

UE DIESEL ENGINES



MAIN FEATURES

- 1 Lowest Specific Fuel Consumption
- 2 High Propeller Efficiency
- 3 High Reliability
- 4 Low-Quality Fuel Compatibility
- 5 Easy Maintenance
- 6 Compact Design

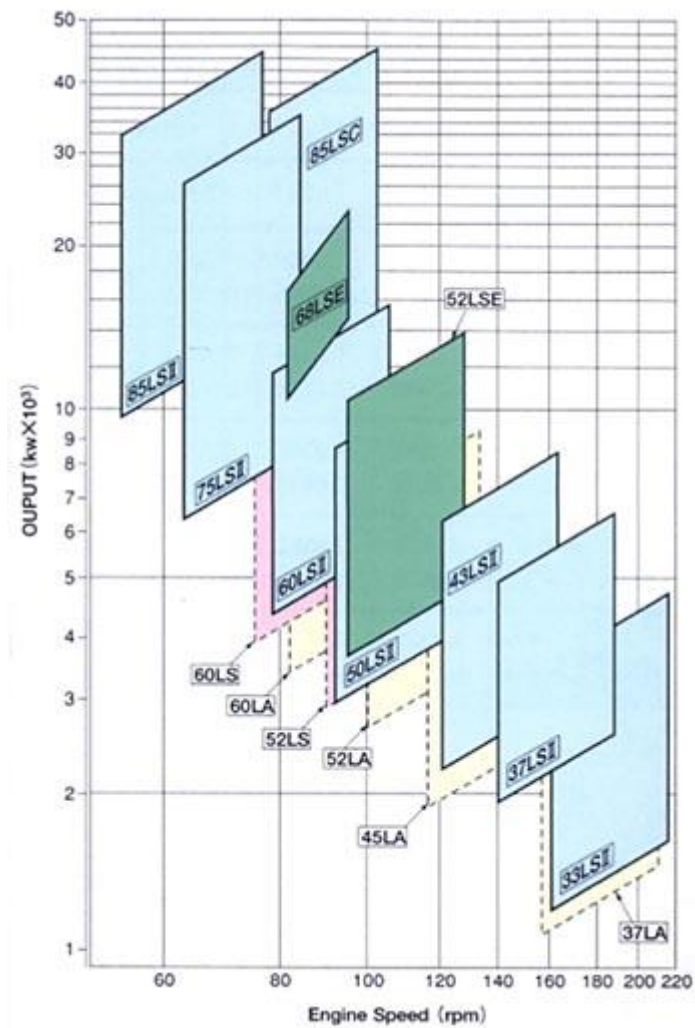
PRINCIPAL PARTICULARS

Engine Type	Rating	Specific Fuel Oil Consumption g/kWh (g/PSH)	Engine Speed rpm	Engine Output kW(PS)								
				Number of Cylinders								
				4	5	6	7	8	9	10	12	
UEC85LSC	P1	165 (121)	102		19,500 (26,500)	23,400 (31,800)	27,300 (37,100)	31,200 (42,400)	35,100 (47,700)	39,000 (53,000)	46,800 (63,600)	
	P2	158 (116)			14,100 (19,150)	16,920 (22,980)	19,740 (26,800)	22,560 (30,630)	25,380 (34,460)	28,200 (38,290)	33,840 (45,950)	
	P3	165 (121)	76		14,625 (19,880)	17,550 (23,850)	20,475 (27,830)	23,400 (31,800)	26,325 (35,780)	29,250 (39,750)	35,100 (47,700)	
	P4	158 (116)			10,575 (14,360)	12,690 (17,230)	14,805 (20,100)	16,920 (22,980)	19,035 (25,850)	21,150 (28,720)	25,380 (34,460)	
UEC85LSII	P1	163 (120)	76		19,300 (26,250)	23,160 (31,500)	27,020 (36,750)	30,880 (42,000)	34,740 (47,250)	38,600 (52,500)	46,320 (63,000)	
	P2	156 (115)			13,950 (18,970)	16,740 (22,760)	19,530 (26,550)	22,320 (30,350)	25,110 (34,140)	27,900 (37,930)	33,480 (45,520)	
	P3	163 (120)	54		13,700 (18,640)	16,440 (22,370)	19,180 (26,090)	21,920 (29,820)	24,660 (33,550)	27,400 (37,280)	32,880 (44,730)	
	P4	156 (115)			9,900 (13,470)	11,880 (16,160)	13,860 (18,850)	15,840 (21,540)	17,820 (24,240)	19,800 (26,930)	23,760 (32,320)	
UEC75LSII	P1	165 (121)	84		11,760 (16,000)	14,700 (20,000)	17,640 (24,000)	20,580 (28,000)	23,520 (32,000)	26,460 (36,000)	29,400 (40,000)	35,280 (48,000)
	P2	158 (116)			8,500 (11,560)	10,625 (14,450)	12,750 (17,340)	14,875 (20,230)	17,000 (23,120)	19,125 (26,010)	21,250 (28,900)	25,500 (34,680)
	P3	165 (121)	63		8,820 (12,000)	11,025 (15,000)	13,230 (18,000)	15,435 (21,000)	17,640 (24,000)	19,845 (27,000)	22,050 (30,000)	26,460 (36,000)
	P4	158 (116)			6,380 (8,670)	7,975 (10,840)	9,570 (13,010)	11,165 (15,170)	12,760 (17,340)	14,355 (19,510)	15,950 (21,680)	
UEC60LSII	P1	166 (122)	105		7,940 (10,800)	9,925 (13,500)	11,910 (16,200)	13,895 (18,900)	15,880 (21,600)			
	P2	159 (117)			5,740 (7,800)	7,175 (9,750)	8,610 (11,700)	10,045 (13,660)	11,480 (15,610)			
	P3	166 (122)	79		5,960 (8,100)	7,450 (10,130)	8,940 (12,150)	10,430 (14,180)	11,920 (16,200)			
	P4	159 (117)			4,300 (5,850)	5,375 (7,320)	6,450 (8,780)	7,525 (10,240)	8,600 (11,700)			

UEC50LSII	P1	167 (123)	124	5,500 (7,480)	6,875 (9,350)	8,250 (11,220)	9,625 (13,090)	11,000 (14,960)	12,375 (16,830)			
	P2	160 (118)		3,980 (5,400)	4,975 (6,760)	5,970 (8,110)	6,965 (9,460)	7,960 (10,810)	8,955 (12,160)			
	P3	167 (123)	93	4,120 (5,610)	5,150 (7,010)	6,180 (8,420)	7,210 (9,820)	8,240 (11,220)	9,270 (12,620)			
	P4	160 (118)		2,980 (4,050)	3,725 (5,070)	4,470 (6,080)	5,215 (7,090)	5,960 (8,110)	6,705 (9,120)			
UEC43LSII	P1	173 (127)	160	4,200 (5,720)	5,250 (7,150)	6,300 (8,580)	7,350 (10,010)	8,400 (11,440)				
	P2	166 (122)		3,040 (4,130)	3,800 (5,170)	4,560 (6,200)	5,320 (7,230)	6,080 (8,270)				
	P3	173 (127)	120	3,160 (4,290)	3,950 (5,360)	4,740 (6,440)	5,530 (7,510)	6,320 (8,580)				
	P4	166 (122)		2,280 (3,100)	2,850 (3,870)	3,420 (4,650)	3,990 (5,420)	4,560 (6,200)				
UEC37LSII	P1	175 (129)	186		3,860 (5,250)	4,635 (6,300)	5,405 (7,350)	6,180 (8,400)				
	P2	169 (124)			2,795 (3,800)	3,355 (4,560)	3,910 (5,320)	4,470 (6,080)				
	P3	175 (129)	140		2,905 (3,950)	3,485 (4,740)	4,065 (5,530)	4,650 (6,320)				
	P4	169 (124)			2,095 (2,850)	2,515 (3,420)	2,935 (3,990)	3,355 (4,560)				
UEC33LSII	P1	177 (130)	215	2,265 (3,080)	2,830 (3,850)	3,400 (4,620)	3,965 (5,390)	4,530 (6,160)				
	P2	170 (125)		1,640 (2,230)	2,045 (2,780)	2,455 (3,340)	2,860 (3,890)	3,270 (4,450)				
	P3	177 (130)	162	1,700 (2,310)	2,125 (2,890)	2,550 (3,470)	2,970 (4,040)	3,400 (4,620)				
	P4	170 (125)		1,230 (1,670)	1,535 (2,090)	1,840 (2,500)	2,145 (2,920)	2,455 (3,340)				
UEC68LSE	P1	165 (121)	95		14,700 (20,000)	17,640 (24,000)	20,580 (28,000)	23,520 (32,000)				
	P2	159 (117)			11,775 (16,000)	14,130 (19,200)	16,485 (22,400)	18,840 (25,600)				
	P3	165 (121)	81		12,525 (17,050)	15,030 (20,460)	17,535 (23,870)	20,040 (27,280)				
	P4	159 (117)			10,050 (13,650)	12,060 (16,380)	14,070 (19,110)	16,080 (21,840)				
UEC52LSE	P1	167 (123)	127	6,820 (9,280)	8,525 (11,600)	10,230 (13,920)	11,935 (16,240)	13,640 (18,560)				
	P2	160 (118)		4,940 (6,720)	6,175 (8,400)	7,410 (10,080)	8,645 (11,760)	9,880 (13,440)				
	P3	167 (123)	95	5,080 (6,920)	6,350 (8,650)	7,620 (10,380)	8,890 (12,110)	10,160 (13,840)				
	P4	160 (118)		3,700 (5,040)	4,625 (6,300)	5,550 (7,560)	6,475 (8,820)	7,400 (10,080)				
UEC60LS	P1	166 (122)	100	7,080 (9,600)	8,850 (12,000)	10,620 (14,400)	12,390 (16,800)	14,160 (19,200)				
	P2	159 (117)		5,080 (6,920)	6,350 (8,650)	7,620 (10,380)	8,890 (12,110)	10,160 (13,840)				
	P3	166 (122)	75	5,280 (7,200)	6,600 (9,000)	7,920 (10,800)	9,240 (12,600)	10,560 (14,400)				
	P4	159 (117)		3,800 (5,200)	4,750 (6,500)	5,700 (7,800)	6,650 (9,100)	7,600 (10,400)				
UEC52LS	P1	167 (123)	120	5,320 (7,200)	6,650 (9,000)	7,980 (10,800)	9,310 (12,600)	10,640 (14,400)				
	P2	160 (118)		3,840 (5,200)	4,800 (6,500)	5,760 (7,800)	6,720 (9,100)	7,680 (10,400)				
	P3	167 (123)	90	3,960 (5,400)	4,950 (6,750)	5,940 (8,100)	6,930 (9,450)	7,920 (10,800)				
	P4	160 (118)		2,880 (3,880)	3,600 (4,850)	4,320 (5,820)	5,040 (6,790)	5,760 (7,760)				
UEC60LA	P1	166 (122)	110	6,200 (8,400)	7,750 (10,500)	9,300 (12,600)	10,850 (14,700)	12,400 (16,800)				
	P2	159 (117)		4,440 (6,040)	5,550 (7,550)	6,660 (9,060)	7,770 (10,570)	8,880 (12,080)				
	P3	166 (122)	83	4,640 (6,320)	5,800 (7,900)	6,960 (9,480)	8,120 (11,060)	9,280 (12,640)				
	P4	159 (117)		3,360 (4,560)	4,200 (5,700)	5,040 (6,840)	5,880 (7,980)	6,720 (9,120)				
UEC52LA	P1	167 (123)	133	4,720 (6,400)	5,900 (8,000)	7,080 (9,600)	8,260 (11,200)	9,440 (12,800)				
	P2	160 (118)		3,400 (4,600)	4,250 (5,750)	5,100 (6,900)	5,950 (8,050)	6,800 (9,200)				

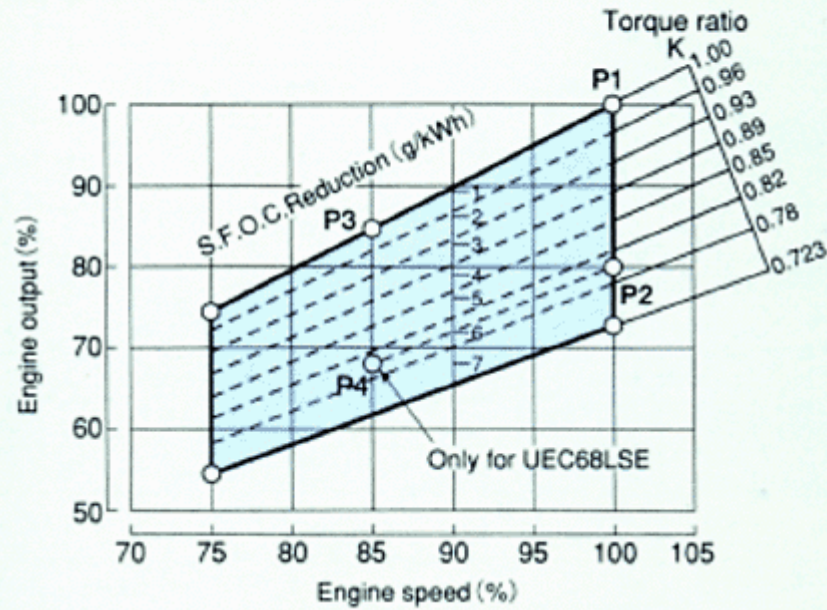
	P3	167 (123)	100	3,520 (4,800)	4,400 (6,000)	5,280 (7,200)	6,160 (8,400)	7,040 (9,600)			
	P4	160 (118)		2,560 (3,440)	3,200 (4,300)	3,840 (5,160)	4,480 (6,020)	5,120 (6,880)			
UEC45LA	P1	170 (125)	158	3,560 (4,800)	4,450 (6,000)	5,340 (7,200)	6,230 (8,400)	7,120 (9,600)			
	P2	163 (120)		2,560 (3,440)	3,200 (4,300)	3,840 (5,160)	4,480 (6,020)	5,120 (6,880)			
	P3	170 (125)	119	2,680 (3,600)	3,350 (4,500)	4,020 (5,400)	4,690 (6,300)	5,360 (7,200)			
	P4	163 (120)		1,920 (2,600)	2,400 (3,250)	2,880 (3,900)	3,360 (4,550)	3,840 (5,200)			
UEC37LA	P1	175 (129)	210	2,080 (2,800)	2,600 (3,500)	3,120 (4,200)	3,640 (4,900)	4,160 (5,600)			
	P2	168 (124)		1,480 (2,000)	1,850 (2,500)	2,220 (3,000)	2,590 (3,500)	2,960 (4,000)			
	P3	175 (129)	158	1,560 (2,080)	1,950 (2,600)	2,340 (3,120)	2,730 (3,640)	3,120 (4,160)			
	P4	168 (124)		1,120 (1,520)	1,400 (1,900)	1,680 (2,280)	1,960 (2,660)	2,240 (3,040)			

MITSUBISHI UE DIESEL ENGINE POWER RANGE

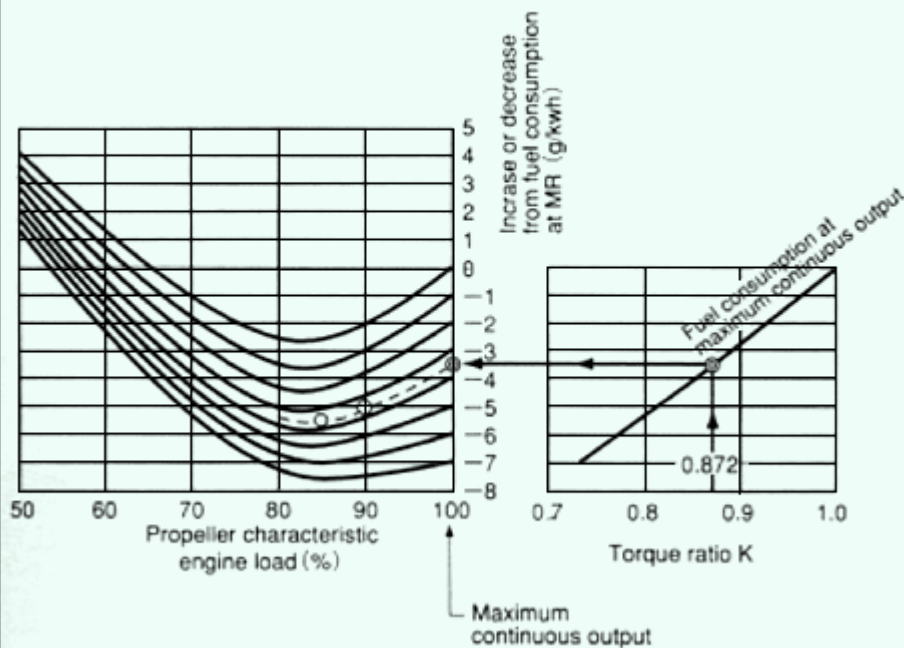


IMPROVEMENT OF FUEL ECONOMY BY DERATING

Calculation of fuel consumption at maximum continuous output of a derated engine

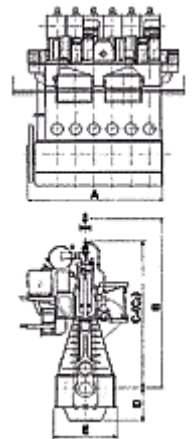


Calculation of fuel consumption at partial load



PRINCIPAL DIMENSIONS

Model		Weight Dimencions	Number of Cylinders							
Type	Bore/Stroke		4	5	6	7	8	9	10	12
UEC85LSC	Bore : 850mm Stroke : 2,360mm	Mass(Dry)(tons)	-	676	787	899	1,052	1,164	1,275	1,499
		A(mm)		9,429	10,925	12,421	14,960	16,456	17,952	20,944
		B/C1/D/E(mm)		11,684/10,111/2,199/4,230						
UEC85LSII	Bore : 850mm Stroke : 3,150mm	Mass(Dry)(tons)	-	736	858	980	1,147	1,269	1,391	1,635
		A(mm)		9,429	10,925	12,421	14,960	16,456	17,952	20,944
		B/C1/D/E(mm)		14,144/11,748/2,594/5,000						
UEC75LSII	Bore : 750mm Stroke : 2,800mm	Mass(Dry)(tons)	436	523	610	697	784	903	990	1,164
		A(mm)	7,000	8,320	9,640	10,960	12,280	14,520	15,840	18,480
		B/C1/D/E(mm)	12,500/10,430/2,280/4,460							
UEC60LSII	Bore : 600mm Stroke : 2,300mm	Mass(Dry)(tons) (Welded Monoblock)	222	266	310	354	398			
		A(mm)	5,600	6,656	7,712	8,768	9,824			
		B/C1/D/E(mm)	10,400/8,696/1,921/3,705							
		Mass(Dry)(tons) (Cast Iron)	257	306	357	407	456			
		A(mm)	5,679	6,735	7,791	8,847	9,903			
		B/C1/D/E(mm)	10,400/8,595/1,863/3,660							
UEC50LSII	Bore : 500mm Stroke : 1,950mm	Mass(Dry)(tons) (Welded Monoblock)	136	163	190	217	244	271		
		A(mm)	4,702	5,582	6,462	7,342	8,222	9,102		
		B/C1/D/E(mm)	8,900/7,302/1,569/3,100							
		Mass(Dry)(tons) (Cast Iron)	160	191	223	253	285	314		
		A(mm)	4,702	5,582	6,462	7,342	8,222	9,102		
		B/C1/D/E(mm)	8,900/7,302/1,666/3,100							
UEC43LSII	Bore : 430mm Stroke : 1,500mm	Mass(Dry)(tons)	104	124	144	164	187			
		A(mm)	4,141	4,897	5,653	6,409	7,165			
		B/C1/D/E(mm)	7,020/5,827/1,287/2,520							
UEC37LSII	Bore : 370mm Stroke : 1,290mm	Mass(Dry)(tons)	-	83	96	110	124			
		A(mm)		4,302	4,952	5,602	6,252			
		B/C1/D/E(mm)		6,170/5,062/1,120/2,255						
UEC33LSII	Bore : 330mm Stroke : 1,050mm	Mass(Dry)(tons)	43	52	60	68	78			
		A(mm)	3,636	4,216	4,606	5,186	5,766			
		B/C1/D/E(mm)	5,150/4,301/906/1,900							
UEC68LSE	Bore : 680mm Stroke : 2,690mm	Mass(Dry)(tons)	-	404	470	536	606			
		A(mm)		7,868	9,100	10,322	11,564			
		B/C1/D/E(mm)		11,750/9,667/2,198/4,060						
UEC52LSE	Bore : 520mm Stroke : 2,000mm	Mass(Dry)(tons)	186	226	263	301	339			
		A(mm)	4,963	5,878	6,793	7,708	8,623			
		B/C1/D/E(mm)	9,245/7,635/1,675/3,285							
UEC60LS	Bore : 600mm Stroke : 2,200mm	Mass(Dry)(tons)	286	344	402	460	518			
		A(mm)	6,165	7,275	8,385	9,495	10,605			
		B/C1/D/E(mm)	10,165(9,580*)/8,590/1,925/3,720							
UEC52LS	Bore : 520mm Stroke : 1,850mm	Mass(Dry)(tons)	182	219	256	293	330			
		A(mm)	5,405	6,365	7,325	8,285	9,245			
		B/C1/D/E(mm)	8,625(8,110*)/7,330/1,650/3,220							
UEC60LA	Bore : 600mm Stroke : 1,900mm	Mass(Dry)(tons)	265	318	370	423	476			
		A(mm)	6,100	7,210	8,320	9,430	10,540			
		B/C2/D/E(mm)	9,030(8,600*)/7,845/1,800/3,450							
UEC52LA	Bore : 520mm Stroke : 1,600mm	Mass(Dry)(tons)	171	205	239	274	308			
		A(mm)	5,350	6,310	7,270	8,230	9,190			
		B/C2/D/E(mm)	7,700(7,350*)/6,720/1,560/3,000							
UEC45LA	Bore : 450mm Stroke : 1,350mm	Mass(Dry)(tons)	111	133	155	178	200			
		A(mm)	4,625	5,445	6,265	7,085	7,905			
		B/C2/D/E(mm)	6,480(6,240*)/5,660/2,560							
		D(mm)	1,240				1,310			
UEC37LA	Bore : 370mm Stroke : 880mm	Mass(Dry)(tons)	54	65	75	86	97			
		A(mm)	4,290	4,950	5,610	6,395	7,055			
		B/C2/D/E(mm)	5,000(4,590*)/4,276/940/1,900							



Balancer and axial vib. damper not included in weights and dimensions

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|---|--|----------------|---|---|-----------------------------|
| A | .Lengh overall | C ₁ | .Engine height with hydraulic valve system, | D | .Depth below crankshaft |
| B | .Piston dismantling height
(*when using a special tool) | C ₂ | .Engine height with mechanical valve system | E | .Breadth including mounting |

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