



## Outline

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

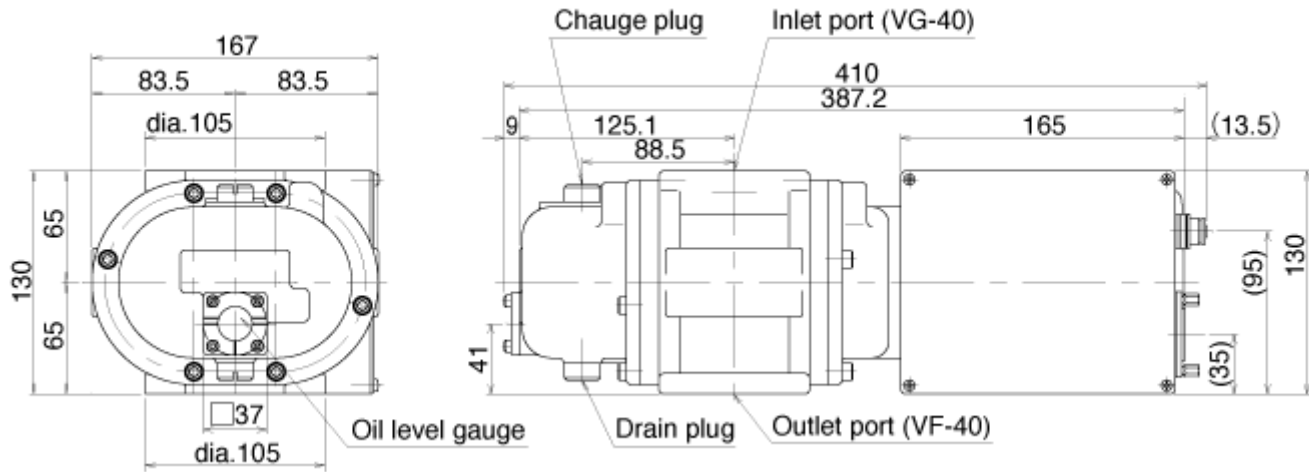
## Features and Cautions on use

- It is a small type of a root type vacuum pump. It is a pressure range where the pumping speed of a backing pump decreases, and the steep rise of pumping speed.
- Can run it with the rotating speed that is the optimum which accepted load of a pump by using DC brushless motor, and can pump it from atmospheric pressure.
- No oil leakage by adoption of magnet coupling.
- Mechanical loss is fallen sharply, because the seal inside a pump adopts a non-contact seal. (Power consumption reduces by about 60% compared with the old model.)
- Setting of a driver circuit is necessary in 100V system and 200V system.

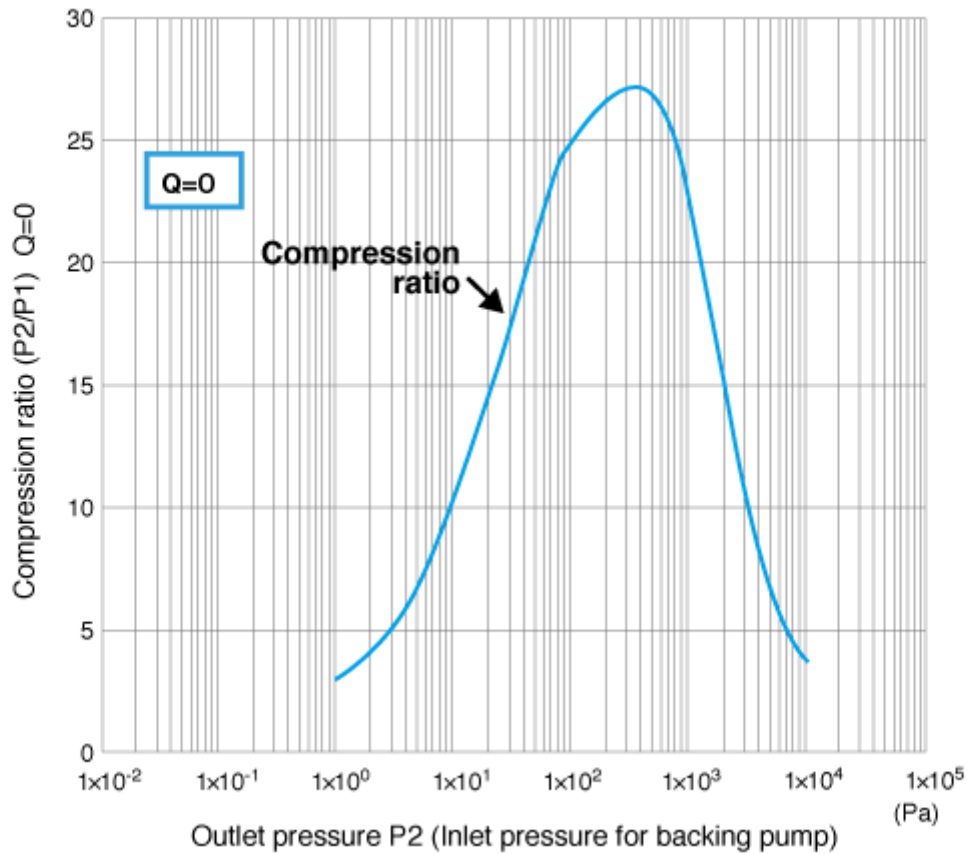
Specification

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	℃	0~40	
Overall dimensions	mm	167(W) × 410(L) × 130(H)	
RoHS applied			

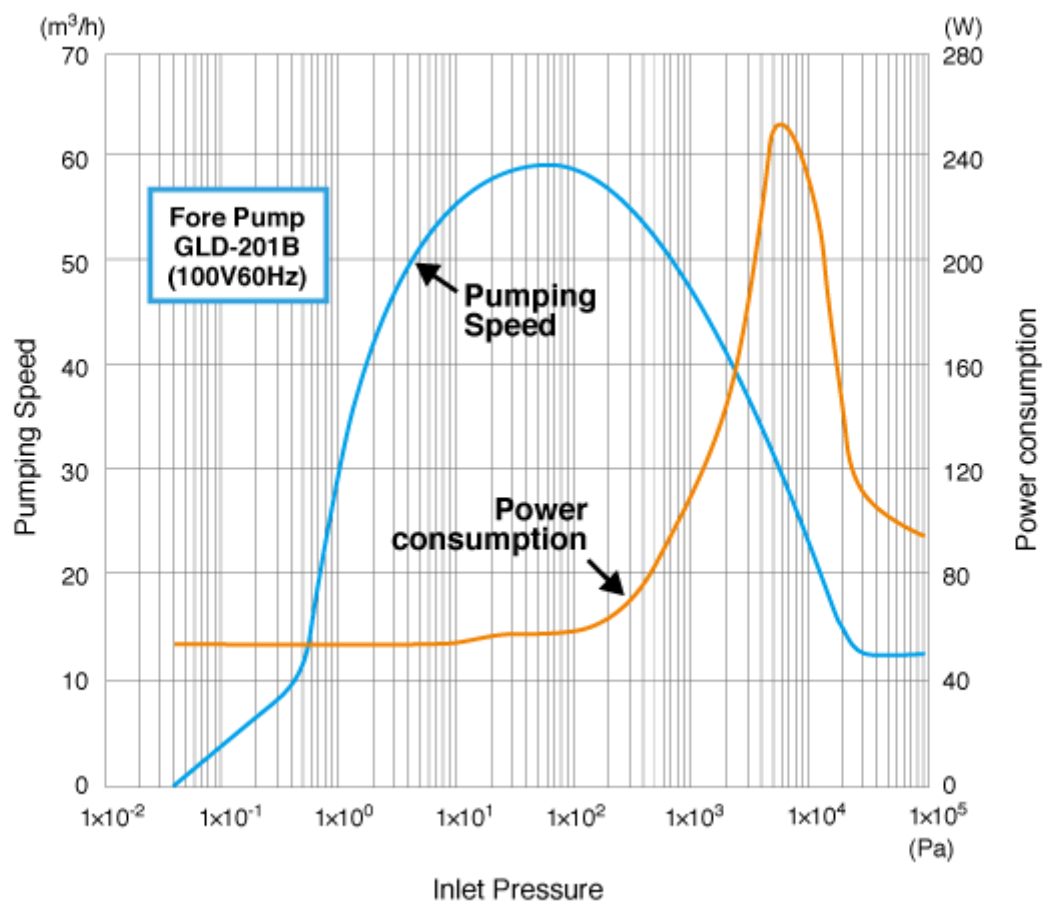
Outline Drawing



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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