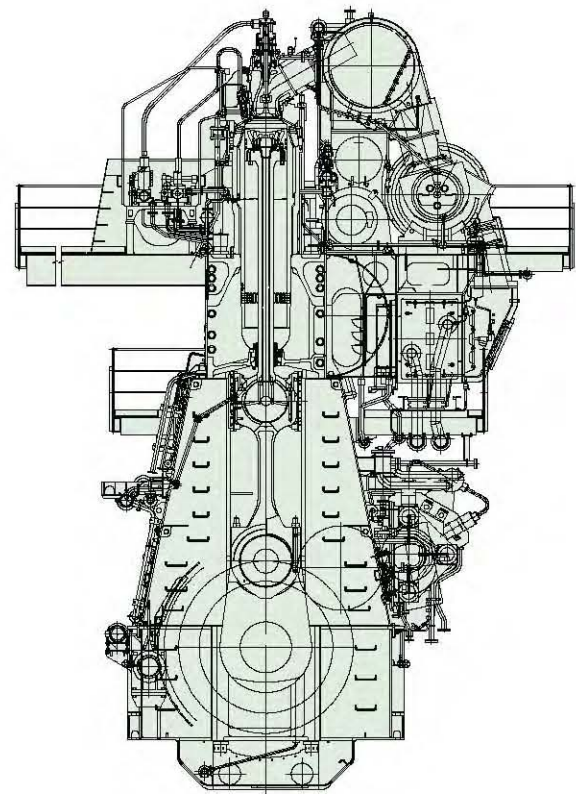
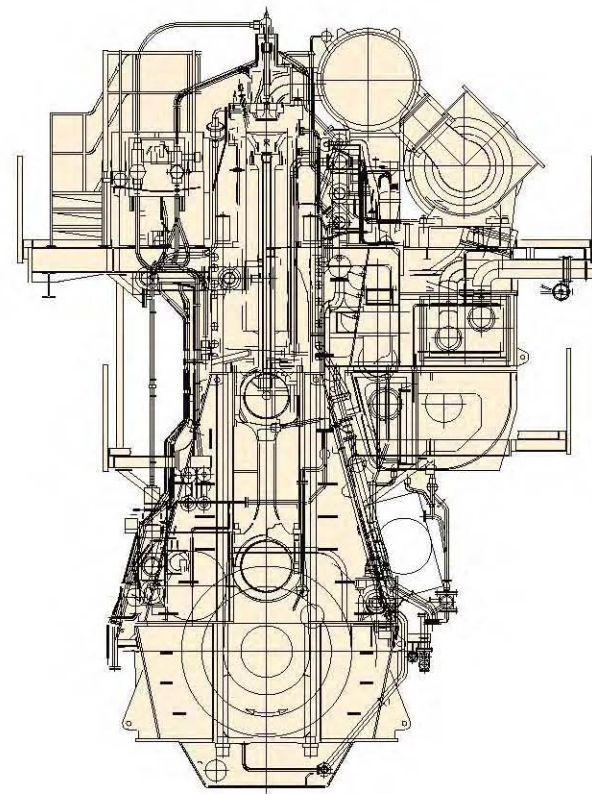


RT-flex84T-D



RT-flex58T-B



RT-flex50-B




6RT-flex50

DU-WÄRTSILÄ

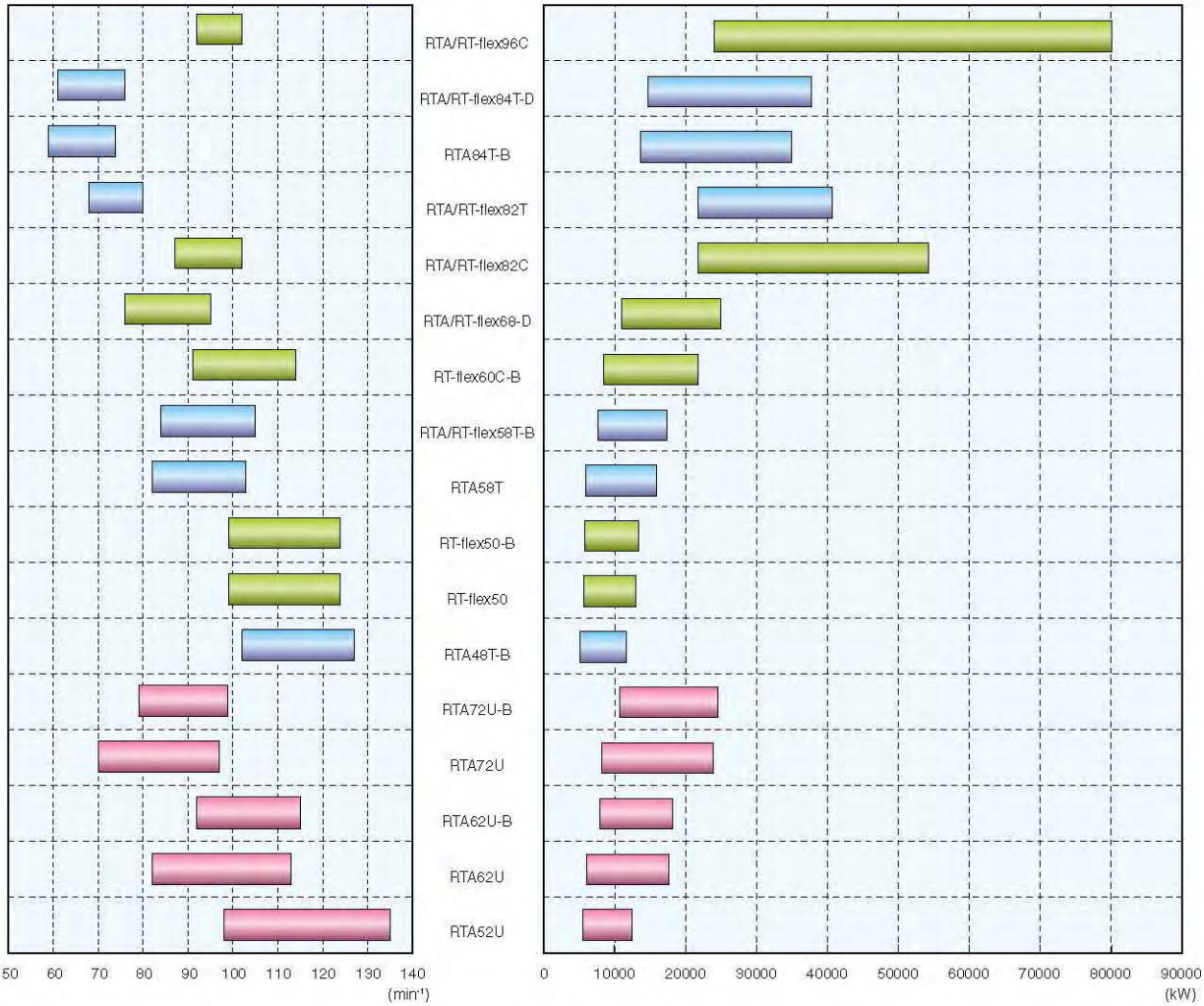
Marine Diesel Engine

RT-flex RTA



DIESEL UNITED, LTD.

POWER RANGE



RT-flex96C
RTA96C Cylinder Bore 960 mm / Piston Stroke 2,500 mm

Rating	R1	R2	R3	R4	
Speed min ⁻¹	102		92		
BSFC *1	g/kWh	171	163	171	164
	g/bhph	126	120	126	121
6 cyl	kW	34,320	24,000	30,960	24,000
	bhp	46,680	32,640	42,120	32,640
7 cyl	kW	40,040	28,000	36,120	28,000
	bhp	54,460	38,080	49,140	38,080
8 cyl	kW	46,760	32,000	41,280	32,000
	bhp	62,240	43,520	56,160	43,520
9 cyl	kW	51,480	36,000	46,440	36,000
	bhp	70,020	48,960	63,180	48,960
10 cyl	kW	57,200	40,000	51,600	40,000
	bhp	77,800	54,400	70,200	54,400
11 cyl	kW	62,920	44,000	56,760	44,000
	bhp	85,580	59,840	77,220	59,840
12 cyl	kW	68,640	48,000	61,920	48,000
	bhp	93,360	65,280	84,240	65,280
Pme MPa	1.86	1.30	1.86	1.44	

*1 BSFC
本カタログに記載されている燃料消費率 (BSFC) は、ISO (ISO 15550及び3046) 条件によるものです。また、燃料の低位発熱量は、42.7MJ/kg (10200 kcal/kg) を計算条件とします。
燃料消費率 (BSFC) の許容値は、+5%です。
RT-flex機関は、RTA機関に比べ低負荷域における燃費性能が優れています。

All brake specific fuel consumption (BSFC) are quoted for fuel of lower calorific value 42.7 MJ/kg (10200 kcal/kg), and for ISO standard reference conditions (ISO 15550 and 3046).
The BSFC figures are given with a tolerance of + 5%.
Wartsila RT-flex engines have a lower part-load fuel consumption than the corresponding Wartsila RTA engines.

RT-flex84T-D
RTA84T-D Cylinder Bore 840 mm / Piston Stroke 3,150 mm

Rating	R1	R2	R3	R4	
Speed min ⁻¹	76		61		
BSFC *1	g/kWh	167	160	167	164
	g/bhph	123	118	123	121
5 cyl	kW	21,000	14,700	16,850	14,700
	bhp	28,575	20,000	22,900	20,000
6 cyl	kW	25,200	17,640	20,220	17,640
	bhp	34,290	24,000	27,480	24,000
7 cyl	kW	29,400	20,580	23,590	20,580
	bhp	40,005	28,000	32,060	28,000
8 cyl	kW	33,600	23,520	26,960	23,520
	bhp	45,720	32,000	36,640	32,000
9 cyl	kW	37,800	26,460	30,330	26,460
	bhp	51,435	36,000	41,220	36,000
Pme MPa	1.90	1.33	1.90	1.66	

RTA84T-B Cylinder Bore 840 mm / Piston Stroke 3,150 mm

Rating	R1	R2	R3	R4	
Speed min ⁻¹	74		59		
BSFC *1	g/kWh	168	160	168	164
	g/bhph	123	118	123	121
5 cyl	kW	19,400	13,600	15,450	13,600
	bhp	26,400	18,500	21,000	18,500
6 cyl	kW	23,280	16,320	18,540	16,320
	bhp	31,680	22,200	25,200	22,200
7 cyl	kW	27,160	19,040	21,630	19,040
	bhp	36,960	25,900	29,400	25,900
8 cyl	kW	31,040	21,760	24,720	21,760
	bhp	42,240	29,600	33,600	29,600
9 cyl	kW	34,920	24,480	27,810	24,480
	bhp	47,520	33,300	37,800	33,300
Pme MPa	1.80	1.26	1.80	1.58	

RT-flex82T
RTA82T Cylinder Bore 820 mm / Piston Stroke 3,375 mm

Rating	R1+	R2+	R1	R2	R3	R4
Speed min ⁻¹	80		76		68	
BSFC *1	g/kWh	165	162	167	162	167
	g/bhph	121	119	123	119	123
6 cyl	kW	27,120	21,720	27,120	21,720	24,300
	bhp	36,900	29,520	36,900	29,520	33,060
7 cyl	kW	31,640	25,340	31,640	25,340	28,350
	bhp	43,050	34,440	43,050	34,440	38,570
8 cyl	kW	36,160	28,960	36,160	28,960	32,400
	bhp	49,200	39,360	49,200	39,360	44,080
9 cyl	kW	40,680	32,580	40,680	32,580	36,450
	bhp	55,350	44,280	55,350	44,280	49,590
Pme MPa	1.90	1.52	2.00	1.60	2.00	1.79

RT-flex82C
RTA82C Cylinder Bore 820 mm / Piston Stroke 2,646 mm

Rating	R1+	R2+	R1	R2	R3	R4
Speed min ⁻¹	102		97		87	
BSFC *1	g/kWh	169	165	171	165	171
	g/bhph	124	121	126	121	126
6 cyl	kW	27,120	21,720	27,120	21,720	24,300
	bhp	36,900	29,520	36,900	29,520	33,060
7 cyl	kW	31,640	25,340	31,640	25,340	28,350
	bhp	43,050	34,440	43,050	34,440	38,570
8 cyl	kW	36,160	28,960	36,160	28,960	32,400
	bhp	49,200	39,360	49,200	39,360	44,080
9 cyl	kW	40,680	32,580	40,680	32,580	36,450
	bhp	55,350	44,280	55,350	44,280	49,590
10 cyl	kW	45,200	36,200	45,200	36,200	40,500
	bhp	61,500	49,200	61,500	49,200	55,100
11 cyl	kW	49,720	39,820	49,720	39,820	44,550
	bhp	67,650	54,120	67,650	54,120	60,610
12 cyl	kW	54,240	43,440	54,240	43,440	48,600
	bhp	73,800	59,040	73,800	59,040	66,120
Pme MPa	1.90	1.52	2.00	1.60	2.00	1.79

RT-flex68-D

RTA68-D Cylinder Bore 680 mm / Piston Stroke 2,720 mm

Rating	R1	R2	R3	R4
Speed min ⁻¹	95		76	
BSFC *1 g/kWh g/bhph	169 124	161 118	169 124	165 121
5 cyl kW bhp	15,650 21,275	10,950 14,900	12,500 17,000	10,950 14,900
6 cyl kW bhp	18,780 25,530	13,140 17,880	15,000 20,400	13,140 17,880
7 cyl kW bhp	21,910 29,785	15,330 20,860	17,500 23,800	15,330 20,860
8 cyl kW bhp	25,040 34,040	17,520 23,840	20,000 27,200	17,520 23,840
Pme MPa	2.00	1.40	2.00	1.75

RT-flex60C-B

Cylinder Bore 600 mm / Piston Stroke 2,250 mm

Rating	R1	R2	R3	R4
Speed min ⁻¹	114		91	
BSFC *1 g/kWh g/bhph	170 125	164 120	170 125	166 122
5 cyl kW bhp	12,100 16,450	8,450 11,500	9,650 13,125	8,450 11,500
6 cyl kW bhp	14,520 19,740	10,140 13,800	11,580 15,750	10,140 13,800
7 cyl kW bhp	16,940 23,030	11,830 16,100	13,510 18,375	11,830 16,100
8 cyl kW bhp	19,360 26,320	13,520 18,400	15,440 21,000	13,520 18,400
9 cyl kW bhp	21,780 29,610	15,210 20,700	17,370 23,625	15,210 20,700
Pme MPa	2.00	1.40	2.00	1.75

RT-flex58T-B

RTA58T-B Cylinder Bore 580 mm / Piston Stroke 2,416 mm

Rating	R1	R2	R3	R4
Speed min ⁻¹	105		84	
BSFC *1 g/kWh g/bhph	170 125	162 119	170 125	166 122
5 cyl kW bhp	10,900 14,825	7,650 10,400	8,700 11,850	7,650 10,400
6 cyl kW bhp	13,080 17,790	9,180 12,480	10,440 14,220	9,180 12,480
7 cyl kW bhp	15,260 20,755	10,710 14,560	12,180 16,590	10,710 14,560
8 cyl kW bhp	17,440 23,720	12,240 16,640	13,920 18,960	12,240 16,640
Pme MPa	1.95	1.37	1.95	1.71

RTA58T

Cylinder Bore 580 mm / Piston Stroke 2,416 mm

Rating	R1	R2	R3	R4
Speed min ⁻¹	103		82	
BSFC *1 g/kWh g/bhph	170 125	160 118	170 125	163 120
5 cyl kW bhp	10,000 13,600	6,000 8,150	8,000 10,900	6,000 8,150
6 cyl kW bhp	12,000 16,320	7,200 9,780	9,600 13,080	7,200 9,780
7 cyl kW bhp	14,000 19,040	8,400 11,410	11,200 15,260	8,400 11,410
8 cyl kW bhp	16,000 21,760	9,600 13,040	12,800 17,440	9,600 13,040
Pme MPa	1.83	1.10	1.83	1.38

RT-flex50-B

Cylinder Bore 500 mm / Piston Stroke 2,050 mm

Rating	R1	R2	R3	R4
Speed min ⁻¹	124		99	
BSFC *1 g/kWh g/bhph	171 126	165 121	171 126	167 123
5 cyl kW bhp	8,300 11,300	5,800 7,900	6,650 9,050	5,800 7,900
6 cyl kW bhp	9,960 13,560	6,960 9,480	7,980 10,860	6,960 9,480
7 cyl kW bhp	11,620 15,820	8,120 11,060	9,310 12,670	8,120 11,060
8 cyl kW bhp	13,280 18,080	9,280 12,640	10,640 14,480	9,280 12,640
Pme MPa	2.00	1.39	2.00	1.75

RT-flex50

Cylinder Bore 500 mm / Piston Stroke 2,050 mm

Rating	R1	R2	R3	R4
Speed min ⁻¹	124		99	
BSFC *1 g/kWh g/bhph	171 126	165 121	171 126	167 123
5 cyl kW bhp	8,100 11,000	5,650 7,700	6,500 8,800	5,650 7,700
6 cyl kW bhp	9,720 13,200	6,780 9,240	7,800 10,560	6,780 9,240
7 cyl kW bhp	11,340 15,400	7,910 10,780	9,100 12,320	7,910 10,780
8 cyl kW bhp	12,960 17,600	9,040 12,320	10,400 14,080	9,040 12,320
Pme MPa	1.95	1.36	1.95	1.36

RTA48T-B

Cylinder Bore 480 mm / Piston Stroke 2,000 mm

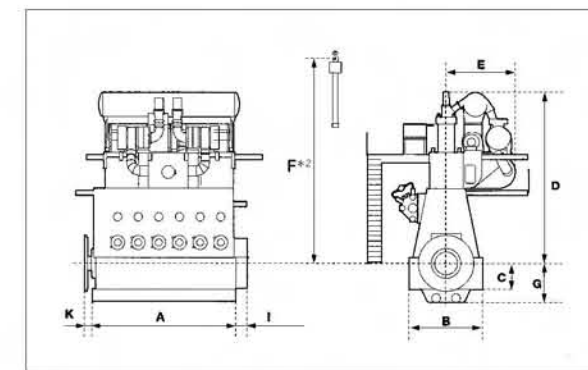
Rating	R1	R2	R3	R4
Speed min ⁻¹	127		102	
BSFC *1 g/kWh g/bhph	171 126	163 120	171 126	167 123
5 cyl kW bhp	7,275 9,900	5,100 6,925	5,825 7,925	5,100 6,925
6 cyl kW bhp	8,730 11,880	6,120 8,310	6,990 9,510	6,120 8,310
7 cyl kW bhp	10,185 13,860	7,140 9,695	8,155 11,095	7,140 9,695
8 cyl kW bhp	11,640 15,840	8,160 11,080	9,320 12,680	8,160 11,080
Pme MPa	1.90	1.33	1.89	1.66

Principal engine dimensions (mm) and weights (ton)

Cyl	A	B	C	D	E	F ^{※2}	G	I	K	Weight ^{※3}
	mm	mm	mm	mm	mm	mm	mm	mm	mm	ton
RT-flex68-D RTA68-D RTA68-B	6	11,564								1,160
	7	13,244								1,290
	8	15,834	4,480	1,800	10,925	5,232	12,880	2,594	723	1,470
	9	17,514								1,620
RT-flex60C-B RTA60C-B	10	19,194								1,760
	11	20,874								1,910
	12	22,554								2,050
	5	8,890				4,196				740
RT-flex58T-B RTA58T-B	6	10,390				4,715				870
	7	11,890	5,000	1,800	11,933	4,715	14,500	2,700	760	990
	8	14,390				4,196				1,140
	9	15,890				4,715				1,260
RT-flex50-B RTA50-B	6	10,415								840
	7	11,920	5,200	1,880	12,650	-	15,430	2,645	850	950
	8	14,425								1,070
	9	15,930								1,180
RT-flex50 RTA50	6	10,415								800
	7	11,920								910
	8	14,425								1,030
	9	15,930	4,550	1,640	11,170	-	13,100	2,260	850	765
RT-flex60C-B RTA60C-B	10	17,435								1,230
	11	18,940								1,340
	12	20,445								1,440
	5	6,985								412
RT-flex58T-B RTA58T-B	6	8,165	4,300	1,520	10,400	3,748	12,545	2,340	715	525
	7	9,345								533
	8	10,525								593
	5	6,213								268
RT-flex50-B RTA50-B	6	7,253								322
	7	8,293	3,700	1,300	8,570	3,660	10,350	1,955	573	377
	8	9,333								428
	9	10,373								480

- * 2 通常のピストン抜高さを示しています。特殊要員を使用し、高さを抑えることが可能です。
Standard piston dismantling height, can be reduced with special method for piston withdrawal.
- * 3 表中のデータは、RTA 機関、RT-flex 機関両方に共通ですが、RT-flex 機関の場合、重量が変わる可能性があります。
All the above data apply to both RTA and RT-flex versions. However, there may be differences in weights for the RT-flex engines.

Cyl	A	B	C	D	E	F ^{※2}	G	I	K	Weight ^{※3}
	mm	mm	mm	mm	mm	mm	mm	mm	mm	ton
RT-flex68-B RTA68-B	5	5,981								281
	6	6,987	3,820	1,300	8,810	3,475	10,880	2,000	604	322
	7	7,993								377
	8	8,999								418
RT-flex60-B RTA60-B	5	5,227								200
	6	6,107	3,150	1,088	7,646	3,300	9,270	1,636	631	225
	7	6,987								255
	8	7,867								280
RTA48T-B	5	4,966								171
	6	5,800	3,170	1,085	7,334	3,253	9,030	1,700	603	205
	7	6,634								225
	8	7,468								250
RT-flex50-B RTA50-B	5	7,505								485
	6	8,795	4,070	1,570	10,195	3,843	11,875	2,155	715	565
	7	10,085								640
	8	11,375								715
RT-flex60-B RTA60-B	5	6,457				3,520				320
	6	7,557	3,500	1,350	8,750	3,470	10,300	1,880	615	370
	7	8,657				3,520				420
	8	9,757								470
RTA50-B	5	5,605								210
	6	6,525	3,030	1,150	7,480	3,540	8,745	1,595	570	240
	7	7,445								270
	8	8,365				3,281				300



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<http://www.ihl.co.jp/du/>

RTA72U-B Cylinder Bore 720 mm / Piston Stroke 2,500 mm

Rating		R1	R2	R3	R4
Speed min ⁻¹		99		79	
BSFC *1	g/kWh	171	165	171	167
	g/bhph	126	121	126	123
5 cyl	kW	15,400	10,775	12,300	10,775
	bhp	20,960	14,650	16,725	14,650
6 cyl	kW	18,480	12,930	14,760	12,930
	bhp	25,140	17,580	20,070	17,580
7 cyl	kW	21,560	15,085	17,220	15,085
	bhp	29,330	20,510	23,415	20,510
8 cyl	kW	24,640	17,240	19,680	17,240
	bhp	33,520	23,440	26,760	23,440
Pme	MPa	1.83	1.28	1.84	1.61

RTA72U Cylinder Bore 720 mm / Piston Stroke 2,500 mm

Rating		R1	R2	R3	R4
Speed min ⁻¹		97		70	
BSFC *1	g/kWh	171	160	170	163
	g/bhph	126	118	125	120
5 cyl	kW	14,950	8,200	10,850	8,200
	bhp	20,350	11,200	14,750	11,200
6 cyl	kW	17,940	9,840	13,020	9,840
	bhp	24,420	13,440	17,700	13,440
7 cyl	kW	20,930	11,480	15,190	11,480
	bhp	28,490	15,680	20,650	15,680
8 cyl	kW	23,920	13,120	17,360	13,120
	bhp	32,560	17,920	23,600	17,920
Pme	MPa	1.82	1.00	1.82	1.38

RTA62U-B Cylinder Bore 620 mm / Piston Stroke 2,150 mm

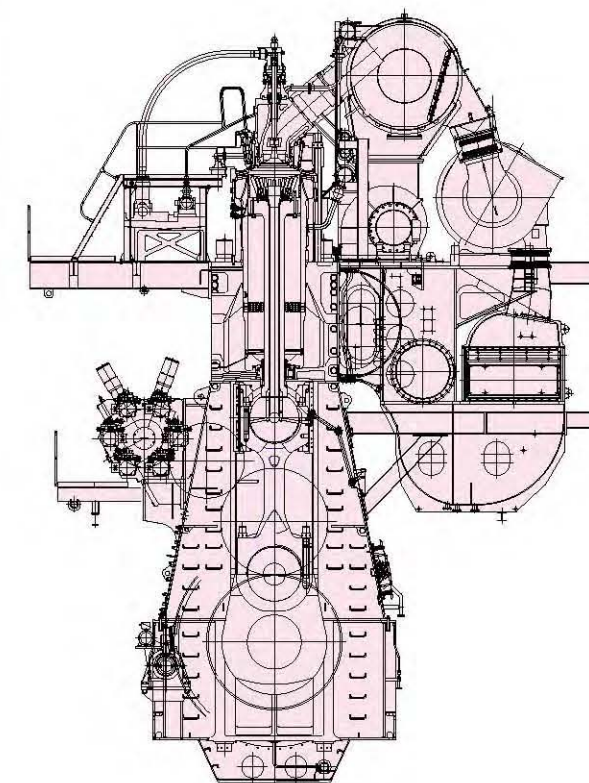
Rating		R1	R2	R3	R4
Speed min ⁻¹		115		92	
BSFC *1	g/kWh	173	167	173	169
	g/bhph	127	123	127	124
5 cyl	kW	11,425	8,000	9,150	8,000
	bhp	15,550	10,875	12,450	10,875
6 cyl	kW	13,710	9,600	10,980	9,600
	bhp	18,660	13,050	14,940	13,050
7 cyl	kW	15,995	11,200	12,810	11,200
	bhp	21,770	15,225	17,430	15,225
8 cyl	kW	18,280	12,800	14,640	12,800
	bhp	24,880	17,400	19,920	17,400
Pme	MPa	1.84	1.29	1.84	1.61

RTA62U Cylinder Bore 620 mm / Piston Stroke 2,150 mm

Rating		R1	R2	R3	R4
Speed min ⁻¹		113		82	
BSFC *1	g/kWh	173	162	171	165
	g/bhph	127	119	126	121
5 cyl	kW	11,100	6,100	8,050	6,100
	bhp	15,100	8,300	10,950	8,300
6 cyl	kW	13,320	7,320	9,660	7,320
	bhp	18,120	9,960	13,140	9,960
7 cyl	kW	15,540	8,540	11,270	8,540
	bhp	21,140	11,620	15,330	11,620
8 cyl	kW	17,760	9,760	12,880	9,760
	bhp	24,160	13,280	17,520	13,280
Pme	MPa	1.82	1.00	1.82	1.37

RTA52U Cylinder Bore 520 mm / Piston Stroke 1,800 mm

Rating		R1	R2	R3	R4
Speed min ⁻¹		135		98	
BSFC *1	g/kWh	174	166	173	169
	g/bhph	128	122	128	124
5 cyl	kW	7,800	5,450	6,250	5,450
	bhp	10,600	7,400	8,500	7,400
6 cyl	kW	9,360	6,540	7,500	6,540
	bhp	12,720	8,880	10,200	8,880
7 cyl	kW	10,920	7,630	8,750	7,630
	bhp	14,840	10,360	11,900	10,360
8 cyl	kW	12,480	8,720	10,000	8,720
	bhp	16,960	11,840	13,600	11,840
Pme	MPa	1.81	1.27	1.81	1.58



RT-flex96C