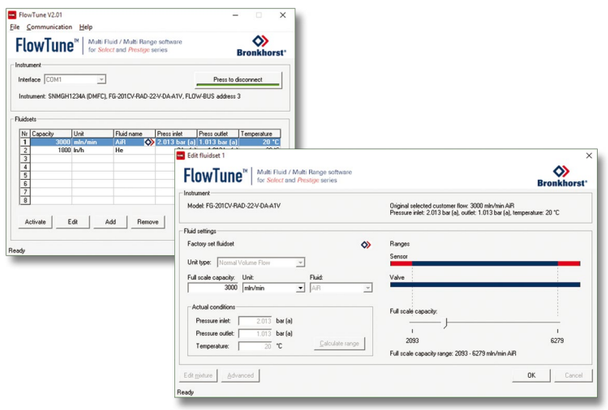
> Table with minimum and maximum flow ranges for EL-FLOW® *Select* instruments suitable for Multi Fluid / Multi Range functionality (valid for operating conditions from 0.8 to 10 bar abs and 0 to 70°C)

EL-FLOW *Select* MFM Model #	EL-FLOW *Select* MFC Model #	Air flow ranges Minimum/Nominal/Maximum		Min/Max flow ranges for other gases Ar	CH_4	C_2H_6	CO	CO_2	H_2	He	N_2	N_2O	O_2	
F-110C - 002	F-200CV - 002 [1]	Min. 0.014 - 0.7 ml_n/min Nom. 0.014 - 2 ml_n/min Max. 0.014 - 5 ml_n/min	Min	0.02 - 1	0.012 - 0.6	0.008 - 0.4	0.014 - 0.7	0.012 - 0.6	0.014 - 0.7	0.02 - 1	0.014 - 0.7	0.012 - 0.6	0.014 - 0.7	ml_n/min
			Max	0.02 - 6	0.012 - 3.5	0.008 - 2	0.014 - 5	0.012 - 3	0.014 - 5	0.02 - 7	0.014 - 5	0.012 - 3	0.014 - 5	
F-110C - 005	F-200CV - 005 [1]	Min. 0.06 - 3 ml_n/min Nom. 0.06 - 5 ml_n/min Max. 0.06 - 9 ml_n/min	Min	0.07 - 3.5	0.04 - 2	0.028 - 1.4	0.06 - 3	0.04 - 2	0.06 - 3	0.07 - 3.5	0.06 - 3	0.04 - 2	0.06 - 3	
			Max	0.07 - 9.5	0.04 - 5.5	0.028 - 4	0.06 - 9	0.04 - 4.5	0.06 - 7.2	0.07 - 10	0.06 - 9	0.04 - 4.5	0.06 - 9	
F-111B - 020	F-201CV - 020	Min. 0.16 - 8 ml_n/min Nom. 0.16 - 20 ml_n/min Max. 0.16 - 30 ml_n/min	Min	0.2 - 10	0.11 - 5.5	0.08 - 4	0.16 - 8	0.14 - 7	0.144 - 7.2	0.2 - 10	0.16 - 8	0.12 - 6	0.16 - 8	
			Max	0.2 - 30	0.11 - 18	0.08 - 13	0.16 - 30	0.14 - 16	0.144 - 25	0.2 - 35	0.16 - 30	0.12 - 16	0.16 - 30	
F-111B - 050	F-201CV - 050	Min. 0.4 - 20 ml_n/min Nom. 0.4 - 50 ml_n/min Max. 0.4 - 75 ml_n/min	Min	0.54 - 27	0.34 - 17	0.22 - 11	0.4 - 20	0.3 - 15	0.42 - 21	0.56 - 28	0.4 - 20	0.3 - 15	0.4 - 20	
			Max	0.54 - 75	0.34 - 47	0.22 - 34	0.4 - 75	0.3 - 39	0.42 - 65	0.56 - 90	0.4 - 75	0.3 - 38	0.4 - 73	
F-111B - 100	F-201CV - 100	Min. 0.8 - 40 ml_n/min Nom. 0.8 - 100 ml_n/min Max. 0.8 - 150 ml_n/min	Min	1.12 - 56	0.64 - 32	0.42 - 21	0.8 - 40	0.62 - 31	0.84 - 42	1.12 - 56	0.8 - 40	0.6 - 30	0.8 - 40	
			Max	1.12 - 150	0.64 - 95	0.42 - 70	0.8 - 150	0.62 - 79	0.84 - 130	1.12 - 180	0.8 - 150	0.6 - 77	0.8 - 140	
F-111B - 200	F-201CV - 200	Min. 1.6 - 80 ml_n/min Nom. 1.6 - 200 ml_n/min Max. 1.6 - 300 ml_n/min	Min	2.4 - 120	1.3 - 65	0.88 - 44	1.6 - 80	1.22 - 61	1.68 - 84	2.4 - 120	1.6 - 80	1.2 - 60	1.6 - 80	
			Max	2.4 - 300	1.3 - 190	0.88 - 140	1.6 - 300	1.22 - 150	1.68 - 260	2.4 - 360	1.6 - 300	1.2 - 150	1.6 - 290	
F-111B - 500	F-201CV - 500	Min. 4 - 200 ml_n/min Nom. 4 - 500 ml_n/min Max. 4 - 750 ml_n/min	Min	5.4 - 270	3.2 - 160	2.2 - 110	4 - 200	3 - 150	4.2 - 210	5.6 - 280	4 - 200	3 - 150	4 - 200	
			Max	5.4 - 750	3.2 - 470	2.2 - 340	4 - 750	3 - 390	4.2 - 650	5.6 - 900	4 - 750	3 - 380	4 - 730	
F-111B - 1K0	F-201CV - 1K0	Min. 8 - 400 ml_n/min Nom. 8 - 1000 ml_n/min Max. 8 - 1500 ml_n/min	Min	11.2 - 560	6.4 - 320	4.2 - 210	8 - 400	6.2 - 310	8.4 - 420	11.2 - 560	8 - 400	6 - 300	8 - 400	
			Max	11.2 - 1500	6.4 - 950	4.2 - 680	8 - 1500	6.2 - 790	8.4 - 1300	11.2 - 1800	8 - 1500	6 - 770	8 - 1400	
F-111B - 2K0	F-201CV - 2K0	Min. 16 - 800 ml_n/min Nom. 16 - 2000 ml_n/min Max. 16 - 3000 ml_n/min	Min	24 - 1200	13 - 650	8.8 - 440	16 - 800	12.2 - 610	16.8 - 840	24 - 1200	16 - 800	12 - 600	16 - 800	
			Max	24 - 3000	13 - 1900	8.8 - 1300	16 - 3000	12.2 - 1500	16.8 - 2600	24 - 3600	16 - 3000	12 - 1500	16 - 2900	
F-111B - 5K0	F-201CV - 5K0	Min. 0.04 - 2 l_n/min Nom. 0.04 - 5 l_n/min Max. 0.04 - 7.5 l_n/min	Min	0.054 - 2.7	0.032 - 1.6	0.022 - 1.1	0.04 - 2	0.03 - 1.5	0.042 - 2.1	0.056 - 2.8	0.04 - 2	0.03 - 1.5	0.04 - 2	
			Max	0.054 - 7.5	0.032 - 4.7	0.022 - 3.3	0.04 - 7.5	0.03 - 3.9	0.042 - 6.5	0.056 - 9	0.04 - 7.5	0.03 - 3.8	0.04 - 7.3	
F-111B - 10K	F-201CV - 10K	Min. 0.08 - 4 l_n/min Nom. 0.08 - 10 l_n/min Max. 0.08 - 15 l_n/min	Min	0.112 - 5.6	0.064 - 3.2	0.042 - 2.1	0.08 - 4	0.062 - 3.1	0.084 - 4.2	0.112 - 5.6	0.08 - 4	0.06 - 3	0.08 - 4	
			Max	0.112 - 15	0.064 - 9.5	0.042 - 6.9	0.08 - 15	0.062 - 7.9	0.084 - 13	0.112 - 18	0.08 - 15	0.06 - 7.7	0.08 - 14	
F-111B - 20K	F-201CV - 20K	Min. 0.16 - 8 l_n/min Nom. 0.16 - 20 l_n/min Max. 0.16 - 25 l_n/min	Min	0.2 - 10	0.13 - 6.5	0.088 - 4.4	0.16 - 8	0.122 - 6.1	0.168 - 8.4	0.24 - 12	0.16 - 8	0.12 - 6	0.16 - 8	
			Max	0.2 - 25	0.13 - 16	0.088 - 11	0.16 - 25	0.122 - 14	0.168 - 25	0.24 - 30	0.16 - 25	0.12 - 14	0.16 - 25	
F-111AC - 50K	F-201AV - 50K	Min. 0.4 - 20 l_n/min Nom. 0.4 - 50 l_n/min Max. 0.4 - 75 l_n/min	Min	0.54 - 27	0.32 - 16	0.22 - 11	0.4 - 20	0.3 - 15	0.42 - 21	0.56 - 28	0.4 - 20	0.3 - 15	0.4 - 20	l_n/min
			Max	0.54 - 75	0.32 - 47	0.22 - 34	0.4 - 75	0.3 - 39	0.42 - 65	0.56 - 90	0.4 - 75	0.3 - 38	0.4 - 73	
F-111AC - 70K	F-201AV - 70K	Min. 0.6 - 30 l_n/min Nom. 0.6 - 70 l_n/min Max. 0.6 - 100 l_n/min	Min	0.9 - 45	0.5 - 25	0.4 - 20	0.6 - 30	0.5 - 25	0.6 - 30	0.9 - 45	0.6 - 30	0.5 - 25	0.6 - 30	
			Max	0.9 - 100	0.5 - 60	0.4 - 45	0.6 - 100	0.5 - 50	0.6 - 90	0.9 - 125	0.6 - 100	0.5 - 50	0.6 - 90	
F-112AC - M10	F-202AV - M10 [1]	Min. 0.8 - 40 l_n/min Nom. 0.8 - 100 l_n/min Max. 0.8 - 150 l_n/min	Min	1.12 - 56	0.64 - 32	0.42 - 21	0.8 - 40	0.62 - 31	0.84 - 42	1.12 - 56	0.8 - 40	0.6 - 30	0.8 - 40	
			Max	1.12 - 150	0.64 - 95	0.42 - 68	0.8 - 150	0.62 - 79	0.84 - 130	1.12 - 180	0.8 - 150	0.6 - 77	0.8 - 140	
F-112AC - M20	F-202AV - M20 [1]	Min. 1.4 - 70 l_n/min Nom. 1.4 - 200 l_n/min Max. 1.4 - 250 l_n/min	Min	2 - 100	1.1 - 55	0.7 - 35	1.4 - 70	1 - 50	1.4 - 70	2 - 100	1.4 - 70	1 - 50	1.4 - 70	
			Max	2 - 250	1.1 - 170	0.7 - 120	1.4 - 250	1 - 130	1.4 - 200	2 - 300	1.4 - 250	1 - 130	1.4 - 250	
F-113AC - M50	F-203AV - M50 [1]	Min. 4 - 200 l_n/min Nom. 4 - 500 l_n/min Max. 4 - 750 l_n/min	Min	5.4 - 270	3.2 - 160	2.2 - 110	4 - 200	3 - 150	4.2 - 210	5.6 - 280	4 - 200	3 - 150	4 - 200	
			Max	5.4 - 750	3.2 - 470	2.2 - 340	4 - 750	3 - 390	4.2 - 650	5.6 - 900	4 - 750	3 - 380	4 - 730	
F-113AC - 1M0	F-203AV - 1M0 [1]	Min. 8 - 400 l_n/min Nom. 8 - 1000 l_n/min Max. 8 - 1670 l_n/min	Min	11.2 - 560	6.4 - 320	4.2 - 210	8 - 400	6.2 - 310	8.4 - 420	11.2 - 560	8 - 400	6 - 300	8 - 400	
			Max	11.2 - 1670	6.4 - 900	4.2 - 750	8 - 1500	6.2 - 850	8.4 - 1350	11.2 - 1850	8 - 1670	6 - 840	8 - 1500	

[1] Multi Gas / Multi Range option not available for these models

> Multi Gas / Multi Range features

- Rangeability up to 187,5 : 1
- Flexible, user-programmable ranges and gas types
- Easy-to-use configuration software
- Multi Gas / Multi Range functionality up to 10 bar; pressure rating up to 100 bar
- High accuracy and repeatability



> Notes

- Multi Gas / Multi Range is optional on the *Select* series and must be requested at the point of ordering
- Extended rangeability for digital communication only; turndown 50:1 when using analog I/O options
- The selected orifice of the control valve may limit the rangeability
- Standard accuracy (based on actual calibration): ±(0,5% RD + 0,1% FS); ±0,8% Rd plus ±0,2% FS for F-110C-005/F-200CV-005; ±2% FS for F-110C-002/F-200CV-002
- Maximum range for gases not mentioned in this list; rule of thumb: nominal range for Air x Conversion Factor; e.g. F-111B - 1K0: maximum range for SF_6 = 1000 x 0.27 = 270 ml_n/min
- Minimum range for gases not mentioned in this list; rule of thumb: minimum range for Air x Conversion Factor; e.g. F-111B - 1K0: minimum range for SF_6 = 400 x 0.27 = 108 ml_n/min
- The Conversion Factors for these calculations can be extracted from Fluidat on the Net (www.fluidat.com): Go to 'Flow calculations' and select "Gas Conversion factor'. Select 'Fluid from' and make sure 'Fluid to' is Air. Select the applicable instrument model from the pulldown menu. Then press 'Calculate' and look up the conversion factor from the table.