



## Outline

This is a vacuum pump that evacuates by synchronously rotating the two cocoon shape rotors in the casing in opposite directions.

## Features and Cautions on use

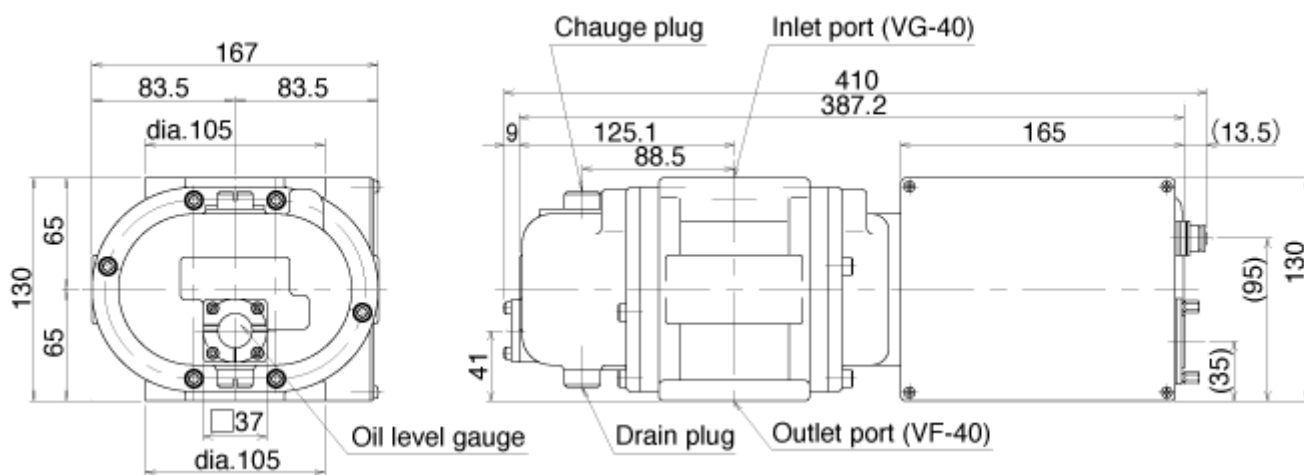
This is a compact Roots-type vacuum pump designed for pressure ranges where the backing pump's pumping speed begins to decline and additional pumping speed is required.

- The DC brushless motor allows the pump to run at the optimum speed for the applied load and enables operation from atmospheric pressure.
- The Magnetic coupling helps prevent oil leakage.
- Mechanical losses are significantly reduced because the pump uses a non-contact internal sealing design. (Power consumption is approximately 60% lower than the previous model.)
- A driver circuit must be configured for both 100V and 200V systems.

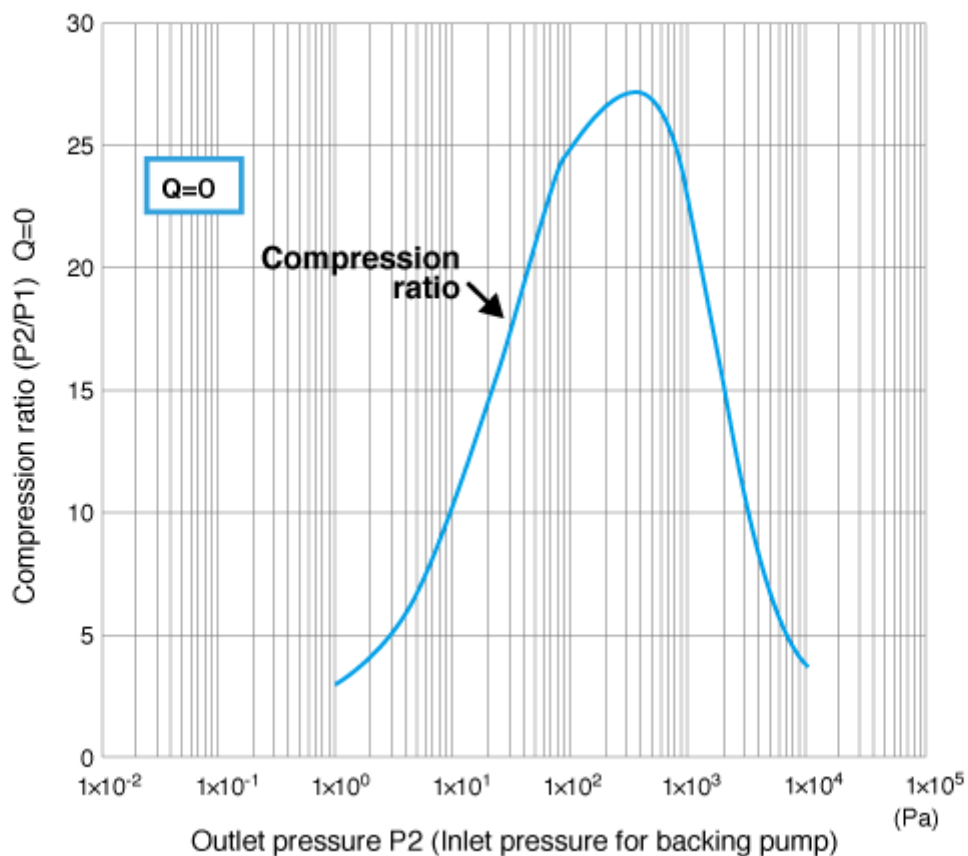
## Specification

Item	Unit	50Hz	60Hz
Actual Pumping Speed	L/min	833	833
Ultimate Pressure	Pa	$4.0 \times 10^{-2}$	
Motor Output	W	50 ; 到達圧力時250 ; 最大負荷時	
Recommended oil		SMR-200	
Oil capacity	mL	70	
Weight	kg	11	
Inlet, Outlet port diameter	mm	吸入口:JIS VG-40 吐出口:JIS VF-40	
Ambient temperature	°C	0~40	
Overall dimensions	mm	167(W) × 410(L) × 130(H)	
RoHS applied			

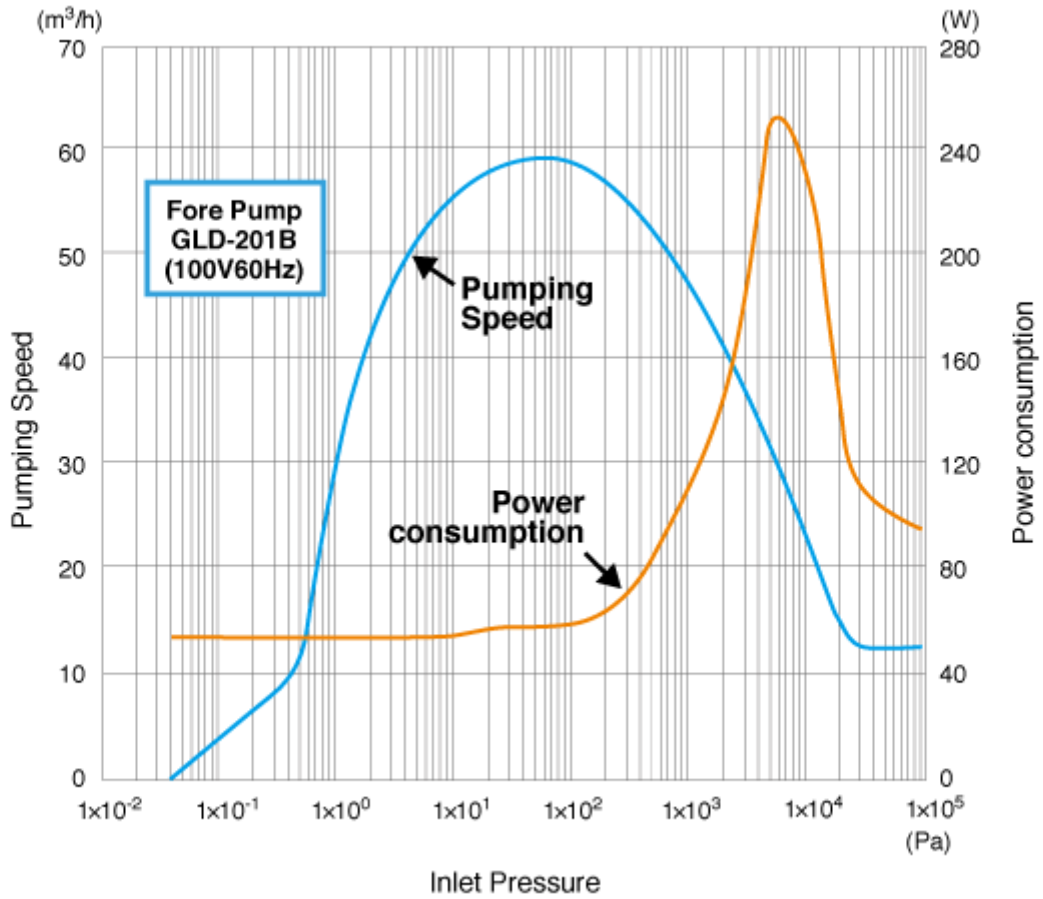
## Outline Drawing



## Compression ratio characteristics



# Pumping Speed Curves



## Remarks

- Mechanical booster vacuum pump can not be used with a unit
- itself. Make sure to combine it with a backing vacuum
- pump (Fore Pump) by all means.
- Mechanical Booster Pump becomes design to use in an inline. Fix outlet side of the flange, and install the pump in this flange.
- Power cable and Unplug-preventive hardware is optional parts.
- It is a pump only in the room. Please do not set it up in the place, that rain and water splash, and outdoors.

## Applied optional part items

No.	Category name	Series	Name
1	Power cord	Power cord	Loose power cord (100-120V type)
2	Power cord	Power cord	Power cord with plug (100-120V type)
3	Power cord	Power cord	Loose power cord (200-240V type)
4	Power cord	Power cord	Power cord with plug (200-240V Europe type)
5	Power cord	Unplug-preventive hardware	Unplug-preventive hardware (100-120V type)
6	Power cord	Unplug-preventive hardware	Unplug-preventive hardware (200-240V type)
7	Vacuum Pump Oil	SMR Series	SMR-200 60mL
8	Vacuum Pump Oil	SMR Series	SMR-200 70mL

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