

## Mechanical Booster Pump

# MBS Series

## MBS-053

### Features

- Lower power consumption
- No oil leakage by adoption of magnet coupling
- Compact size and light weight
- Pumping can be started from atmospheric pressure.
- Correspondable to both 100V and 200V series voltage by switching inside driver circuit.

### Applications

- Ideal main pump to support pumping speed of backing pump



MBS-053

### Specifications

Model	Unit	MBS-053
Actual pumping speed <sup>*1</sup>	m <sup>3</sup> /h	50
Ultimate pressure <sup>*2</sup>	Pa	4.0 × 10 <sup>-2</sup>
Motor		DC Brushless motor, 200W
Power supply		Single phase, 100 – 120V / 200 – 240V (50/60Hz)
Motor speed	r/min	3500
Current	A	1.2 (100V)/0.8 (200V) (At ultimate pressure) 4.33 (100V)/2.54 (200V) (At maximum load)
Power consumption	W	50 (At ultimate pressure) 250 (At maximum load)
Oil capacity	mL	70
Recommended oil		SMR-200
Weight	kg	11.0
Inlet pipe diameter		JIS VG-40
Outlet pipe diameter		JIS VF-40
Backing pump		Oil rotary vacuum pump 130 – 240L/min
Ambient temperature	°C	0 – 40
Overall dimensions	mm	167(W) × 410(L) × 130(H)

\* 1 : Pumping speed varies depends on pumping speed of backing pump.

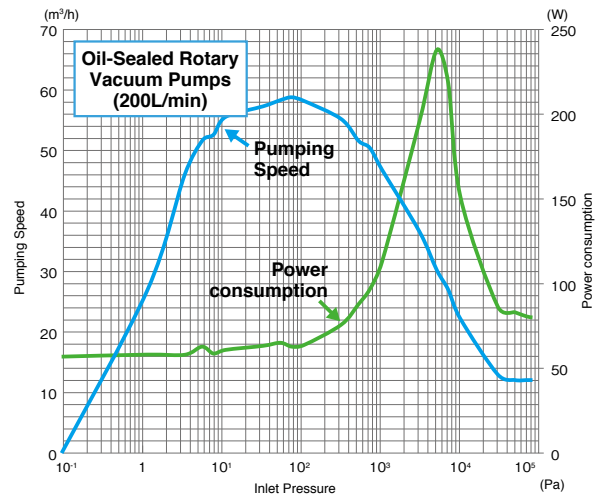
\* 2 : Measured by ionization vacuum gauge. Ultimate pressure varies depends on ultimate pressure of backing pump.

### Corresponding voltage and Certificate

Model	Voltage	Order Code	CE Marked	TUV Marked	cTUVus Marked
MBS-053	Single phase, 100–120V	A41000800501	✓	✓	—
	Single phase, 200–240V	A41000810502	✓	✓	—

— : Not Available, ✓ : Available

### Pumping speed curves



\* : Significantly increases pumping speed in a pressure range where pumping speed of backing pump often drops.

\* Further details can be found on our website. Outside drawing appears in Page 49.