

Technical data

DC09 072A, 267-321 kW / 304-361 kVA (engine ref. 02-13)

Emission compliance	Fuel injection system
Fuel optimized, non-compliant	Unit injectors, PDE

	1500 rpm (50 Hz)		1800 rpm (60 Hz)		Unit
	PRP	ESP	PRP	ESP	
Gross power	267	294	292	321	kW
	304	335	328	361	kVA
Gross torque	1700	1872	1549	1703	Nm
Fuel consumption					
full load 60 L/hr	194	197	201	204	g/kWh
3/4 load 44 L/hr	188	189	197	197	g/kWh
1/2 load 30 L/hr	192	191	201	199	g/kWh
Heat rejection					
to coolant	90	102	98	110	kW
to exhaust gas	186	214	222	258	kW
to charge air	56	59	66	67	kW
to surrounding air	22	24	24	27	kW
Air consumption	23	23	27	27	kg/min
Air temperature					
upstream of charge air cooler	196	201	197	201	°C
downstream of charge air cooler	51	52	52	53	°C
Pressure in intake manifold	2.3	2.4	2.2	2.3	bar
Pressure drop in charge air cooler	0.10	0.10	0.10	0.10	bar
Exhaust flow	24	24	28	28	kg/min
Exhaust temperature	460	506	473	529	°C
Step load performance					
(According to class G2. See section 2 for more information.)	67	60	81	73	%
	181	181	238	238	kW

Cooling performance

 Cooling package 1.1 m², fan Ø813, ratio 1:0.9

	1500 rpm (50 Hz)								1800 rpm (60 Hz)							
	PRP				ESP				PRP				ESP			
Air-on temp* (°C)	47	55	64	71	42	50	59	66	54	57	62	65	52	55	59	63
Airflow (kg/s)	3	5.5	7	9	3	5.5	7	9	6.5	8	9	11	6.5	8	9	11
Restriction (Pa)	300	200	150	90	300	200	150	90	300	250	190	130	300	250	190	130
Fan power losses (kW)	6								10							

*Based on engine coolant temperature 105°C.