Expansion of Hong Kong International Airport into a Three-Runway System
Aircraft - Emission Indicies and Fuel Consumption Rates

Engine Emission List (extracted from IATA Schedule)

Engine Type	Engine name	Combuster Model (if any)	Out of Service (if)	Engine Type (J- Jet; T- Turboprop; P-Piston)	ICAO Engine	Mixed Turbofan	Bypass Ratio	Rated Engine Output (kN)	Unadjusted Fuel Flow - Takeoff	Unadjusted Fuel Flow - Climbout	Unadjusted Fuel Flow - Approach	Unadjusted Fuel Flow - Idle	CO Raw Emission Index - (Takeoff)	CO Raw Emission Index - (Climbout)	CO Raw Emission Index - (Approach)	CO Raw Emission Index (Idle)	HC Raw Emission Index - (Takeoff) [1]	HC Raw Emission Index - (Climbout) [1]	HC Raw Emission Index - (Approach) [1]	HC Raw Emission Index - (Idle) [1]	NOx Raw Emission Index - (Takeoff)	NOx Raw Emission Index - (Climbout)	NOx Raw Emission Index - (Approach)	NOx Raw Emission Index - (Idle)	Raw Smoke Number - (Takeoff)	Raw Smoke Number - (Climbout)	Raw Smoke Number - (Approach)	Raw Smoke Number - (Idle)	Scaled Smoke Number - (Takeoff)	Scaled Smoke Number - (Climbout)	Scaled Smoke Number - (Approach)	Scaled Smoke Number - (Idle)	PM Emission Index - (Takeoff) [2]	PM Emission Index - (Climbout) [2]	PM Emission Index - (Approach) [2]	PM Emission Index - (Idle) [2]	Engine Entry Into Service Year	Remarks
BR710A1-10	BR700-710A1-10		FALSE	J	TRUE	TRUE	4.200	65.610	0.713	0.594	0.214	0.089	1.040	0.930	4.780	27.820	0.020	0.020	0.050	1.090	18.790	15.070	7.680	4.690	13.990	11.920	0.290	0.560	0.290	0.560	13.990	11.920	0.374	0.350	0.051	0.064	1996	
BR710A2-20	BR700-710A2-20		FALSE	J	TRUE	TRUE	4.190	65.610	0.714	0.595	0.214	0.089	1.040	0.930	4.810	28.000	0.020	0.020	0.050	1.120	18.730	15.030	7.670	4.670	13.960	11.870	0.270	0.570	0.270	0.570	13.960	11.870	0.372	0.348	0.051	0.065	1996	
CF34-10E5A1	CF34-10E5A1	SAC	FALSE	J	TRUE	FALSE	5.090	83.700	0.870	0.717	0.239	0.088	0.890	0.770	4.020	41.730	0.050	0.090	0.100	4.020	19.680	16.220	7.940	3.690	12.740	6.910	0.100	0.500	0.100	0.500	12.740	6.910	0.106	0.081	0.049	0.070	2009	
CF34-3B	CF34-3B		FALSE	J	TRUE	FALSE	6.250	41.010	0.399	0.329	0.116	0.049	0.000	0.000	1.880	47.590	0.060	0.050	0.130	4.690	11.280	9.680	6.630	3.720	18.300	9.200	3.100	3.100	3.100	3.100	18.300	9.200	0.140	0.090	0.069	0.095	1991	
CF34-3B1	CF34-3B1		FALSE	J	TRUE	FALSE	6.250	41.010	0.399	0.329	0.116	0.049	0.000	0.000	1.880	47.590	0.060	0.050	0.130	4.690	11.280	9.680	6.630	3.720	18.300	9.200	3.100	3.100	3.100	3.100	18.300	9.200	0.140	0.090	0.069	0.095	1991	
CF6-50E2	CF6-50E2	Low emissions fuel nozzle	FALSE	J	TRUE	FALSE	4.300	230.400	2.361	1.940	0.663	0.163	0.450	0.450	3.710	24.040	0.140	0.150	0.280	2.720	28.970	25.500	10.160	3.400	10.950	11.720	1.620	1.400	1.620	1.400	10.950	11.720	0.107	0.113	0.067	0.069	1987	
CF6-80C2A5F	CF6-80C2A5F	1862M39	FALSE	J	TRUE	FALSE	5.100	271.880	2.630	2.106	0.691	0.220	0.050	0.040	1.920	16.960	0.050	0.040	0.110	1.180	28.110	21.270	12.640	4.900	7.400	5.200	0.000	0.000	7.400	6.660	7.400	5.200	0.107	0.113	0.067	0.069	1995	[6]
CF6-80C2B1F	CF6-80C2B1F	1862M39	FALSE	J	TRUE	FALSE	5.100	254.260	2.422	1.983	0.650	0.199	0.040	0.040	2.130	19.230	0.050	0.050	0.110	1.540	24.940	19.720	12.470	4.730	6.900	4.500	0.000	0.000	6.900	6.210	6.900	4.500	0.076	0.065	0.061	0.067	1995	[6]
CF6-80C2B5F	CF6-80C2B5F	1862M39	FALSE	J	TRUE	FALSE	5.100	272.530	2.685	2.162	0.697	0.206	0.050	0.040	1.830	17.450	0.050	0.050	0.110	1.310	28.580	21.760	12.740	4.910	7.400	5.200	0.000	0.000	7.400	6.660	7.400	5.200	0.078	0.068	0.062	0.067	1995	[6]
CF6-80C2B6F	CF6-80C2B6F	1862M39	FALSE	J	TRUE	FALSE	5.100	267.030	2.594	2.104	0.682	0.203	0.050	0.040	1.930	18.420	0.050	0.050	0.110	1.430	27.380	21.050	12.630	4.810	6.900	5.300	0.000	0.000	6.900	6.210	6.900	5.300	0.076	0.069	0.061	0.066	1995	[6]
CF6-80C2B7F	CF6-80C2B7F	1862M39	FALSE	J	TRUE	FALSE	5.100	267.030	2.594	2.104	0.682	0.203	0.050	0.040	1.930	18.420	0.050	0.050	0.110	1.430	27.380	21.050	12.630	4.810	6.900	5.300	0.000	0.000	6.900	6.210	6.900	5.300	0.076	0.069	0.061	0.066	1995	[6]
CF6-80C2D1F	CF6-80C2D1F	1862M39	FALSE	J	TRUE	FALSE	5.100	269.960	2.629	2.126	0.688	0.205	0.050	0.040	1.900	18.020	0.040	0.050	0.110	1.380	28.120	21.300	12.660	4.850	7.000	5.500	0.000	0.000	7.000	6.300	7.000	5.500	0.075	0.070	0.061	0.066	1995	[6]
CF6-80E1A2	CF6-80E1A2	1862M39	FALSE	J	TRUE	FALSE	5.100	287.040	2.767	2.245	0.724	0.228	0.380	0.340	1.610	42.670	0.050	0.070	0.140	9.370	39.290	28.020	9.910	4.530	9.900	7.200	0.000	0.000	9.900	8.910	9.900	7.200	0.091	0.081	0.068	0.123	1992	[6]
CF6-80E1A3	CF6-80E1A3	Standard	FALSE	J	TRUE	FALSE	5.100	304.800	2.989	2.387	0.755	0.227	0.340	0.310	1.230	37.020	0.070	0.070	0.180	9.530	45.630	31.740	10.290	4.690	10.100	8.600	0.000	0.000	10.100	9.090	10.100	8.600	0.094	0.088	0.071	0.125	1995	[6]
CF6-80E1A4	CF6-80E1A4	Standard	FALSE	J	TRUE	FALSE	5.100	297.440	2.904	2.337	0.744	0.227	0.340	0.300	1.330	38.090	0.060	0.070	0.180	10.350	43.150	30.300	10.130	4.620	10.090	8.060	0.000	0.000	10.090	9.081	10.090	8.060	0.093	0.085	0.071	0.130	1995	[6]
CF6-80E1A4B	CF6-80E1A4B	Standard	FALSE	J	TRUE	FALSE	5.100	297.440	2.904	2.337	0.744	0.227	0.340	0.300	1.330	38.090	0.060	0.070	0.180	10.350	43.150	30.300	10.130	4.620	10.090	8.060	0.000	0.000	10.090	9.081	10.090	8.060	0.093	0.085	0.071	0.130	1995	[6]
CFM LEAP-1B	CFMI LEAP 1B		FALSE	J	FALSE	FALSE	10.000	106.900	0.935	0.765	0.255	0.085	0.360	1.550	4.180	26.100	0.020	0.020	0.080	1.340	15.160	12.160	6.830	3.190	9.380	7.370	1.230	1.230	1.230	1.230	9.380	7.370	0.085	0.078	0.054	0.059	2018	
CFM56-3B1	CFM56-3-B1		FALSE	J	TRUE	FALSE	5.100	89.410	0.946	0.792	0.290	0.114	0.900	0.950	3.800	34.400	0.040	0.050	0.080	2.280	17.700	15.500	8.300	3.900	4.000	2.500	2.500	2.200	2.500	2.200	4.000	2.500	0.062	0.056	0.062	0.073	1983	
CFM56-3C1	CFM56-3C-1		FALSE	J	TRUE	FALSE	5.100	104.600	1.154	0.954	0.336	0.124	0.900	0.900	3.100	26.800	0.030	0.040	0.070	1.420	20.700	17.800	9.100	4.300	7.700	3.900	2.500	2.300	2.500	2.300	7.700	3.900	0.077	0.061	0.061	0.068	1983	
CFM56-5B2/3	CFM56-5B2/3	Tech Insertion	FALSE	J	TRUE	FALSE	5.500	137.900	1.385	1.107	0.358	0.111	0.450	0.230	2.330	26.720	0.040	0.020	0.050	1.220	28.260	20.760	9.420	4.530	15.500	13.100	2.100	2.100	2.100	2.100	15.500	13.100	0.121	0.112	0.057	0.065	2006	
CFM56-5B3/P	CFM56-5B3/2P	DAC-II	FALSE	J	TRUE	FALSE	5.600	142.400	1.470	1.150	0.400	0.130	0.600	1.300	19.900	34.500	0.100	0.100	2.900	2.500	32.000	18.600	7.800	4.300	0.500	0.300	0.500	2.300	0.500	2.300	0.500	0.300	0.056	0.051	0.208	0.075	1995	
CFM56-5B4/3	CFM56-5B4/3	Tech Insertion	FALSE	J	TRUE	FALSE	5.700	120.100	1.142	0.939	0.316	0.102	0.250	0.160	3.240	32.070	0.020	0.020	0.050	1.920	21.570	17.230	8.850	4.220	13.400	9.900	2.100	2.100	2.100	2.100	13.400	9.900	0.107	0.092	0.057	0.069	2006	
CFM56-5B4/P	CFM56-5B4/P		FALSE	J	TRUE	FALSE	5.900	120.110	1.132	0.935	0.312	0.104	0.900	0.900	2.300	23.400	0.200	0.200	0.500	4.600	28.000	23.200	10.000	4.300	5.400	4.100	0.200	0.500	0.200	0.500	5.400	4.100	0.086	0.074	0.072	0.074	1995	
CFM56-5B5/P	CFM56-5B5/P		FALSE	J	TRUE	FALSE	5.900	97.890	0.891	0.742	0.260	0.094	0.900	1.000	3.400	30.000	0.200	0.200	0.700	6.200	21.900	18.500	8.700	3.800	5.400	1.600	0.300	0.600	0.300	0.600	5.400	1.600	0.086	0.063	0.084	0.085	1995	
CFM56-5B6/3	CFM56-5B6/3	Tech Insertion	FALSE	J	TRUE	FALSE	5.900	104.500	0.965	0.800	0.279	0.095	0.170	0.170	4.350	38.390	0.020	0.030	0.070	2.930	17.730	14.880	8.290	3.940	11.300	8.400	2.100	2.100	2.100	2.100	11.300	8.400	0.095	0.084	0.058	0.076	2006	
CFM56-5B6/P	CFM56-5B6/P		FALSE	J	TRUE	FALSE	6.000	104.530	0.961	0.799	0.275	0.097	0.900	1.000	2.900	27.700	0.200	0.200	0.600	5.500	23.600	19.600	9.200	4.000	5.400	2.200	0.300	0.600	0.300	0.600	5.400	2.200	0.086	0.066	0.078	0.080	1995	
CFM56-5B7/P	CFM56-5B7/P		FALSE	J	TRUE	FALSE	5.900	120.110	1.132	0.935	0.312	0.104	0.900	0.900	2.300	23.400	0.200	0.200	0.500	4.600	28.000	23.200	10.000	4.300	5.400	4.100	0.200	0.500	0.200	0.500	5.400	4.100	0.086	0.074	0.072	0.074	1995	
CFM56-5B8/P	CFM56-5B8/P	SAC	FALSE	J	TRUE	FALSE	5.900	94.700	0.875	0.729	0.262	0.094	0.800	0.800	3.900	32.900	0.100	0.100	0.900	6.500	19.700	16.700	8.400	3.400	5.400	1.500	0.300	0.600	0.300	0.600	5.400	1.500	0.075	0.055	0.095	0.086	1995	
CFM56-5C3/F	CFM56-5C3		FALSE	J	TRUE	FALSE	5.600	142.400	1.373	1.131	0.370	0.120	0.980	0.820	1.570	32.600	0.008	0.008	0.074	5.350	34.700	27.100	10.400	4.260	11.800	9.100	1.000	1.100	1.000	1.100	11.800	9.100	0.096	0.087	0.052	0.083	1991	
CFM56-5C4	CFM56-5C4		FALSE	J	TRUE	FALSE	6.600	151.250	1.456	1.195	0.386	0.124	1.000	0.850	1.400	30.930	0.008	0.008	0.065	5.000	37.670	29.050	10.670	4.280	12.600	9.800	1.000	1.100	1.000	1.100	12.600	9.800	0.101	0.091	0.051	0.081	1991	
CFM56-5C4/P	CFM56-5C4/P	SAC	FALSE	J	TRUE	TRUE	6.600	149.900	1.395	1.143	0.370	0.115	0.800	0.700	1.600	31.600	0.000	0.000	0.000	5.000	34.100	26.700	9.900	4.100	12.000	9.600	1.000	1.100	1.000	1.100	12.000	9.600	0.097	0.089	0.048	0.081	1991	
CFM56-7B22	CFM56-7B22		FALSE	J	TRUE	FALSE	5.300	100.970	1.021	0.844	0.298	0.105	0.500	0.600	2.500	22.800	0.100	0.100	0.100	2.500	23.100	19.000	10.000	4.500	12.000	10.500	0.000	0.000	12.000	10.800	12.000	10.500	0.108	0.102	0.071	0.087	1996	[6]
CFM56-7B24	CFM56-7B24		FALSE	J	TRUE	FALSE	5.200	107.650	1.103	0.910	0.316	0.109	0.400	0.600	2.200	22.000	0.100	0.100	0.100	2.400	25.300	20.500	10.100	4.400	12.600	11.400	0.000	0.000	12.600	11.340	12.600	11.400	0.111	0.107	0.072	0.088	1996	[6]
CFM56-7B24/3	CFM56-7B24/3	Tech Insertion	FALSE	J	TRUE	FALSE	5.300	107.600	1.086	0.895	0.308	0.103	0.180	0.150	3.680	34.710	0.020	0.030	0.060	2.300	18.930	15.600	8.600	4.090	12.100	8.700	2.100	2.100	2.100	2.100	12.100	8.700	0.099	0.086	0.058	0.072	2006	
CFM56-7B26	CFM56-7B26		FALSE	J	TRUE	FALSE	5.100	116.990	1.221	0.999	0.338	0.113	0.200	0.600	1.600	18.800	0.100	0.100	0.100	1.900	28.800	22.500	10.800	4.700	14.700	11.900	0.000	0.000	14.700	13.230	14.700	11.900	0.123	0.110	0.077	0.091	1996	[6]
CFM56-7B26E	CFM56-7B26E		FALSE	J	TRUE	FALSE	5.100	116.990	1.200	1.000	0.300	0.100	0.200	0.200	3.100	30.900	0.000	0.000	0.100	1.800	21.800	17.100	8.900	4.300	13.100	9.800	2.100	2.100	2.100	2.100	13.100	9.800	0.103	0.090	0.060	0.069	2006	
CFM56-7B26/3	CFM56-7B26/3	Tech Insertion	FALSE	J	TRUE	FALSE	5.100	117.000	1.213	0.986	0.331	0.108	0.250	0.160	3.070	30.940	0.020	0.020	0.050	1.750	21.790	17.080	8.930	4.270	13.100	9.800	2.100	2.100	2.100	2.100	13.100	9.800	0.105	0.092	0.057	0.068	2006	
CFM56-7B26/B1	CFM56-7B26E/B1	B1 Tech Insertion	FALSE	J	TRUE	FALSE	5.100	117.000	1.200	1.000	0.300	0.100	0.200	0.200	3.100	30.900	0.000	0.000	0.100	1.800	21.800	17.100	8.900	4.300	13.100	9.800	2.100	2.100	2.100	2.100	13.100	9.800	0.103	0.090	0.060	0.069	2006	
CFM56-7B27/B1	CFM56-7B27E/B1	B1 Tech Insertion	FALSE	J	TRUE	FALSE	5.100	121.400	1.300	1.000	0.300	0.100	0.300	0.200	2.800	29.400	0.000	0.000	0.100	1.500	23.900	17.900	9.100	4.400	13.400	11.200	2.100	2.100	2.100	2.100	13.400	11.200	0.104	0.099	0.060	0.067	2006	
CFMI Leap-1A	CFMI LEAP 1A		FALSE	J	FALSE	FALSE	10.000	124.700	0.971	0.798	0.269	0.087	0.360	1.550	4.180	26.100	0.020	0.020	0.080	1.340	17.400	14.110	7.160	3.470	7.320	6.550	1.150	1.520	1.150	1.520	7.320	6.550	0.074	0.073	0.053	0.061	2017	
GE90-110B1	GE90-110B1	DAC	FALSE	J	TRUE	FALSE	7.340	492.600	4.320	3.470	1.080	0.370	0.070	0.070	2.290	40.590	0.030	0.030	0.060	4.550	44.440	33.850	15.780	5.110	3.580	2.250	1.420	0.960	1.420	0.960	3.580	2.250	0.059	0.053	0.054	0.077	2003	
GE90-115B	GE90-115B	DAC	FALSE	J	TRUE	FALSE	7.080	513.900	4.690	3.670	1.130	0.380	0.080	0.070	1.980	39.110	0.040	0.030	0.060	4.240	50.340	35.980	16.500	5.190	4.100	2.500	1.450	0.870	1.450	0.870	4.100	2.500	0.062	0.054	0.054	0.074	2003	
GE90-115BL2		DAC	FALSE	J	TRUE	FALSE	7.080	513.900	4.690	3.670	1.130	0.380	0.080	0.070	1.980	39.110	0.040	0.030	0.060	4.240	50.340	35.980	16.500	5.190	4.100	2.500	1.450	0.870	1.450	0.870	4.100	2.500	0.062	0.054	0.054	0.074	2003	
GE90-90B	GE90-90B	DAC II	FALSE	J	TRUE	FALSE	8.360	418.100	3.380	2.735	0.852	0.280	0.300	0.310	1.880	29.890	0.040	0.030	0.060	2.590	49.210	39.070	15.440	5.480	2.420	0.820	1.000	0.950	1.000	0.950	2.420	0.820	0.055	0.048	0.051	0.065	2007	
GE90-94B	GE90-94B	DAC II	FALSE	J	TRUE	FALSE	8.330	432.800	3.513	2.831	0.876	0.284	0.300	0.310	1.740	29.230	0.040	0.030	0.060	2.490	51.330	40.630	15.810	5.550	3.040	1.010	0.950	0.810	0.950	0.810	3.040	1.010	0.058	0.048	0.051	0.063	2007	
GE9X8	GE9X8		FALSE	J	FALSE	FALSE	10.000	392.400	2.818	2.298	0.724	0.244	0.170	0.240	2.490	19.680	0.020	0.020	0.060	0.630	37.900	30.300	12.400	4.420	1.710	1.240	1.530	3.770	1.530	3.770	1.710	1.240	0.050	0.048	0.054	0.077	2020	
GE9X9	GE9X		FALSE	J	FALSE	FALSE	10.000	431.000	3.161	2.547	0.788	0.256	0.170	0.240	2.490	19.680	0.020	0.020	0.060	0.630	41.800	33.800	13.700	4.760	3.370	1.960	2.070	1.660	2.070	1.660	3.370	1.960	0.057	0.051	0.058	0.058	2020	
GEnx-1B64	GEnx-1B64		FALSE	J	FALSE	FALSE	9.000	298.000	2.265	1.861	0.604	0.199	0.180	0.380	2.990	21.620	0.020	0.020	0.060	0.810	24.820	14.610	9.030	4.240	0.000	0.000	5.540	0.050	5.540	0.050	1.662	1.662	0.066	0.065	0.084	0.048	2009	[6]
GEnx-1B70	GEnx-1B70	TAPS	FALSE	J	TRUE	FALSE	8.800	321.600	2.494	2.037	0.650	0.208	0.170	0.240	2.490	19.680	0.020	0.020	0.060	0.630	34.060	18.480	9.630	4.370	0.000	0.000	5.540	0.050	5.540	0.050	1.662	1.662	0.066	0.065	0.084	0.047	2009	[6]
GEnx-2B67	GEnx-2B67		FALSE	J	TRUE	TRUE	8.000	299.800	2.451	2.012	0.701	0.216	0.170	0.280	2.530	18.950	0.020	0.020	0.060	0.570	31.200	17.940	9.580	4.430	0.000	0.000	5.540	0.050	5.540	0.050	1.662	1.662	0.066	0.065	0.084	0.047	2009	[6]
GE Passport 20	Passport 20			J	FALSE	FALSE	10.000	72.060	0.684	0.566	0.195	0.080	0.293	0.232	4.960	27.340	0.000	0.000	0.000	2.750	12.370	10.340	6.240	2.810	4.260	4.420	0.000	0.100	4.260	0.100	4.260	4.420	0.058	0.061	0.049	0.061	2017	[6]
GP7270	GP7270		FALSE	J	TRUE	FALSE	8.710	332.390	2.637	2.169	0.711	0.234	0.110	0.090	1.270	33.580	0.030	0.030	0.070	4.040	41.730	31.370	12.900	5.240	4.060	3.870	2.200	3.080	2.200	3.080	4.060	3.870	0.061	0.060	0.059	0.091	2005	
JT8D-15	JT8D-15	Smoke fix	FALSE	J	TRUE	TRUE	1.030	68.940	1.178	0.945	0.340	0.148	0.700	1.000	9.600	35.200	0.250	0.250	1.650	11.000	19.100	15.000	5.900	3.000	23.800	21.400	7.100	7.100	7.100	7.100	23.800	21.400	0.321	0.309	0.239	0.242	1980	
JT8D-217	JT8D-217	Environmental Kit (E_Kit)	FALSE	J	TRUE	TRUE	1.730	92.740	1.320	1.078	0.383	0.137	0.420	0.470	3.540	15.310	0.000	0.000	0.000	0.000	17.540	13.540	7.660	4.570	6.100	5.500	1.800	1.800	1.800	1.800	6.100	5.500	0.105	0.105	0.069	0.076	1999	
PW800	PW800			J	FALSE	FALSE	10.000	72.060	0.684	0.566	0.195	0.080	0.293	0.232	4.960	27.340	0.000	0.000	0.000	2.750	12.370	10.340	6.240	2.810	4.260	4.420	0.000	0.100	4.260	0.100	4.260	4.420	0.058	0.061	0.049	0.061	2017	[6]
PW1000G	PW 1100G-JM	TALON X	FALSE	J	FALSE	FALSE	12.000	124.700	0.971	0.798	0.269	0.087	0.810	1.620	12.910	31.100	0.100	0.100	3.980	2.900	12.560	10.160	5.160	2.500	7.320	6.550	1.150	1.520	1.150	1.520	7.320	6.550	0.084	0.079	0.027	0.071	2011	
PW1124G	PW1124G	TALON X	FALSE	J	FALSE	FALSE	12.000	106.700	0.993	0.798	0.276	0.097	0.680	0.810	3.690	25.190	0.000	0.002	0.001	0.002	14.120	11.200	5.730	2.730	5.160	4.710	1.320	1.510	1.320	1.510	5.160	4.710	0.062	0.062	0.050	0.053	2016	
PW1127G	PW1127G	TALON X	FALSE	J	FALSE	FALSE	12.000	124.700	1.076	0.858	0.288	0.097	0.670	0.810	4.630	25.780	0.020	0.007	0.002	0.360	17.120	13.140	6.290	2.940	7.320	6.550	1.150	1.520	1.150	1.520	7.320	6.550	0.074	0.072	0.049	0.055	2016	
PW1133G	PW1133G	TALON X	FALSE	J	FALSE	FALSE	12.000	147.000	1.243	0.980	0.314	0.096	0.540	0.250	2.140	25.590	0.050	0.020	0.050	1.100	22.750	16.080	7.050	3.390	7.060	6.270	0.930	1.630	0.930	1.630	7.060	6.270	0.077	0.072	0.050	0.061	2016	
PW1524G	PW1524G	TALON X	FALSE	J	FALSE	FALSE	12.000	106.700	0.935	0.765	0.255	0.085	0.540	1.310	9.870	33.500	0.040	0.050	1.570	3.380	15.160	12.160	6.830	3.190	9.380	7.370	1.230	1.230	1.230	1.230	9.380	7.370	0.087	0.080	0.137	0.072	2015	
PW306A	PW306A	Annular	FALSE	J	TRUE	TRUE	4.500	26.870	0.317	0.264	0.097	0.042	2.270	2.510	7.110	36.350	0.000	0.000	0.000	4.360	20.080	19.260	11.870	4.260	2.600	0.800	0.000	0.200	2.600	0.200	2.600	0.800	0.087	0.055	0.061	0.074	2000	[6]
PW307A	PW307A		FALSE	J	TRUE	TRUE	4.200	28.490	0.329	0.274	0.102	0.045	0.570	0.720	3.370	39.600	0.000	0.000	0.000	3.240	15.820	13.670	6.780	2.390	0.400	0.330	0.000	1.570	0.400	1.570	0.400	0.330	0.440	0.044	0.044	0.073	2007	[6]
PW308C	PW308C		FALSE	J	TRUE	TRUE	4.100	31.150	0.367	0.305	0.124	0.045	0.810	0.970	5.230	42.300	0.090	0.100	0.140	5.940	18.450	15.990	7.830	3.630	4.800	3.900	1.400	1.300	1.400	1.300	4.800	3.900	0.140	0.126	0.086	0.120	2001	
PW4056	PW4056		FALSE	J	TRUE	FALSE	4.700	252.400	2.342	1.930	0.658	0.208	0.440	0.570	2.000	21.860	0.060	0.010	0.130	1.920	28.100	22.900	11.600	4.800	7.800	0.000	0.000	0.000	7.800	7.020	7.800	0.000	0.081	0.075	0.063	0.072	1987	[6]
PW4060	PW4060	Reduced emissions	FALSE	J	TRUE	FALSE	4.500	266.900	2.647	2.085	0.703	0.213	0.370	0.510	1.780	20.320	0.100	0.030	0.140	1.660	32.800	24.700	12.000	4.900	8.300	7.500	2.500	2.500	2.500	2.500	8.300	7.500	0.089	0.079	0.065	0.071	1987	
PW4062			FALSE	J	TRUE	FALSE	4.500	266.900	2.767	2.166	0.708	0.223	0.380	0.510	1.680	23.960	0.080	0.080	0.150	3.260	37.650	27.550	12.780	4.140	10.100	7.400	0.700	0.000	0.700	0.630	10.100	7.400	0.096	0.082	0.055	0.086	1993	[6]
PW4062A			FALSE	J	TRUE	FALSE	4.500	266.900	2.767	2.166	0.708	0.223	0.380	0.510	1.680	23.960	0.080	0.080	0.150	3.260	37.650	27.550	12.780	4.140	10.100	7.400	0.700	0.000	0.700	0.630	10.100	7.400	0.096	0.082	0.055	0.086	1993	[6]
PW4077	PW4077		FALSE	J	TRUE	FALSE	6.700	343.000	3.019	2.452	0.816	0.232	0.100	0.100	0.400	20.200	0.100	0.100	0.200	3.000	39.800	32.500	11.300	4.200	7.400	3.000	0.600	0.000	0.600	0.540	7.400	3.000	0.084	0.062	0.057	0.077	1994	[6]
PW4077D	PW4077D		FALSE	J	TRUE	FALSE	6.600	355.700	3.172	2.562	0.892	0.310	0.290	0.340	0.860	24.800	0.020	0.020	0.040	2.820	44.680	34.050	11.630	3.810	4.900	2.570	0.660	0.340	0.660	0.340	4.900	2.570	0.063	0.054	0.048	0.062	2010	
PW4084	PW4084		FALSE	J	TRUE	FALSE	6.400	369.600	3.411	2.689	0.875	0.242	0.100	0.100	0.400	18.730	0.100	0.100	0.200	2.700	45.000	35.500	12.000	4.400	10.500	4.800	0.800	0.000	0.800	0.720	10.500	4.800	0.100	0.070	0.058	0.084	1994	[6]
PW4090	PW4090		FALSE	J	TRUE	FALSE	6.100	395.000	3.926	2.996	0.979	0.338	0.270	0.310	0.550	11.940	0.020	0.020	0.040	0.690	57.520	41.170	12.740	4.480	10.510	4.290	0.700	0.370	0.700	0.370	10.510	4.290	0.091	0.062	0.048	0.049	2010	
PW4152	PW4152		FALSE	J	TRUE	FALSE	4.900	231.300	2.177	1.785	0.593	0.177	0.120	0.170	1.090	12.760	0.130	0.160	0.150	0.740	26.900	22.700	11.100	4.900	12.700	11.400	3.800	3.800	3.800	3.800	12.700	11.400	0.115	0.112	0.075	0.078	1987	
PW4164	PW4164	Floatwall	FALSE	J	TRUE	FALSE	5.200	284.680	2.668	2.200	0.766	0.240	0.190	0.180	2.840	17.730	0.000	0.000	0.000	0.370	23.870	18.660	11.880	4.990	12.500	10.500	0.600	0.000	0.600	0.540	12.500	10.500	0.099	0.094	0.046	0.075	2000	[6]
PW4168	PW4168	Floatwall	FALSE	J	TRUE	FALSE	5.100	302.480	2.884	2.363	0.809	0.250	0.100	0.200	2.400	15.900	0.000	0.000	0.000	0.200	26.900	20.200	12.100	5.200	12.700	11.000	0.600	0.000	0.600	0.540	12.700	11.000	0.100	0.097	0.046	0.074	2000	[6]
PW4168A	PW4168A	Floatwall	FALSE	J	TRUE	FALSE	5.100	302.480	2.884	2.363	0.809	0.250	0.100	0.200	2.400	15.900	0.000	0.000	0.000	0.200	26.900	20.200	12.100	5.200	12.700	11.000	0.600	0.000	0.600	0.540	12.700	11.000	0.100	0.097	0.046	0.074	2000	[6]
PW4170A	PW4170	Talon IIB	FALSE	J	TRUE	FALSE	4.860	311.400	3.019	2.450	0.833	0.255	0.180	0.180	1.170	14.040	0.000	0.000	0.050	0.830	31.400	22.840	12.490	4.180	5.600	5.600	0.200	0.000	0.200	0.180	5.600	5.600	0.064	0.067	0.047	0.059	2008	[6]
PW4462			FALSE	J	TRUE	FALSE	4.500	266.900	2.647	2.085	0.703	0.213	0.370	0.510	1.780	20.320	0.100	0.030	0.140	1.660	32.800	24.700	12.000	4.900	8.300				8.300	7.470	8.300	0.000	0.089	0.079	0.065	0.071	1993	[6]
RB211-524C2	RB211-524C2	Package 1	FALSE	J	TRUE	FALSE	4.500	224.800	2.480	2.020	0.740	0.300	0.660	1.630	18.900	81.000	0.000	0.220	4.420	54.200	41.900	32.300	10.400	3.370	14.500	10.900	2.200	0.700	2.200	0.700	14.500	10.900	0.111	0.113	0.304	0.382	1986	
RB211-524G	RB211-524G		FALSE	J	TRUE	TRUE	4.250	253.000	2.620	2.080	0.700	0.260	0.590	0.430	1.010	13.740	0.390	0.270	0.370	0.890	58.710	40.540	9.560	4.630	3.030	3.620	1.820	0.210	1.820	0.210	3.030	3.620	0.098	0.077	0.073	0.050	1992	
RB211-524GH-T	RB211-524H-T		FALSE	J	TRUE	TRUE	4.200	264.000	2.810	2.220	0.770	0.260	0.180	0.140	1.050	26.170	0.000	0.020	0.000	3.310	31.190	23.190	9.910	4.160	5.200	5.270	1.830	0.530	1.830	0.530	5.200	5.270	0.140	0.156	0.092	0.077	1994	
RB211-524H	RB211-524H		FALSE	J	TRUE	TRUE	4.200	264.400	2.730	2.170	0.710	0.260	0.870	0.380	0.990	11.750	0.340	0.330	0.360	0.740	65.840	46.310	10.260	4.780	3.030	3.620	1.820	0.210	1.820	0.210	3.030	3.620	0.132	0.138	0.112	0.052	1987	
RB211-535E4	RB211-535E4		FALSE	J	TRUE	TRUE	4.100	178.400	1.850	1.500	0.520	0.180	0.260	0.290	2.720	20.330	0.030	0.000	0.040	0.270	22.310	17.560	8.380	4.400	7.300	6.800	0.600	0.460	0.600	0.460	7.300	6.800	0.191	0.193	0.058	0.056	1999	
TPE331-14GR	TPE331-14		FALSE	T	FALSE	TRUE	0.000	1250.000	0.091	0.079	0.045	0.025	1.500	1.800	4.800	24.500	0.070	0.080	0.220	2.940	11.500	11.200	8.800	5.000	0.000	0.000	0.000	0.000	11.848	10.663	3.554	3.554	0.104	0.101	0.077	0.089	1976	[5]
Trent 1000-A	Trent 1000-A	Phase5 Tiled	FALSE	J	TRUE	FALSE	9.470	310.900	2.282	1.877	0.625	0.237	0.530	0.450	0.770	8.730	0.000	0.000	0.000	0.060	46.670	35.870	13.290	5.400	3.300	4.100	2.900	0.600	2.900	0.600	3.300	4.100	0.054	0.059	0.060	0.047	2011	
Trent 556-61	Trent 556-61	Phase5 Tiled	FALSE	J	TRUE	FALSE	7.500	263.900	2.240	1.830	0.620	0.230	0.170	0.380	0.540	9.960	0.020	0.010	0.040	0.130	44.770	33.250	11.680	6.090	4.340	4.170	2.050	0.930	2.050	0.930	4.340	4.170	0.061	0.060	0.056	0.049	2005	
Trent 556A2-61			FALSE	J	TRUE	FALSE	7.500	263.900	2.240	1.830	0.620	0.230	0.170	0.380	0.540	9.960	0.020	0.010	0.040	0.130	44.770	33.250	11.680	6.090	4.340	4.170	2.050	0.930	2.050	0.930	4.340	4.170	0.061	0.060	0.056	0.049	2005	
Trent 772-60	Trent 772		TRUE	J	TRUE	TRUE	5.030	315.900	3.200	2.580	0.850	0.280	0.200	0.160	0.890	17.940	0.000	0.000	0.010	1.460	34.380	26.440	10.300	4.710	1.900	2.000	0.700	0.200	0.700	0.200	1.900	2.000	0.049	0.050	0.047	0.053	1994	
Trent 772B-60			TRUE	J	TRUE	TRUE	5.030	315.900	3.200	2.580	0.850	0.280	0.200	0.160	0.890	17.940	0.000	0.000	0.010	1.460	34.380	26.440	10.300	4.710	1.900	2.000	0.700	0.200	0.700	0.200	1.900	2.000	0.076	0.082	0.061	0.057	1994	
Trent 772C-60			TRUE	J	TRUE	TRUE	5.030	315.900	3.200	2.580	0.850	0.280	0.200	0.160	0.890	17.940	0.000	0.000	0.010	1.460	34.380	26.440	10.300	4.710	1.900	2.000	0.700	0.200	0.700	0.200	1.900	2.000	0.049	0.050	0.047	0.053	1994	
Trent 875-17	Trent 875		FALSE	J	TRUE	FALSE	6.080	351.850	3.100	2.570	0.880	0.280	0.190	0.160	0.860	19.660	0.000	0.000	0.000	1.780	33.320	26.550	10.430	4.640	4.860	5.260	2.200	0.500	2.200	0.500	4.860	5.260	0.061	0.065	0.055	0.057	1994	
Trent 884	Trent 884		FALSE	J	TRUE	FALSE	5.870	390.100	3.560	2.890	0.970	0.310	0.240	0.180	0.650	15.190	0.000	0.000	0.000	1.000	40.050	30.630	11.070	5.040	4.370	5.100	2.530	0.500	2.530	0.500	4.370	5.100	0.059	0.064	0.057	0.052	1994	
Trent 884-17			FALSE	J	TRUE	FALSE	5.870	390.100	3.560	2.890	0.970	0.310	0.240	0.180	0.650	15.190	0.000	0.000	0.000	1.000	40.050	30.630	11.070	5.040	4.370	5.100	2.530	0.500	2.530	0.500	4.370	5.100	0.059	0.064	0.057	0.052	1994	
Trent 892B-17	Trent 892		FALSE	J	TRUE	FALSE	5.700	411.480	3.910	3.100	1.000	0.300	0.280	0.200	0.570	13.070	0.010	0.000	0.000	0.700	45.700	33.300	11.580	5.330	4.000	4.900	2.760	0.530	2.760	0.530	4.000	4.900	0.058	0.063	0.059	0.050	1994	
Trent 895	Trent 895		FALSE	J	TRUE	FALSE	5.700	413.050	4.030	3.190	1.050	0.330	0.270	0.190	0.540	14.710	0.020	0.000	0.000	0.890	47.790	34.290	11.390	5.110	4.000	4.900	2.600	0.500	2.600	0.500	4.000	4.900	0.059	0.063	0.058	0.051	1994	
Trent 970-84	Trent 970-84	Phase5 Tiled	FALSE	J	TRUE	FALSE	7.500	334.700	2.600	2.200	0.700	0.300	0.400	0.200	1.400	15.100	0.000	0.000	0.000	0.200	37.200	29.100	11.400	5.100	4.100	4.700	2.600	0.700	2.600	0.700	4.100	4.700	0.057	0.062	0.058	0.048	2006	
Trent 972-84	Trent 972-84	Phase5 Tiled	FALSE	J	TRUE	FALSE	7.500	345.900	2.690	2.230	0.750	0.270	0.400	0.300	1.400	15.940	0.000	0.000	0.000	0.240	38.800	29.600	11.800	5.000	4.100	4.800	2.600	0.800	2.600	0.800	4.100	4.800	0.057	0.063	0.058	0.049	2006	
Trent XWB-74	Trent XWB-75		FALSE	J	FALSE	FALSE	9.300	334.000	2.210	1.870	0.595	0.255	0.510	0.480	0.680	7.660	0.000	0.000	0.000	0.040	35.060	19.110	9.710	4.370	3.000	3.800	3.100	0.600	3.100	0.600	3.000	3.800	0.053	0.058	0.062	0.047	2016	
Trent XWB-83	Trent XWB-79		FALSE	J	FALSE	FALSE	9.300	351.000	2.380	1.990	0.629	0.255	0.510	0.480	0.680	7.660	0.000	0.000	0.000	0.040	36.270	21.750	10.420	4.440	3.370	1.960	2.070	1.660	2.070	1.660	3.370	1.960	0.058	0.052	0.058	0.060	2018	
Trent XWB-93	Trent XWB-84		FALSE	J	FALSE	FALSE	9.300	374.000	2.599	2.150	0.674	0.255	0.510	0.480	0.680	7.660	0.000	0.000	0.000	0.040	37.820	25.130	11.340	4.530	3.370	1.960	2.070	1.660	2.070	1.660	3.370	1.960	0.054	0.050	0.054	0.054	2018	
Trent XWB-97	Trent XWB-97		FALSE	J	FALSE	FALSE	9.300	431.000	3.161	2.547	0.788	0.256	0.510	0.480	0.680	7.660	0.000	0.000	0.000	0.040	41.800	33.800	13.700	4.760	3.000	3.800	3.100	0.600	3.100	0.600	3.000	3.800	0.053	0.058	0.062	0.049	2018	

Engine Emission List (extracted from IATA Schedule)

Engine Type	Engine name	Combuster Model (if any)	Out of Service (if)	Engine Type (J- Jet; T- Turboprop; P-Piston)	ICAO Engine	Mixed Turbofan	Bypass Ratio	Rated Engine Output (kN)	Unadjusted Fuel Flow - Takeoff	Unadjusted Fuel Flow - Climbout	Unadjusted Fuel Flow - Approach	Unadjusted Fuel Flow - Idle	CO Raw Emission Index - (Takeoff)	CO Raw Emission Index - (Climbout)	CO Raw Emission Index - (Approach)	CO Raw Emission Index - (Idle)	HC Raw Emission Index - (Takeoff) [1]	HC Raw Emission Index - (Climbout) [1]	HC Raw Emission Index - (Approach) [1]	HC Raw Emission Index - (Idle) [1]	NOx Raw Emission Index - (Takeoff)	NOx Raw Emission Index - (Climbout)	NOx Raw Emission Index - (Approach)	NOx Raw Emission Index - (Idle)	Raw Smoke Number - (Takeoff)	Raw Smoke Number - (Climbout)	Raw Smoke Number - (Approach)	Raw Smoke Number - (Idle)	Scaled Smoke Number - (Takeoff)	Scaled Smoke Number - (Climbout)	Scaled Smoke Number - (Approach)	Scaled Smoke Number - (Idle)	PM Emission Index - (Takeoff) [2]	PM Emission Index - (Climbout) [2]	PM Emission Index - (Approach) [2]	PM Emission Index - (Idle) [2]	Engine Entry Into Service Year	Remarks
V2524-A5	V2524-A5		FALSE	J	TRUE	TRUE	4.810	109.060	1.040	0.867	0.326	0.133	0.420	0.440	2.280	12.030	0.030	0.040	0.070	0.140	22.960	19.250	9.690	5.180	7.000	7.800	3.700	1.700	3.700	1.700	7.000	7.800	0.248	0.279	0.302	0.181	2009	
V2527-A5	V2527-A5		FALSE	J	TRUE	TRUE	4.820	111.200	1.049	0.873	0.328	0.134	0.420	0.440	2.250	11.960	0.030	0.030	0.070	0.140	23.180	19.360	9.740	5.190	6.900	7.700	3.800	1.600	3.800	1.600	6.900	7.700	0.200	0.245	0.183	0.104	2009	
V2530-A5	V2530-A5		FALSE	J	TRUE	TRUE	4.540	133.400	1.325	1.078	0.387	0.145	0.390	0.410	1.650	10.450	0.020	0.030	0.060	0.120	31.430	23.920	10.920	5.520	3.700	6.600	5.700	1.400	5.700	1.400	3.700	6.600	0.058	0.074	0.085	0.053	2009	
V2533-A5	V2533-A5		FALSE	J	TRUE	TRUE	4.460	140.560	1.433	1.142	0.405	0.147	0.380	0.410	1.540	10.120	0.010	0.020	0.060	0.120	35.430	25.650	11.240	5.600	2.000	5.800	6.400	1.300	6.400	1.300	2.000	5.800	0.076	0.176	0.288	0.087	2009	
RR Advance2	RR Advance 2			J	FALSE		Unknown	72.000	0.600	0.497	0.170	0.072	0.400	0.300	6.610	41.000	0.000	0.000	0.000	2.750	12.370	10.340	6.240	2.810	4.260	4.420	0.000	0.100	4.260	0.100	4.260	4.420	0.058	0.061	0.049	0.061	2018	[6]
RR Advance3	RR Advance 3			J	FALSE		15.000	334.700	2.132	1.741	0.567	0.209	0.510	0.480	0.680	7.660	0.000	0.000	0.000	0.040	41.300	31.100	10.520	4.270	3.600	4.300	2.800	0.700	2.800	0.700	3.600	4.300	0.055	0.060	0.059	0.047	2018	

Note:

[1] According to the SAGE (System for assessing Aviation's Global Emissions) Technical Manual by the FAA Office of Environment and Energy, there are issues associated with the use of BFFM2 and the ICAO Emissions Databank.
At Issue 6 in Table 7, it is stated that "In the ICAO databank, some EI values are zeros which cannot be modeled on log plots", and the employed solution documentated within ICAO CAEP WG3 is "The zero values were replaced by reasonably low values of 10^{-6}."
Engines with the associated problems are corrected with the suggested solution.

[2] PM Emission Indecies are extracted from EDMS with 0.06% sulphur content and will be further adjusted to 0.068% for calculation; EDMS used FOA3.0 to calculate PM emission indicies from smoke numbers

[3] According to EDMS, the conversion factor from RSP to FSP is 1.0.

[4] SO_2 emission index is constant at different TIM but is linearly related to sulphur content. For Jet A-1 fuel with 0.068% sulphur content, the SO_2 emission index from EDMS is 1.32736 g/kg and this figure is the same for all engines.

[5] For engines remarked [5], the smoke number of takeoff mode is calculated by the following formula:
Regulatory Smoke Number = 83.6 $(Foo)^{-0.274}$ or a value of 50, whichever is lower
Reference: INTERNATIONAL STANDARDS AND RECOMMENDED PRACTICES
ENVIRONMENTAL PROTECTION
ANNEX 16 TO THE CONVENTION ON INTERNATIONAL CIVIL AVIATION
VOLUME II AIRCRAFT ENGINE EMISSIONS
SECOND EDITION — JULY 1993
Part III, Chapter 2, Page 7

[6] For engine with remark [5], the missing smoke number SN was calculated using the scale factor suggested by ICAO, the scaled smoke numbers were input into EDMS and PM EIs were extracted
$SF = SN_{Mode}/SN_{Max}$
SF as follows:

Engine Category	Approach	Idle	Take-off	Climb-out
Most non-DAC	0.3	0.3	1.0	0.9
Aciadgatel	0.8	0.3	1.0	1.0
GE CF34	0.3	0.3	1.0	0.4
Textron Lycoming	0.6	0.3	1.0	1.0
CE and CFM DAC	0.3	1.0	0.3	0.3

Reference: Eq. D-1, page 3-A1-43, Attachment D to Appendix 1, Airport Air Quality Manual, Doc 9889

Aircraft Types and Subtypes - IATA Designation

	Sub-type	Type	ICAO Code	Designation	Engine Number	Passenger/ Cargo	Size Code	Size Group	Runway Group
New aircraft	32N	32N	C	All Airbus A320/319/321 Neo	2	P	CP	7	7
	3N9	32N	C	Airbus A319Neo	2	P	CP	7	7
	3N0	32N	C	Airbus A320Neo	2	P	CP	7	7
	3N1	32N	C	Airbus A321Neo	2	P	CP	7	7
	350	350	E	All Airbus A50	2	P	EP	3	3
	358	350	E	Airbus A350-800	2	P	EP	3	3
	359	350	E	Airbus A350-900	2	P	EP	3	3
	351	350	E	Airbus A350-1000	2	P	EP	3	3
	35F	35F	E	Airbus A350 Freighter	2	C	EC	4	6
	38N	38N	F	New Airbus A380 Passenger	4	P	FP	1	1
	787	787	E	All Boeing 787	2	P	EP	3	3
	789	787	E	Boeing 787-9	2	P	EP	3	3
	788	787	E	Boeing 787-8	2	P	EP	3	3
	77X	77X	E	All Boeing 777X	2	P	EP	3	3
	7X8	77X	E	Boeing 777-8X	2	P	EP	3	3
	7X9	77X	E	Boeing 777-9X	2	P	EP	3	3
	7XF	7XF	E	Boeing 777X Freighter	2	C	EC	4	6
	73M	73M	E	All Boeing 737MAX	2	P	EP	3	3
	7M7	73M	C	Boeing 737MAX7	2	P	CP	7	7
	7M8	73M	C	Boeing 737MAX8	2	P	CP	7	7
	7M9	73M	C	Boeing 737MAX9	2	P	CP	7	7
	74N	74N	F	Boeing 747-8F	4	C	FC	2	1
	74H	74H	F	Boeing 747-8I	4	P	FP	1	1
	CS1	CSE	C	Bombardier C Series 100	2	P	CP	7	7
	CS3	CSE	C	Bombardier C Series 300	2	P	CP	7	7
	CRN	CRN	C	Canadair Regional Jet Next Generation	2	P	CP	7	7
	CCN	CCJ	B	Challenger Next Generation	2	P	BP	9	9
	GRJ	GRJ	B	Gulfstream Regional Jet	2	P	BP	9	9
	GRN	GRJ	B	Gulfstream Regional Jet Next generation	2	P	BP	9	9
Curent aircraft	ABF	ABF	D	All Airbus A300 Freighter	2	C	DC	6	6
	AB4	AB3	D	Airbus Industrie A300B2/B4/C4 pax	2	P	DP	5	5
	AB6	AB3	D	Airbus Industrie A300-600 pax	2	P	DP	5	5
	ABB	ABF	D	Airbus Industrie A300-600ST Beluga Freighter	2	C	DC	6	6
	ABX	ABF	D	Airbus Industrie A300C4/F4 Freighter	2	C	DC	6	6
	ABY	ABF	D	Airbus Industrie A300-600 Freighter	2	C	DC	6	6
	313	310	D	Airbus A310-300 pax	2	P	DP	5	5
	318	32S	C	Airbus A318	2	P	CP	7	7
	319	32S	C	Airbus A319	2	P	CP	7	7
	320	32S	C	Airbus A320-100/200	2	P	CP	7	7
	321	32S	C	Airbus A321-100/200	2	P	CP	7	7
	330	330	E	All Airbus A330	2	P	EP	3	3
	332	330	E	Airbus A330-200	2	P	EP	3	3
	333	330	E	Airbus A330-300	2	P	EP	3	3
	33F	33F	E	Airbus A330 Freighter	2	C	EC	4	6
	342	340	E	Airbus A340-200	4	P	EP	3	3
	343	340	E	Airbus A340-300	4	P	EP	3	3
	346	340	E	Airbus A340-600	4	P	EP	3	3
	388	380	F	Airbus A380-800	4	P	FP	1	1
	72F	72F	C	Boeing 727 Freighter	3	C	CC	8	6
	733	737	C	Boeing 737-300 pax	2	P	CP	7	7
	734	737	C	Boeing 737-400 pax	2	P	CP	7	7
	737	737	C	Boeing 737	2	P	CP	7	7
	738	737	C	Boeing 737-800 pax	2	P	CP	7	7
	739	737	C	Boeing 737-900 pax	2	P	CP	7	7
	73G	737	C	Boeing 737-700	2	P	CP	7	7
	73H	737	C	Boeing 737-800 (winglets) pax	2	P	CP	7	7
	BBJ	737	C	Boeing Business Jet	2	P	CP	7	7
	73F	73F	C	Boeing 737 Freighter	2	C	CC	8	6
	744	747	E	Boeing 747-400 pax	4	P	EP	3	3
	74C	747	E	Boeing 747-200 Combi	4	P	EP	3	3
	74E	747	E	Boeing 747-400 Combi	4	P	EP	3	3
	74L	747	E	Boeing 747SP	4	C	EC	4	6
	74X	74F	E	Boeing 747-200 Freighter	4	C	EC	4	6
	74Y	74F	E	Boeing 747-400 Freighter	4	C	EC	4	6
	752	757	D	Boeing 757-200 pax	2	P	DP	5	5
	763	767	D	Boeing 767-300 pax	2	P	DP	5	5
	76Y	76F	D	Boeing 767-300 Freighter	2	C	DC	6	6
	772	777	E	Boeing 777-200 pax	2	P	EP	3	3
	773	777	E	Boeing 777-300 pax	2	P	EP	3	3
	77F	77F	E	Boeing 777 Freighter	2	C	EC	4	6
	77L	777	E	Boeing 777-200LR	2	P	EP	3	3
	77W	777	E	Boeing 777-300ER	2	P	EP	3	3
	M82	M82	C	McDonnell Douglas MD82	2	P	CP	7	7
	M1F	M1F	D	MD-11 Freighter	3	C	DC	6	6
	CCJ	CCJ	B	Canadair Challenger	2	P	BP	9	9
	CR2	CRJ	B	Canadair CRJ200	2	P	BP	9	9
	E90	ERJ	C	Embraer 190	2	P	CP	7	7
	DF3	DF3	B	Dassault Falcon 50/900	2	P	BP	9	9
	GRJ	GRJ	B	Gulfstream Regional Jet	2	P	BP	9	9
	J41	JST	B	Jetstream J41	2	P	BP	9	9

Size Code	Size Group	Runway Group
FP	1	1
FC	2	1
EP	3	3
EC	4	6
DP	5	5
DC	6	6
CP	7	7
CC	8	6
BP	9	9
AP	10	9