



## Technical data

### DC13 072A, 403-487 kW / 456-553 kVA (engine ref. 02-13)

<b>Emission compliance</b>	<b>Fuel injection system</b>
Fuel optimized, non-compliant	Unit injectors, PDE

	1500 rpm (50 Hz)		1800 rpm (60 Hz)		Unit
	PRP	ESP	PRP	ESP	
Gross power	403	438	445	487	kW
	456	503	503	553	kVA
Gross torque	2566	2788	2361	2584	Nm
Spec. fuel consumption					
full load	186	192	195	199	g/kWh
3/4 load	183	183	187	188	g/kWh
1/2 load	185	184	190	187	g/kWh
Heat rejection					
to coolant	119	134	142	166	kW
to exhaust gas	271	309	320	358	kW
to charge air	75	89	96	112	kW
to surrounding air	31	35	36	41	kW
Air consumption	30	32	35	36	kg/min
Air temperature					
before charge air cooler	192	211	213	231	°C
after charge air cooler	48	50	50	50	°C
Pressure in intake manifold	2.2	2.4	2.1	2.2	Bar
Fall of pressure, charge air cooler	0.10	0.10	0.15	0.15	Bar
Exhaust flow	32	34	36	38	kg/min
Exhaust temperature	509	536	521	557	°C
Step load performance					
(According to class G2. See section 2 for more information.)	63	57	72	66	%
	257	257	328	328	kW

**5**

### Cooling performance

Cooling package 1.3 m<sup>2</sup>, 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
57	6	300	52	6	300	60	8.5	400	56	8.5	400
65	8.5	200	60	8.5	200	66	11	300	64	11	300
69	11.5	150	64	11.5	150	68	14	220	66	14	220

\*Based on engine coolant temperature 105°C

### Fan power losses (kW)

10	17
----	----