

WÄRTSILÄ 46

Main data

Cylinder bore..... 460 mm
 Piston stroke..... 580 mm
 Cylinder output..... 975, 1050 kW/cyl
 Speed..... 500, 514 rpm
 Mean effective pressure 23.6–28.8 bar
 Piston speed..... 9.7, 9.9 m/s

Fuel specification:
 Fuel oil 730 cSt/50 °C
 7200 sR1/100 °F
 ISO 8217, category ISO-F-RMK 700
 SFOC 170–177 g/kWh
 at ISO condition

Options:

Common rail fuel injection, humidification of combustion air for NO_x reduction, crude oil.

Rated power

Engine type	500, 514 rpm		500, 514 rpm	
	975 kW/cyl		1050 kW/cyl	
	kW	bhp	kW	bhp
6L46	5 850	7 950	6 300	8 565
8L46	7 800	10 600	8 400	11 420
9L46	8 775	11 930	9 450	12 850
12V46	11 700	15 900	12 600	17 130
16V46	15 600	21 210	16 800	22 840

Dimensions (mm) and weights (tonnes)

Engine type	A*	A	B	C	D	F	Weight
6L46	7 580	8 290	3 340	2 880	3820	1 460	95
8L46	9 490	10 005	3 260/3 600 ¹⁾	3 180	3820	1 460	120
9L46	10 310	10 830	3 600	3 270	3820	1 460	137
12V46	10 260	10 210	3 660	3 810/4 530 ²⁾	3600	1 500	169
16V46	12 345/12 460 ¹⁾	12 480/12 590 ¹⁾	3 660/3 990 ¹⁾	4 530/5 350 ¹⁾	3600	1 500	214

* Turbocharger at flywheel end.

1) Depending on output.

2) Depending on turbocharger and output.

For definitions see page 67.

