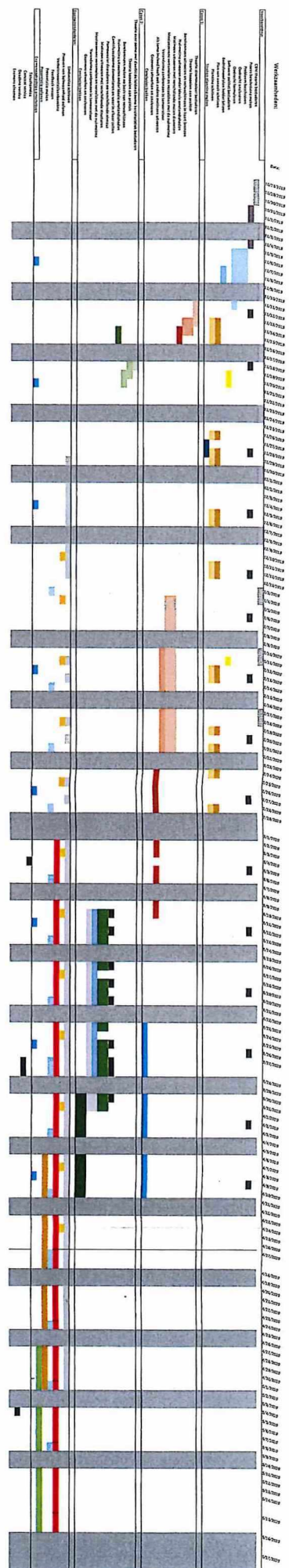
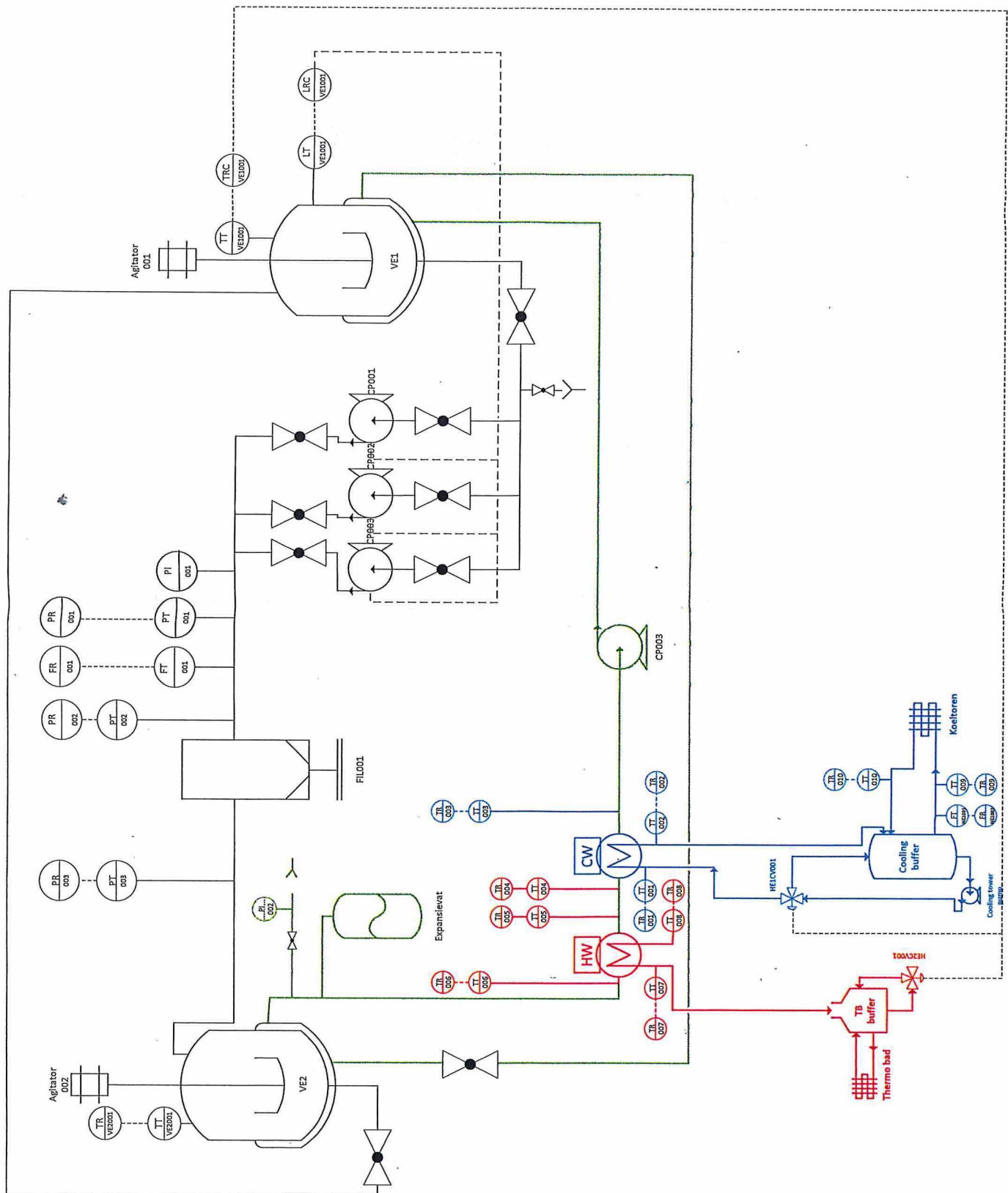
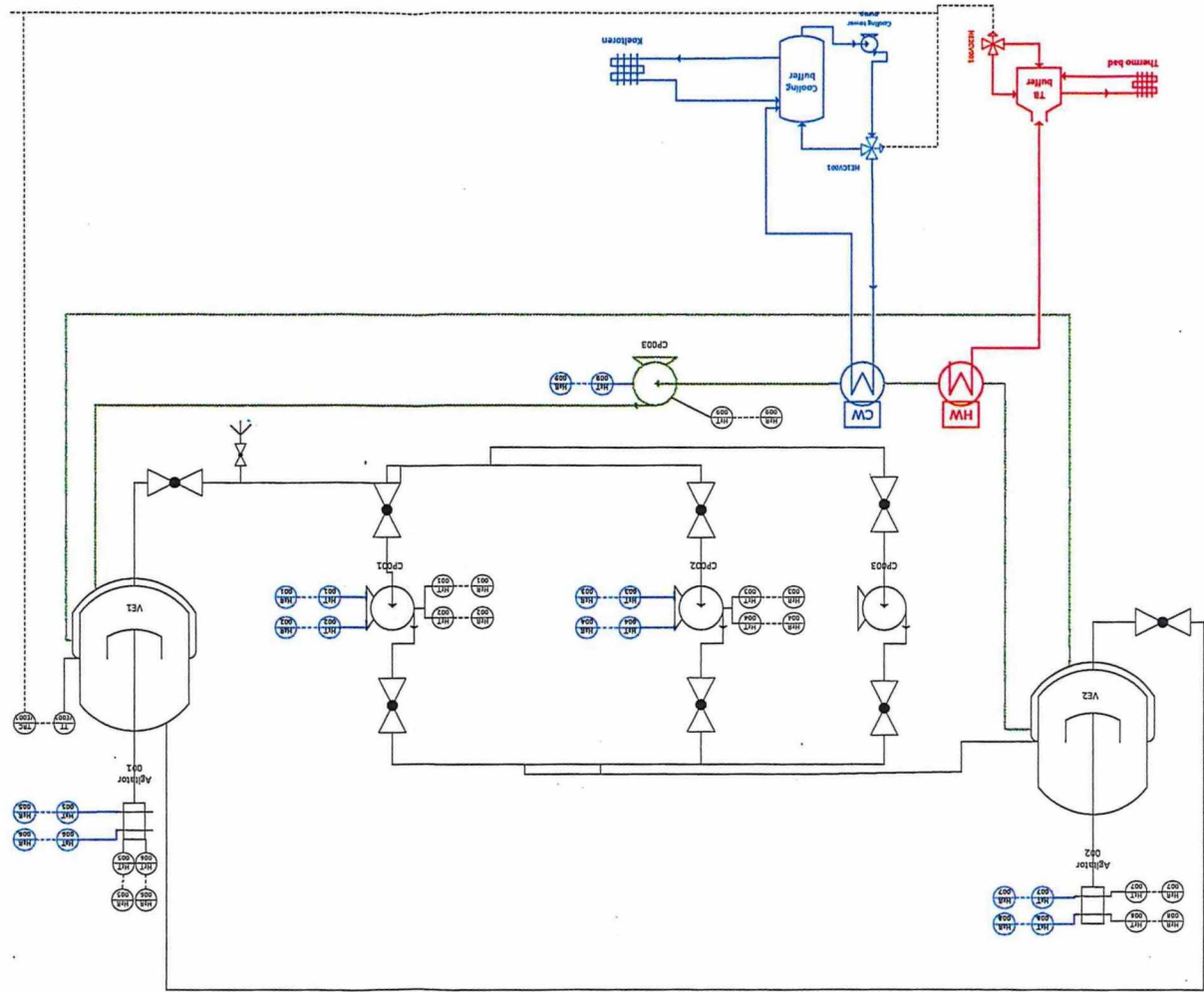


Grafische beschrijving van de werking van de afvalwaterzuiveringsinstallatie	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	1591	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650	1651	1652	1653	1654	1655	1656	1657	1658	1659	1660	1661	1662	1663	1664	1665	1666	1667	1668	1669	1670	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680	1681	1682	1683	1684	1685	1686	1687	1688	1689	1690	1691	1692	1693	1694	1695	1696	1697	1698	1699	1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	1740	1741	1742	1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771	1772	1773	1774	1775	1776	1777	1778	1779	1780	1781	1782	1783	1784	1785	1786	1787	1788	1789	1790	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	206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Kamertemperatuur								40 Celsius							
Diameter	dichtgeslpt [%]	ΔP (voor-na) 20 C	ΔP (voor-na) best fit 20 C	Diameter	dichtgeslpt [%]	U [%] 20C	U [%] Best Fit	Diameter	dichtgeslpt [%]	ΔP (voor-na) 40 C	ΔP (voor-na) best fit 40 C	Diameter	dichtgeslpt [%]	U [%] 40C	U [%] Best Fit
23	0	-0.006520584	-0.002043191	23	0	36.50036676	38.7603327	23	0	-0.027783229	-0.001343324	23	0	42.31157881	43.280891
23	0	-0.007638393	-0.002043191	23	0	39.64292708	38.7603327	23	0	-0.026489183	-0.001343324	23	0	43.28871866	43.280891
23	0	-0.008848463	-0.002043191	23	0	39.69316706	38.7603327	23	0		-0.001343324	23	0		43.280891
22	8		-0.001968898	22	8		38.77087603	22	8		-0.000903116	22			43.375771
21	16.3		-0.001851906	21	16.3		38.83385034	21	16.3		-0.0002948	21			43.488434
20	24	-0.001263754	-0.001663663	20	24	39.49608854	38.96	20	24	-0.026750648	0.000558675	20	24	43.93715557	43.623479
20	24	-0.003019484	-0.001663663	20	24	39.0600914	38.96	20	24	-0.024913247	0.000558675	20	24	44.18578009	43.623479
19	31		-0.001353546	19	31		39.16296953	19	31		0.001776122	19			43.787081
18	38	0.004273386	-0.000829239	18	38	39.03088646	39.4602963	18	38	-0.023056801	0.003544554	18	38	44.19267422	43.987694
18	38	0.00230411	-0.000829239	18	38	38.36124397	39.4602963	18	38	-0.022961681	0.003544554	18	38	44.25467593	43.987694
17	45		8.27453E-05	17	45		39.87482353	17	45		0.006164871	17			44.237150
16	51	0.009531128	0.001719113	16	51	42.85401673	40.43675	16	51	-0.011797406	0.010132694	16	51	45.12267713	44.552443
16	51	0.007667009	0.001719113	16	51	42.85404598	40.43675	16	51	-0.013277273	0.010132694	16	51	45.20742291	44.552443
15	57		0.004755307	15	57		41.18666667	15	57		0.01628454	15			44.958750
14	62.5	0.027972464	0.010589324	14	62.5	40.89899855	42.18016327	14	62.5	0.008540082	0.026067168	14	62.5	44.55432003	45.494820
14	62.5	0.026199285	0.010589324	14	62.5	40.42281931	42.18016327	14	62.5	0.007963476	0.026067168	14	62.5	44.90336658	45.494820
13	67.6		0.022180345	13	67.6		43.49500592	13	67.6		0.042038729	13			46.223191
12	72.5	0.044322055	0.045766909	12	72.5	44.12031438	45.24266667	12	72.5	0.036093182	0.068790538	12	72.5	46.16964091	47.251199
12	72.5	0.042937438	0.045766909	12	72.5	44.06430624	45.24266667	12	72.5	0.039429153	0.068790538	12	72.5	47.62793339	47.251199
11	77		0.093524186	11	77		47.58750413	11	77		0.114536958	11			48.779130
10	81	0.189977419	0.183176613	10	81	52.12010806	50.78	10	81	0.17307481	0.193307068	10	81	51.05800819	51.228645
10	81	0.188113869	0.183176613	10	81	52.15974511	50.78	10	81	0.166511063	0.193307068	10	81	52.07031502	51.228645
9	84.5		0.319359448	9	84.5		55.21718519	9	84.5		0.325604264	9			55.676380
8	87.7	0.459943913	0.460109732	8	87.7	61.23380159	61.559	8	87.7	0.510248961	0.529096459	8	87.7	65.5073922	66.113820
8	87.7	0.463212763	0.460109732	8	87.7	61.34472525	61.559	8	87.7	0.498041313	0.529096459	8	87.7	66.66990223	66.113820

alpha	2.19474629E-03
theta	6.02764730E-01
eta	-8.97613638E+00
kappa	9.13542766E+00

$$y = \alpha + \frac{\theta x^\eta}{\kappa^\eta + x^\eta}$$

a	2.69E+01
b	3.48E-01
c	2.04E+03

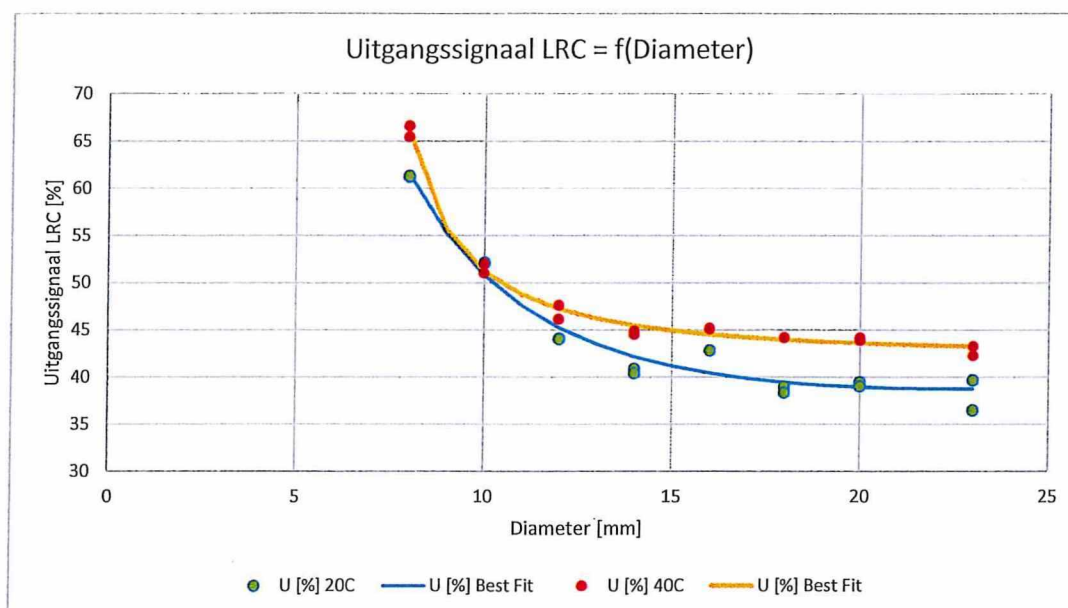
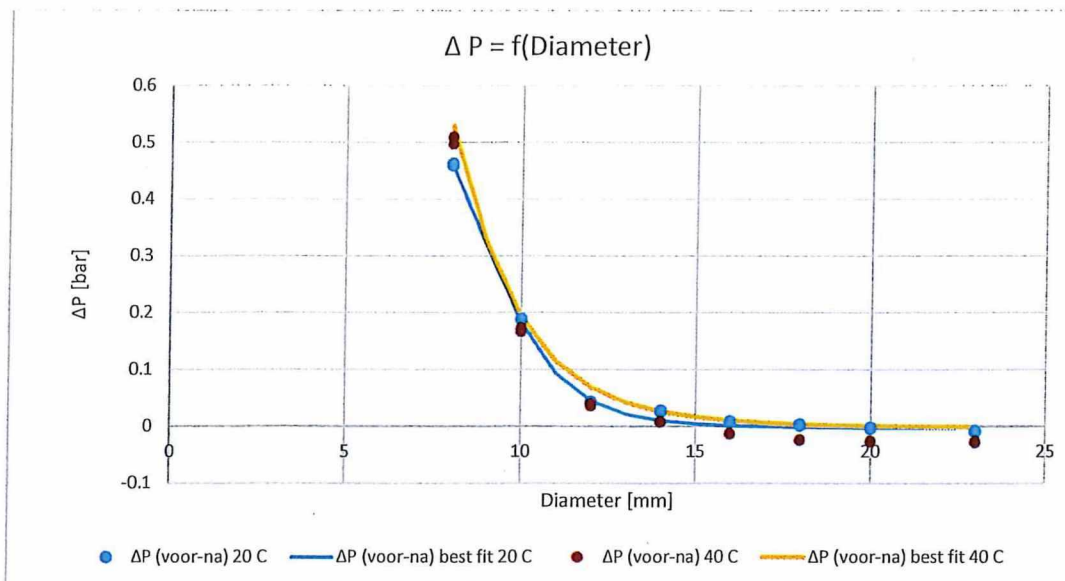
$$y = a + bx + c/x^2$$

alpha	-2.7526571E-02
theta	1.2859840E+00
eta	-6.1266298E+00
kappa	7.5564815E+00

$$y = \alpha + \frac{\theta x^\eta}{\kappa^\eta + x^\eta}$$

a	-9.031618E-03
b	6.117399E-05
theta	2.587008E+00

$$y = x(a + bx^\theta)^{-1/\theta}$$



mm	ΔP (voor-na) 20 C	ΔP (voor-na) 40 C
22.9	-0.006520584	-0.027783229
22.9	-0.007638393	-0.026489183
22.9	-0.008848463	
20	-0.001263754	-0.026750648
20	-0.003019484	-0.024913247
18	0.004273386	-0.023056801
18	0.00230411	-0.022961681
16	0.009531128	-0.011797406
16	0.007667009	-0.013277273
14	0.027972464	0.008540082
14	0.026199285	0.007963476
12	0.044322055	0.036093182
12	0.042937438	0.039429153
10	0.189377419	0.17307481
10	0.188113869	0.166511063
8	0.459943913	0.510248961
8	0.463212763	0.498041313

2 zijdig	T.toets	0.922244
1 zijdig		0.461122

mm	U [%] 20C	U [%] 40C
22.9	36.50037	42.31158
22.9	39.64293	43.28872
22.9	39.69317	
20	39.49609	43.93716
20	39.06009	44.18578
18	39.03089	44.19267
18	38.36124	44.25468
16	42.85402	45.12268
16	42.85405	45.20742
14	40.899	44.55432
14	40.42282	44.90337
12	44.12031	46.16964
12	44.06431	47.62793
10	52.12011	51.05801
10	52.15975	52.07032
8	61.2338	65.50739
8	61.34473	66.6699

2 zijdig	T.toets	0.155487
1 zijdig		0.077743

$$t = \frac{(\sum D)/N}{\sqrt{\frac{\sum D^2 - \frac{(\sum D)^2}{N}}{(N-1)(N)}}$$

BIJLAGE 9

Omgevingstemp 22,9 mm

Aantal stukken van de waaier verwijderd		Gem. Test(mm)											
Aantal stukken van de waaier verwijderd		Diameter	Temp	Niveau PV	Output 20 °C	Niveau SP				ΔP (voor-na) 20 °C		flow	
0	23			21.75000177	59.8861871	39.64292708	60	0.293493	0.301114	0.2385	-0.007638393	0.062688	22.0881 59.88619
0	23			22.55232927	59.90333	39.69316706	60	0.294068	0.30299	0.240132	-0.008848463	0.062712	22.07965 59.90333
1	23			19.04751563	59.0001311	38.94982	60	0.302134	0.301278	0.229613	0.001054643	0.071668	21.6825 58.91896
1	23			20.21787436	59.2833015	41.70684341	60	0.306443	0.306252	0.238604	6.70608E-05	0.067545	22.99561 59.23506
2	23			21.62340818	59.4245499	42.58964457	60	0.305073	0.305202	0.240406	-0.000179472	0.065195	22.87742 59.28844
2	23			22.32414861	59.4623584	42.60909516	60	0.305745	0.307231	0.242249	-0.001486452	0.064914	22.86387 59.3049
3	23			19.56545222	59.3438503	42.31456966	60	0.309712	0.307288	0.234304	0.002419775	0.072852	22.3564 59.33228
3	23			20.68157388	59.8892104	41.29174365	60	0.298854	0.298482	0.234936	0.000524018	0.063387	22.23048 59.88667
4	23			19.35566148	59.3614945	44.11163781	60	0.307509	0.303704	0.238348	0.003839636	0.065661	22.7549 59.44112
4	23			20.95007803	59.2443803	44.30617312	60	0.306581	0.305138	0.240864	0.001436416	0.064288	22.85549 59.42803
5	23			21.25529214	59.3720639	45.56579519	60	0.306148	0.304451	0.238792	0.001588235	0.065851	22.82406 59.26197
5	23			21.8695099	59.37189	45.56833641	60	0.306221	0.30579	0.240329	0.000221795	0.065654	22.85077 59.27062
6	23			18.42668564	59.0318754	43.5271596	60	0.302248	0.297905	0.229239	0.004214949	0.068615	21.64606 58.91333
6	23			20.0389562	59.0367173	43.12397031	60	0.293787	0.291781	0.2312	0.001710214	0.060525	21.58147 59.08428
7	23			19.17860696	59.0551043	45.01921418	60	0.30392	0.300844	0.228089	0.002835696	0.072822	21.77468 58.92171
7	23			19.97375222	59.3317137	44.2031657	60	0.292642	0.291377	0.22897	0.001063852	0.062355	21.79947 59.27842
8	23			18.6752857	59.1839229	48.17625556	60	0.311515	0.306813	0.232018	0.004639372	0.074869	22.36667 59.19231
8	23			19.60687251	59.6826551	46.86560703	60	0.298678	0.295665	0.233145	0.003065405	0.062463	22.08432 59.53313

40 graden Celsius 22,9 mm

Aantal stukken van de waaier verwijderd		Gem. Test(mm)											
Aantal stukken van de waaier verwijderd		Diameter	Temp	Niveau PV	Output	Niveau SP				ΔP (voor-na)		flow	
0	23			39.12212943	58.9990841	43.31072222	60	0.312269	0.340222	0.273787	-0.027783229	0.066321	23.17652 58.99065
0	23			39.18654428	59.3114406	42.49014901	60	0.304008	0.330495	0.277063	-0.026489183	0.053487	22.94702 59.20777
1	23			39.21687925	59.2052589	44.16742451	60	0.313397	0.339568	0.281424	-0.026153083	0.058009	23.83038 59.12372
1	23			39.18561179	59.2736332	44.06356819	60	0.313542	0.340025	0.283396	-0.026643093	0.056077	23.77947 59.24187
2	23			39.43336071	59.3696213	45.04683115	60	0.312686	0.338719	0.279497	-0.026241257	0.059373	23.66066 59.25768
2	23			39.27196537	59.429364	44.91819379	60	0.312552	0.340308	0.282085	-0.028168634	0.058355	23.62919 59.31704
3	23			39.22716014	59.0588695	43.66164365	60	0.307839	0.3342	0.272572	-0.026198082	0.061406	22.86811 59.10633
3	23			39.39650345	58.9538307	43.1316	60	0.301789	0.32961	0.276094	-0.027982234	0.053373	22.78782 59.14866
4	23			39.27129694	59.3580813	46.35055461	60	0.311952	0.33778	0.279433	-0.025522087	0.057714	23.45534 59.25976
4	23			39.23906263	59.3175816	46.19879289	60	0.310687	0.337683	0.281247	-0.027169397	0.056385	23.49459 59.31226
5	23			39.48739369	59.2574627	47.71708618	60	0.314027	0.339785	0.280871	-0.025886866	0.05909	23.3765 59.15752
5	23			39.40972177	59.3516454	47.36060505	60	0.309139	0.335043	0.280389	-0.026042202	0.054719	59.10438 59.22383
6	23			39.34317823	59.1752348	47.89164005	60	0.314969	0.341	0.274845	-0.026239808	0.066492	23.00576 59.0706
6	23			39.14640599	59.2577573	46.97016733	60	0.304666	0.331092	0.277001	-0.026489579	0.054182	22.9984 59.22215
7	23			39.40840375	59.326756	49.79381314	60	0.313832	0.337709	0.27902	-0.024017426	0.059006	23.44772 59.21676
7	23			39.25263489	59.3685137	49.54426833	60	0.31119	0.334996	0.279177	-0.023900748	0.055761	23.37756 59.23033
8	23			39.38898139	59.3785021	51.4045354	60	0.31199	0.336759	0.280986	-0.024453097	0.055642	23.43894 59.34265
8	23			39.26680581	59.2221182	51.45997297	60	0.311182	0.336609	0.28083	-0.025391892	0.055976	23.48288 59.18008

Omgevingstemp 8 mm

Aantal stukken van de waaier verwijderd

Gem.

Test(mm)

Aantal stukken van de waaier verwijderd

Diameter

Temp

Niveau PV

Output

Niveau SP

ΔP (voor-na)

flow

0	8	20.51840117	59.17697754	61.2338	60	0.759632	0.299879	0.231971	0.459944	0.067984	21.71565	59.17698
0	8	22.61574914	59.13304432	61.34473	60	0.761449	0.298402	0.236563	0.463213	0.062034	21.72314	59.13304
1	8	19.50236144	59.37378129	59.28237	60	0.730689	0.297375	0.227317	0.433333	0.069998	21.56323	59.33612
1	8	21.48162741	59.57651748	59.32179	60	0.729981	0.291699	0.229834	0.43839	0.062032	21.55765	59.47994
2	8	22.44751	60.53786006	62.97582	60	0.762063	0.304998	0.239093	0.457373	0.065792	22.27987	60.35722
2	8	24.89913044	60.64457251	63.00171	60	0.763212	0.303665	0.243112	0.459014	0.060582	22.26932	60.37517
3	8	22.02426406	59.84878478	65.95876	60	0.787609	0.30586	0.24039	0.481586	0.065557	22.85962	59.83288
3	8	23.56802544	59.49537018	66.54725	60	0.800883	0.310319	0.245181	0.490477	0.065211	22.95789	59.4514
4	8	22.30940757	59.5405518	68.09791	60	0.806794	0.308048	0.24313	0.498202	0.064746	22.72328	59.63988
4	8	23.60691883	59.69513039	68.411	60	0.811381	0.310357	0.24604	0.501597	0.064591	22.7788	59.72039
5	8	22.25946856	59.77163085	68.93945	60	0.807965	0.314624	0.237302	0.493406	0.077432	22.38032	59.69745
5	8	23.41017249	60.39035673	67.29055	60	0.785791	0.301501	0.238775	0.484557	0.062858	22.06316	60.26446
6	8	20.92172794	59.17484005	66.40117	60	0.741616	0.302703	0.230915	0.438817	0.071685	21.83066	59.06387
6	8	21.47950969	59.78312339	70.21757	60	0.785735	0.303994	0.238435	0.481629	0.065557	22.84321	59.6824
7	8	20.79218432	59.69452764	70.80032	60	0.794514	0.309814	0.234427	0.485053	0.075101	22.41709	59.61921
7	8	23.01181909	60.35170505	69.73621	60	0.775548	0.300223	0.237474	0.475564	0.062755	22.26202	60.17969
8	8	20.62891796	59.86084987	71.99505	60	0.776057	0.305083	0.235701	0.471412	0.069359	22.36744	59.77382
8	8	21.85260364	60.06667006	72.38357	60	0.782137	0.303167	0.23969	0.478943	0.063676	22.54915	59.94055

40 Graden Celsius 8 mm

Aantal stukken van de waaier verwijderd

Gem.

Test(mm)

Aantal stukken van de waaier verwijderd

Diameter

Temp

Niveau PV

Output

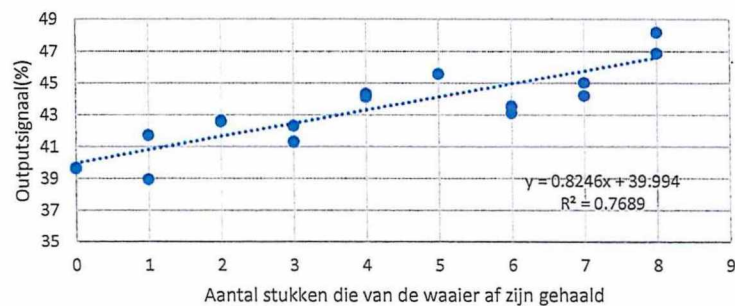
Niveau SP

ΔP (voor-na)

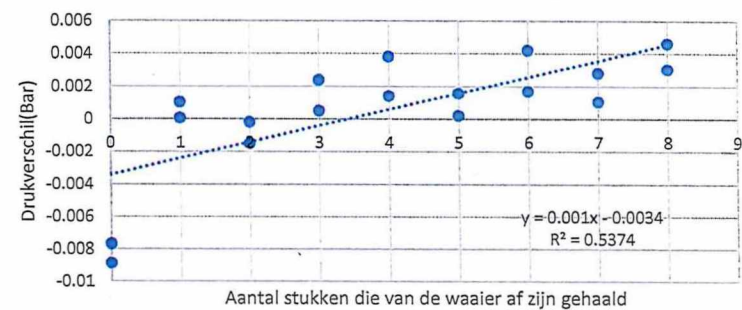
flow

0	8	38.80813636	59.40552033	66.73734	60	0.842919	0.332497	0.270476	0.510249	0.062184	22.8276	59.35898
0	8	39.27707953	60.11939248	65.5559	60	0.825134	0.326729	0.274875	0.498041	0.051631	22.55212	60.07039
1	8	39.35504787	60.09798761	63.75053	60	0.799183	0.323989	0.271683	0.475506	0.052165	22.45313	60.03722
1	8	39.40514726	59.99483338	63.72846	60	0.798059	0.325084	0.273884	0.473121	0.051091	22.45865	59.94615
2	8	39.7571248	60.36005545	67.0968	60	0.821951	0.333232	0.277641	0.488901	0.055789	23.15888	60.2298
2	8	39.25984259	59.5156515	67.59921	60	0.828796	0.334832	0.279036	0.493645	0.055363	23.25123	59.39258
3	8	39.24481575	59.30754303	69.5463	60	0.844293	0.339812	0.282436	0.504312	0.057232	23.53815	59.25779
3	8	39.26452002	59.14181677	69.64524	60	0.844513	0.339393	0.283177	0.505178	0.056589	23.56606	59.14182
4	8	39.40525641	59.68515476	71.25185	60	0.854166	0.335041	0.276781	0.519051	0.058058	23.49767	59.64074
4	8	39.25595917	59.56852583	70.03084	60	0.834052	0.337068	0.276391	0.497228	0.060717	23.1781	59.50874
5	8	39.70326316	60.46988847	71.75681	60	0.840872	0.329372	0.274767	0.511308	0.054783	22.97373	60.35981
5	8	39.38775679	60.04776642	72.03244	60	0.844763	0.331374	0.277453	0.513521	0.053636	22.97226	59.9095
6	8	39.59112337	59.75770973	74.42914	60	0.844009	0.33744	0.27704	0.506125	0.060604	23.69457	59.70861
6	8	39.26248161	59.52303432	74.41905	60	0.842655	0.338511	0.280231	0.503917	0.057863	23.64545	59.51225
7	8	39.63471278	60.24415541	75.0081	60	0.843158	0.331216	0.275649	0.511808	0.055787	23.28811	60.16978
7	8	39.29607223	60.12933035	74.87138	60	0.844433	0.333164	0.27757	0.511248	0.055706	23.24566	60.00046
8	8	39.66013991	60.13050612	77.29892	60	0.84283	0.334621	0.277809	0.508288	0.057246	23.47156	60.00415
8	8	39.60490187	59.99427423	77.21223	60	0.839899	0.335842	0.280564	0.503646	0.055279	23.43374	59.91457

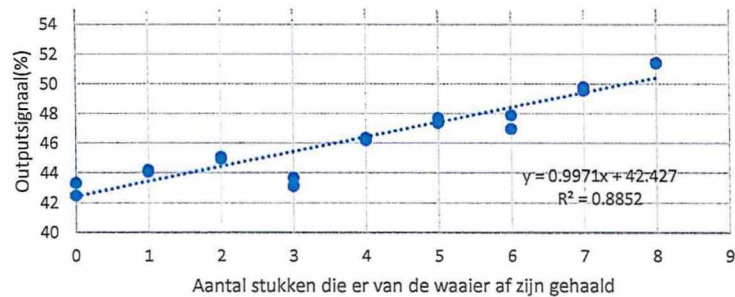
Outputsignaal(%)=f(aantal stukken die van de waaier zijn afgehaald) bij omgevingstemperatuur



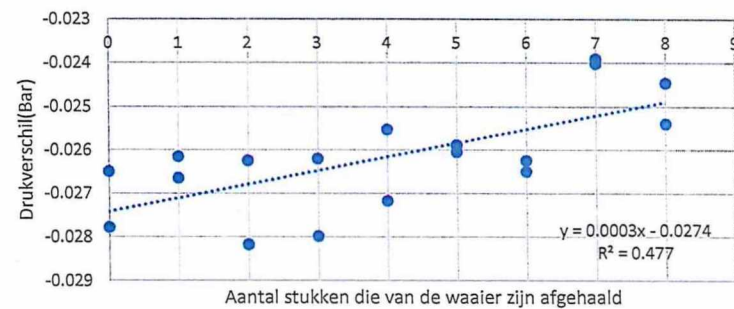
Drukverschil(bar)= f(aantal stukken die van de waaier zijn afgehaald) bij omgevingstemperatuur



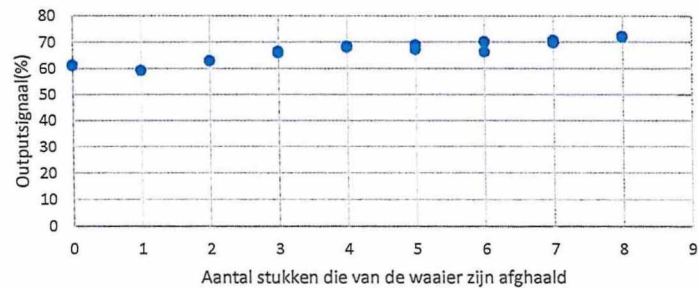
Outputsignaal(%)=f(aantal stukken die van de waaier zijn afgehaald) bij 40 graden celsius



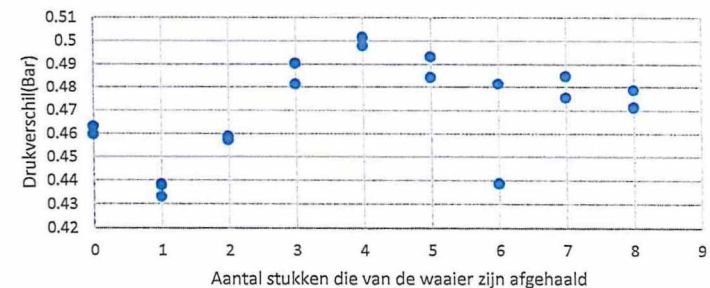
Drukverschil(bar)= f(aantal stukken die van de waaier zijn afgehaald) bij 40 graden celsius



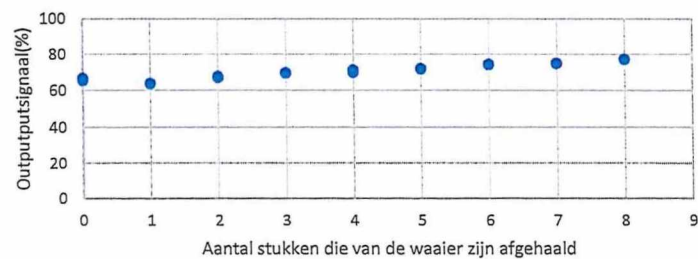
Outputsignaal(%)=f(aantal stukken die van de waaier zijn afgehaald) bij omgevingstemperatuur



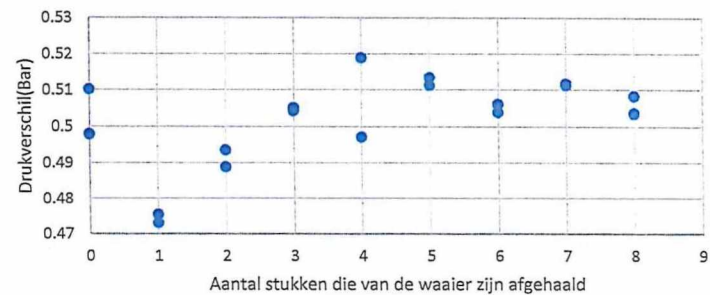
Drukverschil(bar)= f(aantal stukken die van de waaier zijn afgehaald) bij omgevingstemperatuur



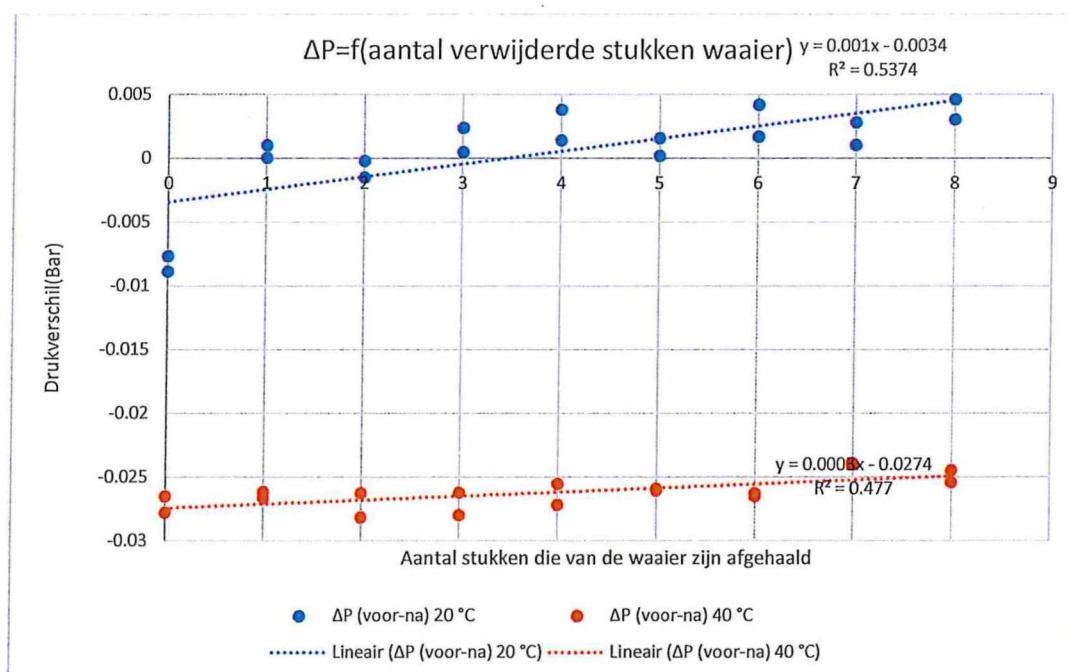
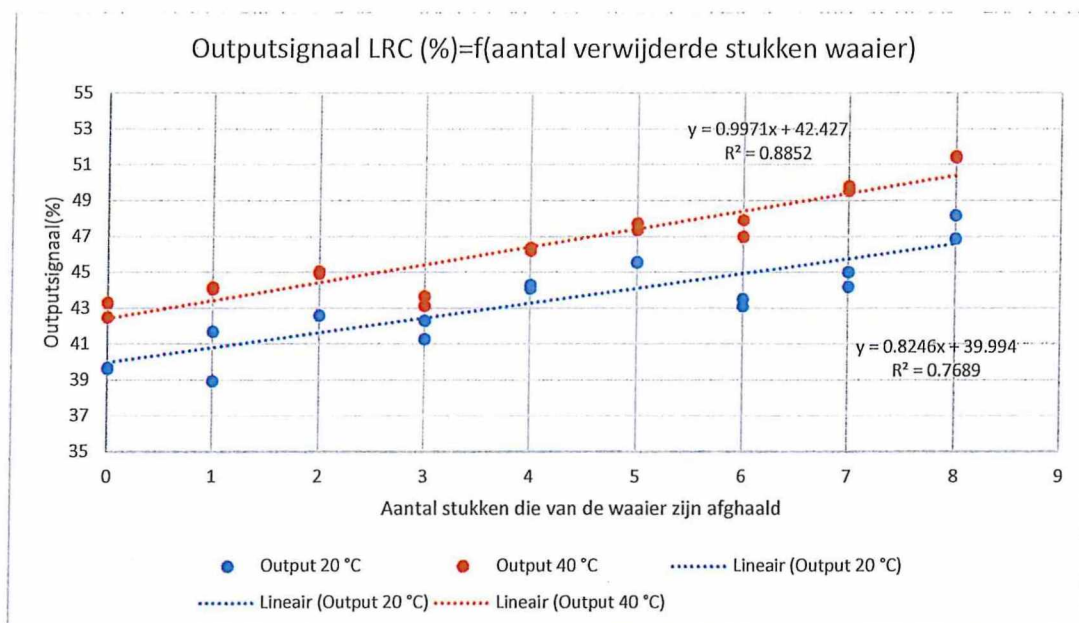
Outputsignaal(%)=f(aantal stukken die van de waaier zijn afgehaald) bij 40 graden celsius

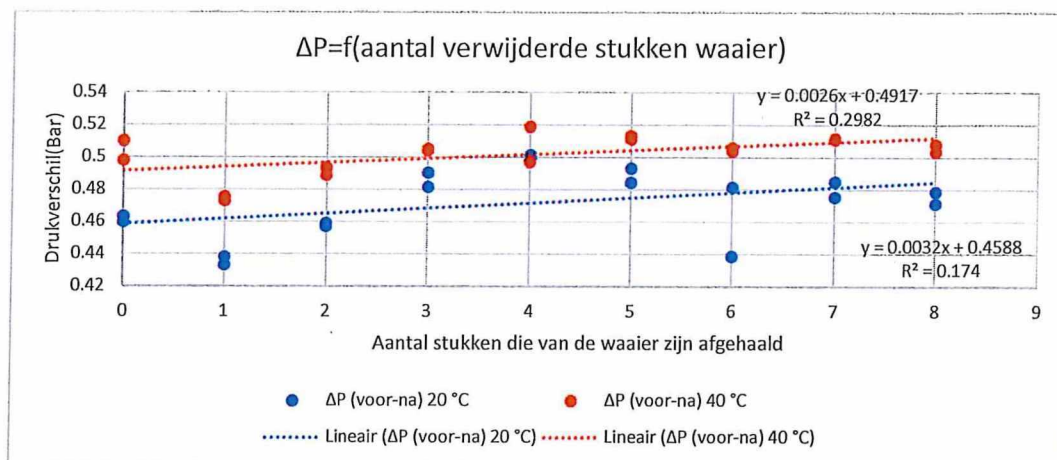
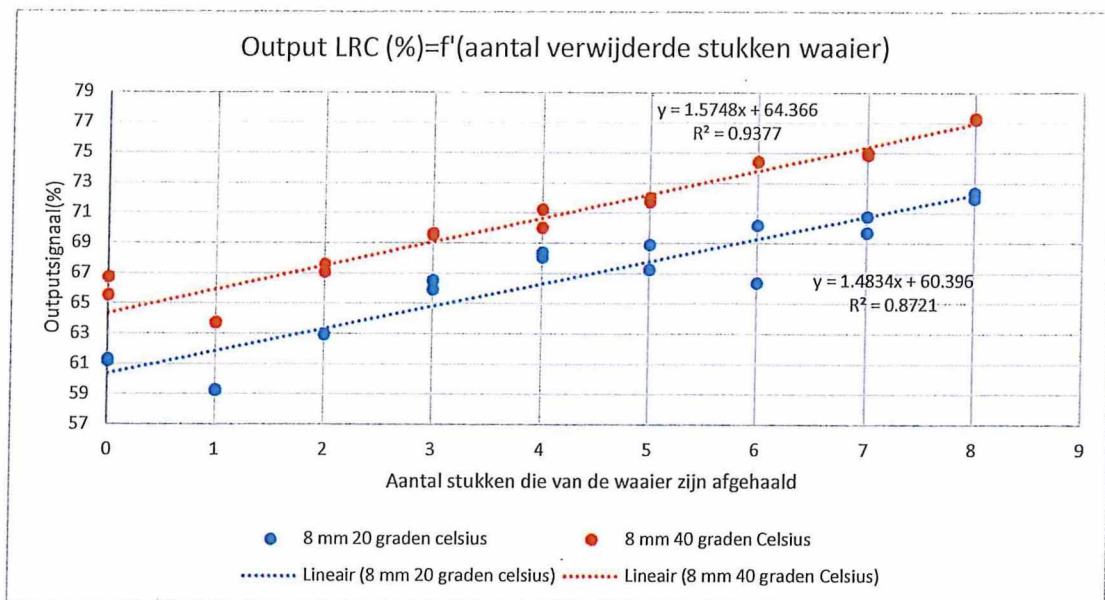


Drukverschil(bar)= f(aantal stukken die van de waaier zijn afgehaald) bij 40 graden celsius



8 mm				
Aantal stukken van de waaier verwijderd	Output 20 °C	ΔP (voor-na) 20 °C	Output 40 °C	ΔP (voor-na) 40 °C
0	61.23380159	0.459943913	66.73734154	0.510248961
0	61.34472525	0.463212763	65.55589918	0.498041313
1	59.28236952	0.433333226	63.75052806	0.475506269
1	59.32178941	0.438390084	63.7284623	0.473121351
2	62.97582268	0.457372524	67.09679626	0.488901246
2	63.00171315	0.459014343	67.59921226	0.493644959
3	65.95876406	0.481586258	69.54629916	0.504312101
3	66.54725351	0.490476754	69.6452398	0.505177778
4	68.09791377	0.498202295	71.25185116	0.519051163
4	68.41100071	0.501597173	70.03084215	0.497227686
5	68.93944681	0.493406383	71.75681046	0.511307507
5	67.29054708	0.484557018	72.0324399	0.513520925
6	66.40117048	0.438816705	74.42914005	0.506125113
6	70.21756949	0.481628953	74.41905	0.503916591
7	70.80031508	0.485052764	75.00810216	0.511808378
7	69.73620889	0.475563702	74.87137717	0.511247977
8	71.9950478	0.471411886	77.29892232	0.508287768
8	72.38356638	0.478942938	77.21223497	0.503645706





Diameter: 22,9 mm

20 graden output	40 graden output	20 graden druk	40 graden druk
39.64292708	43.31072222	-0.007638393	-0.027783229
39.69316706	42.49014901	-0.008848463	-0.026489183
38.94982	44.16742451	0.001054643	-0.026153083
41.70684341	44.06356819	6.70608E-05	-0.026643093
42.58964457	45.04683115	-0.000179472	-0.026241257
42.60909516	44.91819379	-0.001486452	-0.028168634
42.31456966	43.66164365	0.002419775	-0.026198082
41.29174365	43.1316	0.000524018	-0.027982234
44.11163781	46.35055461	0.003839636	-0.025522087
44.30617312	46.19879289	0.001436416	-0.027169397
45.56579519	47.71708618	0.001588235	-0.025886866
45.56833641	47.36060505	0.000221795	-0.026042202
43.5271596	47.89164005	0.004214949	-0.026239808
43.12397031	46.97016733	0.001710214	-0.026489579
45.01921418	49.79381314	0.002835696	-0.024017426
44.2031657	49.54426833	0.001063852	-0.023900748
48.17625556	51.4045354	0.004639372	-0.024453097
46.86560703	51.45997297	0.003065405	-0.025391892
0.000625307		2.775E-26	
0.001250614		5.55001E-26	

Diameter: 8 mm

20 graden output	40 graden output	20 graden druk	40 graden druk
61.23380159	66.73734154	0.459943913	0.510248961
61.34472525	65.55589918	0.463212763	0.498041313
59.28236952	63.75052806	0.433333226	0.475506269
59.32178941	63.7284623	0.438390084	0.473121351
62.97582268	67.09679626	0.457372524	0.488901246
63.00171315	67.59921226	0.459014343	0.493644959
65.95876406	69.54629916	0.481586258	0.504312101
66.54725351	69.6452398	0.490476754	0.505177778
68.09791377	71.25185116	0.498202295	0.519051163
68.41100071	70.03084215	0.501597173	0.497227686
68.93944681	71.75681046	0.493406383	0.511307507
67.29054708	72.0324399	0.484557018	0.513520925
66.40117048	74.42914005	0.438816705	0.506125113
70.21756949	74.41905	0.481628953	0.503916591
70.80031508	75.00810216	0.485052764	0.511808378
69.73620889	74.87137717	0.475563702	0.511247977
71.9950478	77.29892232	0.471411886	0.508287768
72.38356638	77.21223497	0.478942938	0.503645706
T.t 1zijde	0.002234522	3.56529E-06	
T.t 2 zijde	0.004469044	7.13058E-06	

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Outputsignaal naar de pomp(%)	Warm
39.7878	43.0744
38.9632	43.0737
38.4606	43.0737
39.3516	42.396
39.0087	43.0521
39.5794	43.05
39.1786	43.0442
39.2791	43.0442
39.3501	43.0442
39.5514	43.0442
39.364	43.0435
39.364	43.0435
39.3869	43.0435
39.3945	43.0435
39.3949	43.0349
39.4753	43.0328
39.4753	43.0292
39.4753	43.0292
39.4753	42.923
39.4753	43.0069
39.4753	42.996
39.4753	42.991
39.4753	42.991
39.56	42.991
39.5705	42.991
39.5705	42.991
..	..

Drukverschil over meter 1&2 / orifice (bar)	Warm
-0.0109	-0.0362
-0.0145	-0.0253
-0.0109	-0.0326
-0.0109	-0.0289
-0.0109	-0.0326
-0.0109	-0.0326
-0.0109	-0.0289
-0.0072	-0.0289
-0.0109	-0.0362
-0.0109	-0.0289
-0.0072	-0.0253
-0.0072	-0.0326
-0.0145	-0.0326
-0.0109	-0.0362
-0.0072	-0.0217
0	-0.0253
-0.0109	-0.0326
-0.0036	-0.0326
-0.0109	-0.0326
-0.0072	-0.0289
0	-0.0326
-0.0072	-0.0326
-0.0072	-0.0289
-0.0036	-0.0289
-0.0072	-0.0289
-0.0072	-0.0326
..	..

t-toets output 1.3E-39
t-toets drukverschil 3.37E-27

Outputsignaal naar de pomp(%)	Warm
39.5486	44.3502
39.5407	44.3502
39.5248	44.3502
39.4988	44.3502
39.4988	44.3502
39.4988	44.3502
39.4988	44.3502
39.4988	44.3502
39.4988	44.3502
39.4988	44.3502
39.4952	44.3502
39.4952	44.3502
39.4952	44.3502
39.4952	44.3502
39.4952	44.3502
39.4808	44.3466
39.4743	44.3466
39.4743	44.3466
39.4679	44.3466
39.3175	44.3466
39.4592	44.3466
39.4311	44.3466
39.4564	44.3459
39.4564	44.3459
39.4564	44.3459
39.4485	44.3459
39.445	44.3459
39.445	44.3593
39.445	44.3593
..	..

Drukverschil over meter 1&2 / orifice (bar)	Warm
0.0036	-0.0253
-0.0036	-0.0217
0	-0.0253
-0.0036	-0.0217
0	-0.0289
-0.0036	-0.0326
0.0036	-0.0253
0	-0.0326
-0.0036	-0.0253
0	-0.0253
-0.0036	-0.0289
0	-0.0217
0	-0.0326
-0.0036	-0.0253
0	-0.0253
-0.0036	-0.0217
0	-0.0289
0	-0.0289
-0.0072	-0.0253
0.0036	-0.0289
0	-0.0289
0	-0.0217
0.0036	-0.0253
0	-0.0253
0	-0.0253
0	-0.0253
0	-0.0326
0	-0.0289
0	-0.0217
..	..

t-toets output 3.50917E-60
t-toets drukverschil 1.54815E-35

Warm	Outputsignaal naar de pomp(%)
43.6828	42.9309
43.996	42.9309
43.9953	42.9281
43.3032	42.9245
43.9521	42.9245
43.9521	42.9209
43.9442	42.5811
43.9392	42.8942
43.9183	42.8892
43.9183	42.8769
43.9118	42.8769
43.9068	42.8748
43.9068	42.8611
43.8974	42.8575
43.8974	42.8575
43.8888	42.8539
43.8888	42.8482
43.8888	42.8482
43.8765	42.8446
43.87	42.8352
43.8383	42.8352
43.8376	42.6863
43.8376	42.828
43.821	42.828
43.7936	42.828
43.7914	42.8244
43.2946	42.8122
43.7792	42.8086
43.6317	42.805
..	..

Warm	Drukverschil over meter 1&2 / orifice (bar)
-0.0217	0.0072
-0.0217	0.0109
-0.0217	0.0036
-0.0217	0.0072
-0.0181	0.0072
-0.0181	0.0109
-0.0181	0
-0.0181	0.0109
-0.0145	0.0072
-0.0181	0.0109
-0.0145	0.0072
-0.0181	0.0072
-0.0217	0.0109
-0.0217	0.0109
-0.0217	0.0072
-0.0217	0.0145
-0.0145	0.0072
-0.0181	0.0109
-0.0181	0.0109
-0.0253	0.0181
-0.0217	0.0109
-0.0217	0.0109
-0.0217	0.0109
-0.0217	0.0036
-0.0181	0.0072
-0.0217	0.0109
-0.0217	0.0072
-0.0253	0.0072
-0.0181	0.0072
..	..

t-toets output 1.83E-27
t-toets drukverschil 1.34E-38

Outputsignaal naar de pomp(%)	Warm
41.7477	45.9443
41.1301	45.9443
41.7009	45.9443
41.7175	45.932
41.7139	45.2572
41.7132	45.9039
41.7132	45.9039
41.7132	45.9039
41.6973	45.9039
41.6973	45.8952
41.6786	45.8952
41.5109	45.8952
41.6231	45.8952
41.6109	45.8736
41.6058	45.8736
41.5619	45.8736
41.5705	45.8585
41.5705	45.8585
41.5619	45.8585
41.5179	45.8585
41.5179	45.8585
41.5144	45.8585
41.5144	45.8585
41.5144	45.8585
41.5021	45.8585
41.5021	45.8585
41.4971	45.8585
41.4971	45.8585
41.4971	45.8585
..	..

Drukverschil over meter 1&2 / orifice (bar)	Warm
0.0289	0.0072
0.0289	0.0072
0.0253	0.0109
0.0253	0.0072
0.0289	0.0072
0.0253	0.0109
0.0289	0.0072
0.0289	0.0072
0.0289	0.0072
0.0289	0.0036
0.0289	0.0072
0.0253	0.0072
0.0326	0.0109
0.0289	0.0072
0.0289	0.0036
0.0289	0.0036
0.0217	0.0109
0.0326	0.0072
0.0289	0.0072
0.0253	0.0072
0.0289	0.0109
0.0253	0.0109
0.0326	0.0036
0.0289	0.0072
0.0289	0.0072
0.0253	0.0036
0.0326	0.0072
0.0289	0.0072
0.0289	0.0072
..	..

t-toets output 1.11E-71
t-toets drukverschil 8.04E-38

Warm	Outputsignaal naar de pomp(%)
46.6285	44.326
46.6264	44.326
46.6257	44.326
46.6177	44.326
46.1079	44.326
46.5615	44.3065
46.5355	44.3065
46.4995	44.3065
46.4894	44.3001
46.402	44.3001
46.4541	44.295
46.4433	44.295
46.4433	44.295
46.4433	44.2726
45.6933	44.2726
45.9292	44.2726
46.3509	44.2726
46.0884	44.2726
46.1941	44.2597
46.3235	44.2597
45.8245	44.2597
46.3055	44.2597
46.2774	44.2597
46.3027	44.2597
46.2912	44.2532
46.2912	44.2532
46.2912	44.2532
46.2891	44.2525
46.2689	44.2525
..	.

Warm	Drukverschil over meter 1&2 / orifice (bar)
0.0326	0.0434
0.0326	0.047
0.0253	0.047
0.0289	0.047
0.0326	0.047
0.0326	0.047
0.0326	0.047
0.0289	0.0434
0.0326	0.0434
0.0362	0.047
0.0326	0.0398
0.0326	0.047
0.0289	0.0434
0.0289	0.0398
0.0362	0.047
0.0289	0.047
0.0326	0.0434
0.0289	0.0434
0.0289	0.047
0.0289	0.047
0.0289	0.0434
0.0289	0.0434
0.0326	0.047
0.0326	0.047
0.0326	0.047
0.0326	0.047
0.0289	0.0434
0.0362	0.047
0.0362	0.047
..	..

t-toets output 9.52861E-29
t-toets drukverschil 1.6604E-27

Outputsignaal naar de pomp(%)	Warm
52.2528	52.43
52.2528	52.43
52.2528	52.43
52.2528	52.43
52.2528	52.43
52.2528	52.43
52.2528	52.43
52.2528	52.43
52.2521	52.43
52.2521	52.43
52.2521	52.43
52.2521	52.5636
52.2521	52.4333
52.2521	52.4333
52.2521	52.4333
52.2521	52.4333
52.2456	52.4333
52.2456	52.4333
52.2456	52.4333
52.2456	52.4333
52.2456	52.4333
52.2456	52.4333
52.2456	52.4333
52.2456	52.4333
52.2456	52.4945
52.2456	52.4945
52.2456	52.5007
52.2619	52.5007
52.2619	52.5007
..	..

Drukverschil over meter 1&2 / orifice (bar)	Warm
0.1917	0.1772
0.1917	0.1736
0.1881	0.1772
0.1953	0.1808
0.1917	0.1845
0.1917	0.1736
0.1917	0.1772
0.1917	0.1772
0.1881	0.1772
0.1917	0.1808
0.1917	0.1808
0.1917	0.1808
0.1881	0.1736
0.1917	0.1736
0.1917	0.1736
0.1881	0.17
0.1881	0.1736
0.1917	0.1736
0.1881	0.1736
0.1953	0.17
0.1917	0.1808
0.1917	0.1736
0.1881	0.1772
0.1881	0.1772
0.1917	0.1772
0.1881	0.1808
0.1989	0.1736
0.1953	0.1808
0.1917	0.1736
..	..

t-toets output 8.11443E-24
t-toets drukverschil 2.62307E-23

Op basis van omgevingstemperatuur

22,9 mm 0 stuk	22,9mm 1 stuk	t-toets	8mm 0 stuk	8mm 1 stuk	t-toets
39.6234	39.5174	1.383E-23	61.1385	59.2309	6.61E-62
39.6234	39.5174		61.2055	59.2309	
39.6234	39.5167		61.2055	59.2309	
39.6234	39.5087		61.2055	59.2661	
39.6234	39.5087		61.2055	59.2661	
39.6234	39.5087		61.2055	59.2661	
39.6234	39.1768		61.2063	59.2751	
39.6234	39.49		61.2226	59.2751	
39.6234	39.49		61.3005	59.2751	
39.6234	39.4546		61.3005	59.2751	
39.6234	39.42		61.3005	59.7017	
39.6234	39.4186		61.3005	59.2857	
39.6234	39.4164		61.3005	59.2857	
39.6234	39.4164		61.3005	59.2857	
39.6234	39.4164		61.3143	59.2857	
39.6234	39.4164		61.3143	59.353	
39.6234	39.4049		61.3883	59.3997	
39.6234	39.3999		61.3883	59.3997	
39.6234	39.0788		61.5168	59.3997	
39.6234	39.3638		61.5168	59.4074	
39.6234	39.3486		61.5168	59.4074	
39.6234	39.345		61.5168	59.4074	
39.6234	39.345		61.5621	59.4222	
39.6234	39.345		61.5621	59.4222	
39.6234	39.345		61.5621	59.4222	
39.6234	39.345		61.5621	59.4222	
39.6234	39.3342		61.5621	59.4222	
39.6234	39.3306		61.5621	59.4222	
39.6234	39.3306		61.5621	59.4222	
39.6234	39.3306		61.5683	59.4222	
39.6234	39.3306		61.5683	59.4222	
39.6234	39.3075		61.5683	59.4222	
39.6234	39.2845		61.5683	59.4222	
39.6234	39.2744		61.5683	59.4222	
39.7328	39.2744		61.5683	59.4222	
39.7328	39.2485		61.5683	59.4222	
39.7328	39.2485		61.6212	59.4222	
39.7328	39.2485		61.6212	59.4222	
39.7328	39.2485		61.6212	59.4222	
39.7328	39.2478		61.6212	59.4222	
39.7328	39.2478		61.6997	59.4222	
39.7328	39.2478		61.6997	59.4222	
39.7328	39.0823		61.6997	59.4222	
39.7328	39.224		61.8076	59.4222	
**	**		**	**	

Op basis van omgevingstemperatuur

22,9mm 1 stuk	22,9mm 2 stuk	t-toets	8mm 1 stuk	8mm 2 stuk	t-toets
39.5174	42.974	1.978E-105	59.2309	63.1585	2.23E-83
39.5174	42.9661		59.2309	63.1585	
39.5167	42.9163		59.2309	63.1748	
39.5087	42.6798		59.2661	63.1748	
39.5087	42.878		59.2661	63.1897	
39.5087	42.8708		59.2661	63.1897	
39.1768	42.8658		59.2751	63.1915	
39.49	42.3075		59.2751	63.1915	
39.49	42.8493		59.2751	63.1915	
39.4546	42.8471		59.2751	63.1915	
39.42	42.8313		59.7017	63.1977	
39.4186	42.8233		59.2857	63.1977	
39.4164	42.8233		59.2857	63.1977	
39.4164	42.8233		59.2857	63.1977	
39.4164	42.8118		59.2857	63.1977	
39.4164	42.7981		59.353	63.1977	
39.4049	42.7916		59.3997	63.1996	
39.3999	42.7895		59.3997	64.3879	
39.0788	42.7895		59.3997	63.2496	
39.3638	42.6442		59.4074	63.2833	
39.3486	42.765		59.4074	63.2833	
39.345	42.7288		59.4074	63.2833	
39.345	42.7267		59.4222	63.2833	
39.345	42.7217		59.4222	63.2833	
39.345	42.7217		59.4222	63.2833	
39.345	42.7195		59.4222	63.2833	
39.3342	42.7195		59.4222	63.2833	
39.3306	42.708		59.4222	63.2833	
39.3306	42.6574		59.4222	63.2833	
39.3306	42.6481		59.4222	63.2833	
39.3306	42.6445		59.4222	63.2833	
39.3075	42.6445		59.4222	63.2833	
39.2845	42.6279		59.4222	63.2833	
39.2744	42.6279		59.4222	63.3401	
39.2744	42.5961		59.4222	63.3401	
39.2485	42.5911		59.4222	63.3401	
39.2485	42.5911		59.4222	63.3401	
39.2485	42.5911		59.4222	63.3401	
39.2485	42.5911		59.4222	63.3401	
39.2478	42.5911		59.4222	63.3401	
39.2478	42.5832		59.4222	63.3401	
39.2478	42.5832		59.4222	63.3401	
39.0823	42.5832		59.4222	63.3401	
39.224	42.5832		59.4222	63.3477	
39.224	42.5832		59.4222	63.3477	
39.224	42.5832		59.4222	63.3477	
39.224	42.5832		59.4222	63.3477	
..	..		..	..	

Op basis van omgevingstemperatuur

22,9mm 1 s	22,9mm 3stuk	t-toets	8mm 1 stu	8mm 3stuk	t-toets
39.5174	42.619	2.94259E-71	59.2309	66.7303	2.95E-96
39.5174	42.619		59.2309	66.7303	
39.5167	42.619		59.2309	66.7303	
39.5087	42.619		59.2661	66.7303	
39.5087	42.619		59.2661	66.7303	
39.5087	42.619		59.2661	66.7303	
39.1768	42.619		59.2751	66.7303	
39.49	42.619		59.2751	66.7303	
39.49	42.619		59.2751	66.7303	
39.4546	42.619		59.2751	66.7303	
39.42	42.619		59.7017	66.7303	
39.4186	42.619		59.2857	66.7303	
39.4164	42.619		59.2857	66.7303	
39.4164	42.619		59.2857	66.7336	
39.4164	42.619		59.2857	66.7336	
39.4164	42.6223		59.353	66.7336	
39.4049	42.6223		59.3997	66.7336	
39.3999	42.6223		59.3997	66.7336	
39.0788	42.6223		59.3997	66.7644	
39.3638	42.6223		59.4074	66.7644	
39.3486	42.6223		59.4074	66.7644	
39.345	42.6223		59.4074	66.7644	
39.345	42.6223		59.4222	66.7644	
39.345	42.6223		59.4222	66.7644	
39.345	42.6223		59.4222	66.7644	
39.345	42.6223		59.4222	66.7644	
39.345	42.6223		59.4222	66.7644	
39.3342	42.6223		59.4222	66.7644	
39.3306	42.6223		59.4222	66.7644	
39.3306	42.6637		59.4222	66.7644	
39.3306	42.6477		59.4222	66.7644	
39.3306	42.6477		59.4222	66.7644	
39.3075	42.6477		59.4222	66.7644	
39.2845	42.6477		59.4222	66.7644	
39.2744	42.6477		59.4222	66.7644	
39.2744	42.6477		59.4222	66.7644	
39.2485	42.6477		59.4222	66.7644	
39.2485	42.6477		59.4222	66.7644	
39.2485	42.6477		59.4222	66.7644	
39.2485	42.6477		59.4222	66.7644	
39.2485	42.6477		59.4222	66.7644	
39.2478	42.6477		59.4222	66.7644	
39.2478	42.6477		59.4222	66.7644	
39.2478	42.6477		59.4222	66.7644	
39.0823	42.6477		59.4222	66.7644	
39.224	42.6477		59.4222	66.7644	
39.224	42.6477		59.4222	66.7644	
39.224	42.6477		59.4222	66.7644	
39.224	42.6477		59.4222	66.7644	
..	..		..	..	

Op basis van omgevingstemperatuur

22,9mm 1 stuk	22,9mm 4 stuk	t-toets	8mm 1 stu	8mm 4stu	t-toets
39.5174	44.3037	3.35E-84	59.2309	68.0041	2.9E-116
39.5174	44.4051		59.2309	68.0041	
39.5167	44.385		59.2309	68.0638	
39.5087	43.8273		59.2661	68.0638	
39.5087	44.367		59.2661	68.0638	
39.5087	44.3432		59.2661	68.0638	
39.1768	44.3346		59.2751	68.0638	
39.49	44.3237		59.2751	68.0638	
39.49	44.2775		59.2751	68.0638	
39.4546	43.8053		59.2751	68.0638	
39.42	44.2111		59.7017	68.0638	
39.4186	44.1801		59.2857	68.0638	
39.4164	44.2196		59.2857	68.0638	
39.4164	44.2023		59.2857	68.0638	
39.4164	44.1987		59.2857	68.0657	
39.4164	44.177		59.353	68.0657	
39.4049	44.177		59.3997	68.0657	
39.3999	44.1525		59.3997	68.0657	
39.0788	44.1453		59.3997	68.095	
39.3638	44.1446		59.4074	68.107	
39.3486	44.131		59.4074	68.107	
39.345	44.1264		59.4074	68.107	
39.345	44.1141		59.4222	68.107	
39.345	44.1141		59.4222	68.107	
39.345	44.1091		59.4222	68.107	
39.345	44.068		59.4222	68.107	
39.3342	44.0933		59.4222	68.107	
39.3306	44.0601		59.4222	68.1247	
39.3306	44.0601		59.4222	68.1247	
39.3306	44.0478		59.4222	68.1247	
39.3306	44.0478		59.4222	68.1247	
39.3075	43.457		59.4222	68.1247	
39.2845	43.7362		59.4222	68.1247	
39.2744	43.9922		59.4222	68.1247	
39.2744	43.9922		59.4222	68.1247	
39.2485	43.9922		59.4222	68.1247	
39.2485	43.9858		59.4222	68.1247	
39.2485	43.9858		59.4222	68.1247	
39.2485	43.2907		59.4222	68.1247	
39.2478	43.9468		59.4222	68.1247	
39.2478	43.9468		59.4222	68.1247	
39.2478	43.9468		59.4222	68.1247	
39.0823	43.9049		59.4222	68.1247	
39.224	43.9049		59.4222	68.1247	
39.224	43.9049		59.4222	68.1247	
39.224	43.9049		59.4222	68.1247	
39.224	43.9049		59.4222	68.1247	
..	..		..	..	

Op basis van omgevingstemperatuur

22,9mm 1 stuk	22,9mm 5stuk	t-toets	8mm 1 stuk	8mm 5stuk	t-toets
39.5174	45.6869	1.2E-126	59.2309	68.8563	5.6E-102
39.5174	45.6869		59.2309	68.8563	
39.5167	45.6869		59.2309	68.8563	
39.5087	45.6974		59.2661	68.8563	
39.5087	45.7528		59.2661	68.8563	
39.5087	45.7528		59.2661	68.8563	
39.1768	45.7528		59.2751	68.8563	
39.49	45.7528		59.2751	68.8563	
39.49	45.7528		59.2751	68.8563	
39.4546	45.7647		59.2751	68.8802	
39.42	45.7647		59.7017	68.8802	
39.4186	45.7647		59.2857	68.8802	
39.4164	45.8057		59.2857	68.8802	
39.4164	45.8057		59.2857	68.8802	
39.4164	45.8057		59.353	68.8802	
39.4049	45.8148		59.3997	68.8802	
39.3999	45.8528		59.3997	68.8802	
39.0788	45.8528		59.3997	68.8802	
39.3638	45.8528		59.4074	68.8802	
39.3486	45.8528		59.4074	68.8802	
39.345	45.8734		59.4074	68.8802	
39.345	45.8734		59.4222	68.8994	
39.345	45.8984		59.4222	68.8994	
39.345	45.8984		59.4222	68.8994	
39.345	45.8984		59.4222	68.8994	
39.3342	45.8984		59.4222	68.8994	
39.3306	45.9017		59.4222	68.8994	
39.3306	45.9017		59.4222	68.8994	
39.3306	45.9017		59.4222	68.8994	
39.3306	45.9017		59.4222	68.8994	
39.3075	45.9017		59.4222	68.8994	
39.2845	45.9017		59.4222	68.8994	
39.2744	45.9017		59.4222	68.8994	
39.2744	45.9017		59.4222	68.8994	
39.2485	45.9017		59.4222	68.8994	
39.2485	45.9017		59.4222	68.8994	
39.2485	45.9017		59.4222	68.8994	
39.2485	45.9017		59.4222	68.8994	
39.2478	45.9017		59.4222	68.8994	
39.2478	45.9017		59.4222	68.8994	
39.2478	45.9017		59.4222	68.8994	
39.0823	45.9017		59.4222	68.8994	
39.224	45.9017		59.4222	68.8994	
39.224	45.9017		59.4222	68.8994	
39.224	45.9017		59.4222	68.8994	
39.224	45.9017		59.4222	68.8994	
..	..		..	..	

Op basis van omgevingstemperatuur

22,9mm 1 stuk	22,9mm 6stuk	t-toets	8mm 1 stuk	8mm 6stuk	t-toets
39.5174	44.5561	4.16887E-63	59.2309	65.4599	4.96E-50
39.5174	44.5561		59.2309	64.8402	
39.5167	44.5561		59.2309	64.9544	
39.5087	44.5561		59.2661	64.3823	
39.5087	44.5561		59.2661	66.8696	
39.5087	44.5554		59.2661	66.8501	
39.1768	44.5554		59.2751	65.7942	
39.49	44.5554		59.2751	65.0546	
39.49	44.5554		59.2751	66.2366	
39.4546	44.5236		59.2751	66.1327	
39.42	44.5229		59.7017	65.5589	
39.4186	44.5165		59.2857	65.4428	
39.4164	44.4862		59.2857	66.2574	
39.4164	44.4559		59.2857	65.8224	
39.4164	44.4559		59.2857	65.9383	
39.4164	44.252		59.353	66.132	
39.4049	44.396		59.3997	66.1516	
39.3999	44.396		59.3997	66.4169	
39.0788	44.1856		59.3997	66.3388	
39.3638	44.3722		59.4074	66.3867	
39.3486	44.3722		59.4074	66.5268	
39.345	44.2784		59.4074	66.6434	
39.345	44.3543		59.4222	66.7458	
39.345	44.3356		59.4222	66.7458	
39.345	44.314		59.4222	66.7458	
39.345	44.3118		59.4222	66.7458	
39.3342	44.304		59.4222	66.7458	
39.3306	44.2997		59.4222	66.7665	
39.3306	44.2709		59.4222	66.7684	
39.3306	43.3704		59.4222	66.8035	
39.3306	44.1097		59.4222	66.8035	
39.3075	44.2493		59.4222	66.8357	
39.2845	44.2457		59.4222	66.8357	
39.2744	44.2176		59.4222	66.8535	
39.2744	44.1996		59.4222	66.8535	
39.2485	44.1643		59.4222	66.893	
39.2485	44.1722		59.4222	66.893	
39.2485	44.1564		59.4222	66.9285	
39.2485	44.1528		59.4222	67.0041	
39.2478	44.1413		59.4222	67.0041	
39.2478	44.119		59.4222	67.0041	
39.2478	44.119		59.4222	67.0041	
39.0823	42.6738		59.4222	67.0175	
39.224	44.0626		59.4222	67.0175	
39.224	44.0626		59.4222	67.0194	
39.224	43.5072		59.4222	67.0194	
39.224	44.0468		59.4222	67.0328	
..	..		..	..	

Op basis van omgevingstemperatuur

22,9mm 1 stuk	22,9mm 7 stuk	t-toets	8mm 1 stuk	8mm 7stu	t-toets
39.5174	45.0813	2E-101	59.2309	70.828	3.9E-152
39.5174	45.0758		59.2309	70.828	
39.5167	45.6646		59.2309	70.828	
39.5087	45.6343		59.2661	70.828	
39.5087	45.6026		59.2661	70.828	
39.5087	44.9864		59.2661	70.828	
39.1768	45.3026		59.2751	70.828	
39.49	45.5376		59.2751	70.828	
39.49	44.8759		59.2751	70.8602	
39.4546	45.4748		59.2751	70.8602	
39.42	45.4611		59.7017	70.8602	
39.4186	45.4611		59.2857	70.8602	
39.4164	45.4575		59.2857	70.8602	
39.4164	45.4344		59.2857	70.8602	
39.4164	44.5195		59.2857	70.9387	
39.4164	45.3926		59.353	70.9387	
39.4049	44.9934		59.3997	70.9387	
39.3999	45.3637		59.3997	70.9387	
39.0788	45.3637		59.3997	70.942	
39.3638	45.3637		59.4074	70.9468	
39.3486	45.3558		59.4074	70.9468	
39.345	45.3537		59.4074	70.9468	
39.345	45.3385		59.4222	70.9468	
39.345	45.3385		59.4222	70.9468	
39.345	45.3385		59.4222	70.9544	
39.345	45.3349		59.4222	70.9544	
39.3342	45.3349		59.4222	70.9544	
39.3306	45.3284		59.4222	70.9544	
39.3306	45.3284		59.4222	70.9544	
39.3306	45.3248		59.4222	70.9544	
39.3306	45.3227		59.4222	70.9544	
39.3075	45.3227		59.4222	70.9544	
39.2845	45.236		59.4222	70.9544	
39.2744	45.3205		59.4222	70.9544	
39.2744	45.3205		59.4222	70.9544	
39.2485	45.3205		59.4222	70.9544	
39.2485	45.3205		59.4222	70.9544	
39.2485	45.3205		59.4222	70.9544	
39.2485	45.3205		59.4222	70.9544	
39.2478	45.3205		59.4222	70.9544	
39.2478	45.3184		59.4222	70.9544	
39.2478	45.3163		59.4222	70.9544	
39.0823	45.3163		59.4222	70.9544	
39.224	45.3163		59.4222	70.9544	
39.224	45.3163		59.4222	70.9852	
39.224	45.3163		59.4222	70.9852	
39.224	45.3163		59.4222	70.9852	
**	**		**	**	

Op basis van omgevingstemperatuur

22,9mm 1 stuk	22,9mm 8 stuk	t-toets	8mm 1 stu	8mm 8stu	t-toets
39.5174	48.6791	2.24E-90	59.2309	72.312	1E-107
39.5174	48.6791		59.2309	72.312	
39.5167	48.6791		59.2309	72.312	
39.5087	48.6791		59.2661	72.312	
39.5087	48.6791		59.2661	72.3326	
39.5087	48.6791		59.2661	72.3326	
39.1768	48.6791		59.2751	72.3326	
39.49	48.6791		59.2751	72.3326	
39.49	48.6791		59.2751	72.3326	
39.4546	48.6791		59.2751	72.3591	
39.42	48.6791		59.7017	72.3591	
39.4186	48.6791		59.2857	72.3591	
39.4164	48.6791		59.2857	72.3591	
39.4164	48.6791		59.2857	72.3591	
39.4164	48.6791		59.353	72.3591	
39.4049	48.6791		59.3997	72.3609	
39.3999	48.6791		59.3997	72.3609	
39.0788	48.6791		59.3997	72.3609	
39.3638	48.6791		59.4074	72.3609	
39.3486	48.6791		59.4074	72.3609	
39.345	48.6791		59.4074	72.3609	
39.345	48.6791		59.4222	72.3609	
39.345	48.6791		59.4222	72.3609	
39.345	48.6791		59.4222	72.3609	
39.345	48.6791		59.4222	72.3609	
39.3342	48.6791		59.4222	72.3609	
39.3306	48.6791		59.4222	72.3609	
39.3306	48.6791		59.4222	72.3609	
39.3306	48.6791		59.4222	72.3609	
39.3075	48.6791		59.4222	72.3609	
39.2845	48.6791		59.4222	72.3609	
39.2744	48.6791		59.4222	72.3609	
39.2744	48.6791		59.4222	72.3609	
39.2485	48.6791		59.4222	72.3609	
39.2485	48.6791		59.4222	72.3609	
39.2485	48.6791		59.4222	72.3609	
39.2485	48.6791		59.4222	72.3609	
39.2478	48.6791		59.4222	72.3609	
39.2478	48.6791		59.4222	72.3609	
39.2478	48.6784		59.4222	72.3609	
39.0823	48.6784		59.4222	72.3609	
39.224	48.6784		59.4222	72.3609	
39.224	48.6784		59.4222	72.3609	
39.224	48.6784		59.4222	72.3609	
39.224	48.6784		59.4222	72.3609	
..	..		..	..	

Gegevens 1	Gegevens 2
3	6
4	19
5	3
8	2
9	14
1	4
2	5
4	17
5	1
4.555555556	7.888888889
2.603416559	6.863753427
0.191995887	
81% zekerheid significant verschillend	

Gegevens 1	Gegevens 2
12	40
13	41
14	43
11	41
10	40
14	45
15	43
14	42
13	41
12.88888889	41.77777778
1.615893286	1.6414763
4.80169E-17	
100 % zekerheid significant verschillend	

Een T-toets is een statistische toets die gebruikt wordt om na te gaan of het gemiddelde van een normaal verdeelde grootheid afwijkt van een bepaalde waarde.
Hoe groter de T-toets, hoe groter de kans is dat er geen significant verschil is tussen beide metingen.
Hoe kleiner de T-toets, groter de kans is dat er wel een significant verschil is tussen beide metingen.

[illegible]

De andere passies van andere metineen staan digitaal.

De gegevens van de andere metingen staan digitaal

Kamer temperatuur										40 Celcius									
Diameter	dichtgeest [%]	ΔP (voor-na) 20 °C	ΔP (voor-na) best fit 20 °C	Afvalde Δp	Afvalde van U	U [%]	U [%]	Best Fit	Afvalde van U	Diameter	dichtgeest [%]	ΔP (voor-na) 40 °C	ΔP (voor-na) best fit 40 °C	Afvalde to 40 °C	U [%]	U [%]	Best Fit	Afvalde van U 40°C	
23	0	-0.006520584	-0.00204191	-5.85165E-05	1.27E-02	36.50036676	38.7603327	38.7603327	1.27E-02	23	0	-0.027783229	-0.001343324	-0.000374168	42.31157881	43.260801	43.260801	-1.32089E+00	
23	0	-0.007678193	-0.00204191	-5.85165E-05	1.27E-02	39.64792708	38.7603327	38.7603327	1.27E-02	23	0	-0.076489183	-0.001343324	-0.000374168	43.28871866	43.260801	43.260801	-1.32089E+00	
23	0	-0.00848463	-0.00204191	-5.85165E-05	1.27E-02	39.69316706	38.7603327	38.7603327	1.27E-02	23	0	-0.076489183	-0.000901116	-0.000518626	43.375771	43.375771	43.375771	-1.32089E+00	
22	8	-0.001968898	-0.00145018	-9.1178E-05	-3.52E-02	38.77087623	38.83385034	38.83385034	-9.26E-02	22	8	-0.0002948	0.000558675	-0.000715532	43.488434	43.623479	43.623479	-2.897208E+00	
21	16.3	-0.001851905	-0.00145018	-9.1178E-05	-3.52E-02	39.4920854	38.96	38.96	-1.62E-01	21	16.3	-0.020750648	0.000558675	-0.00018065	43.623479	43.623479	43.623479	-4.851591E+00	
20	24	-0.00163754	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	20	24	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
19	31	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	19	31	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
18	38	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	18	38	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
17	45	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	17	45	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
16	51	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	16	51	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
15	57	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	15	57	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
14	62.5	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	14	62.5	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
13	67.6	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	13	67.6	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
12	72.5	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	12	72.5	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
11	77.5	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	11	77.5	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
10	81	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	10	81	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
9	84.5	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	9	84.5	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
8	87.7	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	8	87.7	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	
8	87.7	-0.00165863	-0.00145018	-9.1178E-05	-3.52E-02	39.6209514	38.96	38.96	-1.62E-01	8	87.7	-0.024913347	0.000558675	-0.00018065	44.18578009	44.18578009	44.18578009	-8.85120E+00	

alpha	2.1947623E-03
theta	6.0276728E-01
eta	1.2859840E+00
cappa	9.1354276E+00

$$y = \alpha + \frac{\theta x^\eta}{\kappa^\eta + x^\eta}$$

a	2.69E+01
b	3.48E+01
c	2.04E+03

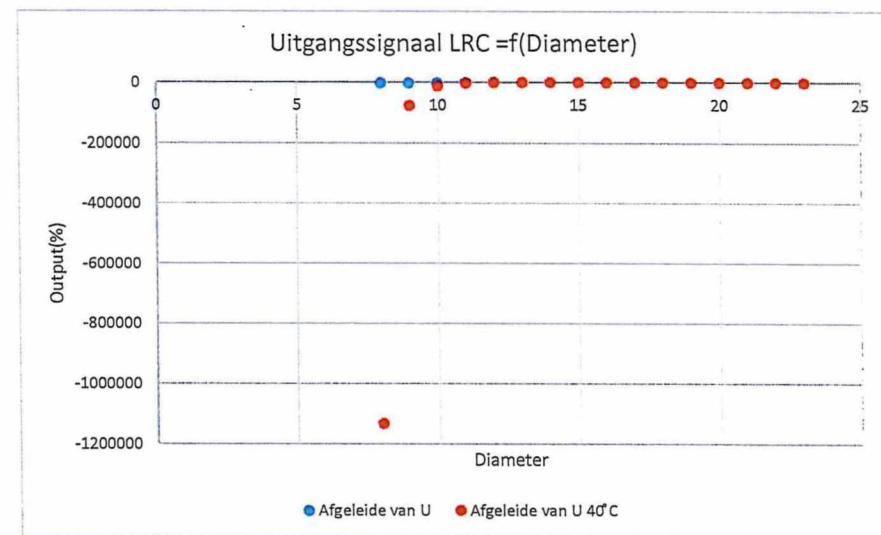
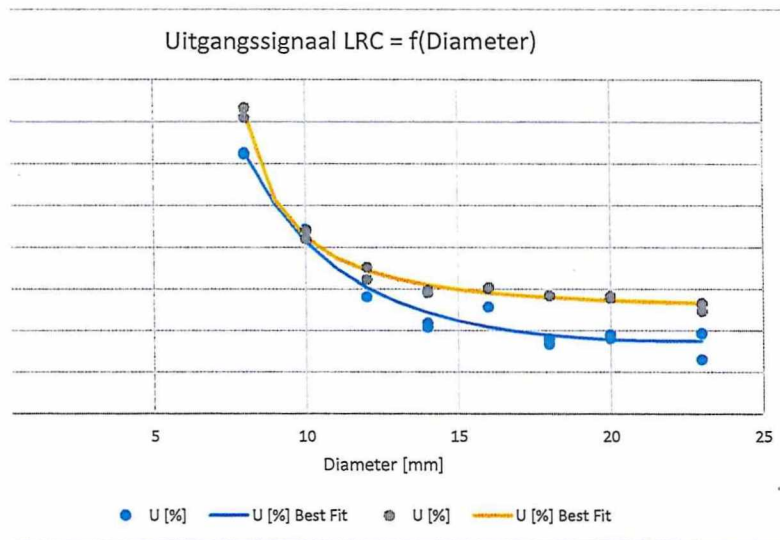
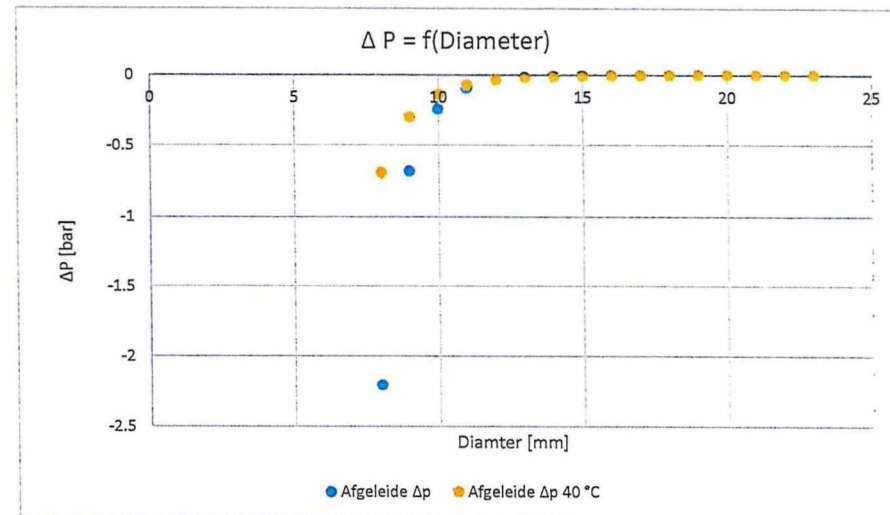
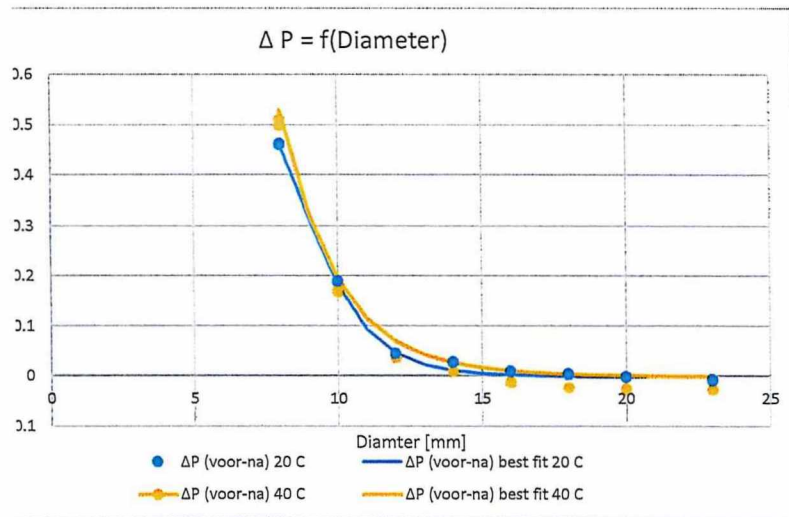
$$y = a + bx + c/x^2$$

alpha	-2.7526571E-02
theta	1.2859840E+00
eta	-6.126298E+00
cappa	7.556431E+00

$$y = \alpha + \frac{\theta x^\eta}{\kappa^\eta + x^\eta}$$

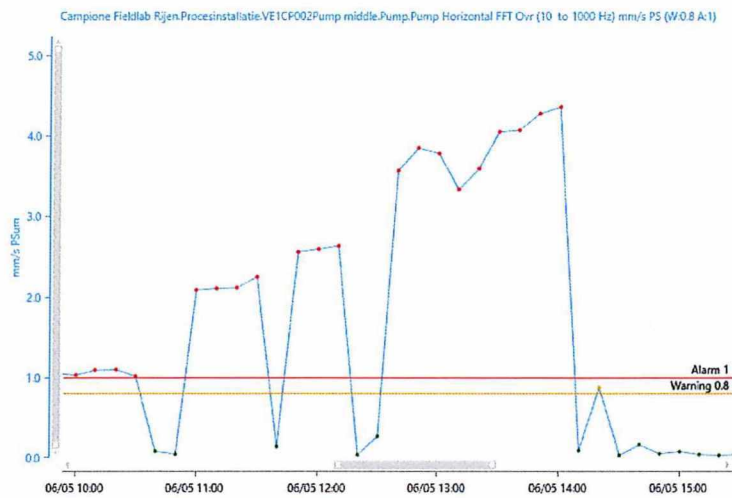
a	-9.031618E-03
b	6.11795E-05
theta	2.587208E+00

$$y = x(a + bx^\theta)^{-1/\theta}$$

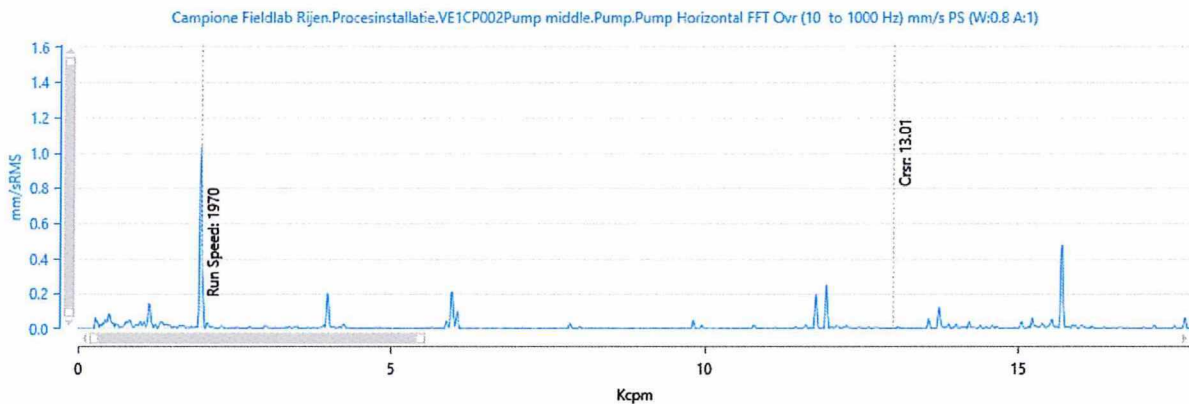


Formule 1 en 3	$\frac{\partial}{\partial x} \left(a + \left(\frac{0}{k^n} x^n + x^2 \right) \right) = n k^{-n} x^{n-1} (k^n + 0)$
Formule 2	
Formule 4	$b - (2c/x^3)$
Bron	$a(a+bx^o)^{-(o+1)}/o$
	https://www.wolframalpha.com/widgets/view.jsp?id=227a2baa99202a93cacf8bbda2d083e1

Bijlage 17

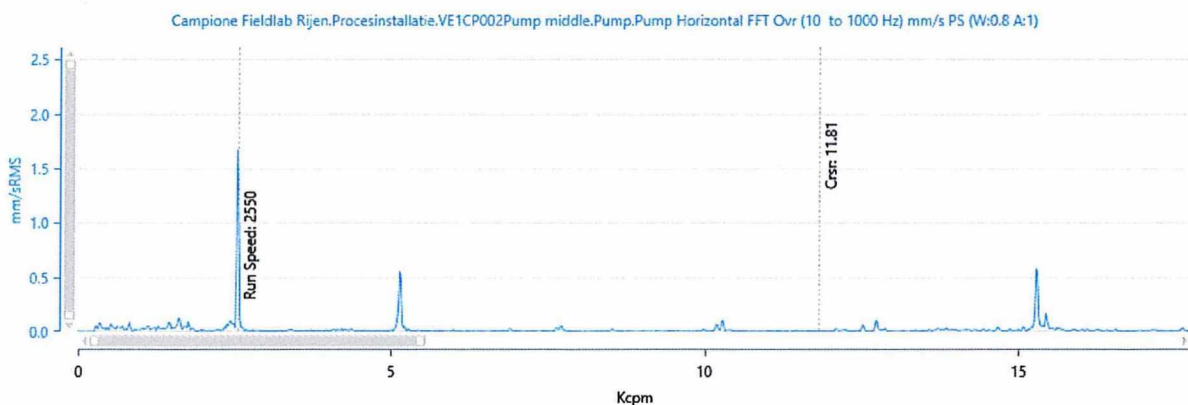


← trend 6/5/2020

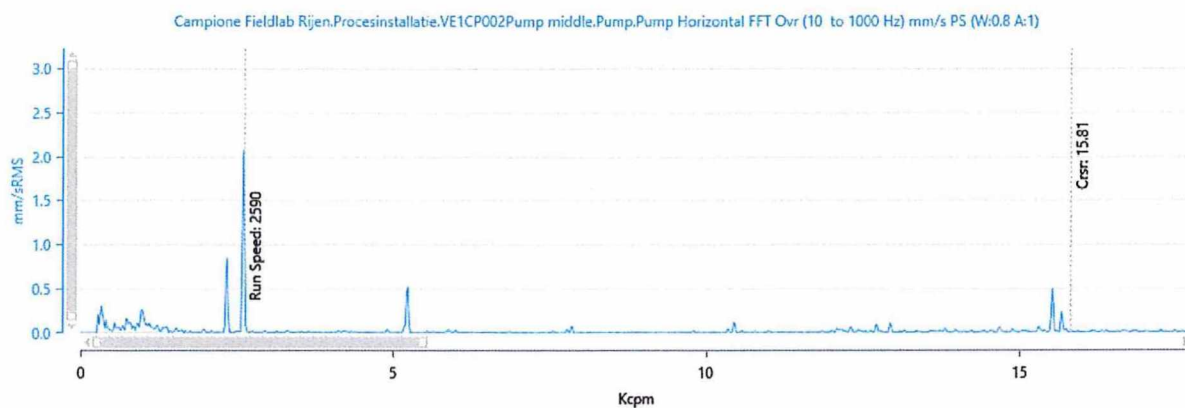


← meting 6/5/2020 11:50AM. Toerental is 1970rpm amplitude 1mm/sec

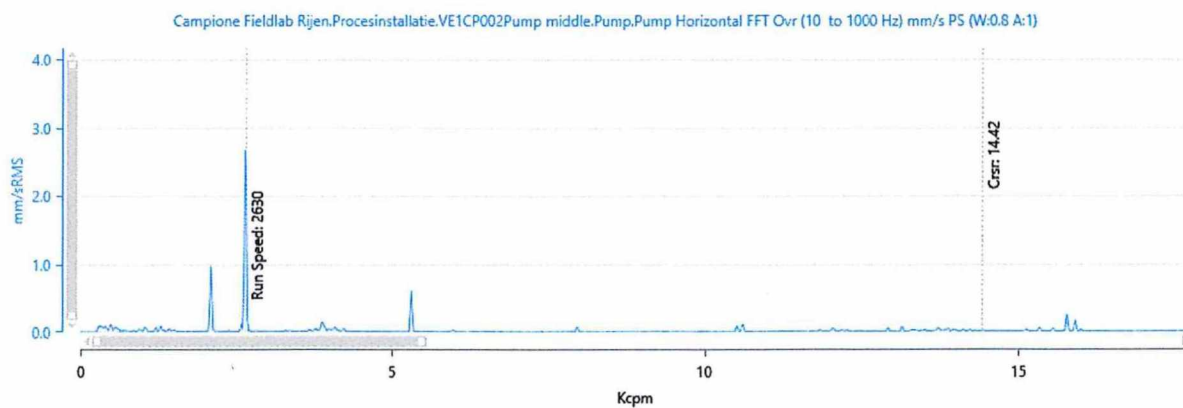
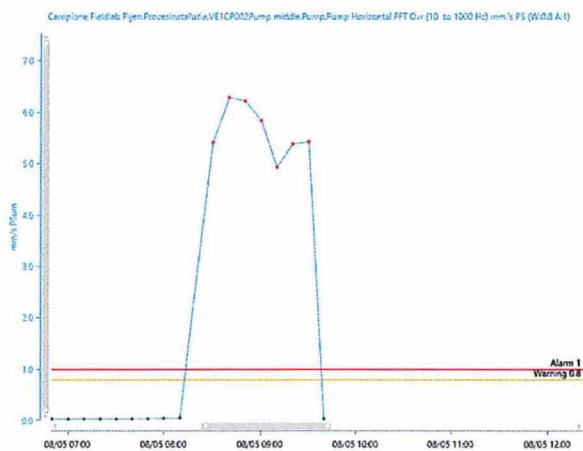
← trend 8/5/2020



← meting 6/5/2020 12:40PM. Toerental is 2550rpm amplitude 1,5mm/sec, toename onbalans. Er is dus een verhoging, probeer voor jezelf een verklaring te vinden in relatie tot wanneer je de waaier hebt aangepast.



← meting 6/5/2020 14:40PM Toerental is 2590rpm, amplitude 2,1mm/sec, verdere toename onbalans.



← meting 8/5/2020 08:30AM Toerental is 2590rpm, amplitude 2,7mm/sec, verdere toename onbalans t.o.v. 6/5/2020.