

Two stage air cooled compressor Type DBD



Compressors for starting of Diesel – engines

Construction

Our DBD compressors are designed for a max working pressure of 35 bar. They are all two-stage, two-cylinder models.

Crankshaft – supported by two generously dimensioned tapered roll bearings. Fully balanced. Made of nodular cast iron (GGG 60). With hardened surfaces for connection rods

Valves – concentric type

Lubrication – splash lubrication (with controlled capacity)

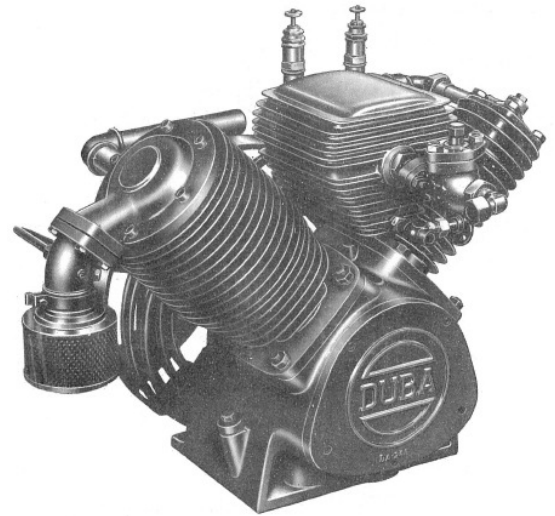
Cylinder & cylinderhead – one cast iron item with multitude of cooling ribs.

Pistons – Low-pressure piston in aluminium alloy. High pressure piston in cast iron. First quality piston-rings and scrapers.

Connecting rods – Made of nodular cast iron. Bearings with lead bronze bushes or needle bearings.

Regulation – Automatic (Start-stop) or semi-automatic

Refrigeration – generously dimensioned intermediate and final air cooler



Characteristics, capacities and taken power @ 1450 rpm

Type	DBD 8.3,5/5		DBD 10.4,5/6		DBD 14.6/8		
Number of cylinders	2		2		2		
Bore [mm]	80/35		100/45		140/60		
Stroke [mm]	50		60		80		
Suction connection [mm]	22		50		50		
delivery connection [inch]	1/2"		3/4"		1"		
Max speed [rpm]	1450		1450		1450		
Displacement [m ³ /h]	22		41		107		
Number of stages	2		2		2		
Pressure [bar]	Q = capacity [m ³ /h] ; N = taken power [kW]						
		Q	N	Q	N	Q	N
	16 ->	13,20	2,60	33,20	4,80	85,00	12,30
	20 ->	12,90	2,60	32,60	5,00	83,00	12,40
	25 ->	12,50	2,80	31,50	5,30	80,00	13,70
30 ->	12,30	2,90	29,50	5,60	75,00	14,30	

Q is effective calculated in suction conditions (free air) (+/-5%)