FB 190 U
3325	Nipro	FB 190 UH
3326	Nipro	FB 210 A
3327	Nipro	FB 210 H
3328	Nipro	FB 210 T
3329	Nipro	FB 210 U
3330	Nipro	FB 210 UH
3331	Nipro	FB 50 A
3332	Nipro	FB 50 H
3333	Nipro	FB 50 T
3334	Nipro	FB 50 U
3336	Nipro	FB 70 A

CODE	BRAND	MODEL
3337	Nipro	FB 70 H
3338	Nipro	FB 70 T
3339	Nipro	FB 70 U
3340	Nipro	FB 70 UH
3341	Nipro	FB 90 A
3342	Nipro	FB 90 H
3343	Nipro	FB 90 T
3344	Nipro	FB 90 U
3345	Nipro	FB 90 UH
3346	Nipro	Sureflux 110 E
3347	Nipro	Sureflux 110 FH
3348	Nipro	Sureflux 110 G
3349	Nipro	Sureflux 110 L
3350	Nipro	Sureflux 130 E
3351	Nipro	Sureflux 130 G



3352	Nipro	Sureflux 130 L
3353	Nipro	Sureflux 150 E
3354	Nipro	Sureflux 150 FH
3355	Nipro	Sureflux 150 G
3356	Nipro	Sureflux 150 L
3357	Nipro	Sureflux 170 E
3358	Nipro	Sureflux 170 G
3359	Nipro	Sureflux 170 L
3360	Nipro	Sureflux 190 E
3361	Nipro	Sureflux 190 FH
3362	Nipro	Sureflux 190 G
3363	Nipro	Sureflux 190 L
3364	Nipro	Sureflux 210 E
3365	Nipro	Sureflux 210 FH
3366	Nipro	Sureflux 210 G
3367	Nipro	Sureflux 210 L
3368	Nipro	Sureflux 30 L
3369	Nipro	Sureflux 50 E
3370	Nipro	Sureflux 50 G
3371	Nipro	Sureflux 50 L
3372	Nipro	Sureflux 70 E
3373	Nipro	Sureflux 70 G
3374	Nipro	Sureflux 70 L
3375	Nipro	Sureflux 90 E
3376	Nipro	Sureflux 90 G
3377	Nipro	Sureflux 90 L
3378	Nipro	Sureflux FB 210 U
3379	Nipro	Surelyzer PES 110 DH
3380	Nipro	Surelyzer PES 150 DH
3381	Nipro	Surelyzer PES 190 DH

3401	Pierrel Medical Care	Opal 110 S
3402	Pierrel Medical Care	Opal 130 S
3403	Pierrel Medical Care	Opal 160 S
3404	Pierrel Medical Care	Opal 180 S
3405	Pierrel Medical Care	Opal 200 S
3406	Pierrel Medical Care	Opal 220 S
3407	Pierrel Medical Care	Ruby 130 S

CODE	BRAND	MODEL
3408	Pierrel Medical Care	Ruby 160 S
3409	Pierrel Medical Care	Ruby 180 S
3410	Pierrel Medical Care	Topaz 100 S
3411	Pierrel Medical Care	Topaz 130 S
3412	Pierrel Medical Care	Topaz 160 S
3413	Pierrel Medical Care	Topaz 180 S

3501	RenaSelect	Altair 10
3502	RenaSelect	Altair 12
3503	RenaSelect	Altair 14
3504	RenaSelect	Altair 16
3505	RenaSelect	Nouvelle 10
3506	RenaSelect	Nouvelle 12
3507	RenaSelect	Nouvelle 14
3508	RenaSelect	Nouvelle 16

3601	Riggers	Altair 10
3602	Riggers	Altair 12
3603	Riggers	Altair 16
3604	Riggers	Nouvelle 10
3605	Riggers	Nouvelle 12
3606	Riggers	Nouvelle 16
3607	Riggers	Orion 10
3608	Riggers	Orion 12
3609	Riggers	Orion 16
3610	Riggers	Synergie 1.0
3611	Riggers	Synergie 1.2
3612	Riggers	Synergie 1.6

3701	Saxonia	DC 09 2 1
3702	Saxonia	DC 11 2 1
3703	Saxonia	DC 12 2 1
3704	Saxonia	DC 16 2 1
3705	Saxonia	DH 09 2 1
3706	Saxonia	DH 11 2 1
3707	Saxonia	DH 13 2 1
3708	Saxonia	DH 16 2 1
3709	Saxonia	Saxon 1030 E
3710	Saxonia	Saxon 1065 H
3711	Saxonia	Saxon 1080 C
3712	Saxonia	Saxon 1080 H
3713	Saxonia	Saxon 1265 H
3714	Saxonia	Saxon 1280 C
3715	Saxonia	Saxon 1280 H
3716	Saxonia	Saxon 1330 E
3717	Saxonia	Saxon 1465 H
3718	Saxonia	Saxon 1480 C
3719	Saxonia	Saxon 1480 H
3720	Saxonia	Saxon 1665 H
3721	Saxonia	Saxon 1680 C
3722	Saxonia	Saxon 1680 H

CODE	BRAND	MODEL
3801	Schiwa	Basicflux 1.0
3802	Schiwa	Basicflux 1.3
3803	Schiwa	Basicflux 1.8
3804	Schiwa	Perflux SD 1.0
3805	Schiwa	Perflux SD 1.3
3806	Schiwa	Perflux SD 1.8

3901	Terumo	Clirans C 061
3902	Terumo	Clirans C 08 L
3903	Terumo	Clirans C 081
3904	Terumo	Clirans C 081 L
3905	Terumo	Clirans C 10 L
3906	Terumo	Clirans C 10 NL
3907	Terumo	Clirans C 101
3908	Terumo	Clirans C 101 L
3909	Terumo	Clirans C 12 L
3910	Terumo	Clirans C 12 NL
3911	Terumo	Clirans C 121

3912	Terumo	Clirans C 121 L
3913	Terumo	Clirans C 15 L
3914	Terumo	Clirans C 15 NL
3915	Terumo	Clirans C 151
3916	Terumo	Clirans C 151 L
3917	Terumo	Clirans E 12 NL
3918	Terumo	Clirans E 12 NLA
3919	Terumo	Clirans E 15 NL
3920	Terumo	Clirans E 15 NLA
3921	Terumo	Clirans E 18 NL
3922	Terumo	Clirans E 18 NLA
3923	Terumo	Clirans EE 12 NL
3924	Terumo	Clirans EE 12 NLA
3925	Terumo	Clirans EE 15 NL
3926	Terumo	Clirans EE 15 NLA
3927	Terumo	Clirans EE 18 NL
3928	Terumo	Clirans EE 18 NLA
3929	Terumo	Clirans EE 20 NL
3930	Terumo	Clirans M 081
3931	Terumo	Clirans M 101
3932	Terumo	Clirans M 121
3933	Terumo	Clirans M 151
3934	Terumo	Clirans NT 120 L
3935	Terumo	Clirans NT 150 L
3936	Terumo	Clirans NT 175 L
3937	Terumo	Clirans S 12 NL
3938	Terumo	Clirans S 15 NL
3939	Terumo	Clirans S 18 NL
3940	Terumo	Clirans SE 12 NL
3941	Terumo	Clirans SE 15 NL
3942	Terumo	Clirans SE 18 NL
3943	Terumo	Clirans T 150 L
3944	Terumo	Clirans T 150 LM
3945	Terumo	Clirans T 175 L
3946	Terumo	Clirans T 175 LM

CODE	BRAND	MODEL
3947	Terumo	Clirans T 220 L
3948	Terumo	Clirans T 220 LM

4001	Toray	BS 1.3
4002	Toray	BS 1.3 U
4003	Toray	BS 1.6
4004	Toray	BS 1.6 UL
4005	Toray	BS 1.8
4006	Toray	BS 1.8 UL
4007	Toray	BS 2.1 UL
4008	Toray	Filtryzer B1 0.6
4009	Toray	Filtryzer B1 0.8
4010	Toray	Filtryzer B1 1.0
4011	Toray	Filtryzer B1 1.0 H
4012	Toray	Filtryzer B1 1.3 H
4013	Toray	Filtryzer B1 1.6 H
4014	Toray	Filtryzer B1 1.6 U
4015	Toray	Filtryzer B1 2.1 U
4016	Toray	Filtryzer B2 0.5

4017	Toray	Filtryzer B2 0.8
4018	Toray	Filtryzer B2 1.0
4019	Toray	Filtryzer B2 1.0 H
4020	Toray	Filtryzer B2 1.2 H
4021	Toray	Filtryzer B2 1.5 H
4022	Toray	Filtryzer B2 2.0
4023	Toray	Filtryzer B3 0.5 A
4024	Toray	Filtryzer B3 0.8 A
4025	Toray	Filtryzer B3 1.0 A
4026	Toray	Filtryzer B3 1.3 A
4027	Toray	Filtryzer B3 1.6 A
4028	Toray	Filtryzer B3 2.0 A
4029	Toray	Filtryzer BK 1.0 F
4030	Toray	Filtryzer BK 1.0 P
4031	Toray	Filtryzer BK 1.0 U
4032	Toray	Filtryzer BK 1.3 F
4033	Toray	Filtryzer BK 1.3 P
4034	Toray	Filtryzer BK 1.3 U
4035	Toray	Filtryzer BK 1.6 F
4036	Toray	Filtryzer BK 1.6 P
4037	Toray	Filtryzer BK 1.6 U
4038	Toray	Filtryzer BK 2.1 F
4039	Toray	Filtryzer BK 2.1 P
4040	Toray	Filtryzer BK 2.1 U

4101	VMP	AHF 10
4102	VMP	AHF 14
4103	VMP	CDF 100
4104	VMP	CDF 120
4105	VMP	CDF 140
4106	VMP	CDF 160
4107	VMP	CDF 180
4108	VMP	CDF 200