

HB



HIGHVAC
CORPORATION

HB Series

Mechanical Roots Booster Pumps

- **Low Noise / Vibration**
- **High Water Vapor Tolerance**
- **Aluminum Construction**
- **UL Listed IEC Motors**
- **Explosion Proof Versions Available**
- **Efficiently Increase Pumping Speed**

HIGHVAC's HB range of positive displacement high vacuum boosters provide an efficient method of increasing the pumping speed of your vacuum system. The range includes five sizes: from 120 m³/h to 2400 m³/h.

The HB series boosters are driven by a direct coupled IEC motor. UL listed C1/D1 motors are also available as an option.

A vacuum switch or a variable frequency drive (VFD) is used to ensure proper operation in varying pressure conditions.

Perfectly suited for applications with high water vapor due to the aluminum construction of the rotors and casings.

A backing pump capable of discharging to atmospheric pressure must be used in conjunction with all HB series boosters.

MODEL			HB 120	HB 330	HB 600	HB 1200	HB 2400
Displacement (Swept Volume)	m ³ /h (cfm)	50 Hz	100 (58)	280 (164)	500 (294)	1000 (588)	2000 (1177)
		60 Hz	120 (70)	330 (194)	600 (353)	1200 (706)	2400 (1412)
Max Inlet Pressure	Torr	50 Hz	9.00		9.75		6.00
		60 Hz	6.95		8.25		5.00
Max Differential Pressure	Torr	50 Hz	30.00		54.75		42.00
		60 Hz	24.75		45.00		35.25
Ultimate Pressure	Torr		3 x 10 ⁻³				
Motor Power	kW (HP)		0.4 (0.5)	0.75 (1.0)	2.2 (3)	3.7 (5)	7.5 (10)
Motor Voltage	V	Single Phase	115 / 220V	N/A			
		Three Phase	230 / 460V				
Motor Amp Rating	A	Single Phase 115 (220)	7.0 (3.5)	N/A			
		Three Phase 230 (460)	1.6 (0.8)	2.8 (1.4)	7.2 (3.6)	12.4 (6.2)	23.8 (11.9)
Oil Quantity	Liters		0.4	0.8	1.6	2.0	4.0
Cooling Water	L/min	Flow	N/A	2.0	2.0	3.0	3.0
	psi	Differential Pressure	N/A	14.5			
	°F	Water Temp	N/A	41-86°			
Inlet			KF 50	ISO 80		ISO 100	ISO 200
Outlet			KF 50	ISO 80		ISO 80	ISO 200
Ambient Temp.	°F		41-104°				
Weight	lbs. (kg)		67 (30)	113 (51)	177 (80)	254 (115)	501 (227)