

WÄRTSILÄ GENSET 20

Main data

Cylinder bore.....	200 mm	Fuel oil specification:	
Piston stroke.....	280 mm	730 cSt/50°C	
Cylinder output.....	170–200 kW/cyl	7200 sR1/100°F	
Engine speed.....	900–1000 rpm	ISO 8217, category ISO-F-RMK 700	
Mean effective pressure	24.6–28.0 bar	SFOC 185–194 g/kWh at ISO condition	
Piston speed.....	6.7–9.3 m/s		
Generator voltage.....	0.4–13.8 kV		
Generator efficiency	0.95–0.96		

Options:

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

Rated power 60 Hz

Engine type	170 kW/cyl, 900 rpm		185 kW/cyl, 900 rpm	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
4L20	680	645	740	700
6L20	1 020	970	1 110	1 055
8L20	1 360	1 290	1 480	1 405
9L20	1 530	1 455	1 665	1 580

Rated power 50 Hz

Engine type	180 kW/cyl, 1000 rpm		200 kW/cyl, 1000 rpm	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
4L20	720	685	800	760
6L20	1 080	1 025	1 200	1 140
8L20	1 440	1 370	1 600	1 520
9L20	1 620	1 540	1 800	1 710

Generator output based on a generator efficiency of 95%.

Dimensions (mm) and weights (tonnes)

Engine type	A*	E*	I*	K	L*	Weight*
4L20	4 910	1 770/1 920	990	1 800	2 338	14.0
6L20	5 325	1 770/1 920/2 070	895/975/1 025	1 800	2 243/2 323/2 373	16.8
8L20	6 030	1 920/2 070	1 025/1 075	1 800	2 474/2 524	20.7
9L20	6 535	2 070/2 300	1 075/1 125	1 800	2 524/2 574	23.8

* Dependent on generator type and size.
For definitions see page 87.

