

USA EPA (Environmental Protection Agency) Data base 2008

Reproduced as OEDA (Outboard Engine Distributors Assn) Database in Australia

Make	HP	Model	Technology	Capacity cc	Kg	OEDA Emissions Star Rating	Emissions HC+NOX (g/kw/hr)	Emissions CO (g/kw/hr)	Emissions HC+NOX (kg/hr)
Honda	2	B2D4 SCHD	4c	57	12.2	3	24.9	388.2	0.04
Yamaha - premix	2	2CMHS	2c	50	16.5	not rated			
Suzuki	2.2	DT2.2S	2c	55	12.0	not rated			
Mercury	2.5	1F02201FK	4c	85	17.0	3	27.7	468.8	0.05
Mercury	2.5	M	2c	74.6	13	0	277.1	399.4	0.52
Suzuki	2.5	DF2.5S	4c	68	13	3	23.3	378.6	0.04
Tohatsu	2.5	MFS2.5A S	4c	85.5	17.5	3	27.7	468.8	0.05
Tohatsu	2.5	M2.5A2 S	2c	74.6	12.5	0	305.3	150.0	0.57
Yamaha	2.5	F2.5AMHS	4c	72	17	2	42.9	466.2	0.08
Yamaha - premix	3	3AMHS	2c	70	16.5	not rated			
Mercury	3.3	M	2c	74.6	13	0	277.1	399.4	0.68
Mercury	3.5	1F03201FK	4c	85	17.0	3	27.7	468.8	0.07
Tohatsu	3.5	MFS3.5A S	4c	85.5	17.5	3	27.7	468.8	0.07
Tohatsu	3.5	M3.5A2 S	2c	74.6	12.5	0	305.3	150.0	0.80
Tohatsu	3.5B	M3.5B2 S	2c	74.6	13	0	280.2	150.0	
Mercury	4	1F04201FK	4c	123	25.0	3	24.3	468.9	0.07
Mercury	4	M	2c	102	20	1	221.9	236.2	0.66
Suzuki	4	DF4S	4c	138	26	3	18.7	272.2	0.06
Tohatsu	4	MFS4BD S	4c	123	26.0	3	24.3	468.9	0.07
Tohatsu	4	M4C S	2c	102	19	1	204.0	258.4	0.61
Yamaha	4	F4AMHS	4c	112	22	3	26.8	254.3	0.08
Yamaha - premix	4	4ACMHS	2c	83	21	0	332.3	598.3	0.99
Honda	5	BF5A4 SB	4c	127	27.0	3	20.5	374.0	0.08
Mercury	5	1F05201FK	4c	123	25.0	3	24.3	468.9	0.09
Mercury	5	M	2c	102	20	1	221.9	236.2	0.83
Suzuki	5	DF5S	4c	138	26	3	18.7	272.2	0.07
Tohatsu	5	MFS5BD S	4c	123	25.0	3	24.3	468.9	0.09
Tohatsu	5	M5B S	2c	102	19	1	204.0	258.4	0.76
Yamaha - premix	5	5CMHS	2c	103	21	not rated			
Mercury	6	1F06201FK	4c	123	25.0	3	24.3	468.9	0.11
Mercury	6	M lite	2c	169	26	0	306.1	225.5	1.37
Suzuki	6	DF6S	4c	138	26	3	18.7	272.2	0.08
Tohatsu	6	MFS6B S	4c	123	25.0	3	24.3	468.9	0.11
Tohatsu	6	M6B S	2c	169	26	1	220.9	377.3	0.99
Yamaha - premix	6	6CMHS	2c	165	27	0	322.7	331.7	1.44
Honda	8	BF8D2 SHD	4c	222	42.0	3	17.9	336.2	0.11
Mercury	8	1F08201FK	4c	209	25.0	3	20.7	144.4	0.12
Mercury	8	M lite	2c	169	26	0	306.1	225.5	1.83

Make	HP	Model	Technology	Capacity cc	Kg	OEDA Emissions Star Rating	Emissions HC+NOX (g/kw/hr)	Emissions CO (g/kw/hr)	Emissions HC+NOX (kg/hr)
Tohatsu	8	MFS8A3 S	4c	209	37.0	3	20.0	296.4	0.12
Tohatsu	8	M8B S	2c	169	26	1	220.9	377.3	1.32
Yamaha	8	F8CMHS	4c	197	38	3	29.3	365.3	0.17
Yamaha - high thrust	8	FT8DEP	4c	197	49	3	29.3	365.3	0.17
Yamaha - premix	8	8CMHS	2c	165	27	0	322.7	331.7	1.93
Tohatsu	9.8	MFS9.8A3 S	4c	209	37.0	3	20.0	296.4	0.15
Tohatsu	9.8	M9.8B S	2c	169	26	1	195.0	150.0	1.43
Mercury	9.9	1F06201FK	4c	209	38.1	3	20.7	144.4	0.15
Mercury	9.9	M	2c	262	35	0	323.2	533.4	2.39
Mercury - Big Foot	9.9	EL bigfoot	4c	209	43	3	20.7	144.4	0.15
Suzuki	9.9	DT9.9S	2c	284	38.5	not rated			
Tohatsu	9.9	M9.9D2 S	2c	247	37	1	180.9	287.2	1.34
Yamaha	9.9 HT	F9.9GEPL	4c	212	44.3	3 est			
Yamaha	9.9	F9.9FMHS	4c	212	39.9	3 est			0.00
Yamaha - high thrust	9.9	FT9.9DEL	4c	323	50	3	22.3	229.0	0.16
Yamaha - premix	9.9	9.9FMHS	2c	246	36	1	249.6	408.4	1.84
Honda	10	BF10D2 SHD	4c	222	42.0	3	17.9	336.2	0.13
Mercury	10	Sea Pro	2c	262	34	0	323.2	533.4	2.41

Make	HP	Model	Technology	Capacity cc	Kg	OEDA Emissions Star Rating	Emissions HC+NOX (g/kw/hr)	Emissions CO (g/kw/hr)	Emissions HC+NOX (kg/hr)
Honda	15	BF15D3 LHD	4c	350	46.5	3	15.5	172.6	0.17
Mercury	15	ML	4c	323	50	3	17.0	181.3	0.19
Mercury	15	M L super	2c	294	42	1	173.5	270.3	1.94
Mercury	15	ML	2c	262	35	0	323.2	533.4	3.62
Mercury	15	Sea Pro ML	2c	262	34	0	323.2	533.4	3.62
Mercury - Big Foot	15	ML bigfoot	4c	323	58	3	17.0	181.3	0.19
Suzuki	15	DT15L	4c	302	49	3	15.4	227.6	0.17
Suzuki	15	DT15S	2c	284	38.5	not rated			
Tohatsu	15	MFS15B2 S	4c	328	52.0	3	18.3	262.5	0.20
Tohatsu	15	M15D2 S	2c	247	37	1	180.9	287.2	2.02
Yamaha	15	F15CHMS	4c	323	50	3	22.3	229.0	0.25
Yamaha - premix	15	15FMHL	2c	246	36	1	249.6	408.4	2.79
Tohatsu	18	MFS18B2 L	4c	328	52.0	3	18.3	262.5	0.25
Tohatsu	18	M18E2 S	2c	294	37	1	173.5	270.3	2.33
Honda	20	BF20D3 LHD	4c	350	46.5	3	15.5	172.6	0.23
Mercury	20		4c	351	53.0	3	18.4		0.27
Yamaha	20	F20B MHL	4c	362	53.7	3 est			
Yamaha - premix	20	20DMHL	2c	395	48	1	201.9	200.4	3.01
Evinrude E-TEC	25		2di	576	64.4	3 est			0.00
Honda	25	BF25D4 LHGD	4c	552	72.5	3	14.1	217.2	0.26
Mercury	25	ML	4i	526	71	3	14.9	279.4	0.28
Mercury	25	ML	2c	430	51	1	164.2	202.9	3.06
Suzuki	25	DF25L	4c	538	72	3	15.5	201.2	0.29
Tohatsu	25	MFS25B (EFI) L	4i	526	82.5	3	14.5	282.8	0.27
Tohatsu	25	M25C3 L	2c	429	52	1	160.7	194.0	3.00
Yamaha	25	F25AETL	4c	498	71	3	14.6	230.5	0.27
Yamaha - CV Premix	25	25BMHL	2c	496	54.5	1	211.2	326.9	3.94
Yamaha - high thrust	25	FT25BETX	4c	498	90	3	14.6	230.5	0.27
Yamaha - premix	25	25NMHL	2c	395	48	1	201.9	200.4	3.76

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Evinrude E-TEC	30		2di	576	64.4	3 est			0.00
Honda	30	BF30D4 LHGD	4c	552	72.5	3	14.1	217.2	0.31
Mercury	30	ML GA EFI	4i	526	71	3	14.9	279.4	0.33
Mercury	30	MLH lite	2c	430	48	1	164.2	202.9	3.67
Suzuki	30	DF30TL	4c	597	96	3	16.4	317.5	0.37
Suzuki	30	DT30L	2c	499	60.5	not rated			
Tohatsu	30	MFS30B (EFI) L	4i	526	82.5	3	14.5	282.8	0.32
Tohatsu	30	M30A4 L	2c	429	52	1	164.2	202.9	3.67
Yamaha	30	F30AETL	4c	747	90.4	3	14.7	158.1	0.33
Yamaha - CV Premix	30	30HMH	2c	496	54.5	1	237.6	425.6	5.32
Yamaha - precision blend	30	30DETOL	2c	496	66	1	237.6	425.6	5.32
Evinrude E-TEC	40	E40DRLSD	2di	864	109	3	13.4	66.5	0.40
Honda	40	BF40D LHTD	4c	808	98.0	3	12.6	87.0	0.38
Mercury	40	ML	4c	747	93	3	13.0	185.4	0.39
Mercury	40	ELPTO	2c	644	78	1	142.2	192.3	4.24
Mercury	40	MHL Lite	2c	697	69	1	142.2	192.3	4.24
Mercury	40	Sea Pro MLG	2c	645	74	1	142.2	192.3	4.24
Mercury - Big Foot	40	ELPT EFI bigfoot	4i	995	120	3	14.2	188.9	0.42
Suzuki	40	DF40TL	4i	814	110	3	13.8	235.3	0.41
Suzuki	40	DT40L	2c	696	76.0	not rated			
Tohatsu	40	M40D2 L	2c	697	85	1	153.0	150.0	4.56
Tohatsu - TLDI	40	MD40B EPTOL	2di	697	93.4	2	30.6	119.2	0.91
Yamaha	40	F40BETL	4c	747	90.4	3	14.7	158.1	0.44
Yamaha - CV Premix	40	40XWTL	2c	703	80.7	1	196.6	364.8	5.86
Yamaha - precision blend	40	40VETOL	2c	698	88	1	167.5	329.7	5.00
Evinrude E-TEC	50	E50DPLSD	2di	864	109	3	13.4	66.5	0.50
Honda	50	BF5D LHDT	4c	808	98.0	3	12.6	87.0	0.47
Mercury	50	ELPT EFI	4i	995	112	3	14.2	188.9	0.53
Mercury	50	ELPTO	2c	967	93	1	140.1	411.0	5.23
Mercury - Big Foot	50	ELPT EFI bigfoot	4i	995	120	3	14.2	188.9	0.53
Suzuki	50	DF50TL	4i	814	110	3	13.8	235.3	0.51
Tohatsu	50	M50D2 EPTOL	2c	697	85	1	167.8	387.0	6.26
Tohatsu - TLDI	50	MD50B EPTOL	2di	697	93.5	2	30.6	119.2	1.14
Yamaha	50	F50FEHTL	4i	996	110	3	15.1	128.7	0.56
Yamaha - CV Premix	50	50HETL	2c	698	87	1	167.5	329.7	6.24
Yamaha - precision blend	50	50HETOL	2c	698	86	1	167.5	329.7	6.24
Mercury	55	Sea Pro MHL	2c	967	100	1	140.1	411.0	5.75
Evinrude E-TEC	60	E60DPLSD	2di	864	109	3	13.4	66.5	0.60
Mercury	60	ELPT EFI	4i	995	112	3	14.2	188.9	0.63
Mercury	60	ELPTO	2c	967	99.5	1	140.1	411.0	6.27
Mercury	60	Sea Pro Big Foot	2c	967	108	1	140.1	411.0	6.27
Mercury - Big Foot	60	ELPTO bigfoot	2c	967	109	1	140.1	411.0	6.27

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Make	HP	Model	Technology	Capacity cc	Kg	OEDA Emissions Star Rating	Emissions HC+NOX (g/kw/hr)	Emissions CO (g/kw/hr)	Emissions HC+NOX (kg/hr)
Mercury - Big Foot	60	ELPT EFI bigfoot	4i	995	120	3	14.2	188.9	0.63
Suzuki	60	DF60TL	4i	1298	162	3	12.6	199.3	0.56
Tohatsu	60	M60C EPTOL	2c	938	115	1	157.9	298.1	7.07
Yamaha	60	F60CETL	4i	996	110	3	15.1	128.7	0.67
Yamaha - CV Premix	60	60FETL	2c	849	106	1	168.2	319.4	7.53
Yamaha - CV Premix	60	E60HMHDL	2c	849	102	1	168.2	319.4	7.53
Yamaha - high thrust	60	FT60DETL	4i	996	115	3	15.1	128.7	0.67
Yamaha - precision blend	60	60FETOL	2c	849	105	1	168.2	319.4	7.53
Suzuki	70	DF70TL	4i	1298	162	3	12.6	199.3	0.66
Tohatsu	70	M70C EPTOL	2c	938	115	1	151.4	291.2	7.90
Tohatsu - TLDI	70	MD70B EPTOL	2DI	1267	143	2	31.2	91.2	1.63
Yamaha - precision blend	70	70BETOL	2c	849	105.5	1	168.2	319.4	8.78
Evinrude E-TEC	75	E75DPLSD	2di	1295	145	3	12.3	69.8	0.69
Honda	75	BF75DKO LRTL	4i	1497	162	3	16.1	61.0	0.90
Mercury	75	ELPT EFI	4i	1732	181	3	15.4	336.0	0.86
Mercury	75	ELPTO	2c	1386	138	1	122.9	401.5	6.87
Mercury	75	Sea Pro MLHG	2c	1386	139	1	122.9	401.5	6.87
Mercury - Optimax	75	ELPT	2di	1526	170	3	13.3	127.5	0.75
Yamaha	80	F80BETL	4i	1596	172	3	16.2	102.0	0.97

Make	HP	Model	Technology	Capacity cc	Kg	OEDA Emissions Star Rating	Emissions HC+NOX (g/kw/hr)	Emissions CO (g/kw/hr)	Emissions HC+NOX (kg/hr)
Evinrude E-TEC	90	E90DSLSD	2di	1295	145	3	12.3	69.8	0.83
Honda	90	BF90DKO LRTL	4i	1497	163	3	16.1	61.0	1.08
Mercury	90	ELPT EFI	4i	1732	181	3	15.4	336.0	1.04
Mercury	90	ELPTO	2c	1386	138	1	122.9	401.5	8.25
Mercury - Optimax	90	ELPT	2di	1526	170	3	13.3	127.5	0.89
Suzuki	90	DF90TL	4i	1950	189	3	12.6	233.5	0.84
Tohatsu	90	M90A EPTOL	2c	1267	135	1	147.7	286.0	9.91
Tohatsu - TLDI	90	MD90B EPTOL	2DI	1267	143	2	31.2	91.2	2.09
Yamaha - precision blend	90	90AETOL	2c	1140	122.5	1	161.4	432.5	10.53
Yamaha	100	F100DETL	4i	1596	172	3	16.2	102.0	1.21
Evinrude E-TEC	115	E115DPLSU	2di	1726	167	3	12.5	114.9	1.07
Johnson	115	J115PXSD	2c	1726	152	1	155.4	266.1	13.33
Honda	115	BF115A2 LD	4i	2254	225	3	12.7	151.8	1.09
Johnson	115	J115PL4SD	4i	1950	189	3	12.6	233.5	1.08
Mercury	115	ELPT EFI	4i	1732	181	3	15.4	336.0	1.32
Mercury - Optimax	115	ELPT	2di	1526	170	3	13.3	127.5	1.14
Suzuki	115	DF115TL	4i	1950	189	3	12.6	233.5	1.08
Tohatsu	115	M115A2 EPTOL	2c	1768	164	1	199.6	150.0	17.11
Tohatsu - TLDI	115	MD115A EPTOL	2di	1768	173	2	31.1	128.5	2.66
Yamaha	115	F115AETL	4i	1741	188	3	11.9	246.5	1.02
Yamaha - precision blend	115	115CETOL	2c	1730	167	1	169.4	356.4	14.53
Yamaha - precision blend	130	130BETOL	2c	1730	167	1	140.0	392.8	13.58
Honda	135	BF135A4 LD	4i	2354	217	3	14.1	80.9	1.42
Mercury - Optimax	135	L	2di	2507	195	3	13.2	166.6	1.33
Mercury - Verado	135	L	4i sc	1732	231	2	15.4	336.0	1.55
Suzuki	140	DF140TX	4i	2044	186	3	12.6	233.5	1.31
Tohatsu	140	M140A2 EPTOL	2c	1768	164	1	167.3	355.3	17.47
Johnson	150	J150PLSO	2c	2591	177	1	124.1	418.1	13.88

10x

Make	HP	Model	Technology	Capacity cc	Kg	OEDA Emissions Star Rating	Emissions HC+NOX (g/kw/hr)	Emissions CO (g/kw/hr)	Emissions HC+NOX (kg/hr)
Evinrude E-TEC	150	E150DLSU	2di	2589	190	3	15.2	114.2	1.70
Evinrude E-TEC	150 HO	E150DHLSC	2di	2589	190	3	15.2	114.2	1.70
Honda	150	BF150A4 LD	4i	2354	217	3	14.1	80.9	1.58
Mercury	150	L EFI	2i	2507	193	1	117.2	282.4	13.11
Mercury - Optimax	150	L	2di	2507	195	2	13.2	166.6	1.48
Mercury - Verado	150	L	4i sc	1732	231	2	15.4	336.0	1.73
Suzuki	150	DF150TX	4i	2867	211	3	12.9	159.0	1.44
Yamaha	150	F150AETL	4i	2670	216	3	10.8	222.3	1.21
Yamaha - HPDI	150	Z150QETOL	2di	2596	220	2	30.5	89.2	3.41
Yamaha - precision blend	150	150FETOL	2c	2596	198	1	130.0	354.8	14.54
Evinrude E-TEC	175	E175DLSU	2di	2589	190	3	15.2	114.2	1.99
Honda	175	BF175A6 XD	4i	3471	267	3	11.5	77.8	1.51
Mercury - Optimax	175	XL	2di	2507	195	2	26.3	146.2	3.43
Mercury - Verado	175	XL	4i sc	1732	239	2	15.4	336.0	2.01
Suzuki	175	DF175TX	4i	2867	211	3	12.9	159.0	1.68
Yamaha - HPDI	175	Z175GETOX	2di	2596	220	2	30.5	89.2	3.98
Yamaha - precision blend	175	175DETOL	2c	2596	198	1	122.5	241.8	15.99
Evinrude E-TEC	200	E200DLSU	2di	2589	190	3	15.2	114.2	2.27
Evinrude E-TEC	200	E200DHXSD	2di	3279	238	3	10.6	84.9	1.58
Honda	200	BF200A6 XD	4i	3471	267	3	11.5	77.8	1.72
Mercury	200	XL EFI	2i	2507	196	1	117.2	282.4	17.48
Mercury - Optimax	200	XL	2di	3032	225	2	26.3	146.2	3.92
Mercury - Optimax	200XS	200XLDTS	2di	2507	197	3 est			
Mercury - Verado	200	1200V13FD XL	4i sc	2598	294	2	15.1	278.8	2.24
Mercury - Verado	200LW	XL	4i sc	1732	239	2 est			
Suzuki	200	DF200TX	4i	3614	263	3	13.0	200.9	1.93
Yamaha	200	F200AETX	4i	3352	269	3	14.5	259.3	2.16
Yamaha - HPDI	200	Z200NETOX	2di	2596	220	2	30.5	89.2	4.55
Yamaha - precision blend	200	200FETOX	2c	2596	198	1	122.5	241.8	18.27

x12

Make	HP	Model	Technology	Capacity cc	Kg	OEDA Emissions Star Rating	Emissions HC+NOX (g/kw/hr)	Emissions CO (g/kw/hr)	Emissions HC+NOX (kg/hr)
Evinrude E-TEC	225	E225DPXSD	2di	3279	238	3	10.6	84.9	1.77
Evinrude E-TEC	225 HO	E225DHLSC	2di	3279	238	3	10.6	84.9	
Honda	225	BF225A6 XD	4i	3471	267	3	11.5	77.8	1.94
Mercury	225	XL EFI	2i	3032	218	1	103.6	248.3	17.38
Mercury - Optimax	225	XL	2DI	3032	225	2	26.3	146.2	4.41
Mercury - Verado	225	XL	4i sc	2598	294	2	15.1	278.8	2.53
Mercury	225 3L	Sea Pro XL	2i	3047	209	2	26.3	146.2	
Suzuki	225	DF225TXX	4i	3614	263	3	13.0	200.9	2.17
Yamaha	225	F225AETX	4i	3352	269	3	14.5	259.3	2.43
Evinrude E-TEC	250	E250DPXSD	2di	3279	238	3	10.6	84.9	1.97
Mercury	250	XL EFI	2i	3032	239	1	103.6	248.3	19.32
Mercury - Optimax	250XS	250 XL PRO XS	2di	3032	229				
Mercury - Verado	250	XL	4i sc	2598	294	2	15.1	278.8	2.81
Suzuki	250	DF250TX	4i	3614	263	3	13.0	200.9	2.41
Yamaha	250	F250AETX	4i	3352	284	3	14.5	259.3	2.70
Mercury - Verado	275	XL	4i sc	2598	294	2	15.1	278.8	3.09
Evinrude E-TEC	300	E300DPXSD	2di	3441	242	2	29.5	127.23	6.60
Mercury - Verado	300	XL	4i sc	2598	294	2	tba	tba	
Suzuki	300	DF300TX	4i	4028	274	3	16.0	75.7	3.57
Yamaha	300	F300AETX	4i	5330	365	3	9.2	216.1	2.05
Yamaha	350	F350AETX	4i	5330	365	3	9.2	216.1	2.39

x10

Notes

Shaft Length: representative models above use the following convention where possible
up to 10hp - short shaft
10 to 150hp - long shaft
over 150hp - extra long shaft
up to 18hp - tiller steer
20hp and over - forward steer