

Model MKBS Vacuum Booster Pump

General

The MKBS Vacuum Booster Pump is a type of positive displacement vacuum pump, also called Mechanical Booster Pump. It is one of main pumping equipment to acquire middle-level and high-level vacuum.

Its operation principle is similar as Booster Blower: simultaneous rotation of 8-shape rotors at a constant speed makes suction & exhaust of gases.

Model MKBS Vacuum Booster Pump is widely applied to vacuum gas pumping in metal and non-metal material industry, vacuum melting, vacuum surface treatment, space simulation in astronomy industry and manufacture of vacuum cooling drying equipment. If it connects with Water Ring Vacuum Pump or Liquid Ring Vacuum Pump, it can be used for vacuum distilling, vacuum drying and for vacuum crystallization, etc.

Features

- 1.Higher pumping speed in a larger pressure range.(1-1.3×10²Pa).
- 2.No oil in pump casing to avoid oil vapour polluting vacuum system.
- 3.Low vibration, low noise.
- 4.Little mechanical friction loss, and lower drive power.
- 5.Convenient for maintenance & service and long service life.
- 6.Suitable for emergent exhaust of vacuum system.
- 7.No gas exhaust valve, permits handling condensable vapour.
- 8.Must be used with backing pump. Do not start to pump at the atmosphere pressure. Run the pump when the inlet pressure reaches admissible inlet pressure by backing pump. Backing pump usually is oil seal mechanical pump? Liquid vacuum pump? e.g. such as water ring vacuum pump? Oil ring vacuum pump.
- 9.Most of components are exchangeable due to unique manufacturing process.

Specifications

Model

MKBS-210

MKBS-400

MKBS-890

MKBS-1680

MKBS-3370

MKBS-8200

60Hz

Speed (r/min)

3450

3450

3450

1750

3450

1750

Displacement

(M3/hr)

210

400

890

1680

3370

8200

50Hz

Speed (r/min)

2800

2900

2900

1450

2900

1450

Displacement

(M3/hr)

180

330

740

1400

2800

6830

Ultimate* Pressure (Pa)

5*10⁻²

Starting Pressure (Pa)

Atmos.

Maximum Differential

Pressure(Pa)

5300

5300

5300

4300

4300

2700

Motor Power (kW)

0.75

1.5

3

4

5.5

11

Flange Size

Inlet (mm)

50

80

100

150

150

300

Outlet (mm)

40

50

100

150

150

300

Weight (kg)

66

87

128

490

495

1650

All specifications and dimensions subject to change without notice.(*depends on backing pump).