

**Technical data****DC13 072A, 438-487 kW / 503-553 kVA (engine ref. 02-14)**

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	438	480	445	487	kW
	503	553	503	553	kVA
Gross torque	2788	3056	2361	2584	
Spec. fuel consumption					
full load	192	196	195	199	g/kWh
3/4 load	183	183	187	188	g/kWh
1/2 load	184	183	190	187	g/kWh
Heat rejection					
to coolant	134	158	142	166	kW
to exhaust gas	309	344	320	358	kW
to charge air	89	104	96	112	kW
to surrounding air	35	39	36	41	kW
Air consumption	32	34	35	36	kg/min
Air temperature					
before charge air cooler	211	227	213	231	°C
after charge air cooler	50	50	50	50	°C
Pressure in intake manifold	2.4	2.6	2.1	2.2	Bar
Fall of pressure, charge air cooler	0.10	0.10	0.15	0.15	Bar
Exhaust flow	34	36	36	38	kg/min
Exhaust temperature	536	563	521	557	°C
Step load performance					
(According to class G2. See section 2 for more information.)	57	52	72	66	%
	257	257	328	328	kW

Cooling performanceCooling package 1.3 m², fan Ø914, ratio 1:0.9

1500 rpm (50 Hz)						1800 rpm (60 Hz)					
PRP			ESP			PRP			ESP		
Air-on temp* (°C)	Airflow (kg/s)	Rest-riction (Pa)	Air-on temp* (°C)	Airflow (kg/s)	Rest-riction (Pa)	Air-on temp* (°C)	Airflow (kg/s)	Rest-riction (Pa)	Air-on temp* (°C)	Airflow (kg/s)	Rest-riction (Pa)
N/A	N/A	500	N/A	N/A	500	55	5.5	500	49	5.5	500
52	6	300	47	6	300	60	8.5	400	56	8.5	400
60	8.5	200	55	8.5	200	66	11	300	64	11	300
64	11.5	150	59	11.5	150	68	14	220	66	14	220

*Based on engine coolant temperature 105°C

Fan power losses (kW)

10	17
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