

**Technical data****DC16 078A, 620-680 kW / 700-770 kVA (engine ref. 02-43)**

Emission compliance	Fuel injection system
Fuel optimized	XPI

	1500 rpm (50 Hz)		1800 rpm (60 Hz)		Unit
	PRP	ESP	PRP	ESP	
Gross power	621	680	620	680	kW
	700	770	702	772	kVA
Gross torque	3953	4329	3289	3608	Nm
Spec. fuel consumption					
full load	191	196	201	202	g/kWh
3/4 load	189	191	197	198	g/kWh
1/2 load	189	188	198	197	g/kWh
Heat rejection					
to coolant	192	229	231	279	kW
to exhaust gas	414	480	451	480	kW
to charge air	121	128	113	121	kW
to surrounding air	56	63	59	65	kW
Air consumption	43	44	45	47	kg/min
Air temperature					
before charge air cooler	214	223	196	202	°C
after charge air cooler	48	51	49	49	°C
Pressure in intake manifold	2.6	2.7	2.2	2.3	Bar
Fall of pressure, charge air cooler	0.1	0.2	0.2	0.2	Bar
Exhaust flow	45	46	47	49	kg/min
Exhaust temperature	524	578	541	557	°C
Step load performance					
(According to class G2. See section 2 for more information.)	61	56	84	78	%
	381	380	520	533	kW

6A**Cooling performance**Cooling package 1.5 m², fan Ø965, ratio 1500 rpm: 1:1.1, ratio 1800 rpm: 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)
64	16	260	61	16	260	59	16	260	55	16	260
66	18	150	63	18	150	62	19	150	59	19	150
68	20	100	65	20	100	68	20	100	63	20	100

* Based on engine coolant temperature 110°C

Fan power losses (kW)

25	23
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