

WÄRTSILÄ RT-flex82C

Main data: Also available as traditional RTA type

Cylinder bore.....	820 mm	Fuel specification:	
Piston stroke.....	2646 mm	Fuel oil	730 cSt/50°C
Speed.....	87–102 rpm		7200 sR1/100°F
Mean effective pressure		ISO 8217, category	ISO-F RMK 55
at R1/R1+	20.0/19.0 bar		
Piston speed at R1/R1+	8.6/9.0 m/s		

Rated power: Propulsion engines

Cyl.	Output in kW/bhp at							
	97 / 102 rpm				87 rpm			
	R1 / R1+		R2 / R2+		R3		R4	
	kW	bhp	kW	bhp	kW	bhp	kW	bhp
6	27 120	36 900	21 720	29 520	24 300	33 060	21 720	29 520
7	31 640	43 050	25 340	34 440	28 350	38 570	25 340	34 440
8	36 160	49 200	28 960	39 360	32 400	44 080	28 960	39 360
9	40 680	55 350	32 580	44 280	36 450	49 590	32 580	44 280
10	45 200	61 500	36 200	49 200	40 500	55 100	36 200	49 200
11	49 720	67 650	39 820	54 120	44 550	60 610	39 820	54 120
12	54 240	73 800	43 440	59 040	48 600	66 120	43 440	59 040

Brake specific fuel consumption (BSFC)

	g/kWh	g/bhph	g/kWh	g/bhph	g/kWh	g/bhph	g/kWh	g/bhph
Load 100%	171 / 169	126 / 124	165 / 165	121 / 121	171	126	167	123
BMEP, bar	20.0 / 19.0		16.0 / 15.2		20.0		17.9	

Principal engine dimensions (mm) and weights (tonnes)

Cyl.	A	B	C	D	E	F*	G	I	K	Weight
6	10 355	4 570	1 600	10 930	5 100	12 700	2 310	940	690	800
7	11 860	4 570	1 600	10 930	5 100	12 700	2 310	940	690	910
8	13 365	4 570	1 600	10 930	5 400	12 700	2 310	940	690	1 020
9	15 810	4 570	1 600	10 930	5 400	12 700	2 310	940	690	1 140
10	17 315	4 570	1 600	10 930	5 400	12 700	2 310	940	690	1 250
11	18 820	4 570	1 600	10 930	5 400	12 700	2 310	940	690	1 360
12	20 325	4 570	1 600	10 930	5 400	12 700	2 310	940	690	1 470

* Standard piston dismantling height, can be reduced with tilted piston withdrawal.

Wärtsilä RT-flex engines are available with Delta Tuning for lower part-load fuel consumptions.

For definitions see page 54.

