

**Technical data****DC16 43A, 438-481 kW / 500-550 kVA (engine ref. 10-24A)**

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	439	481	438	480	kW
	500	550	500	550	kVA
Spec. fuel consumption					
full load	192	195	193	198	g/kWh
3/4 load	188	188	190	191	g/kWh
1/2 load	192	190	197	194	g/kWh
Heat rejection					
to coolant	168	187	167	186	kW
to exhaust gas	307	343	302	341	kW
to charge air	79	98	92	114	kW
to surrounding air	37	41	34	38	kW
Air consumption	35	39	42	45	kg/min
Air temperature					
after charge air cooler	50	50	50	50	°C
Fall of pressure, charge air cooler	0.10	0.10	0.11	0.12	Bar
Exhaust flow	36	41	43	47	kg/min
Exhaust temperature	493	496	425	436	°C

Cooling equipment recommendation		1500 rpm (50 Hz)				1800 rpm (60 Hz)			
		PRP		ESP		PRP		ESP	
		Air-on temp		Air-on temp		Air-on temp		Air-on temp	
		35°C	50°C	35°C	50°C	35°C	50°C	35°C	50°C
Radiator									
front area	m ²	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Coolant pump flow	dm ³ /min	368	368	368	368	443	443	443	443
Fan									
type		Pusher	Pusher	Pusher	Pusher	Pusher	Pusher	Pusher	Pusher
∅	mm	965	965	965	965	965	965	965	965
power losses	kW	13	13	13	13	12	12	12	12
no of drive belts (poly-V)		2	2	2	2	2	2	2	2
speed ratio		1:1	1:1	1:1	1:1	1:0.8	1:0.8	1:0.8	1:0.8
Air flow									
free air flow	m ³ /s	9.8	9.8	9.8	9.8	8.5	8.5	8.5	8.5
pressure reserve	mmWc	60	45	50	35	55	40	45	30