

DBK-GP

Reciprocating Booster
Air Compressors



7,5-30 kW

DALGAKIRAN





2,1-11,68
m³/min

7,5-30
kW

40
bar

DBK GP SERIES

Oil Injected, Belt Driven
Reciprocating Booster Air Compressors

We provide reliable and high-performance air solutions for the PET bottling and food and beverage industries requiring high compression.



General Features

- Electric motor protection to prevent overload
- Dedicated discharge system to prevent oil discharge from blow-off valve
- Energy-saving Load/Unload System
- Integrated control panel for user-friendly operation
- Automatic discharge system for loadless start
- Air-cooled compressor units
- Gear-driven oil pump
- Star/delta motor starter
- Long life thanks to low speed operation
- Optional soft starter



Advantages

- Durable sliding bearings prolong maintenance periods and keep maintenance costs low.
- Next gen booster series offers high performance with the outstanding technology and design.
- Oil-trap air filtration system provides cleaner air.
- Energy-saving advanced cooling and lubrication systems.
- Integrated oil pump driven by the main motor lubricates the pistons, bearings and pins efficiently.
- Improved vibration level helps to keep maintenance costs down.



Controller

- Mains voltage and frequency monitoring, protection at certain limits
- Multiple compressor control for up to 8 compressors without the need for an external master controller
- Internal ModBus communication
- Alarm log records the last 9 alarms



Main Motor and Drive System

- IE3 efficiency-class electric motors
- Belt pulley drive system
- Easy belt tensioning system
- Specially designed fan type cast pulley
- Star/delta motor starter
- Special loadless start system and automatic discharge system for loadless start



Compressor Block

- Cast iron cylinder with cooling fins and special aluminium alloy top heads
- Specially designed long-life and high-speed stainless steel concentric valves
- High-strength cast iron sump
- Dynamically balanced cast steel crankshaft and counterweight
- Special aluminium alloy pistons and cast connecting rods



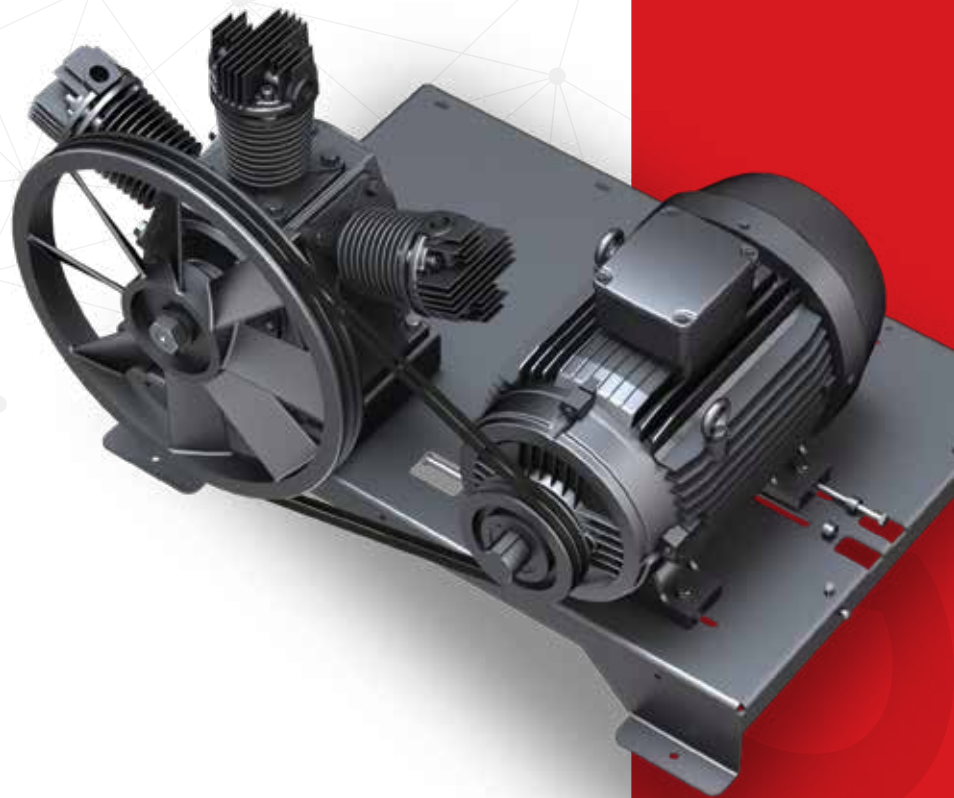
Cooling System

- 2-section aluminium radiator for air and oil cooling
- Bar-Plate outlet air cooling radiator
- Integrated oil and air cooler with inlet collector



Certification

- Electrical components selected according to IEC, UL/cUL, CE standards, safety systems suitable for pressure class are used.



- Inlet air control system
- High-pressure switch
- Manual condensate drainage valve
- Integrated check valve in air outlet line
- Belt pulley housing fence
- Outlet pressure manometer
- High pressure relief valve
- Oil pressure control
- Integrated particulate filter in inlet air line
- By-pass line for protection against high oil pressure



Model	Outlet Pressure				Intake Capacity						Motor kW/HP	Connection	Dimensions (mm)			Weight kg
	Minimum bar - psi		Maximum bar - psi		7 bar m ³ /min - cfm		10 bar m ³ /min - cfm		13 bar m ³ /min - cfm				Length	Width	Height	
DBK 10 GP	15	218	40	580	2,1	74	2,89	102	3,67	130	7,5/10	1"	1430	1010	1025	350
DBK 15 GP	15	218	40	580	2,45	87	3,37	119	4,29	152	11/15	1"	1430	1010	1025	400
DBK 20 GP	15	218	40	580	3,75	132	5,15	182	6,55	231	15/20	1"	1430	1010	1025	410
DBK 25 GP	15	218	40	580	4,9	173	6,73	238	8,57	303	18,5/25	1 1/4"	1500	1025	957	440
DBK 30 GP	15	218	40	580	5,56	196	7,65	270	9,74	344	22/30	1 1/4"	1500	1025	957	480
DBK 40 GP	15	218	40	580	6,68	236	9,18	324	11,68	413	30/40	1 1/4"	1500	1025	957	550

- Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.
- Dalgakiran reserves its rights to make changes in its products and specifications without prior notice.