

# Electromagnetic Diaphragm Air Pump

This air pump utilizes a reciprocating machine principle to directly drive the diaphragm, generating compressed air with minimal energy consumption. Its design incorporates a high-quality aluminum alloy body, a floating damping system, and multi-level sound-absorbing features to reduce noise and vibration.



## Overview

### TECHNICAL PARAMETERS

Model	Voltage	Power	Rated Pressure	Rated Flow	Max Pressure	Max Flow	Noise	Outlet	Weight	External dimension
HJB-40	220V/50Hz	28W	12Kpa	28L/min	30Kpa	50L/min	<40dB(A)	18mm	3.6kg	260x170x162mm
HJB-50	220V/50Hz	30W	12Kpa	30L/min	32Kpa	60L/min	<40dB(A)	18mm	4.4kg	217x160x181mm
HJB-80	220V/50Hz	48W	15Kpa	50L/min	38Kpa	80L/min	<40dB(A)	18mm	5.5kg	226x174x189mm
HJB-100	220V/50Hz	65W	15Kpa	80L/min	42Kpa	100L/min	<45dB(A)	18mm	6.5kg	238x186x200mm
HJB-120	220V/50Hz	80W	15Kpa	90L/min	45Kpa	120L/min	<45dB(A)	18mm	6.8kg	238x186x215mm
HJB-150	220V/50Hz	105W	20Kpa	120L/min	45Kpa	170L/min	<48dB(A)	18mm	7.0kg	238x186x215mm
HJB-200	220V/50Hz	150W	20Kpa	155L/min	48Kpa	200L/min	<48dB(A)	20mm	10.0kg	276x205x238mm
HJB-280	220V/50Hz	230W	20Kpa	200L/min	50Kpa	280L/min	<48dB(A)	20mm	12.8kg	297x232x249mm
HJB-400	220V/50Hz	300W	20Kpa	280L/min	48Kpa	400L/min	<55dB(A)	32mm	21kg	420x277x270mm
HJB-550	220V/50Hz	420W	20Kpa	400L/min	50Kpa	550L/min	<55dB(A)	32mm	24kg	420x277x270mm

The HJB series features a robust, compact design with an aluminum alloy body optimized for heat dissipation and low noise.

## High-Efficiency Electromagnetic Air Pump

The HJB series electromagnetic diaphragm air pump utilizes reciprocating motion to drive a diaphragm for efficient, oil-free compressed air generation. Engineered with a durable aluminum alloy body, it features a floating damping system and multi-level sound-absorbing design to minimize noise and vibration during operation. This compact unit is designed for energy efficiency, consuming significantly less power than traditional air pumps while delivering high-pressure, pollution-free airflow suitable for aquaculture, wastewater treatment, and industrial applications.

## Operating Conditions

### Environmental Specifications

Operating Temp: 0°C to +40°C, Humidity: 45% to 65%, Max Altitude: 3000m, Oil-Free Air Supply

## Technical Specifications

### Model Performance Data

Model	Power (W)	Rated Flow (L/min)	Max Pressure (Kpa)	Noise (dB)
HJB-40	28	28	30	<40
HJB-50	30	30	32	<40
HJB-80	48	50	38	<40
HJB-100	65	80	42	<45
HJB-120	80	90	45	<45
HJB-150	105	120	45	<48
HJB-200	150	155	48	<48
HJB-280	230	200	50	<48
HJB-400	300	280	48	<55
HJB-550	420	400	50	<55

## Key Features

### Design & Construction

- Reciprocating diaphragm design for high efficiency
- Thickened aluminum alloy housing
- Floating damping system for vibration reduction
- Multi-level sound-absorbing internal structure
- Internal heat radiation design
- High water-resistance