

EMFAC-HK Technology Group Indexes

Note 1: INP files from EMFAC-HK V4.2 or before should not be used for V4.3 onwards.

Note 2: Users should be aware that technology group index may be changed to represent something different in the newer versions, *for example due to changes in vehicle class definitions.*

Exhaust Technology Group Indexes**Motorcycles (MC)**

Vehicle Emission Standards	Technology Group Index
pre-Euro	263
Euro 1	266
Euro 3	277
Euro 4	278

Petrol Private Cars (PC)

Vehicle Emission Standards	Technology Group Index
pre-ULP	1
ULP	8
Euro 1	10
Euro 2	13
Euro 3	23
Euro 4	24
Euro 5	29
Euro 6	39

Diesel Private Cars (PC)

Vehicle Emission Standards	Technology Group Index
pre-Euro	170
pre-Euro with Traps Retrofitted	171
pre-Euro with DOC Retrofitted	172
Euro 1	173
Euro 4	176
Euro 5 - SCR	175
Euro 5 – DPF & SCR	174
Euro 6	177

LPG Taxis (TAXI)

Vehicle Emission Standards	Technology Group Index
Euro 2 & 3	25
Euro 2 & 3 CAT Replaced	19
Euro 4	22
Euro 4 CAT Replaced	20
Euro 5	27
Euro 5 CAT Replaced	21
Euro 6	47

Petrol Taxis (TAXI)

Vehicle Emission Standards	Technology Group Index
Euro 4	24
Euro 5	29
Euro 6	39

Diesel Taxis (TAXI)

Vehicle Emission Standards	Technology Group Index
pre-Euro	70
pre-Euro with Traps Retrofitted	71
pre-Euro with DOC Retrofitted	72
Euro 1	73
Euro 2	74

LPG Public Light Buses (PLB)

Vehicle Emission Standards	Technology Group Index
Euro III	49
Euro III CAT Replaced	56
Euro IV	50
Euro V	51
Euro IV CAT Replaced	58
Euro V CAT Replaced	48
Euro VI	52

Diesel Public Light Buses (PLB)

Vehicle Emission Standards	Technology Group Index
pre-Euro	186
pre-Euro with Traps Retrofitted	187
pre-Euro with DOC Retrofitted	188
Euro I	189
Euro II	190
Euro III	191
Euro IV	192
Euro V	193
Euro VI	194

Petrol Private Light Buses with GVW $\leq$ 3.5 t (PV4)

Vehicle Emission Standards	Technology Group Index
pre-Euro	2
Euro 1	7
Euro 2	16
Euro 3	17
Euro 4	26
Euro 5	31
Euro 6	41

Diesel Private Light Buses with GVW $\leq$ 3.5 t (PV4)

Vehicle Emission Standards	Technology Group Index
pre-Euro	78
pre-Euro with Traps Retrofitted	79
pre-Euro with DOC Retrofitted	80
Euro 1	81
Euro 2	82
Euro 3	83
Euro 4	84
Euro 5	85
Euro 6	95

Petrol Private Light Buses with GVW $>$ 3.5 t (PV5)

Vehicle Emission Standards	Technology Group Index
pre-Euro	32
Euro I	33
Euro II	34
Euro III	35
Euro IV	36
Euro V	37
Euro VI	204

LPG Private Light Buses with GVW $>$ 3.5 t (PV5)

Vehicle Emission Standards	Technology Group Index
Euro III	149
Euro III with CAT Replaced	140
Euro IV	150
Euro IV with CAT Replaced	141
Euro V	151
Euro V with CAT Replaced	142
Euro VI	152

Diesel Private Light Buses with GVW > 3.5 t (PV5)

Vehicle Emission Standards	Technology Group Index
pre-Euro	86
pre-Euro with Traps Retrofitted	87
pre-Euro with DOC Retrofitted	88
Euro I	89
Euro II	200
Euro III	201
Euro IV	202
Euro V	203
Euro VI	204

Petrol Light Goods Vehicles with GVW ≤ 2.5 t (LGV3)

Vehicle Emission Standards	Technology Group Index
pre-ULP	1
ULP	8
Euro 1	9
Euro 2	15
Euro 3	18
Euro 4	28
Euro 5	30
Euro 6	38

Petrol Light Goods Vehicles with GVW > 2.5-3.5 t (LGV4)

Vehicle Emission Standards	Technology Group Index
pre-Euro	1
Euro 1	9
Euro 2	15
Euro 3	18
Euro 4	28
Euro 5	30
Euro 6	38

Diesel Light Goods Vehicles with GVW ≤ 3.5 t (LGV3 & LGV4)

Vehicle Emission Standards	Technology Group Index
pre-Euro	178
pre-Euro with Traps Retrofitted	179
pre-Euro with DOC Retrofitted	180
Euro 1	181
Euro 2	182
Euro 3	183
Euro 4	184
Euro 5	185
Euro 5 – DPF	196
Euro 6	195

Diesel Light Goods Vehicles with GVW of 3.5-5.5 t (LGV6)

Vehicle Emission Standards	Technology Group Index
pre-Euro	120
pre-Euro with DOC Retrofitted	121
Euro I	122
Euro II	127
Euro III	128
Euro IV – DPF	132
Euro IV – POC	119
Euro V – DPF	133
Euro V – DPF & SCR	139
Euro VI	134

Diesel Medium Goods Vehicles with GVW of 5.5-15 t (HGV7)

Vehicle Emission Standards	Technology Group Index
pre-Euro	123
pre-Euro with DOC Retrofitted	124
Euro I	125
Euro II	126
Euro III	129
Euro IV – DPF	130
Euro IV – POC	136
Euro V – DPF	131
Euro V – SCR	137
Euro V – DPF & SCR	138
Euro VI	135

Diesel Medium Goods Vehicles with GVW 15-24 t (HGV8)

Vehicle Emission Standards	Technology Group Index
pre-Euro	153
pre-Euro with DOC Retrofitted	155
Euro I	154
Euro II	157
Euro III	159
Euro IV	160
Euro IV - DPF	163
Euro IV - SCR	164
Euro V	161
Euro V - DPF	165
Euro V - SCR	166
Euro VI	162

Diesel Heavy Goods Vehicles with GVW >24 t (HGV9)

Vehicle Emission Standards	Technology Group Index
pre-Euro	246
pre-Euro with DOC Retrofitted	248
Euro I	247
Euro II	250
Euro III	252
Euro IV	253
Euro IV - DPF	256
Euro IV - SCR	257
Euro V	254
Euro V - DPF	258
Euro V - SCR	259
Euro VI	255

Diesel Non-franchised Buses with GVW ≤ 6.4 t (NFB6)

Vehicle Emission Standards	Technology Group Index
pre-Euro	90
pre-Euro with DOC Retrofitted	91
Euro I	92
Euro II	97
Euro III	98
Euro IV	102
Euro V	103
Euro VI	104

Diesel Non-franchised Buses with GVW of 6.4-15 t except Franchised Buses (NFB7)

Vehicle Emission Standards	Technology Group Index
pre-Euro	43
pre-Euro with DOC Retrofitted	44
Euro I	45
Euro II	46
Euro III	99
Euro IV - DPF	100
Euro IV - SCR	93
Euro V	101
Euro VI	105

Diesel Non-franchised Buses with GVW 15-24 t (NFB8)

Vehicle Emission Standards	Technology Group Index
pre-Euro	53
pre-Euro with DOC Retrofitted	55
Euro I	54
Euro II	57
Euro III	59
Euro IV	60
Euro IV - DPF	63
Euro IV - SCR	64
Euro V	61
Euro V - DPF	65
Euro V - SCR	66
Euro VI	62

Diesel Non-franchised Buses with GVW >24 t (NFB9)

Vehicle Emission Standards	Technology Group Index
pre-Euro	232
pre-Euro with DOC Retrofitted	234
Euro I	233
Euro II	236
Euro III	238
Euro IV	239
Euro IV - DPF	242
Euro IV - SCR	243
Euro V	240
Euro V - DPF	244
Euro V - SCR	245
Euro VI	241

Diesel Single Deck Franchised Buses (FBSD)

Vehicle Emission Standards	Technology Group Index
pre-Euro	106
pre-Euro with DOC Retrofitted	107
Euro I	108
Euro I with DOC Retrofitted	109
Euro I with DPF Retrofitted	115
Euro II	110
Euro II with DPF Retrofitted	111
Euro II with DPF & SCR Retrofitted	230
Euro II with VEC ¹ Retrofitted	117
Euro III	112
Euro III with DPF Retrofitted	113
Euro III with DPF & SCR Retrofitted	231
Euro IV	114
Euro V	116
Euro VI	118

Diesel Double Deck Franchised Buses (FBDD)

Vehicle Emission Standards	Technology Group Index
pre-Euro	216
pre-Euro with DOC Retrofitted	217
Euro I	218
Euro I with DOC Retrofitted	219
Euro I with DPF Retrofitted	225
Euro II	220
Euro II with DPF Retrofitted	221
Euro II with DPF & SCR Retrofitted	228
Euro II with VEC ¹ Retrofitted	227
Euro III	222
Euro III with DPF Retrofitted	223
Euro III with DPF & SCR Retrofitted	229
Euro IV	224
Euro V	226
Euro VI	215

¹ Volvo Super Olympian Euro II buses fitted with Volvo Emission Control System (VEC) which include DPF, EGR (Exhaust Gas Recirculation) and exhaust cooler are considered Euro III buses

Evaporative Technology Groups Indexes

Vehicle Class	Fuel Type	Vehicle Emission Standards	Evap TG Index
Private Cars (PC)	Petrol	Uncontrolled	1
		Euro 2+, Carbon Trap with Cat	3
		Euro 2+, Carbon Trap	7
		Euro 2+, SHED	9
		Euro 3+, 1-day Diurnal	14
Motorcycles (MC)	Petrol	Uncontrolled	1
		Euro 4	9
Private Light Buses with GVW ≤ 3.5 t (PV4)	Petrol	Uncontrolled	21
		Euro 2+, Carbon Trap	27
		Euro 3+, 1-day Diurnal	34
Light Goods Vehicles (LGV)	Petrol	Uncontrolled	21
		Euro 2+, Carbon Trap	27
		Euro 3+, 1-day Diurnal	34